

The City of Woodland**Detail Report - Control (Private)****Transitional Inventory 2016****Description:****Industry:** 92 - Public Administration**Address:** 42929 County Road
Woodland, California US**Contact:**
Reyna Pinon
reyna.schenck@cityofwoodland.org**Website:** www.cityofwoodland.org**Reporting Information**

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

GWP Standard: AR5

Base 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 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	759.976539	756.626178	0.841525	2.508836	0	0	0	0
Mobile Combustion	1,104.753311	1,104.753311	0	0	0	0	0	0
Process	496.313531	0	0	496.313531	0	0	0	0
Total	2,361.043382	1,861.379489	0.841525	498.822367	0	0	0	0
NetTotal	2,361.043382	1,861.379489	0.841525	498.822367	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	2,866.606891	2,856.625282	4.656209	5.325401	0	0	0	0
Total	2,866.606891	2,856.625282	4.656209	5.325401	0	0	0	0
NetTotal	2,866.606891	2,856.625282	4.656209	5.325401	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	2,042.224826	2,032.243216	4.656209	5.325401	0	0	0	0
Total	2,042.224826	2,032.243216	4.656209	5.325401	0	0	0	0
NetTotal	2,042.224826	2,032.243216	4.656209	5.325401	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	759.976539	756.626178	0.030054	0.009467	0	0	0	0
Mobile Combustion	1,104.753311	1,104.753311	0	0	0	0	0	0
Process	496.313531	0	0	1.872881	0	0	0	0
Total	2,361.043382	1,861.379489	0.030054	1.882349	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	2,866.606891	2,856.625282	0.166293	0.020096	0	0	0	0
Total	2,866.606891	2,856.625282	0.166293	0.020096	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	2,042.224826	2,032.243216	0.166293	0.020096	0	0	0	0
Total	2,042.224826	2,032.243216	0.166293	0.020096	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	0.31626	5,227.650273	0.00604975435374875%
Market Based	0.31626	4,403.268208	0.00718239237530237%

*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	0.31626	0.31626	0	0	0	0	0	0
Total	0.31626	0.31626	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 2016" and "Backup Generator Calcs 2016"

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	PreCalculated	Yes		Distillate Fuel Oil No. 2	N/A	N/A	N/A	0.31626	0.31626
Stationary Combustion	CH ₄	Petroleum Products	Commercial	Unspecified Technology	Emission Factor	No		Distillate Fuel Oil No. 2	0	10 g/MMBtu	2017 Default Emission Factors - Table #12.9	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	2017 Default Emission Factors - Table #12.9	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	536.031162	533.380344	0.009047	0.009047	0	0	0	0
Total	536.031162	533.380344	0.009047	0.009047	0	0	0	0

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)	100,524 therm	53.06 kg/MMBtu	2017 Default Emission Factors - Table #12.1	533.380344	533.380344
Stationary Combustion	CH4	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	100,524 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.8	0.009047	0.25332
Stationary Combustion	N2O	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	100,524 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.8	0.009047	2.397497

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 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	13.902762	13.859272	0.001306	0.000026	0	0	0	0
Total	13.902762	13.859272	0.001306	0.000026	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	19.632863	19.564501	0.001139	0.000138	0	0	0	0
Total	19.632863	19.564501	0.001139	0.000138	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	13.986822	13.91846	0.001139	0.000138	0	0	0	0
Total	13.986822	13.91846	0.001139	0.000138	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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	75,857 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	13.91846	13.91846
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	75,857 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.001139	0.03189
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	75,857 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000138	0.036473

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	2016	Unspecified Technology	Emission Factor	No		WECC California	75,857 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	19.564501	19.564501
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	75,857 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.001139	0.03189
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	75,857 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000138	0.036473

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)	2,612 therm	53.06 kg/MMBtu	2017 Default Emission Factors - Table #12.1	13.859272	13.859272
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	2,612 therm	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.001306	0.036568
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	2,612 therm	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.000026	0.006922

Facility Emissions | City Hall Annex Building

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

520 Court 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	0.375886	0.37471	0.000035	0.000001	0	0	0	0
Total	0.375886	0.37471	0.000035	0.000001	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	3.02269	3.012165	0.000175	0.000021	0	0	0	0
Total	3.02269	3.012165	0.000175	0.000021	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	2.153422	2.142896	0.000175	0.000021	0	0	0	0
Total	2.153422	2.142896	0.000175	0.000021	0	0	0	0

