

University of California, San Diego

Detail Report - Control (Private)

Complete Inventory 2016

Description:

Industry: 61 - Educational Services

Address: 9500 Gilman Drive
#0089
La Jolla, California US

Contact: Sam Petersen
sjpetersen@ucsd.edu

Website:

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: Verification in Progress

Verification Information

Verification Body: Ruby Canyon Engineering Inc.

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	166,217.984528	165,204.19587	271.37667	742.411988	0	0	0	0
Mobile Combustion	3,718.647841	3,608.159861	31.327574	79.160406	0	0	0	0
Fugitive	1,557.59721	65.16536	22.3566	85.3406	1,279.20649	0	0	105.52816
Total	171,494.229579	168,877.521091	325.060844	906.912994	1,279.20649	0	0	105.52816
NetTotal	171,494.229579	168,877.521091	325.060844	906.912994	1,279.20649	0	0	105.52816

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	29,274.830281	29,172.894462	47.550894	54.384925	0	0	0	0
Purchased Heating - Location Based	1,989.874715	1,983.649717	5.234233	0.990766	0	0	0	0
Total	31,264.704996	31,156.544179	52.785128	55.37569	0	0	0	0
NetTotal	31,264.704996	31,156.544179	52.785128	55.37569	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	29,274.830281	29,172.894462	47.550894	54.384925	0	0	0	0
Purchased Heating - Market Based	1,989.874715	1,983.649717	5.234233	0.990766	0	0	0	0
Total	31,264.704996	31,156.544179	52.785128	55.37569	0	0	0	0
NetTotal	31,264.704996	31,156.544179	52.785128	55.37569	0	0	0	0

Biogenic - 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)
Mobile Biomass Combustion	119.593719	119.593719	0	0	0	0	0	0
Total	119.593719	119.593719	0	0	0	0	0	0
NetTotal	119.593719	119.593719	0	0	0	0	0	0

Optional - Optional 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)
Scope 3	75,074	75,074	0	0	0	0	0	0
Total	75,074	75,074	0	0	0	0	0	0
NetTotal	75,074	75,074	0	0	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	166,217.984528	165,204.19587	9.692024	2.801555	0	0	0	0
Mobile Combustion	3,718.647841	3,608.159861	1.118842	0.298719	0	0	0	0
Fugitive	1,557.59721	65.16536	0.79845	0.32204	1,279.20649	0	0	0.004491
Total	171,494.229579	168,877.521091	11.609316	3.422313	1,279.20649	0	0	0.004491

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	29,274.830281	29,172.894462	1.698246	0.205226	0	0	0	0
Purchased Heating - Location Based	1,989.874715	1,983.649717	0.186937	0.003739	0	0	0	0
Total	31,264.704996	31,156.544179	1.885183	0.208965	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	29,274.830281	29,172.894462	1.698246	0.205226	0	0	0	0
Purchased Heating - Market Based	1,989.874715	1,983.649717	0.186937	0.003739	0	0	0	0
Total	31,264.704996	31,156.544179	1.885183	0.208965	0	0	0	0

Biogenic - 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)
Mobile Biomass Combustion	119.593719	119.593719	0	0	0	0	0	0
Total	119.593719	119.593719	0	0	0	0	0	0

Optional - Optional 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)
Scope 3	75,074	75,074	0	0	0	0	0	0
Total	75,074	75,074	0	0	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	2,291.267736	202,878.528294	1.12937911903093%
Market Based	2,291.267736	202,878.528294	1.12937911903093%

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

Facility Emissions | UCSD Aggregate Sources

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

9500 Gilman Dr, San Diego, California, 92093-0089, 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	1,183.360233	1,177.507833	0.019974	0.019974	0	0	0	0
Total	1,183.360233	1,177.507833	0.019974	0.019974	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	2,134.5149	2,127.082457	0.123824	0.014964	0	0	0	0
Purchased Heating - Location Based	1,989.874715	1,983.649717	0.186937	0.003739	0	0	0	0
Total	4,124.389615	4,110.732173	0.310761	0.018702	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	2,134.5149	2,127.082457	0.123824	0.014964	0	0	0	0
Purchased Heating - Market Based	1,989.874715	1,983.649717	0.186937	0.003739	0	0	0	0
Total	4,124.389615	4,110.732173	0.310761	0.018702	0	0	0	0

Source Emissions | Leased Space - Location Based

From EIA average for commercial space 37.3 scf per sq. ft, 954,612 sq. ft. of of leased ASF with no natural gas bill.

