Facility Name:W A Parish
Facility Identifier:
Facility Reporting Year:2024
Facility Location:
Address: 91 JONES RD
City: THOMPSONS
State: TX
Postal Code: 77469

Facility Site Details:
CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):10,988,091.6
CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):
CO2 equivalent 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:NRG ENERGY INC
Address:910 Louisiana Street, Houston, TX 77002
Percent Ownership Interest:100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Carbon Dioxide
Gas Quantity	3,574 (Metric Tons)
Own Result?	

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

Gas Name	Methane
Gas Quantity	0.07 (Metric Tons)
Own Result?	

Gas Name	Nitrous Oxide
Gas Quantity	0.007 (Metric Tons)
Own Result?	

Unit Details:
Unit Name : WAPAB
Unit Type : OB (Boiler, other)
Unit Description :
Individual Unit Details:
Use 1vt Indicator: N
Maximum Rated Heat Input Capacity: 221.0 (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 : Natural Gas (Weighted U.S. Average)
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 : Monthly

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
3201.2 (Metric Tons)	0.06 (Metric Tons)	0.006 (Metric Tons)	1.7 (Metric Tons)	1.6 (Metric Tons)

Equation C2a/C9a Inputs :
Fuel Quantity : 59148860 (scf/year)
Annual Average High Heat Value : true
High Heat Value : 0.00102 (mmBtu/scf)

Unit Name : WAPQT1
Unit Type : OCS (Other combustion source)
Unit Description :
Other Unit Name : Electricity Generator
Individual Unit Details:
Use 1vt Indicator: N
Maximum Rated Heat Input Capacity: 0.0 (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 : Natural Gas (Weighted U.S. Average)
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 : Monthly

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
372.3 (Metric Tons)	0.01 (Metric Tons)	0.001 (Metric Tons)	0.2 (Metric Tons)	0.2 (Metric Tons)

Equation C2a/C9a Inputs :
Fuel Quantity : 6878000 (scf/year)
Annual Average High Heat Value : true
High Heat Value : 0.00102 (mmBtu/scf)

Unit Name : WAPCDE
Unit Type : OCS (Other combustion source)
Unit Description :
Other Unit Name : Electricity Generator
Individual Unit Details:
Use 1vt Indicator:
Maximum Rated Heat Input Capacity: 0.0 (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 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
0.5 (Metric Tons)	0.00 (Metric Tons)	0.000 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Equation C1/C8 Inputs :
Fuel Quantity : 45 (gallons/year)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Carbon Dioxide
Gas Quantity	10,907,392.6 (Metric Tons)
Own Result?	

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

Gas Name	Methane
Gas Quantity	1,164.46 (Metric Tons)
Own Result?	

Gas Name	Nitrous Oxide
Gas Quantity	157.986 (Metric Tons)
Own Result?	

Unit Details:

Unit Name : CTHSSG
Unit Type : Electricity Generator
Unit Description :
Plant Code : 58378 (numeric, maximum of 6 digits)
Part 75 Methodology : Appendix G, Equation G-4
Methodology Start Date: 2016-10-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 231633.9
Annual CO2 Emissions Including Biomass (short tons): 255330.1
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:
Operating Hours Fuel Flow Rate Substituted: 0
Operating Hours HHV Substituted: 0

Electricity Fuel Details:

Fuel type: Natural Gas (Weighted U.S. Average)
Annual heat input: 4206427.0 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 120.3 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 113.9 (Metric Tons)

Unit Name : WAP2
Unit Type : Electricity Generator
Unit Description :
Plant Code : 3470 (numeric, maximum of 6 digits)
Part 75 Methodology : Appendix G, Equation G-4
Methodology Start Date: 1995-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 120808.9
Annual CO2 Emissions Including Biomass (short tons): 133158.8
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:
Operating Hours Fuel Flow Rate Substituted: 74
Operating Hours HHV Substituted: 0

Electricity Fuel Details:

Fuel type: Natural Gas (Weighted U.S. Average)
Annual heat input: 2239593 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 62.7 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 59.3 (Metric Tons)