Source Emissions | City Hall Annex Building 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)	70.62 therm	53.06 kg/MMBtu	2017 Default Emission Factors - Table #12.1	0.37471	0.37471
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	70.62 therm	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.000035	0.000989
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	70.62 therm	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.000001	0.000187

Source Emissions | City Hall Annex 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	2016	Unspecified Technology	Emission Factor	No		WECC California	11,679 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	3.012165	3.012165
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	11,679 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000175	0.00491
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	11,679 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000021	0.005615

Source Emissions | City Hall Annex 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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	11,679 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	2.142896	2.142896
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	11,679 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000175	0.00491
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	11,679 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000021	0.005615

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	2.364008	2.355777	0.000137	0.000017	0	0	0	0
Total	2.364008	2.355777	0.000137	0.000017	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	1.684164	1.675933	0.000137	0.000017	0	0	0	0
Total	1.684164	1.675933	0.000137	0.000017	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	2016	Unspecified Technology	Emission Factor	No		WECC California	9,134 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	2.355777	2.355777
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	9,134 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000137	0.00384
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	9,134 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000017	0.004392

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	9,134 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	1.675933	1.675933
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	9,134 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000137	0.00384
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	9,134 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000017	0.004392

Facility Emissions | Fire Station 1

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

532 Court 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	7.446387	7.423094	0.0007	0.000014	0	0	0	0
Total	7.446387	7.423094	0.0007	0.000014	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	18.087484	18.024503	0.001049	0.000127	0	0	0	0
Total	18.087484	18.024503	0.001049	0.000127	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	12.885865	12.822884	0.001049	0.000127	0	0	0	0
Total	12.885865	12.822884	0.001049	0.000127	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	2016	Unspecified Technology	Emission Factor	No		WECC California	69,886 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	18.024503	18.024503
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	69,886 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.001049	0.029379
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	69,886 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000127	0.033602

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	69,886 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	12.822884	12.822884
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	69,886 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.001049	0.029379
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	69,886 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000127	0.033602

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)	1,399 therm	53.06 kg/MMBtu	2017 Default Emission Factors - Table #12.1	7.423094	7.423094
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,399 therm	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.0007	0.019586
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,399 therm	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.000014	0.003707

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	33.931894	33.82575	0.003188	0.000064	0	0	0	0
Total	33.931894	33.82575	0.003188	0.000064	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	39.687335	39.549142	0.002302	0.000278	0	0	0	0
Total	39.687335	39.549142	0.002302	0.000278	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	28.274006	28.135813	0.002302	0.000278	0	0	0	0
Total	28.274006	28.135813	0.002302	0.000278	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	2016	Unspecified Technology	Emission Factor	No		WECC California	153,343 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	39.549142	39.549142
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	153,343 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.002302	0.064464
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	153,343 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000278	0.073729

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	153,343 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	28.135813	28.135813
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	153,343 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.002302	0.064464
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	153,343 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000278	0.073729

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)	6,375 therm	53.06 kg/MMBtu	2017 Default Emission Factors - Table #12.1	33.82575	33.82575
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	6,375 therm	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.003188	0.08925
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	6,375 therm	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.000064	0.016894

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 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	7.643325	7.619416	0.000718	0.000014	0	0	0	0
Total	7.643325	7.619416	0.000718	0.000014	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	11.156959	11.118111	0.000647	0.000078	0	0	0	0
Total	11.156959	11.118111	0.000647	0.000078	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	7.948428	7.909579	0.000647	0.000078	0	0	0	0
Total	7.948428	7.909579	0.000647	0.000078	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	2016	Unspecified Technology	Emission Factor	No		WECC California	43,108 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	11.118111	11.118111
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	43,108 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000647	0.018122
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	43,108 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000078	0.020727

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	43,108 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	7.909579	7.909579
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	43,108 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000647	0.018122
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	43,108 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000078	0.020727

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)	1,436 therm	53.06 kg/MMBtu	2017 Default Emission Factors - Table #12.1	7.619416	7.619416
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,436 therm	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.000718	0.020104
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,436 therm	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.000014	0.003805

Facility Emissions | Fleet

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	1,104.753311	1,104.753311	0	0	0	0	0	0
Total	1,104.753311	1,104.753311	0	0	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 Busses	Medium and Heavy-Duty Vehicles (Model Years 1960-2011)	Emission Factor	No		All	38,468.48 gal	10.21 kg/gal	2017 Default Emission Factors - Table #13.1	392.763181	392.763181
Mobile Combustion	CH4	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Busses	Medium and Heavy-Duty Vehicles (Model Years 1960-2011)	Emission Factor	No		All	0	0.0051 g/mi	2017 Default Emission Factors - Table #13.5	0	0
Mobile Combustion	N2O	Diesel Fuel	Diesel Medium and Heavy-Duty Trucks and Busses	Medium and Heavy-Duty Vehicles (Model Years 1960-2011)	Emission Factor	No		All	0	0.0048 g/mi	2017 Default Emission Factors - Table #13.5	0	0