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 Heating - Location Based	CO2	Fuel-Specific Factor	1,025 - 1,050 Btu / SCF	Commercial	Emission Factor	Yes	Heat Content: 1050 Btu/scf;	Natural Gas	35,607,027.6 scf	53.0567 kg/MMBtu	2017 Default Emission Factors - Table #12.1	1,983.6497	1,983.6497
Purchased Heating - Location Based	CH4	Fuel-Specific Factor	1,025 - 1,050 Btu / SCF	Commercial	Emission Factor	Yes	Heat Content: 1050 Btu/scf;	Natural Gas	35,607,027.6 scf	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.186937	5.234233
Purchased Heating - Location Based	N2O	Fuel-Specific Factor	1,025 - 1,050 Btu / SCF	Commercial	Emission Factor	Yes	Heat Content: 1050 Btu/scf;	Natural Gas	35,607,027.6 scf	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.003739	0.990766

Source Emissions | Leased Space - Market Based

From EIA average for commercial space 37.3 scf per sq. ft, 954,612 sq. ft. of of leased ASF with no natural gas bill.

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 Heating - Market Based	CO2	Fuel-Specific Factor	1,025 - 1,050 Btu / SCF	Commercial	Emission Factor	Yes	Heat Content: 1050 Btu/scf;	Natural Gas	35,607,027.6 scf	53.0567 kg/MMBtu	2017 Default Emission Factors - Table #12.1	1,983.6497	1,983.6497
Purchased Heating - Market Based	CH4	Fuel-Specific Factor	1,025 - 1,050 Btu / SCF	Commercial	Emission Factor	Yes	Heat Content: 1050 Btu/scf;	Natural Gas	35,607,027.6 scf	5 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.186937	5.234233
Purchased Heating - Market Based	N2O	Fuel-Specific Factor	1,025 - 1,050 Btu / SCF	Commercial	Emission Factor	Yes	Heat Content: 1050 Btu/scf;	Natural Gas	35,607,027.6 scf	0.1 g/MMBtu	2017 Default Emission Factors - Table #12.9	0.003739	0.990766

Source Emissions | Natural Gas Use

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	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	221,934 therm	53.0567 kg/MMBtu	2017 Default Emission Factors - Table #12.1	1,177.507833	1,177.507833
Stationary Combustion	CH4	Natural Gas	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	221,934 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	0.019974	0.559274
Stationary Combustion	N2O	Natural Gas	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	221,934 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	0.019974	5.293126

Source Emissions | Purchased 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	8,247,289 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	2,127.082457	2,127.082457
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	8,247,289 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.123824	3.467077
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	8,247,289 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.014964	3.965367

Source Emissions | Purchased 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	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	8,247,289 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	2,127.082457	2,127.082457
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	8,247,289 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.123824	3.467077
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	8,247,289 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.014964	3.965367

Facility Emissions | UCSD Main Campus

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

9500 Gilman Dr, La Jolla, California, 92093-0089, 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)
Stationary Combustion	155,654.580678	154,692.999124	9.513229	2.623438	0	0	0	0
Mobile Combustion	3,718.647841	3,608.159861	1.118842	0.298719	0	0	0	0
Fugitive	1,535.73007	64.69432	0.79845	0.2413	1,279.20649	0	0	0.004491
Total	160,908.958589	158,365.853305	11.430521	3.163457	1,279.20649	0	0	0.004491

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	17,391.307703	17,330.750659	1.008878	0.121919	0	0	0	0
Total	17,391.307703	17,330.750659	1.008878	0.121919	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	17,391.307703	17,330.750659	1.008878	0.121919	0	0	0	0
Total	17,391.307703	17,330.750659	1.008878	0.121919	0	0	0	0

Biogenic - 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)
Mobile Biomass Combustion	119.593719	119.593719	0	0	0	0	0	0
Total	119.593719	119.593719	0	0	0	0	0	0

Optional - Optional 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)
Scope 3	75,074	75,074	0	0	0	0	0	0
Total	75,074	75,074	0	0	0	0	0	0

