

Sonoma Water was created as a special district in 1949 by the California Legislature to provide flood protection and water supply services. Legislation enacted in 1995 added the treatment and disposal of wastewater to Sonoma Water's responsibilities.

It has been the mission of Sonoma Water since 1949 to effectively manage the resources in our care for the benefit of people and the environment. With more than two hundred dedicated professionals who work for Sonoma Water in a variety of fields ranging from engineering to biology, we strive to look forward, beyond today's issues, to anticipate ways to advance our mission.

Description:

The Sonoma County Board of Supervisors acts as Sonoma Water's Board of Directors. Sonoma Water is a separate legal entity created by State law, having specific limited purposes and powers, and separate sources of funding. Sonoma Water is thus different from County departments, which are created by the Board of Supervisors for administrative purposes, but are not separate legal entities.

Industry: 22 - Utilities

Address: 404 Aviation Blvd, Santa Rosa, California, US

Contact: Carolyn Greco www.scwa.ca.gov/

Reporting Information

Inventory Type	Complete
Reporting Protocol:	GRP 3.0
GWP Standard:	AR5
Base Year:	2006
Scope 2 method	Market-based
Reporting Year Type	Calendar Year
Consolidation Methodology:	Operational Control Only

Status: TCR Accepted

Verification Information

Verification Body: Cameron-Cole, LLC

Level of Assurance: Reasonable

Entity Emissions | Total in metric tons of CO2e

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Stationary Combustion - Scope 1	201.014109	200.367021	0.287911	0.359177	0	0	0	0
Mobile Combustion - Scope 1	1,079.700012	1,073.56	0.84	5.300012	0	0	0	0
Process - Scope 1	386.899997	0	0	386.899997	0	0	0	0
Fugitive - Scope 1	153.506517	0	62.501964	0	91.004553	0	0	0
Total	1,821.120635	1,273.927021	63.629875	392.559186	91.004553	0	0	0
Applied Offsets								
Net Total	1,821.120635							

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Purchased Electricity - Location Based - Scope 2	8,271.1413	8,240.599842	13.713961	16.827497	0	0	0	0
Total	8,271.1413	8,240.599842	13.713961	16.827497	0	0	0	0
Applied Offsets								
Net Total	8,271.1413							

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Purchased Electricity - Market Based - Scope 2	72.897885	69.450946	1.629581	1.817358	0	0	0	0
Total	72.897885	69.450946	1.629581	1.817358	0	0	0	0
Applied Offsets								

Net Total	72.897885
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Direct Emissions - Biomass	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Mobile Biomass Combustion - Biomass	15.323438	15.323438	0	0	0	0	0	0
Total	15.323438	15.323438	0	0	0	0	0	0
Applied Offsets								
Net Total	15.323438							

Entity Emissions | Total in metric tons of gas

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	201.014109	200.367021	0.01027	0.001343	0	0	0	0
Mobile Combustion - Scope 1	1,079.700012	1,073.56	0.03	0.02	0	0	0	0
Process - Scope 1	386.899997	0	0	1.46	0	0	0	0
Fugitive - Scope 1	153.506517	0	2.232213	0	91.004553	0	0	0
Total	1,821.120635	1,273.927021	2.272483	1.481343	91.004553	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	8,271.1413	8,240.599842	0.489774	0.063488	0	0	0	0
Total	8,271.1413	8,240.599842	0.489774	0.063488	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	72.897885	69.450946	0.058191	0.00685	0	0	0	0
Total	72.897885	69.450946	0.058191	0.00685	0	0	0	0

Direct Emissions - Biomass	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Biomass Combustion - Biomass	15.323438	15.323438	0	0	0	0	0	0
Total	15.323438	15.323438	0	0	0	0	0	0

Simplified Estimation Methods (SEMs)

	Total Estimated CO2e (t)	Total Emissions (t of CO2e)	Estimated CO2e as a Percentage of Total*
Location-based	104	10,107	1.03%
Market-based	104	1,909	5.45%

*Total based on Scope 1, Scope 2, & biomass emissions

Facility Emissions | 204 Wholesale Water Office

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
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Stationary Combustion - Scope 1	0.761183	0.758772	0.000043	0.000004	0	0	0	0
Fugitive - Scope 1	7.15542	0	0	0	7.15542	0	0	0
Total	7.916603	0.758772	0.000043	0.000004	7.15542	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	69.146719	68.910789	0.003945	0.000473	0	0	0	0
Total	69.146719	68.910789	0.003945	0.000473	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	6.772087	6.454567	0.005365	0.000631	0	0	0	0
Total	6.772087	6.454567	0.005365	0.000631	0	0	0	0

Facility Emissions | 404 Administrative Office

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	34.02318	33.922106	0.003004	0.000063	0	0	0	0
Fugitive - Scope 1	5.885909	0	0	0	5.885909	0	0	0

