Facility Name: Orange County Sanitation District - Plant 1

Facility ARB ID:	100255
Facility Reporting Year:	2024

Confidential Data Indication Set to "No" by Reporter

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Representatives

Agent:	Sai Lee
Designated Representative:	Tom Meregillano
Alternate Designated	RANDA ABUSHABAN
Representative:	
Facility Location	
Physical Address:	10844 Ellis Avenue
City:	Fountain Valley
State / Province:	CA
ZIP / Postal Code:	92708
Country:	
Latitude:	33.69404
Longitude:	-117.93807
County:	ORANGE
Air Basin:	SOUTH COAST
District:	SOUTH COAST AQMD
Mailing Address:	10844 Ellis Avenue
City:	Fountain Valley
State / Province:	CA
ZIP / Postal Code:	92708
Country:	

Payment Information (required if subject to AB 32 Cost of Implementation Fee Regulation)

Responsible Party for Payment: Responsible Party Email: Responsible Party Phone: Billing Address: City: State / Province: ZIP / Postal Code: Country:

Owners / Operators

Name:

Facility or Entity Total GHG Emissions Summary

CO2 equivalent emissions, excluding biogenic (subparts C – AA):	5,711.647885 Metric Tons
Exempt biogenic CO2 emissions (subparts C – AA):	19,529.941446 Metric Tons
CO2 equivalent emissions from fuel supplier categories, excluding biogenic (subparts MM – NN):	0 Metric Tons
Exempt biogenic CO2 emissions from fuel supplier categories (subparts MM – NN):	0 Metric Tons
CO2 emissions from CO2 Suppliers (excluding biogenic) (subpart PP):	0 Metric Tons
Exempt biogenic CO2 emissions from CO2 Suppliers (subpart PP):	0 Metric Tons
Covered CO2 equivalent emissions:	5,711.647885 Metric Tons
De Minimis CO2 equivalent emissions:	0 Metric Tons
Maximum allowable De Minimis emissions:	757.24768 Metric Tons

Subpart Total GHG Emissions Summary							
Subparts	-	Exempt Biogenic CO2e	Non-Exempt Biogenic CO2e	Total CO2e	Covered CO2e		
С	5,605.432784	19,529.941446	0	25,241.589331	5,711.647885		

General Facility Reporting Information

NAICS Codes	
Primary:	221320 (Sewage Treatment Facilities)
Second Primary:	
Additional:	
U.S. Davant Companies	
U.S. Parent Companies	Orange County Sepitation District (OC Sep)
Parent Company Name: Address:	Orange County Sanitation District (OC San) 18480 Bandilier Circle, Fountain Valley, CA 92708
	100%
Percentage of Ownership Interest:	
Country:	UNITED STATES
GHG Report Start Date:	2024-01-01
GHG Report End Date:	2024-12-31
Explanation of any calculation	
methodology changes during the	
reporting year:	
EPA e-GGRT Facility IDs	
Full or Abbreviated GHG Report:	Full
Company or Entity qualifies for	No
Small Business Status:	
Electricity Purchases/Acquisitions fo	<u>r Reporting Facilities (95104(d))</u>
Electricity Provider's Name:	Southern California Edison (SCE)
Provider's ARB ID:	3005
Purchases/Acquisitions:	42,753.4 MWh

Natural Gas Purchases/Acquisitions for Reporting Facilities [95115(k), 95103(a)(1)]

Natural Gas Supplier Name: Supplier's ARB ID:	Southern California Gas Company (SCG) 5002
Customer Number:	10261095938
Purchases/Acquisitions:	12,942.96 MMBtu
Was this natural gas received directly from an interstate pipeline?	No
Do you grant CARB staff permission to share confidential annual natural gas fuel purchase data with your identified natural gas fuel supplier?	No
Natural Gas Supplier Name:	Southern California Gas Company (SCG)
Supplier's ARB ID:	5002
Customer Number:	10471095009
Purchases/Acquisitions:	98,434.2 MMBtu
Was this natural gas received directly from an interstate pipeline?	No
Do you grant CARB staff permission to share confidential annual natural gas fuel purchase data with your identified natural gas fuel supplier?	No

Cap-and-Trade Facilities: Increases and Decreases in Facility Emissions [95104(f)]: For facilities subject to Cap-and- No

For facilities subject to Cap-and-Trade requirements: Have total facility emissions increased or decreased more than 5% in relation to the previous data year? [Not applicable for fuel suppliers, CO2 suppliers, electric power entities, and abbreviated reporters.]