Source Emissions | Compressed Gas Emission

Based on historical averages of compressed gas purchases

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)
Fugitive	CO ₂	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				7.86369	7.86369
Fugitive	CH ₄	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				0.79845	22.3566

Source Emissions | CUP Boilers

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	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,736,306 therm	53.0567 kg/MMBtu	2017 Default Emission Factors - Table #12.1	9,212.260925	9,212.260925
Stationary Combustion	CH4	Natural Gas	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,736,306 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	0.156268	4.375491
Stationary Combustion	N2O	Natural Gas	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,736,306 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	0.156268	41.410898

Source Emissions | Cup COGEN

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	Industrial	Turbines >3MW	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	23,749,868 therm	53.0567 kg/MMBtu	2017 Default Emission Factors - Table #12.1	126,008.883777	126,008.883777
Stationary Combustion	CH4	Natural Gas	Industrial	Turbines >3MW	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	23,749,868 therm	3.8 g/MMBtu	2017 Default Emission Factors - Table #12.7	9.02495	252.698596
Stationary Combustion	N2O	Natural Gas	Industrial	Turbines >3MW	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	23,749,868 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	2.137488	566.434352

Source Emissions | Dry Ice

Total sublimation of dry ice to gas assumed, CO2e calculated of estimated tons of dry ice purchased.

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)
Fugitive	CO2	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				55.42	55.42

Source Emissions | Emergency Generators

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	Industrial	Unspecified Technology	Emission Factor	No	Heat Content: 0.14 MMBtu/gal;	Distillate Fuel Oil No. 2	6,290 gal	10.3544 kg/gal	2017 Default Emission Factors - Table #12.1	65.129176	65.129176
Stationary Combustion	CH4	Petroleum Products	Industrial	Unspecified Technology	Emission Factor	No	Heat Content: 0.14 MMBtu/gal;	Distillate Fuel Oil No. 2	6,290 gal	0.003 kg/MMBtu	2017 Default Emission Factors - Table #12.9	0.002642	0.07397
Stationary Combustion	N2O	Petroleum Products	Industrial	Unspecified Technology	Emission Factor	No	Heat Content: 0.14 MMBtu/gal;	Distillate Fuel Oil No. 2	6,290 gal	0.0006 kg/MMBtu	2017 Default Emission Factors - Table #12.9	0.000528	0.140015

Source Emissions | Emissions from Ammunition

33 Officers, assuming 100 bullets per year.

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)
Fugitive	CO2	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				0.00003	0.00003

Source Emissions | Fuel Cell Purchased 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	15,192,209 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	3,918.26711	3,918.26711
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	15,192,209 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.228095	6.386651
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	15,192,209 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.027564	7.304543

Source Emissions | Fuel Cell Purchased 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	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	15,192,209 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	3,918.26711	3,918.26711
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	15,192,209 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.228095	6.386651
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	15,192,209 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.027564	7.304543

Source Emissions | Main Campus Aggregated Sources

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	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,698,687 therm	53.0567 kg/MMBtu	2017 Default Emission Factors - Table #12.1	9,012.66705	9,012.66705
Stationary Combustion	CH4	Natural Gas	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,698,687 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	0.152882	4.280691
Stationary Combustion	N2O	Natural Gas	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,698,687 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	0.152882	40.513685

Source Emissions | Mobile Bio-Diesel Fuel

estimated 8 mpg, 12655.42 gallons of B100

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 Biomass Combustion - Biomass	CO2	Biofuels	Diesel Medium and Heavy-Duty Trucks and Busses	Medium and Heavy-Duty Vehicles (Model Years 1960-2011)	Emission Factor	No	Heat Content: 5.38 MMBtu/bbl;	Biodiesel (100%)	12,655.42 gal	9.45 kg/gal	2017 Default Emission Factors - Table #13.1	119.593719	119.593719
Mobile Combustion	CH4	Biofuels	Diesel Medium and Heavy-Duty Trucks and Busses	Medium and Heavy-Duty Vehicles (Model Years 1960-2011)	Emission Factor	No	Heat Content: 5.38 MMBtu/bbl;	Biodiesel (100%)	101,243.36 mi	0.0051 g/mi		0.000516	0.014458
Mobile Combustion	N2O	Biofuels	Diesel Medium and Heavy-Duty Trucks and Busses	Medium and Heavy-Duty Vehicles (Model Years 1960-2011)	Emission Factor	No	Heat Content: 5.38 MMBtu/bbl;	Biodiesel (100%)	101,243.36 mi	0.0048 g/mi		0.000486	0.128782

Source Emissions | Mobile Fleet - CNG

Estimated 4mpg - 6/29/17 previous years data.