Total	39.909089	33.922106	0.003004	0.000063	5.885909	0	0	0
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Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	112.90753	112.522287	0.006442	0.000773	0	0	0	0
Total	112.90753	112.522287	0.006442	0.000773	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	11.05793	10.539462	0.008761	0.00103	0	0	0	0
Total	11.05793	10.539462	0.008761	0.00103	0	0	0	0

Facility Emissions | Groundwater Well: Occidental Production Well

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	0.420525	0.419091	0.000023	0.000002	0	0	0	0
Total	0.420525	0.419091	0.000023	0.000002	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0	0	0	0	0	0	0	0

Total	0	0	0	0	0	0	0	0	0
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Facility Emissions | Groundwater Well: Sebastopol Production WellI

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	0.073726	0.073476	0.000004	0	0	0	0	0
Total	0.073726	0.073476	0.000004	0	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Facility Emissions | Groundwater Well: Todd Production Well

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	1.710536	1.704701	0.000097	0.000011	0	0	0	0
Total	1.710536	1.704701	0.000097	0.000011	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Facility Emissions | Occidental Pump Station

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	52.375188	52.20373	0.002116	0.000423	0	0	0	0
Total	52.375188	52.20373	0.002116	0.000423	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	17.768269	17.707644	0.001013	0.000121	0	0	0	0
Total	17.768269	17.707644	0.001013	0.000121	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	1.740186	1.658596	0.001378	0.000162	0	0	0	0
Total	1.740186	1.658596	0.001378	0.000162	0	0	0	0

Facility Emissions | Penngrove lift station

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	0.266331	0.26546	0.00001	0.000002	0	0	0	0
Total	0.266331	0.26546	0.00001	0.000002	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	9.155181	9.120343	0.00055	0.000073	0	0	0	0
Total	9.155181	9.120343	0.00055	0.000073	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.786834	0.749943	0.000623	0.000073	0	0	0	0
Total	0.786834	0.749943	0.000623	0.000073	0	0	0	0

Facility Emissions | Petaluma Aqueduct

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	118.546821	118.142336	0.006763	0.000811	0	0	0	0
Total	118.546821	118.142336	0.006763	0.000811	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.011608	0.011065	0.000009	0.000001	0	0	0	0
Total	0.011608	0.011065	0.000009	0.000001	0	0	0	0

Facility Emissions | pH & Chlorination Facility

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	0.332914	0.331825	0.000013	0.000002	0	0	0	0
Total	0.332914	0.331825	0.000013	0.000002	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	15.564923	15.511816	0.000888	0.000106	0	0	0	0
Total	15.564923	15.511816	0.000888	0.000106	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Facility Emissions | Pipeline Valve Stations

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	0.484775	0.483122	0.000027	0.000003	0	0	0	0
Total	0.484775	0.483122	0.000027	0.000003	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.047476	0.045251	0.000037	0.000004	0	0	0	0
Total	0.047476	0.045251	0.000037	0.000004	0	0	0	0

Facility Emissions | Stream Gauge

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
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Purchased Electricity - Location Based - Scope 2	0.214076	0.213346	0.000012	0.000001	0	0	0	0
Total	0.214076	0.213346	0.000012	0.000001	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.020965	0.019983	0.000016	0.000001	0	0	0	0
Total	0.020965	0.019983	0.000016	0.000001	0	0	0	0

Facility Emissions | Transmission system accessories

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	3.020166	3.009862	0.000172	0.00002	0	0	0	0
Total	3.020166	3.009862	0.000172	0.00002	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.295788	0.28192	0.000234	0.000027	0	0	0	0
Total	0.295788	0.28192	0.000234	0.000027	0	0	0	0

Facility Emissions | Vehicle Fleet

Equity share - 100.00 | Entity controls the facility emissions - Yes

Direct Emissions - Biomass	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Biomass Combustion - Biomass	15.323438	15.323438	0	0	0	0	0	0
Total	15.323438	15.323438	0	0	0	0	0	0

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Combustion - Scope 1	1,079.700012	1,073.56	0.03	0.02	0	0	0	0
Fugitive - Scope 1	69.42	0	0	0	69.42	0	0	0
Total	1,149.120012	1,073.56	0.03	0.02	69.42	0	0	0

Facility Emissions | Warm Springs Hydroelectric Power Plant

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	10.227132	10.192238	0.000583	0.00007	0	0	0	0
Total	10.227132	10.192238	0.000583	0.00007	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.326941	0.282594	0.0007	0.000093	0	0	0	0
Total	0.326941	0.282594	0.0007	0.000093	0	0	0	0