Note: This section is not subject to the third-party verification requirements

Electricity Generation

<u>Lieuning Generation</u>	
Facility has the capacity to generate electricity:	Yes
CEC ID (if applicable):	G0483
EIA Plant ID (if applicable):	50696
FERC QFID (if applicable):	2460
CAISO ID (if applicable):	NA
Total Facility Nameplate Generating Capacity:	7.5 MW
Facility Type:	Independently operated and sited cogeneration facility
Facility's Energy Disposition:	
Does not provide any generated ene	ergy outside of the facility boundary
Generated electricity used for other on-site industrial processes that are not in support of or a part of the power generation system:	40,266.51 MWh
Reported emissions include emissions from a cogeneration/bigeneration unit:	Yes

Parasitic Steam Use: Generated thermal energy used for supporting power production (excluding steam used directly for generating electricity) [95112(a)(5)(B)]:

Generated thermal energy for onsite industrial applications not related to electricity generation [95112(a)(5)(C)]: 55,671 MMBtu

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Gas Quantity (Metric Tons)
Methane	1.30595
Nitrous Oxide	0.246867
Exempt Biogenic Carbon dioxide	19,529.941446
Non-Exempt Biogenic Carbon dioxide	0
Non-Biogenic Carbon dioxide	5,605.432784
Total CO2e	25,241.589331

Total Covered CO2e Emissions:

5,711.647885 (Metric Tons)

Emissions shown above that are claimed as De Minimis (CO2e):

0 Metric Tons

<u>Unit Details</u>

Unit Name:	Boiler
Configuration Type:	Single Unit Using Tiers 1, 2, or 3
Unit Type:	OB (Boiler, other)
Unit Description:	
Boiler, Hurst Boiler and Welding Com	pany, Model No. S5-250-125W, 10.5MMBTU/Hr
Individual Unit Details	
Maximum Rated Heat Input	10.5 mmBtu/hr
Capacity:	
Electricity Generation Unit Information	
Does this configuration have the	No
capacity to generate electricity?	
Emission Dotails, Configuration Loval Su	mmany (licer entered values)
Emission Details: Configuration-Level Su Total exempt annual biogenic CO2	295.3638
mass emissions (must equal the sum	255.5050
of calculated annual exempt biogenic	
CO2) (metric tons):	
Annual CO2 emissions from sorbent	0
(metric tons):	
Fuel-Specific Emissions Information	
Fuel:	
Biogas (including captured me	ethane) - Biomass-Derived Fuels - Gaseous
Calculation Methodology:	Tier 2 (Equation C-2a)

Methodology Start Date:	2014-01-01
Methodology End Date:	2024-12-31
Percentage of Fuel that is Biogenic:	100%
Frequency of HHV determinations:	Monthly
Fuel Emission Details	
Total CO2 emissions:	295.3638 Metric Tons
Total CH4 emissions:	0.018152 Metric Tons
Total N2O emissions:	0.003574 Metric Tons
Total CH4 emissions CO2e:	0.453795 Metric Tons
Total N2O emissions CO2e:	1.064943 Metric Tons
Equation Inputs	
Mass or Volume of Fuel Combusted	9,149,092.1 scf
per Year:	
Annual Average High Heat Value:	0.00062 mmBtu/scf
Fuel Specific CO2 Emissions Factor:	52.07 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor:	0.0032 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor:	0.00063 kg N2O/MMBtu

<u>HHV Substitute Data Information</u> - Identify each month for which the monthly HHV value is calculated using one or more substitute data values.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν

Natural Gas - Natural Gas

Fuel:

Calculation Methodology:	Tier 2 (Equation C-2a)
Methodology Start Date:	2016-01-01
Methodology End Date:	2024-12-31
Percentage of Fuel that is Biogenic:	0%
Frequency of HHV determinations:	Monthly
Fuel Emission Details	
Total CO2 emissions:	41.53217 Metric Tons
Total CH4 emissions:	0.000783 Metric Tons
Total N2O emissions:	0.000078 Metric Tons
Total CH4 emissions CO2e:	0.019583 Metric Tons
Total N2O emissions CO2e:	0.023343 Metric Tons
<u>Equation Inputs</u>	
Mass or Volume of Fuel Combusted	760,514.8 scf
per Year:	
Annual Average High Heat Value:	0.00103 mmBtu/scf
Fuel Specific CO2 Emissions Factor:	53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor:	0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor:	0.0001 kg N2O/MMBtu

<u>HHV Substitute Data Information</u> - Identify each month for which the monthly HHV value is calculated using one or more substitute data values.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν