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	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	126,734.78 GGE	0.05444 kg/scf	2017 Default Emission Factors - Table #13.1	873.952245	873.952245
Mobile Combustion	CH4	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	506,939.12 mi	1.966 g/mi	2017 Default Emission Factors - Table #13.6	0.996642	27.905985
Mobile Combustion	N2O	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	506,939.12 mi	0.175 g/mi	2017 Default Emission Factors - Table #13.6	0.088714	23.509302

Source Emissions | Mobile Fleet - Diesel

estimated 8 mpg

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	Heat Content: 5.8 MMBtu/bbl;	All	69,174.15 gal	10.21 kg/gal	2017 Default Emission Factors - Table #13.1	706.268072	706.268072
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	Heat Content: 5.8 MMBtu/bbl;	All	553,393.2 mi	0.0051 g/mi	2017 Default Emission Factors - Table #13.5	0.002822	0.079025
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	Heat Content: 5.8 MMBtu/bbl;	All	553,393.2 mi	0.0048 g/mi	2017 Default Emission Factors - Table #13.5	0.002656	0.703916

Source Emissions | Mobile Fleet - Unleaded

estimated 15mpg

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 2000)	Emission Factor	No	Heat Content: 5.25 MMBtu/bbl;	All	219,411.91 gal	8.78 kg/gal	2017 Default Emission Factors - Table #13.1	1,926.43657	1,926.43657
Mobile Combustion	CH4	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Vans, Pickup Trucks, SUVs (Model Year 2000)	Emission Factor	No	Heat Content: 5.25 MMBtu/bbl;	All	3,291,178.65 mi	0.0346 g/mi	2017 Default Emission Factors - Table #13.5	0.113875	3.188494
Mobile Combustion	N2O	Motor Gasoline	Gasoline Light Trucks (Vans, Pickup Trucks, SUVs)	Vans, Pickup Trucks, SUVs (Model Year 2000)	Emission Factor	No	Heat Content: 5.25 MMBtu/bbl;	All	3,291,178.65 mi	0.0621 g/mi	2017 Default Emission Factors - Table #13.5	0.204382	54.161281

Source Emissions | Nitrous Oxide

Based on historical averages of annual compressed gas cylinder purchases.

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)
Fugitive	N2O	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				0.2413	63.9445

Source Emissions | Propane devices.

Estimated 200 5 gallon propane tanks a year

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	Industrial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.09 MMBtu/gal;	Propane (Liquid)	1,000 gal	5.6583 kg/gal	2017 Default Emission Factors - Table #12.1	5.6583	5.6583
Stationary Combustion	CH4	Petroleum Products	Industrial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.09 MMBtu/gal;	Propane (Liquid)	1,000 gal	0.003 kg/MMBtu	2017 Default Emission Factors - Table #12.9	0.00027	0.00756
Stationary Combustion	N2O	Petroleum Products	Industrial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.09 MMBtu/gal;	Propane (Liquid)	1,000 gal	0.0006 kg/MMBtu	2017 Default Emission Factors - Table #12.9	0.000054	0.01431

Source Emissions | Purchased 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	52,003,921 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	13,412.483548	13,412.483548
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	52,003,921 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.780783	21.861924
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	52,003,921 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.094354	25.003926

Source Emissions | Purchased 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	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	52,003,921 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	13,412.483548	13,412.483548
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	52,003,921 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.780783	21.861924
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	52,003,921 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.094354	25.003926

Source Emissions | Refrigerant

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)
Fugitive	HFC-134a	N/A	All	Unspecified Technology	PreCalculated	No		N/A				0.9305	1,209.65
Fugitive	R-404A	N/A	All	Unspecified Technology	PreCalculated	No		N/A				0.009	35.487
Fugitive	R-407C	N/A	All	Unspecified Technology	PreCalculated	No		N/A				0.0013	2.1112
Fugitive	R-410A	N/A	All	Unspecified Technology	PreCalculated	No		N/A				0.01435	27.6094
Fugitive	R-416A	N/A	All	Unspecified Technology	PreCalculated	No		N/A				0.00567	4.34889

Source Emissions | SF6 Emissions

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)
Fugitive	SF6	N/A	All	Unspecified Technology	PreCalculated	No		N/A				0.004491	105.52816

Source Emissions | Small Marine Craft

Estimated fuel quantity based on information for Scripps Institute of Oceanography staff.

