



The City of Woodland

Detail Report - Control (Private)

Transitional Inventory 2018

Description:

Industry: 92 - Public Administration

Address: 42929 County Road
Woodland, California US

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Reporting Information

Reporting Protocol: General Reporting Protocol 2.1 and associated updates and clarifications

Additional Reporting Standards: Local Government Operations

GWP Standard: AR5

Base Year:

Consolidation Methodology: Operational Control Only

Status: Submit Positive Verification Finding

Verification Information

Verification Body: SCS Global Services

Level of Assurance: Reasonable

Entity Emissions | Total in metric tons of CO2e

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t of CO ₂ e)	N ₂ O (t of CO ₂ e)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t of CO ₂ e)	SF ₆ (t of CO ₂ e)
Stationary Combustion	805.349158	801.775398	0.908847	2.664913	0	0	0	0
Mobile Combustion	1,148.172193	1,135.55025	1.879108	10.742835	0	0	0	0
Process	311.1005	0	100.24	210.8605	0	0	0	0
Total	2,264.621851	1,937.325648	103.027955	224.268248	0	0	0	0
NetTotal	2,264.621851	1,937.325648	103.027955	224.268248	0	0	0	0
Scope 2 - Location Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t of CO ₂ e)	N ₂ O (t of CO ₂ e)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t of CO ₂ e)	SF ₆ (t of CO ₂ e)
Purchased Electricity - Location Based	1,759.770477	1,753.181517	3.068649	3.520311	0	0	0	0
Total	1,759.770477	1,753.181517	3.068649	3.520311	0	0	0	0
NetTotal	1,759.770477	1,753.181517	3.068649	3.520311	0	0	0	0
Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t of CO ₂ e)	N ₂ O (t of CO ₂ e)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t of CO ₂ e)	SF ₆ (t of CO ₂ e)
Purchased Electricity - Market Based	705.470412	698.881452	3.068649	3.520311	0	0	0	0
Total	705.470412	698.881452	3.068649	3.520311	0	0	0	0
NetTotal	705.470412	698.881452	3.068649	3.520311	0	0	0	0

Entity Emissions | Total in metric tons of gas

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	805.349158	801.775398	0.032459	0.010056	0	0	0	0
Mobile Combustion	1,148.172193	1,135.55025	0.067111	0.040539	0	0	0	0
Process	311.1005	0	3.58	0.7957	0	0	0	0
Total	2,264.621851	1,937.325648	3.67957	0.846295	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	1,759.770477	1,753.181517	0.109595	0.013284	0	0	0	0
Total	1,759.770477	1,753.181517	0.109595	0.013284	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	705.470412	698.881452	0.109595	0.013284	0	0	0	0
Total	705.470412	698.881452	0.109595	0.013284	0	0	0	0

Simplified Estimation Methods (SEMs)

	Total Estimated CO ₂ e (t)	Total Emissions (t of CO ₂ e)	Estimated CO ₂ e as a Percentage of Total*
Location Based	85.735685	4,024.392328	2.13040075477003%
Market Based	41.925133	2,970.092263	1.41157679528769%
*Total based on scope 1, scope 2 & biomass emissions			

Facility Emissions | Backup Diesel Engines

Equity share - 100% | Entity controls the facility emissions - Yes

655 N. Pioneer Ave, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	0.24801	0.24801	0	0	0	0	0	0
Total	0.24801	0.24801	0	0	0	0	0	0

Source Emissions | Backup Engines Diesel Fuel

Volumetric data was not available in the throughput reports which are typically used to quantify the amount of fuel burned in the back-up generator/motors. Emissions were quantified using hourly usage data and the manufacturer. See attachments "Throughput Reports 2018" and "Backup Generator Calcs 2018"

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO ₂ e (t)
Stationary Combustion	CO ₂	Petroleum Products	Commercial	Unspecified Technology	PreCalculate _d	Yes		Distillate Fuel Oil No. 2	N/A	N/A	N/A	0.24801	0.24801
Stationary Combustion	CH ₄	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	No		Distillate Fuel Oil No. 2	0	10 g/MMBtu	2019 Default Emission Factors - Table #1.10	0	0
Stationary Combustion	N ₂ O	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	No		Distillate Fuel Oil No. 2	0	0.6 g/MMBtu	2019 Default Emission Factors - Table #1.10	0	0