Source Emissions | Gasoline

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 Passenger Cars	Cars (Model Years 1984-1993)	Emission Factor	No		All	81,092.27 gal	8.78 kg/gal	2017 Default Emission Factors - Table #13.1	711.990131	711.990131
Mobile Combustion	CH4	Motor Gasoline	Gasoline Passenger Cars	Cars (Model Years 1984-1993)	Not Reporting	No		All	0	0.0704 g/mi	2017 Default Emission Factors - Table #13.5	0	0
Mobile Combustion	N2O	Motor Gasoline	Gasoline Passenger Cars	Cars (Model Years 1984-1993)	Not Reporting	No		All	0	0.0647 g/mi	2017 Default Emission Factors - Table #13.5	0	0

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	14.930033	14.88333	0.001403	0.000028	0	0	0	0
Total	14.930033	14.88333	0.001403	0.000028	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	13.443582	13.396771	0.00078	0.000094	0	0	0	0
Total	13.443582	13.396771	0.00078	0.000094	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	9.577462	9.530651	0.00078	0.000094	0	0	0	0
Total	9.577462	9.530651	0.00078	0.000094	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	2016	Unspecified Technology	Emission Factor	No		WECC California	51,943 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	13.396771	13.396771
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	51,943 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.00078	0.021836
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	51,943 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000094	0.024975

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	51,943 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	9.530651	9.530651
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	51,943 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.00078	0.021836
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	51,943 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000094	0.024975

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)	2,805 therm	53.06 kg/MMBtu	2017 Default Emission Factors - Table #12.1	14.88333	14.88333
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	2,805 therm	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.001403	0.03927
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	2,805 therm	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.000028	0.007433

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 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	31.813479	31.713962	0.002989	0.00006	0	0	0	0
Total	31.813479	31.713962	0.002989	0.00006	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	29.18181	29.080198	0.001693	0.000205	0	0	0	0
Total	29.18181	29.080198	0.001693	0.000205	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	20.789672	20.68806	0.001693	0.000205	0	0	0	0
Total	20.789672	20.68806	0.001693	0.000205	0	0	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	2016	Unspecified Technology	Emission Factor	No		WECC California	112,752 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	29.080198	29.080198
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	112,752 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.001693	0.0474
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	112,752 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000205	0.054212

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	112,752 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	20.68806	20.68806
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	112,752 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.001693	0.0474
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	112,752 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000205	0.054212

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)	5,977 therm	53.06 kg/MMBtu	2017 Default Emission Factors - Table #12.1	31.713962	31.713962
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,977 therm	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.002989	0.083678
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,977 therm	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.00006	0.015839

Facility Emissions | Parks, Cemetary, Pools, 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 CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based	78.528347	78.254909	0.004555	0.000551	0	0	0	0
Total	78.528347	78.254909	0.004555	0.000551	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	55.945076	55.671638	0.004555	0.000551	0	0	0	0
Total	55.945076	55.671638	0.004555	0.000551	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	2016	Unspecified Technology	Emission Factor	No		WECC California	303,416 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	78.254909	78.254909
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	303,416 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.004555	0.127553
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	303,416 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000551	0.145885

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	303,416 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	55.671638	55.671638
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	303,416 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.004555	0.127553
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	303,416 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000551	0.145885

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 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	92.576851	92.287258	0.008697	0.000174	0	0	0	0
Total	92.576851	92.287258	0.008697	0.000174	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	116.249212	115.844429	0.006744	0.000815	0	0	0	0
Total	116.249212	115.844429	0.006744	0.000815	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	82.818132	82.413348	0.006744	0.000815	0	0	0	0
Total	82.818132	82.413348	0.006744	0.000815	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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	449,161 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	82.413348	82.413348
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	449,161 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.006744	0.188823
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	449,161 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000815	0.21596

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	2016	Unspecified Technology	Emission Factor	No		WECC California	449,161 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	115.844429	115.844429
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	449,161 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.006744	0.188823
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	449,161 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.000815	0.21596

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)	17,393 therm	53.06 kg/MMBtu	2017 Default Emission Factors - Table #12.1	92.287258	92.287258
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	17,393 therm	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.008697	0.243502
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	17,393 therm	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.000174	0.046091