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	Non-Highway	Ships and Boats	Emission Factor	Yes	Heat Content: 5.25 MMBtu/bbl;	All	5,000 gal	8.78 kg/gal	2017 Default Emission Factors - Table #13.1	43.9	43.9
Mobile Combustion	CH4	Motor Gasoline	Non-Highway	Ships and Boats	Emission Factor	Yes	Heat Content: 5.25 MMBtu/bbl;	All	5,000 gal	0.644 g/gal	2017 Default Emission Factors - Table #13.7	0.00322	0.09016
Mobile Combustion	N2O	Motor Gasoline	Non-Highway	Ships and Boats	Emission Factor	Yes	Heat Content: 5.25 MMBtu/bbl;	All	5,000 gal	0.224 g/gal	2017 Default Emission Factors - Table #13.7	0.00112	0.2968

Source Emissions | UC Medical Center - La Jolla

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	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,957,982 therm	53.0567 kg/MMBtu	2017 Default Emission Factors - Table #12.1	10,388.399 897	10,388.399 897
Stationary Combustion	CH4	Natural Gas	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,957,982 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	0.176218	4.934115
Stationary Combustion	N2O	Natural Gas	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,957,982 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	0.176218	46.697871

Source Emissions | UCSD - CNG Fleet Voyager Purchases

estimated 4 mpg

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	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	56.74 GGE	0.05444 kg/scf	2017 Default Emission Factors - Table #13.1	0.391274	0.391274
Mobile Combustion	CH4	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	226.96 mi	1.966 g/mi	2017 Default Emission Factors - Table #13.6	0.000446	0.012494
Mobile Combustion	N2O	Alternative Fuels	Buses	Unspecified Technology	Emission Factor	No	Heat Content: 1027 Btu/scf;	Compressed Natural Gas (CNG)	226.96 mi	0.175 g/mi	2017 Default Emission Factors - Table #13.6	0.00004	0.010525

Source Emissions | UCSD Business Air Travel

30,701,630 passenger air miles traveled.

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)
Scope 3 (Optional)	CO2	N/A	All	Unspecified Technology	PreCalculated	No		N/A				15,123	15,123

Source Emissions | UCSD Commuting Emissions

UC San Diego and UCOP transportation work groups calculate emissions.

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)
Scope 3 (Optional)	CO2	N/A	All	Unspecified Technology	PreCalculated	No		N/A				59,951	59,951

Source Emissions | UCSD Mobile Lift Trucks

Estimated fuel use

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	Alternative Fuels	All	Unspecified Technology	Emission Factor	Yes	Heat Content: 3.822 MMBtu/bbl;	Propane (Liquid)	10,000 gal	5.72117 kg/gal	2017 Default Emission Factors - Table #13.1	57.2117	57.2117
Mobile Combustion	CH4	Alternative Fuels	All	Unspecified Technology	Emission Factor	Yes	Heat Content: 3.822 MMBtu/bbl;	Propane (Liquid)	10,000 gal	0.132 g/gal	Custom Emission Factor	0.00132	0.03696
Mobile Combustion	N2O	Alternative Fuels	All	Unspecified Technology	Emission Factor	Yes	Heat Content: 3.822 MMBtu/bbl;	Propane (Liquid)	10,000 gal	0.132 g/gal	Custom Emission Factor	0.00132	0.3498

Source Emissions | Welding Activities

Based on historical averages of compressed gas cylinder purchases.