Facility Emissions | Charles Brooks Swim Center

Equity share - 100% | Entity controls the facility emissions - Yes

155 North West Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	565.471177	562.67477	0.009544	0.009544	0	0	0	0
Total	565.471177	562.67477	0.009544	0.009544	0	0	0	0

The City of Woodland
Emissions Year 2018

The Climate Registry

Scope 2 - Location Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	73.12578	72.851982	0.004554	0.000552	0	0	0	0
Total	73.12578	72.851982	0.004554	0.000552	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	29.315229	29.04143	0.004554	0.000552	0	0	0	0
Total	29.315229	29.04143	0.004554	0.000552	0	0	0	0

Source Emissions | Charles Brooks Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO ₂ e (t)
Purchased Electricity - Location Based	CO ₂	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	Yes		WECC California ^a	304,245 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	72.851982	72.851982
Purchased Electricity - Location Based	CH ₄	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	304,245 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.004554	0.127515
Purchased Electricity - Location Based	N ₂ O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	304,245 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000552	0.146284

Source Emissions | Charles Brooks Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	Yes		Pacific Gas & Electric	304,245 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	29.04143	29.04143
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	304,245 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.004554	0.127515
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	304,245 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000552	0.146284

Source Emissions | Charles Brooks Natural Gas Usage

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	106,045 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	562.67477	562.67477
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	106,045 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.009544	0.267233
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	106,045 therm	0.9 g/MMBtu	2019 Default Emission Factors - Table #1.8	0.009544	2.529173

Facility Emissions | City Hall

Equity share - 100% | Entity controls the facility emissions - Yes

300 First Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	7.286708	7.263914	0.000685	0.000014	0	0	0	0
Total	7.286708	7.263914	0.000685	0.000014	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	13.921166	13.869042	0.000867	0.000105	0	0	0	0
Total	13.921166	13.869042	0.000867	0.000105	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	5.580825	5.528701	0.000867	0.000105	0	0	0	0
Total	5.580825	5.528701	0.000867	0.000105	0	0	0	0

Source Emissions | City Hall Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	57,920 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	5.528701	5.528701
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	57,920 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000867	0.024275
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	57,920 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000105	0.027848

Source Emissions | City Hall Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	57,920 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	13.869042	13.869042
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	57,920 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000867	0.024275
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	57,920 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000105	0.027848

Source Emissions | City Hall Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,369 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	7.263914	7.263914
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,369 therm	5 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000685	0.019166
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,369 therm	0.1 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000014	0.003628

Facility Emissions | EV Charging Station - City Hall

Equity share - 100% | Entity controls the facility emissions - Yes
 307 First Street, Woodland, California, 95695, US

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	2.790002	2.779555	0.000174	0.000021	0	0	0	0
Total	2.790002	2.779555	0.000174	0.000021	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	1.118477	1.108031	0.000174	0.000021	0	0	0	0
Total	1.118477	1.108031	0.000174	0.000021	0	0	0	0

Source Emissions | EV Charging Station - City Hall - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	11,608 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	2.779555	2.779555
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	11,608 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000174	0.004865
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	11,608 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000021	0.005581

Source Emissions | EV Charging Station - City Hall - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	11,608 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	1.108031	1.108031
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	11,608 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000174	0.004865
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	11,608 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000021	0.005581

Facility Emissions | Fire Station 1

Equity share - 100% | Entity controls the facility emissions - Yes

101 Court Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	4.59877	4.584384	0.000432	0.000009	0	0	0	0
Total	4.59877	4.584384	0.000432	0.000009	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	14.117533	14.064674	0.000879	0.000107	0	0	0	0
Total	14.117533	14.064674	0.000879	0.000107	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	5.659546	5.606687	0.000879	0.000107	0	0	0	0
Total	5.659546	5.606687	0.000879	0.000107	0	0	0	0

