

University of California, Davis | **Detail Report - Control (Public)****Complete Inventory 2021**

Description: The University of California is one of the world's foremost research and teaching institutions, and UC Davis is the system's flagship campus for environmental and sustainability studies. UC Davis is a global leader in studies relating to air and water pollution; water and land use; agricultural practices; endangered species management; invasive plants and animals; climate change; resource economics; information technology; and human society and culture. Located in the Sacramento Valley, the campus has four colleges, six professional schools, over 31,000 students, and, with 5,300 acres, is the largest of the UC campuses (www.ucdavis.edu).

Industry: 61 - Educational Services

Address: One Shields Avenue
Davis, California US

Contact:

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Reporting Information

Reporting Protocol: General Reporting Protocol 3.0 and associated updates and clarifications

Additional Reporting Standards: None

GWP Standard: AR5

Base Year:

Consolidation Methodology: Operational Control Only

Status: Draft

Verification Information

Verification Body:

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	115,759.116029	115,376.2574	287.952868	94.905761	0	0	0	0
Mobile Combustion	4,991.008444	4,855.6577	98.603128	36.747616	0	0	0	0
Process	305.0915	0	167.636	137.4555	0	0	0	0
Fugitive	9,718.868651	22.36286	726.075616	98.164215	2,764.61596	0	0	6,107.65
Total	130,774.084625	120,254.27796	1,280.267612	367.273092	2,764.61596	0	0	6,107.65
Applied Offsets	-4,373	-4,373	0	0	0	0	0	0
NetTotal	126,401.084625	115,881.27796	1,280.267612	367.273092	2,764.61596	0	0	6,107.65

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	42,738.199205	42,523.943	98.007479	116.248727	0	0	0	0
Purchased Heating - Market Based	699.88932	697.81	1.730792	0.348528	0	0	0	0
Total	43,438.088525	43,221.753	99.738271	116.597255	0	0	0	0
NetTotal	43,438.088525	43,221.753	99.738271	116.597255	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)
Stationary Biomass Combustion	192.77	192.77	0	0	0	0	0	0
Mobile Biomass Combustion	720.17	720.17	0	0	0	0	0	0
Total	912.94	912.94	0	0	0	0	0	0
NetTotal	912.94	912.94	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	115,759.116029	115,376.2574	10.284031	0.358135	0	0	0	0
Mobile Combustion	4,991.008444	4,855.6577	3.52154	0.13867	0	0	0	0
Process	305.0915	0	5.987	0.5187	0	0	0	0
Fugitive	9,718.868651	22.36286	25.931272	0.370431	2,764.61596	0	0	0.2599
Total	130,774.084625	120,254.27796	45.723843	1.385936	2,764.61596	0	0	0.2599

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	42,738.199205	42,523.943	3.500267	0.438674	0	0	0	0
Purchased Heating - Market Based	699.88932	697.81	0.061814	0.001315	0	0	0	0
Total	43,438.088525	43,221.753	3.562081	0.43999	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)
Stationary Biomass Combustion	192.77	192.77	0	0	0	0	0	0
Mobile Biomass Combustion	720.17	720.17	0	0	0	0	0	0
Total	912.94	912.94	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*
Market Based	7,830.820288	175,125.11315	4.47155758939788%
*Total based on scope 1, scope 2 & biomass emissions			

Facility Emissions | Bodega Bay Marine Laboratory

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

2099 Westside Road, Bodega Bay, California, 94923, 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	292.43039	290.02	0.05491	0.003294	0	0	0	0
Total	292.43039	290.02	0.05491	0.003294	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	9.443986	9.36	0.001374	0.000172	0	0	0	0
Total	9.443986	9.36	0.001374	0.000172	0	0	0	0

Facility Emissions | Bodega Bay Mobile Emissions

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

2099 Westside Road, Bodega Bay, California, 94923, 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)
Mobile Combustion	4.045276	3.973	0.002019	0.000059	0	0	0	0
Total	4.045276	3.973	0.002019	0.000059	0	0	0	0

Facility Emissions | Davis Campus / Main Campus

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

One Shields Avenue, Davis, California, 95616, 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	54,290.204988	54,095.29	4.824176	0.225804	0	0	0	0
Mobile Combustion	792.77736	766.1479	0.139687	0.085729	0	0	0	0
Process	305.0915	0	5.987	0.5187	0	0	0	0
Fugitive	8,955.060115	5.543	8.5903	0.370431	2,503.1745	0	0	0.2599
Total	64,343.133963	54,866.9809	19.541163	1.200664	2,503.1745	0	0	0.2599