Facility Emissions | Wastewater: Airport Wastewater Treatment Plant

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	8.688876	8.65832	0.000418	0.000069	0	0	0	0
Process - Scope 1	58.3	0	0	0.22	0	0	0	0
Fugitive - Scope 1	60.203994	0	2.066333	0	2.34667	0	0	0
Total	127.19287	8.65832	2.066751	0.220069	2.34667	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	393.845371	392.501558	0.022471	0.002696	0	0	0	0
Total	393.845371	392.501558	0.022471	0.002696	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
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Purchased Electricity - Market Based - Scope 2	38.572405	36.763875	0.030561	0.003595	0	0	0	0
Total	38.572405	36.763875	0.030561	0.003595	0	0	0	0

Facility Emissions | Wastewater: Geyserville Treatment Plant

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	0.273898	0.272844	0.000013	0.000002	0	0	0	0
Process - Scope 1	15.899999	0	0	0.06	0	0	0	0
Total	16.173897	0.272844	0.000013	0.060002	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	20.874958	20.803732	0.001191	0.000142	0	0	0	0
Total	20.874958	20.803732	0.001191	0.000142	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	2.04445	1.948593	0.001619	0.00019	0	0	0	0
Total	2.04445	1.948593	0.001619	0.00019	0	0	0	0

Facility Emissions | Wastewater: Russian River Wastewater Treatment Plant

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	22.981386	22.906161	0.000926	0.000184	0	0	0	0
Process - Scope 1	47.699999	0	0	0.18	0	0	0	0
Total	70.681385	22.906161	0.000926	0.180184	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	286.257373	285.280654	0.016333	0.001959	0	0	0	0
Total	286.257373	285.280654	0.016333	0.001959	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	4.244142	4.045149	0.003362	0.000395	0	0	0	0
Total	4.244142	4.045149	0.003362	0.000395	0	0	0	0

Facility Emissions | Wastewater: Sea Ranch Central Sanitation Zone

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Process - Scope 1	23.849999	0	0	0.09	0	0	0	0
Total	23.849999	0	0	0.09	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	52.994413	52.813595	0.003023	0.000362	0	0	0	0
Total	52.994413	52.813595	0.003023	0.000362	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	5.190162	4.946814	0.004112	0.000483	0	0	0	0
Total	5.190162	4.946814	0.004112	0.000483	0	0	0	0

Facility Emissions | Wastewater: Sonoma Valley Wastewater Treatment Plant

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	28.186146	28.096701	0.001584	0.000169	0	0	0	0
Process - Scope 1	241.15	0	0	0.91	0	0	0	0

Fugitive - Scope 1	4.64464	0	0.16588	0	0	0	0	0
Total	273.980786	28.096701	0.167464	0.910169	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	938.196765	934.995607	0.053531	0.006423	0	0	0	0
Total	938.196765	934.995607	0.053531	0.006423	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.042115	0.040141	0.000033	0.000003	0	0	0	0
Total	0.042115	0.040141	0.000033	0.000003	0	0	0	0

Facility Emissions | Water Supply Booster Pump Stations

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	3.636452	3.62455	0.000146	0.000028	0	0	0	0
Total	3.636452	3.62455	0.000146	0.000028	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
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Purchased Electricity - Location Based - Scope 2	314.319355	313.246887	0.017934	0.002152	0	0	0	0
Total	314.319355	313.246887	0.017934	0.002152	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.055128	0.052544	0.000043	0.000005	0	0	0	0
Total	0.055128	0.052544	0.000043	0.000005	0	0	0	0

Facility Emissions | Water Tanks

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	6.817343	6.794083	0.000388	0.000046	0	0	0	0
Total	6.817343	6.794083	0.000388	0.000046	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.526793	0.502095	0.000417	0.000049	0	0	0	0
Total	0.526793	0.502095	0.000417	0.000049	0	0	0	0

Facility Emissions | Westside Facility

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Fugitive - Scope 1	1.878682	0	0	0	1.878682	0	0	0
Total	1.878682	0	0	0	1.878682	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	8.687419	8.657778	0.000495	0.000059	0	0	0	0
Total	8.687419	8.657778	0.000495	0.000059	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.850826	0.810935	0.000674	0.000079	0	0	0	0
Total	0.850826	0.810935	0.000674	0.000079	0	0	0	0

Facility Emissions | Wohler - Mirabel Diversion Facility

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
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Stationary Combustion - Scope 1	49.488555	49.326552	0.001997	0.000397	0	0	0	0
Fugitive - Scope 1	4.317872	0	0	0	4.317872	0	0	0
Total	53.806427	49.326552	0.001997	0.000397	4.317872	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	5,889.907924	5,867.494897	0.353889	0.047185	0	0	0	0
Total	5,889.907924	5,867.494897	0.353889	0.047185	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0.312049	0.297419	0.000247	0.000029	0	0	0	0
Total	0.312049	0.297419	0.000247	0.000029	0	0	0	0