Source Emissions | Fire Station 1 Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	58,737 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	14.064674	14.064674
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	58,737 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000879	0.024618
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	58,737 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000107	0.028241

Source Emissions | Fire Station 1 Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	58,737 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	5.606687	5.606687
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	58,737 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000879	0.024618
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	58,737 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000107	0.028241

Source Emissions | Fire Station 1 Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	864 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	4,584,384	4,584,384
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	864 therm	5 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000432	0.012096
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	864 therm	0.1 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000009	0.00229

Facility Emissions | Fire Station 2

Equity share - 100% | Entity controls the facility emissions - Yes

1619 West Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	4.987323	4.971722	0.000469	0.000009	0	0	0	0
Total	4.987323	4.971722	0.000469	0.000009	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	10.195476	10.157302	0.000635	0.000077	0	0	0	0
Total	10.195476	10.157302	0.000635	0.000077	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	4.087241	4.049067	0.000635	0.000077	0	0	0	0
Total	4.087241	4.049067	0.000635	0.000077	0	0	0	0

Source Emissions | Fire Station 2 Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	42,419 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	10.157302	10.157302
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	42,419 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000635	0.017779
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	42,419 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000077	0.020395

Source Emissions | Fire Station 2 Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	42,419 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	4.049067	4.049067
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	42,419 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000635	0.017779
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	42,419 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000077	0.020395

Source Emissions | Fire Station 2 Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	937 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	4.971722	4.971722
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	937 therm	5 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000469	0.013118
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	937 therm	0.1 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000009	0.002483

Facility Emissions | Fire Station 3

Equity share - 100% | Entity controls the facility emissions - Yes

1550 Springlake Court, Woodland, California, 95776, US

Scope 1 - Direct Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	29,796195	29,702988	0.002799	0.000056	0	0	0	0
Total	29,796195	29,702988	0.002799	0.000056	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	34,969479	34,838546	0.002178	0.000264	0	0	0	0
Total	34,969479	34,838546	0.002178	0.000264	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	14,018835	13,887902	0.002178	0.000264	0	0	0	0
Total	14,018835	13,887902	0.002178	0.000264	0	0	0	0

Source Emissions | Fire Station 3 Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	145,493 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	34,838546	34,838546
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	145,493 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.002178	0.060979
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	145,493 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000264	0.069954

Source Emissions | Fire Station 3 Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	145,493 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	13,887902	13,887902
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	145,493 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.002178	0.060979
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	145,493 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000264	0.069954

Source Emissions | Fire Station 3 Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,598 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	29.702988	29.702988
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,598 therm	5 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.002799	0.078372
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,598 therm	0.1 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000056	0.014835

Facility Emissions | Fleet - Diesel

Equity share - 100% | Entity controls the facility emissions - Yes
655 Pioneer Avenue, Woodland, California, 95695, US

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	399.701153	395.307309	0.023363	0.014112	0	0	0	0
Total	399.701153	395.307309	0.023363	0.014112	0	0	0	0

Source Emissions | Diesel

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Medium and Heavy-Duty Vehicles (Model Years 1960-2011)	Emission Factor	No		All	38,717.66 gal	10.21 kg/gal	2019 Default Emission Factors - Table #2.1	395,307309	395.307309
Mobile Combustion	CH4	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Medium and Heavy-Duty Vehicles (Model Years 1960-2011)	PreCalculated	Yes		All	N/A	N/A	N/A	0.0233663	0.654164
Mobile Combustion	N2O	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Buses	Medium and Heavy-Duty Vehicles (Model Years 1960-2011)	PreCalculated	Yes		All	N/A	N/A	N/A	0.014112	3.73968

Facility Emissions | Fleet - Unleaded

Equity share - 100% | Entity controls the facility emissions - Yes
655 N Pioneer Avenue, Woodland, California, 95776, US

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	748,47104	740,242941	0,043748	0,026427	0	0	0	0
Total	748,47104	740,242941	0,043748	0,026427	0	0	0	0