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	452.346272	450.771189	0.026241	0.003171	0	0	0	0
Total	452.346272	450.771189	0.026241	0.003171	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	322.260017	320.684934	0.026241	0.003171	0	0	0	0
Total	322.260017	320.684934	0.026241	0.003171	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	2016	Unspecified Technology	Emission Factor	No		WECC California	1,747,765 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	450.771189	450.771189
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	1,747,765 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.026241	0.734743
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	1,747,765 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.003171	0.84034

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	1,747,765 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	320.684934	320.684934
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	1,747,765 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.026241	0.734743
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	1,747,765 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.003171	0.84034

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 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)
Process	496.313531	0	0	1.872881	0	0	0	0
Total	496.313531	0	0	1.872881	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	1,392.850151	1,388.000206	0.0808	0.009764	0	0	0	0
Total	1,392.850151	1,388.000206	0.0808	0.009764	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	992.292722	987.442777	0.0808	0.009764	0	0	0	0
Total	992.292722	987.442777	0.0808	0.009764	0	0	0	0

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=58,615

$((58,615 \times 1.25) \times 7 \times 0.000001) = 0.5129 \times \text{GWP of } 265 = 135.9135 \text{ MTCO}_2\text{e}$

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)
Process	N ₂ O	N/A	All	Unspecified Technology	PreCalculated	No		N/A	N/A	N/A	N/A	0.512881	135.913531

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

Emissions from effluent discharge to receiving aquatic environments.

Used equation 10.10 from LGOP V1.1

Used Population estimates from California Department of Finance E-1 sheet

PTotal = 58,615

$(58,615 \times 1.25) \text{ persons} \times (0.026 \text{ kg N/person/day} - 0.05 \text{ kg N/kg BOD5} \times 0.09 \text{ kg BOD5/person/day}) \times 0.005 \text{ kg N2O-N/kg sewage-N produced} \times 44/28 \times (1 - 0.7) \times 365.25 \text{ day/year} \times 10^{-3} \text{ MT/kg} = 1.36 \times \text{GWP of 265} = 360.4 \text{ MTCO}_2\text{e}$

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	PreCalculated	No		N/A	N/A	N/A	N/A	1.36	360.4

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	2016	Unspecified Technology	Emission Factor	No		WECC California	5,381,662 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	1,388.000206	1,388.000206
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	5,381,662 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.0808	2.262396
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	5,381,662 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.009764	2.587549

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	5,381,662 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	987.442777	987.442777
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	5,381,662 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.0808	2.262396
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	5,381,662 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.009764	2.587549

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	574.56115	572.560511	0.033331	0.004028	0	0	0	0
Total	574.56115	572.560511	0.033331	0.004028	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	409.328202	407.327563	0.033331	0.004028	0	0	0	0
Total	409.328202	407.327563	0.033331	0.004028	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	2016	Unspecified Technology	Emission Factor	No		WECC California	2,219,976 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	572.560511	572.560511
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	2,219,976 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.033331	0.933256
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	2,219,976 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.004028	1.067383

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	2,219,976 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	407.327563	407.327563
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	2,219,976 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.033331	0.933256
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	2,219,976 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.004028	1.067383

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 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	21.0085	20.942782	0.001974	0.000039	0	0	0	0
Total	21.0085	20.942782	0.001974	0.000039	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	115.495028	115.092871	0.0067	0.00081	0	0	0	0
Total	115.495028	115.092871	0.0067	0.00081	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	82.280836	81.878679	0.0067	0.00081	0	0	0	0
Total	82.280836	81.878679	0.0067	0.00081	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	2016	Unspecified Technology	Emission Factor	No		WECC California	446,247 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	115.092871	115.092871
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	446,247 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.0067	0.187598
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	446,247 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.00081	0.214559

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	2015	System Average	Emission Factor	No		Pacific Gas & Electric	446,247 kWh	404.51 lb/MWh	2017 Default Emission Factors - Table #14.8	81.878679	81.878679
Purchased Electricity - Market Based	CH4	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	446,247 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.0067	0.187598
Purchased Electricity - Market Based	N2O	Utility-Specific Rate	2015	System Average	Emission Factor	No		Pacific Gas & Electric	446,247 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.00081	0.214559

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)	3,947 therm	53.06 kg/MMBtu	2017 Default Emission Factors - Table #12.1	20.942782	20.942782
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	3,947 therm	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.001974	0.055258
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	3,947 therm	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.000039	0.01046