Unit Name : WAP3
Unit Type : Electricity Generator
Unit Description :
Plant Code : 3470 (numeric, maximum of 6 digits)
Part 75 Methodology : Appendix G, Equation G-4
Methodology Start Date: 1995-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 301068.6
Annual CO2 Emissions Including Biomass (short tons): 331867.9
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:
Operating Hours Fuel Flow Rate Substituted: 105
Operating Hours HHV Substituted: 0

Electricity Fuel Details:

Fuel type: Natural Gas (Weighted U.S. Average)
Annual heat input: 5583170 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 156.3 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 148.0 (Metric Tons)

Unit Name : WAP4
Unit Type : Electricity Generator
Unit Description :
Plant Code : 3470 (numeric, maximum of 6 digits)
Part 75 Methodology : Appendix G, Equation G-4
Methodology Start Date: 1995-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 708407.6
Annual CO2 Emissions Including Biomass (short tons): 780877.7
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:
Operating Hours Fuel Flow Rate Substituted: 89
Operating Hours HHV Substituted: 0

Electricity Fuel Details:

Fuel type: Natural Gas (Weighted U.S. Average)
Annual heat input: 13139712 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 367.9 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 348.2 (Metric Tons)

Unit Name : WAP6
Unit Type : Electricity Generator
Unit Description :
Plant Code : 3470 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 1995-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 2189754.3
Annual CO2 Emissions Including Biomass (short tons): 2413766.3
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 22
Operating Hours Stack Gas Flow Rate Substituted: 4
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Subbituminous
Annual heat input: 22478072 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 6923.2 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 9530.7 (Metric Tons)

Fuel type: Natural Gas (Weighted U.S. Average)
Annual heat input: 945894 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 26.6 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 25.2 (Metric Tons)

Unit Name : WAP7
Unit Type : Electricity Generator
Unit Description :
Plant Code : 3470 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 1995-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 2209285.4
Annual CO2 Emissions Including Biomass (short tons): 2435295.4
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 39
Operating Hours Stack Gas Flow Rate Substituted: 7
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Subbituminous
Annual heat input: 22988011 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 7080.3 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 9746.9 (Metric Tons)

Fuel type: Natural Gas (Weighted U.S. Average)
Annual heat input: 431523 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 11.8 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 11.2 (Metric Tons)

Unit Name : MS1
Unit Type : Electricity Generator
Unit Description :
Plant Code : 3470 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 2016-10-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 2382642.8
Annual CO2 Emissions Including Biomass (short tons): 2626387.3
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 279
Operating Hours Stack Gas Flow Rate Substituted: 67
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Subbituminous
Annual heat input: 23456011 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 7224.5 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 9945.3 (Metric Tons)

Fuel type: Natural Gas (Weighted U.S. Average)
Annual heat input: 84184 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 8.7 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 8.3 (Metric Tons)

Unit Name : MS2
Unit Type : Electricity Generator
Unit Description :
Plant Code : 3470 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 2016-10-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 94185.4
Annual CO2 Emissions Including Biomass (short tons): 103820.6
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 51
Operating Hours Stack Gas Flow Rate Substituted: 38
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Subbituminous
Annual heat input: 8166583 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 2515.3 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 3462.4 (Metric Tons)

Unit Name : WAP1
Unit Type : Electricity Generator
Unit Description :
Plant Code : 3470 (numeric, maximum of 6 digits)
Part 75 Methodology : Appendix G, Equation G-4
Methodology Start Date: 1995-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 120584.8
Annual CO2 Emissions Including Biomass (short tons): 132920.6
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:
Operating Hours Fuel Flow Rate Substituted: 38
Operating Hours HHV Substituted: 0

Electricity Fuel Details:

Fuel type: Natural Gas (Weighted U.S. Average)
Annual heat input: 2234000 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 62.6 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 59.2 (Metric Tons)