Source Emissions | Unleaded

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Vans, Pickup Trucks, SUVs (Model Year 1999)	Emission Factor	No		All	84,310.13 gal	8.78 kg/gal	2019 Default Emission Factors - Table #2.1	740,24294 1	740,242941
Mobile Combustion	CH4	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Vans, Pickup Trucks, SUVs (Model Year 1999)	PreCalculated	Yes		All	N/A	N/A	N/A	0.043748	1.224944
Mobile Combustion	N2O	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Vans, Pickup Trucks, SUVs (Model Year 1999)	PreCalculated	Yes		All	N/A	N/A	N/A	0.026427	7.003155

Facility Emissions | Library

Equity share - 100% | Entity controls the facility emissions - Yes

250 First Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	15.643268	15.594334	0.00147	0.000029	0	0	0	0
Total	15.643268	15.594334	0.00147	0.000029	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	11.723391	11.679496	0.00073	0.000088	0	0	0	0
Total	11.723391	11.679496	0.00073	0.000088	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	4.699764	4.655869	0.00073	0.000088	0	0	0	0
Total	4.699764	4.655869	0.00073	0.000088	0	0	0	0

Source Emissions | Library Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	48,776 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	11.679496	11.679496
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	48,776 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.00073	0.020443
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	48,776 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000088	0.023452

Source Emissions | Library Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	48,776 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	4.655869	4.655869
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	48,776 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.00073	0.020443
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	48,776 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000088	0.023452

Source Emissions | Library Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	2,939 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	15.594334	15.594334
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	2,939 therm	5 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.00147	0.041146
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	2,939 therm	0.1 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000029	0.007788

Facility Emissions | Municipal Service Center

Equity share - 100% | Entity controls the facility emissions - Yes

655 North Pioneer Avenue, Woodland, California, 95776, US

Scope 1 - Direct Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	30.714795	30.618758	0.002884	0.000058	0	0	0	0
Total	30.714795	30.618758	0.002884	0.000058	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	13.867808	13.815884	0.000864	0.000105	0	0	0	0
Total	13.867808	13.815884	0.000864	0.000105	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	5.559434	5.50751	0.000864	0.000105	0	0	0	0
Total	5.559434	5.50751	0.000864	0.000105	0	0	0	0

Source Emissions | Municipal Service Center Acetylene Tank

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Fossil Fuel-derived Fuels (gaseous)	All	Unspecified Technology	Emission Factor	Yes		Acetylene	125 scf	0.11 kg/scf	2019 Default Emission Factors - Table #1.1	0.01375	0.01375
Stationary Combustion	CH4	Fossil Fuel-derived Fuels (gaseous)	All	Unspecified Technology	Emission Factor	No		Acetylene	125 scf		2019 Default Emission Factors - Table #1.9	0	0
Stationary Combustion	N2O	Fossil Fuel-derived Fuels (gaseous)	All	Unspecified Technology	Emission Factor	No		Acetylene	125 scf		2019 Default Emission Factors - Table #12.9	0	0

Source Emissions | Municipal Service Center Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	57,698 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	13.815884	13.815884
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	57,698 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000864	0.024182
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	57,698 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000105	0.027742

Source Emissions | Municipal Service Center Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	57,698 kWh	210.44 lb/MMWh	2019 Default Emission Factors - Table #3.8	5.50751	5.50751
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	57,698 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000864	0.024182
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	57,698 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000105	0.027742

Source Emissions | Municipal Service Center Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,768 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	30.605008	30.605008
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,768 therm	5 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.002884	0.080752
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,768 therm	0.1 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000058	0.015285

Facility Emissions | Parks, Cemetery, and Ballfield

Equity share - 100% | Entity controls the facility emissions - Yes

2001 East Street, Woodland, California, 95776, US

Scope 2 - Location Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	68.950392	68.692227	0.004294	0.00052	0	0	0	0
Total	68.950392	68.692227	0.004294	0.00052	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	27.641367	27.383202	0.004294	0.00052	0	0	0	0
Total	27.641367	27.383202	0.004294	0.00052	0	0	0	0

Source Emissions | Parks Misc. Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	286,873 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	68.692227	68.692227
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	286,873 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.004294	0.120234
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	286,873 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.00052	0.137931

Source Emissions | Parks Misc. Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	286,873 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	27.383202	27.383202
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	286,873 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.004294	0.120234
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	286,873 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.00052	0.137931