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	36,885.763565	36,695.78	3.10317	0.389037	0	0	0	0
Purchased Heating - Market Based	177.176419	176.65	0.01565	0.000333	0	0	0	0
Total	37,062.939984	36,872.43	3.11882	0.38937	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)
Stationary Biomass Combustion	192.77	192.77	0	0	0	0	0	0
Total	192.77	192.77	0	0	0	0	0	0

Facility Emissions | Davis Campus Distribution Line Emissions

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

One Shields Avenue, Davis, California, 95616, 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)
Fugitive	482.084788	16.076	16.643171	0	0	0	0	0
Total	482.084788	16.076	16.643171	0	0	0	0	0

Facility Emissions | Davis Campus Fleet Vehicles

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

One Shields Avenue, Davis, California, 95616, 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)
Mobile Combustion	3,721.203193	3,614.1158	3.369908	0.048038	0	0	0	0
Fugitive	94.61242	0	0	0	94.61242	0	0	0
Total	3,815.815613	3,614.1158	3.369908	0.048038	94.61242	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	720.17	720.17	0	0	0	0	0	0
Total	720.17	720.17	0	0	0	0	0	0

Facility Emissions | Sacramento Campus / Medical Center

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

2315 Stockton Blvd., Sacramento, California, 95817, 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	60,579.236421	60,395.55	5.350934	0.127775	0	0	0	0
Fugitive	154.799308	0	0	0	154.799308	0	0	0
Total	60,734.035729	60,395.55	5.350934	0.127775	154.799308	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	5,177.290825	5,154.73	0.36909	0.046137	0	0	0	0
Purchased Heating - Market Based	424.491111	423.23	0.03749	0.000798	0	0	0	0
Total	5,601.781936	5,577.96	0.40658	0.046935	0	0	0	0

Facility Emissions | Sacramento Campus Fleet Vehicles

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

2315 Stockton Blvd., Sacramento, California, 95817, 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)
Mobile Combustion	453.142458	451.75	0.004529	0.004776	0	0	0	0
Fugitive	7.6661	0	0	0	7.6661	0	0	0
Total	460.808558	451.75	0.004529	0.004776	7.6661	0	0	0

Facility Emissions | Sacramento Campus Transmission and Distribution Line Emissions

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

2315 Stockton Boulevard, Sacramento, California, 95817, 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)
Fugitive	20.282288	0.74386	0.697801	0	0	0	0	0
Total	20.282288	0.74386	0.697801	0	0	0	0	0

Facility Emissions | Small Offsite Facilities

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

Various Addresses, Various Cities, California, various, 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	181.89014	181.29	0.017115	0.000456	0	0	0	0
Mobile Combustion	1.027058	1.021	0.000138	0.000008	0	0	0	0
Total	182.917198	182.311	0.017253	0.000465	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	244.027267	242.43	0.026133	0.003266	0	0	0	0
Purchased Heating - Market Based	98.221791	97.93	0.008674	0.000185	0	0	0	0
Total	342.249058	340.36	0.034807	0.003451	0	0	0	0

Facility Emissions | Tahoe Environmental Research Center (CA) Mobile Emissions

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

2400 Lake Forest Road, Tahoe City, California, 96145, 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)
Mobile Combustion	18.813099	18.65	0.005259	0.00006	0	0	0	0
Total	18.813099	18.65	0.005259	0.00006	0	0	0	0

Facility Emissions | Tahoe Environmental Research Center-Fish Hatchery (CA)

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

2400 Lake Forest Road, Tahoe City, California, 96145, 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	8.230985	8.2	0.000842	0.000028	0	0	0	0
Total	8.230985	8.2	0.000842	0.000028	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	8.053563	8.023	0.0005	0.000063	0	0	0	0
Total	8.053563	8.023	0.0005	0.000063	0	0	0	0

Facility Emissions | Tahoe Environmental Research Center-Incline Village (NV)

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

291 Country Club Drive, Incline Village, Nevada, 89451, 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	0	0	0	0	0	0
Total		0	0	0	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		0	0	0	0	0	0	0
Total		0	0	0	0	0	0	0

Facility Emissions | Veterinary Medicine Teaching Research Center, Tulare

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

18830 Road 112, Tulare, California, 93274, 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	407.123106	405.9074	0.036054	0.000778	0	0	0	0
Mobile Combustion	0	0	0	0	0	0	0	0
Fugitive	4.363632	0	0	0	4.363632	0	0	0
Total	411.486738	405.9074	0.036054	0.000778	4.363632	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	413.62	413.62	0	0	0	0	0	0
Total	413.62	413.62	0	0	0	0	0	0