Aggregation of Units
OCS (Other combustion source)
h a Cooper Bessmer, Model No. LSVB-12-SGC, 3471 08500 BTU/Hr capacity.
5.0085 mmBtu/hr
Electricity generating unit/system (EGU/EGS)
Vec
Yes
No
7.5 MW
Internal Combustion Engine
Cogeneration Topping Cycle
42,508.01 MWh
40,266.51 MWh
55,671 MMBtu
55,071 MMDLU
<u>ummary (User entered values)</u>
19,234.577646
0
ethane) - Biomass-Derived Fuels - Gaseous
Tier 2 (Equation C-2a)
2017-01-01

MethodologyHer 2 (EqualMethodology Start Date:2017-01-01Methodology End Date:2024-12-31Percentage of Fuel that is Biogenic:100%Frequency of HHV determinations:Monthly

Fuel Emission Details	
Total CO2 emissions:	19,234.577646 Metric Tons
Total CH4 emissions:	1.182075 Metric Tons
Total N2O emissions:	0.232721 Metric Tons
Total CH4 emissions CO2e:	29.551877 Metric Tons
Total N2O emissions CO2e:	69.350866 Metric Tons
<u>Equation Inputs</u>	
Mass or Volume of Fuel Combusted	595,803,962.6 scf
per Year:	
Annual Average High Heat Value:	0.00062 mmBtu/scf
Fuel Specific CO2 Emissions Factor:	52.07 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor:	0.0032 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor:	0.00063 kg N2O/MMBtu

<u>HHV Substitute Data Information</u> - Identify each month for which the monthly HHV value is calculated using one or more substitute data values.

Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	N	

Natural Gas - Natural Gas

Fuel:

Tier 2 (Equation C-2a) Calculation Methodology: Methodology Start Date: 2017-01-01 Methodology End Date: 2024-12-31 0% Percentage of Fuel that is Biogenic: Frequency of HHV determinations: Monthly **Fuel Emission Details** Total CO2 emissions: 4,876.923402 Metric Tons Total CH4 emissions: 0.091983 Metric Tons Total N2O emissions: 0.009198 Metric Tons Total CH4 emissions CO2e: 2.299568 Metric Tons Total N2O emissions CO2e: 2.741085 Metric Tons **Equation Inputs** Mass or Volume of Fuel Combusted 89,303,604.09 scf per Year: Annual Average High Heat Value: 0.00103 mmBtu/scf Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu

HHV Substitute Data Information - Identify each month for which the monthly HHV value is calculated using one or more substitute data values.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	N

Unit Name:

Configuration Type: Unit Type: Unit Description: GP-Comfort Heating/Misc NaturalGas Usage Aggregation of Units OCS (Other combustion source)

Natural Gas supply for space heating/comfort heating, water heaters, bunsen burners in the laboratory, flare complex pilots, and hot water tank natural gas pilot.

Highest Maximum Rated Heat Input	1.995 mmBtu/hr
Capacity:	
Type of Emission Unit for this Group [Note: EGU/EGS must always be	Other (none of the above)
separated from other unit types]:	
Electricity Generation Unit Information	
Does this configuration have the	No
capacity to generate electricity?	
Emission Details: Configuration-Level S	<u>ummary (User entered values)</u>
Total exempt annual biogenic CO2	0
mass emissions (must equal the sum	
of calculated annual exempt biogenic	
CO2) (metric tons):	0
Annual CO2 emissions from sorbent (metric tons):	0
Fuel-Specific Emissions Information	
Fuel:	Natural Gas - Natural Gas
Calculation Methodology:	Tier 2 (Equation C-2a)
Methodology Start Date:	2014-01-01
Methodology End Date:	2024-12-31
Percentage of Fuel that is Biogenic:	0%
Frequency of HHV determinations:	Monthly
Fuel Emission Details	
Total CO2 emissions:	686.977213 Metric Tons
Total CH4 emissions:	0.012957 Metric Tons
Total N2O emissions:	0.001296 Metric Tons
Total CH4 emissions CO2e:	0.323924 Metric Tons
Total N2O emissions CO2e:	0.386117 Metric Tons
Equation Inputs	
Mass or Volume of Fuel Combusted per Year:	12,579,558.06 scf
Annual Average High Heat Value:	0.00103 mmBtu/scf
Fuel Specific CO2 Emissions Factor:	53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor:	0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor:	0.0001 kg N2O/MMBtu

HHV Substitute Data Information - Identify each month for which the monthly HHV value is calculated using one or more substitute data values.

Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Ν	Ν	N	N	Ν	N	Ν	Ν	Ν	Ν	Ν	Ν

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