Facility Emissions | Police Department

Equity share - 100% | Entity controls the facility emissions - Yes

1000 Lincoln Avenue, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	112.898729	112.545566	0.010606	0.000212	0	0	0	0
Total	112.898729	112.545566	0.010606	0.000212	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	67.909669	67.655401	0.004229	0.000513	0	0	0	0
Total	67.909669	67.655401	0.004229	0.000513	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	27.224154	26.969885	0.004229	0.000513	0	0	0	0
Total	27.224154	26.969885	0.004229	0.000513	0	0	0	0

Source Emissions | Police Department Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	282,543 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	26.969885	26.969885
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	282,543 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.004229	0.118419
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	282,543 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000513	0.135849

Source Emissions | Police Department Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	282,543 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	67.655401	67.655401
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	282,543 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.004229	0.118419
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	282,543 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000513	0.135849

Source Emissions | Police Department Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	21,211 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	112.545566	112.545566
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	21,211 therm	5 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.010606	0.296954
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	21,211 therm	0.1 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000212	0.056209

Facility Emissions | Traffic Signals & Lights

Equity share - 100% | Entity controls the facility emissions - Yes
 655 N. Pioneer Ave, Woodland, California, 95776, US

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	403.649404	402.138053	0.025138	0.003047	0	0	0	0
Total	403.649404	402.138053	0.025138	0.003047	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	161.818098	160.306747	0.025138	0.003047	0	0	0	0
Total	161.818098	160.306747	0.025138	0.003047	0	0	0	0

Source Emissions | Traffic Signals & Lights Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	1,679,412 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	402.138053	402.138053
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	1,679,412 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.025138	0.703875
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	1,679,412 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.003047	0.807476

Source Emissions | Traffic Signals & Lights Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	1,679,412 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	160.306747	160.306747
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	1,679,412 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.025138	0.703875
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	1,679,412 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.003047	0.807476

Facility Emissions | Water Pollution Control Facility

Equity share - 100% | Entity controls the facility emissions - Yes

42929 County Road 24, Woodland, California, 95776, US

Scope 1 - Direct Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	10.034359	9.97517	0.001348	0.000081	0	0	0	0
Process	311.1005	0	3.58	0.7957	0	0	0	0
Total	321.134859	9.97517	3.581348	0.795781	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	824.656281	821.56859	0.051358	0.006225	0	0	0	0
Total	824.656281	821.56859	0.051358	0.006225	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	330.594594	327.506903	0.051358	0.006225	0	0	0	0
Total	330.594594	327.506903	0.051358	0.006225	0	0	0	0

Source Emissions | Diesel Fuel

Diesel purchases fueling diesel-powered forklift, diesel pumps, and backup generators at or associated with the WPCF.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	No		Distillate Fuel Oil No. 2	977 gal	10.21 kg/gal	2019 Default Emission Factors - Table #1.1	9.97517	9.97517
Stationary Combustion	CH4	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	No		Distillate Fuel Oil No. 2	977 gal	10 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.001348	0.037751
Stationary Combustion	N2O	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	No		Distillate Fuel Oil No. 2	977 gal	0.6 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000081	0.021437

Source Emissions | Process CH4 Emissions from Wastewater Treatment Ponds

Used equation 10.3 from LGOP V1.1
 Used Population estimates from California Department of Finance E-1 sheet
 $BOD5\ load = 3,406.816\ kg/day ; Fp = 0.994$
 $(3,406.816 \times (1-0.994) \times 0.6 \times 0.8 \times 365.25 \times 10^{-3}) = 3.58 \times GWP\ of\ 28 = 100.24$

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Process	CH4	N/A	All	Unspecified Technology	PreCalculate _d	No		N/A	N/A	N/A	N/A	3.58	100.24

Source Emissions | Process N2O Emissions from Centralized WWTP with nitrification/denitrification

Used equation 10.7 from LGOP V1.1
 Used Population estimates from California Department of Finance E-1 sheet
 $PTotal=60,426$
 $((60,426 \times 1.25) \times 7 \times 0.000001) = 0.5287 \times GWP\ of\ 265 = 140.1\ MTCO2e$

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Process	N2O	N/A	All	Unspecified Technology	PreCalculate _d	No		N/A	N/A	N/A	N/A	0.5287	140.1055

Source Emissions | Process N2O Emissions from Effluent Discharge to Receiving Aquatic Environments

Emissions from effluent discharge to receiving aquatic environments.