Unit Name : WAP5
Unit Type : Electricity Generator
Unit Description :
Plant Code : 3470 (numeric, maximum of 6 digits)
Part 75 Methodology : CEMS
Methodology Start Date: 1995-01-01
Methodology End Date: 2024-12-31
Acid Rain Program Indicator: Y

Emission Details:
Annual CO2 Emissions Including Biomass (metric tons): 2549028.9
Annual CO2 Emissions Including Biomass (short tons): 2809794.7
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:
Operating Hours CO2 Concentration Substituted: 70
Operating Hours Stack Gas Flow Rate Substituted: 4
Operating Hours Stack Gas Moisture Substituted:

Electricity Fuel Details:

Fuel type: Subbituminous
Annual heat input: 25989403 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 8004.7 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 11019.5 (Metric Tons)

Fuel type: Natural Gas (Weighted U.S. Average)
Annual heat input: 1422326.6 (mmBtu)
CH_4 Emissions CO_2 Equivalent: 39.8 (Metric Tons)
N_2O Emissions CO_2 Equivalent: 37.7 (Metric Tons)

Subpart PP: Suppliers of Carbon Dioxide

Gas Information Details

Gas Name	Carbon Dioxide
Gas Quantity	
Own Result?	

Supplier Type: capture 98.420(a)(1)
Calculation Methodology: Flow Meters 1

Meter Details:

Meter Name: CO2FLO
Meter Description:
Meter Type: CO2 Flow Meter
Measurement Type: Volumetric - concentration in volume percentage
Annual Mass of CO2 (Metric Tons):
Biomass-Based Percent: 99.98
Flow Meter Location: NA
Was CO2 Imported or Exported: NA
Dehydration Equipment Upstream? Y
Dehydration Equipment Downstream? N
Compression Equipment Upstream? Y
Compression Equipment Downstream? N
Other Processing Equipment Upstream? Y
Other Processing Equipment Downstream? N
Other Processing Equipment Description: CO2 Capture System

Quarterly Volumetric Flow Data

Quarter	Volumetric Flow Rate	CO2 Concentration	Measurement Standard	Density
First Quarter		(volume %CO2 expressed as a fraction)	EnerSys CO2FlO Computer Running AGA-3 Flow Calculations & NIST14Density Calculations.	(mton/scm)
Second Quarter		(volume %CO2 expressed as a fraction)	EnerSys CO2FlO Computer Running AGA-3 Flow Calculations & NIST14Density Calculations.	(mton/scm)
Third Quarter		(volume %CO2 expressed as a fraction)	EnerSys CO2FlO Computer Running AGA-3 Flow Calculations & NIST14Density Calculations.	(mton/scm)
Fourth Quarter		(volume %CO2 expressed as a fraction)	EnerSys CO2FlO Computer Running AGA-3 Flow Calculations & NIST14Density Calculations.	(mton/scm)

End Use Details

End Use Category	Quantity of CO2
Food and beverage	(Metric Tons)
Industrial and municipal water/wastewater treatment	(Metric Tons)
Metal fabrication, including welding and cutting	(Metric Tons)
Greenhouse uses for plant growth	(Metric Tons)
Fumigants (e.g., grain storage) and herbicides	(Metric Tons)
Pulp and paper	(Metric Tons)
Cleaning and solvent use	(Metric Tons)
Fire fighting	(Metric Tons)
Transportation and storage of explosives	(Metric Tons)
Injection of CO2 for enhanced oil and natural gas recovery that is covered by 40 CFR Part 98, Subpart UU	(Metric Tons)
Geologic sequestration of carbon dioxide that is covered by 40 CFR Part 98, Subpart RR	(Metric Tons)
Research and Development	(Metric Tons)
Other (if other please provide a short description of the use)	(Metric Tons)
Unknown	(Metric Tons)

Number of days substitute data procedures were used for mass or volume: 0
Number of days substitute data procedures were used for concentration: 0
Number of days substitute data procedures were used for density: 0

Types of Equipment Used

Equipment Type	Standard Used to Calibrate Equipment
Volumetric flow meter	On-line calibrations on a regular basis. Annual full check-out of the system.