

Marin Sanitary Service (MSS) is a privately-owned solid waste and recycling company that specializes in the collection and processing of residential and commercial trash, yard trimmings, curbside recyclables, food waste, and construction and demolition debris.

Description: MSS is a multi-faceted waste management operation located in east San Rafael. MSS provides weekly garbage and recycling collection services to more than 33,000 residential customers, or one third of the population of Marin. MSS also offers complete garbage and recycling collection for its many commercial customers. The MSS Campus has several distinct buildings with electricity and natural gas service.

Industry: 56 - Administrative and Support and Waste Management and Remediation Services

Address: 1822 21st Street,
Sacramento, California,
US

Contact: Grant Readle <https://marinsanitaryservice.com/>

Reporting Information

Inventory Type Complete

Reporting Protocol: GRP 3.0

GWP Standard: AR4

Base Year: 2009

Scope 2 method Location-based

Reporting Year Type Calendar Year

Consolidation Methodology: Operational Control Only

Status: TCR Accepted

Verification Information

Verification Body:

Aster Global Environmental
Solutions, Inc.

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	29.594991	29.520308	0.057	0.017683	0	0	0	0
Mobile Combustion - Scope 1	286.87476	253.428348	3.14905	30.297362	0	0	0	0
Total	316.469751	282.948656	3.20605	30.315045	0	0	0	0
Applied Offsets								
Net Total	316.469751							

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	427.581416	425.925478	0.630564	1.025374	0	0	0	0
Total	427.581416	425.925478	0.630564	1.025374	0	0	0	0
Applied Offsets								
Net Total	427.581416							

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	49.684418	48.021485	0.642224	1.020709	0	0	0	0
Total	49.684418	48.021485	0.642224	1.020709	0	0	0	0
Applied Offsets								
Net Total	49.684418							

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	4,497.66836	4,497.66836	0	0	0	0	0	0
Total	4,497.66836	4,497.66836	0	0	0	0	0	0
Applied Offsets								
Net Total	4,497.66836							

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	29.594991	29.520308	0.002279	0.000058	0	0	0	0
Mobile Combustion - Scope 1	286.87476	253.428348	0.125962	0.101669	0	0	0	0
Total	316.469751	282.948656	0.128241	0.101727	0	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	427.581416	425.925478	0.025683	0.003421	0	0	0	0
Total	427.581416	425.925478	0.025683	0.003421	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	49.684418	48.021485	0.025683	0.003421	0	0	0	0
Total	49.684418	48.021485	0.025683	0.003421	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	4,497.66836	4,497.66836	0	0	0	0	0	0
Total	4,497.66836	4,497.66836	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	36	5,242	0.69%
Market-based	36	4,864	0.74%

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

Facility Emissions | 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	4,497.66836	4,497.66836	0	0	0	0	0	0
Total	4,497.66836	4,497.66836	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	285.748492	252.30208	0.125962	0.101669	0	0	0	0
Total	285.748492	252.30208	0.125962	0.101669	0	0	0	0

Facility Emissions | Marin Recycling Center (MRRR)

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	112.630047	112.192018	0.006764	0.000901	0	0	0	0
Total	112.630047	112.192018	0.006764	0.000901	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	13.08726	12.649231	0.006764	0.000901	0	0	0	0
Total	13.08726	12.649231	0.006764	0.000901	0	0	0	0

Facility Emissions | Marin Resource Recovery Center (MRRC)

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	3.252	3.252	0	0	0	0	0	0
Mobile Combustion - Scope 1	1.126268	1.126268	0	0	0	0	0	0
Total	4.378268	4.378268	0	0	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	28.686863	28.575299	0.001722	0.000229	0	0	0	0
Total	28.686863	28.575299	0.001722	0.000229	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	3.333322	3.221758	0.001722	0.000229	0	0	0	0
Total	3.333322	3.221758	0.001722	0.000229	0	0	0	0

Facility Emissions | Offices, Shop, Transfer Station (MSS)

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	26.342991	26.268308	0.002279	0.000058	0	0	0	0
Total	26.342991	26.268308	0.002279	0.000058	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	286.264506	285.158161	0.017197	0.002291	0	0	0	0
Total	286.264506	285.158161	0.017197	0.002291	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	33.263836	32.150496	0.017197	0.002291	0	0	0	0
Total	33.263836	32.150496	0.017197	0.002291	0	0	0	0