Used equation 10.9 from LGOP V1.1

N Load = 93

$(93 \times 0.005 \times 365.25 \times 10^{-3} \times 44/28) = 0.267 \times \text{GWP of } 265 = 70.7$

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Process	N2O	N/A	All	Unspecified Technology	PreCalculate	No		N/A	N/A	N/A	N/A	0.267	70.755

Source Emissions | WPCF Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	3,431,041 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	821.56859	821.56859
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	3,431,041 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.051358	1.438017
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	3,431,041 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.006225	1.649674

Source Emissions | WPCF Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	3,431,041 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	327.506903	327.506903
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	3,431,041 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.051358	1.438017
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	3,431,041 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.006225	1.649674

Facility Emissions | Wells and Stormwater Electricity

Equity share - 100% | Entity controls the facility emissions - Yes

655 N. Pioneer Avenue, Woodland, California, 95695, US

Scope 2 - Location Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	184.292012	183.601983	0.011477	0.001391	0	0	0	0
Total	184.292012	183.601983	0.011477	0.001391	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO ₂ e (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO ₂ e)	PFC (t of CO ₂ e)	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	73.880409	73.190379	0.011477	0.001391	0	0	0	0
Total	73.880409	73.190379	0.011477	0.001391	0	0	0	0

Source Emissions | Wells and Stormwater Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	766,760 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	183,601983	183.601983
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	766,760 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.011477	0.321364
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	766,760 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.001391	0.368665

Source Emissions | Wells and Stormwater Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	766,760 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	73,190379	73.190379
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	766,760 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.011477	0.321364
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	766,760 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.001391	0.368665

Facility Emissions | Woodland Community and Senior Center

Equity share - 100% | Entity controls the facility emissions - Yes

2001 East Street, Woodland, California, 95776, US

Scope 1 - Direct Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Stationary Combustion	23.669825	23.595782	0.002224	0.000044	0	0	0	0
Total	23.669825	23.595782	0.002224	0.000044	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Location Based	35.602084	35.468783	0.002217	0.000269	0	0	0	0
Total	35.602084	35.468783	0.002217	0.000269	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO _{2e} (t)	CO ₂ (t)	CH ₄ (t)	N ₂ O (t)	HFC (t of CO _{2e})	PFC (t of CO _{2e})	NF ₃ (t)	SF ₆ (t)
Purchased Electricity - Market Based	14.272439	14.139137	0.002217	0.000269	0	0	0	0
Total	14.272439	14.139137	0.002217	0.000269	0	0	0	0

Source Emissions | Community/Senior Center Electricity - Location Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Location Based	CO2	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	148,125 kWh	527.9 lb/MWh	2019 Default Emission Factors - Table #3.1	35,468,783	35,468,783
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	148,125 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.002217	0.062082
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2018	Unspecified Technology	Emission Factor	No		WECC California ^a	148,125 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000269	0.07122

Source Emissions | Community/Senior Center Electricity - Market Based

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity - Market Based	CO2	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	148,125 kWh	210.44 lb/MWh	2019 Default Emission Factors - Table #3.8	14,139,137	14,139,137
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	148,125 kWh	33 lb/GWh	2019 Default Emission Factors - Table #3.1	0.002217	0.062082
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2017	System Average	Emission Factor	No		Pacific Gas & Electric	148,125 kWh	4 lb/GWh	2019 Default Emission Factors - Table #3.1	0.000269	0.07122

Source Emissions | Community/Senior Center Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	4,447 therm	53.06 kg/MMBtu	2019 Default Emission Factors - Table #1.1	23,595,782	23,595,782
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	4,447 therm	5 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.002224	0.062258
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	4,447 therm	0.1 g/MMBtu	2019 Default Emission Factors - Table #1.10	0.000044	0.011785