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)
Fugitive	CO2	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				1.4106	1.4106

Facility Emissions | UCSD Medical Center Hillcrest

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

9500 Gilman Drive, La Jolla, California, 92093-0089, 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	9,380.043616	9,333.688912	0.15882	0.158142	0	0	0	0
Fugitive	21.86714	0.47104	0	0.08074	0	0	0	0
Total	9,401.910756	9,334.159952	0.15882	0.238882	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	9,749.007677	9,715.061346	0.565544	0.068344	0	0	0	0
Total	9,749.007677	9,715.061346	0.565544	0.068344	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	9,749.007677	9,715.061346	0.565544	0.068344	0	0	0	0
Total	9,749.007677	9,715.061346	0.565544	0.068344	0	0	0	0

Source Emissions | Boilers 22431

6/29/17 Previous years data

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	Industrial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.14 MMBtu/gal;	Distillate Fuel Oil No. 2	114 gal	10.3544 kg/gal	2017 Default Emission Factors - Table #12.1	1.180402	1.180402
Stationary Combustion	CH4	Petroleum Products	Industrial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.14 MMBtu/gal;	Distillate Fuel Oil No. 2	114 gal	0.003 kg/MMBtu	2017 Default Emission Factors - Table #12.9	0.000048	0.001341
Stationary Combustion	N2O	Petroleum Products	Industrial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.14 MMBtu/gal;	Distillate Fuel Oil No. 2	114 gal	0.0006 kg/MMBtu	2017 Default Emission Factors - Table #12.9	0.00001	0.002538

Source Emissions | Boilers 24350

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	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,755,254 therm	53.0567 kg/MMBtu	2017 Default Emission Factors - Table #12.1	9,312.792698	9,312.792698
Stationary Combustion	CH4	Natural Gas	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,755,254 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	0.157973	4.42324
Stationary Combustion	N2O	Natural Gas	Industrial	Boilers	Emission Factor	No	Heat Content: 1050 Btu/scf;	1,025 - 1,050 Btu / SCF	1,755,254 therm	0.9 g/MMBtu	2017 Default Emission Factors - Table #12.7	0.157973	41.862808

Source Emissions | Emergency Generators

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	Industrial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.14 MMBtu/gal;	Distillate Fuel Oil No. 2	1,904.1 gal	10.3544 kg/gal	2017 Default Emission Factors - Table #12.1	19.715813	19.715813
Stationary Combustion	CH4	Petroleum Products	Industrial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.14 MMBtu/gal;	Distillate Fuel Oil No. 2	1,904.1 gal	0.003 kg/MMBtu	2017 Default Emission Factors - Table #12.9	0.0008	0.022392
Stationary Combustion	N2O	Petroleum Products	Industrial	Unspecified Technology	Emission Factor	Yes	Heat Content: 0.14 MMBtu/gal;	Distillate Fuel Oil No. 2	1,904.1 gal	0.0006 kg/MMBtu	2017 Default Emission Factors - Table #12.9	0.00016	0.042385

Source Emissions | Fugitive Compressed Gasses

Based on historical average annual compressed gas purchases

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)
Fugitive	CO2	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				0.47104	0.47104

Source Emissions | Fugitive Refrigerant

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)
Fugitive	HFC-134a	N/A	All	Unspecified Technology	PreCalculated	No		N/A				0	0
Fugitive	R-404A	N/A	All	Unspecified Technology	PreCalculated	No		N/A				0	0
Fugitive	R-410A	N/A	All	Unspecified Technology	PreCalculated	No		N/A				0	0

Source Emissions | Healthcare Purchased 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	37,667,989 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	9,715.061346	9,715.061346
Purchased Electricity - Location Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	37,667,989 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.565544	15.835242
Purchased Electricity - Location Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	37,667,989 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.068344	18.111089

Source Emissions | Healthcare Purchased 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	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	37,667,989 kWh	568.6 lb/MWh	2017 Default Emission Factors - Table #14.1	9,715.061346	9,715.061346
Purchased Electricity - Market Based	CH4	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	37,667,989 kWh	33.1 lb/GWh	2017 Default Emission Factors - Table #14.1	0.565544	15.835242
Purchased Electricity - Market Based	N2O	Regional Grid-Average	2016	Unspecified Technology	Emission Factor	No		WECC California	37,667,989 kWh	4 lb/GWh	2017 Default Emission Factors - Table #14.1	0.068344	18.111089

Source Emissions | Nitrous Oxide

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)
Fugitive	N2O	N/A	All	Unspecified Technology	PreCalculated	Yes		N/A				0.08074	21.3961