



University of California, Davis Detail Report - Control (Public)

Complete Inventory 2018

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:
Camille Kirk
cmkirk@ucdavis.edu

Website: sustainability.ucdavis.edu

Reporting Information

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

Additional Reporting Standards: None

GWP Standard: AR5

Base Year:

Consolidation Methodology: Operational Control Only

Status: Locked

UNVERIFIED EMISSIONS REPORT:
*WILL UNDERGO VERIFICATION FALL 2020
WITH VERIFIER CAMERON-COLE*

Verification Information

Entity Emissions | Total in metric tons of CO2e

Verification Body: Cameron-Cole, LLC

UNVERIFIED EMISSIONS REPORT: WILL UNDERGO VERIFICATION FALL 2020 WITH VERIFIER CAMERON-COLE

Level of Assurance: Reasonable

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	124,490.63395	124,097.521656	329.076727	64.035567	0	0	0	0
Mobile Combustion	6,114.089527	5,921.022442	69.177715	123.88937	0	0	0	0
Process	299.5979	0	139.6598	159.9381	0	0	0	0
Fugitive	9,053.058557	29.263628	489.796916	236.6662	2,997.541313	0	0	5,299.7905
Total	139,957.379934	130,047.807725	1,027.711158	584.529238	2,997.541313	0	0	5,299.7905
Applied Offsets	-9,605	-9,605	0	0	0	0	0	0
NetTotal	130,352.379934	120,442.807725	1,027.711158	584.529238	2,997.541313	0	0	5,299.7905

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	18,077.234266	17,998.382978	36.723079	42.128208	0	0	0	0
Purchased Heating - Market Based	681.260611	679.129532	1.791899	0.339181	0	0	0	0
Total	18,758.494877	18,677.51251	38.514978	42.467389	0	0	0	0
NetTotal	18,758.494877	18,677.51251	38.514978	42.467389	0	0	0	0

UNVERIFIED EMISSIONS REPORT: WILL UNDERGO VERIFICATION FALL 2020 WITH VERIFIER CAMERON-COLE

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	61.322588	61.322588	0	0	0	0	0	0
Mobile Biomass Combustion	510.387318	510.387318	0	0	0	0	0	0
Total	571.709906	571.709906	0	0	0	0	0	0
NetTotal	571.709906	571.709906	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	124,490.63395	124,097.521656	11.75274	0.241644	0	0	0	0
Mobile Combustion	6,114.089527	5,921.022442	2.470633	0.467507	0	0	0	0
Process	299.5979	0	4.98785	0.60354	0	0	0	0
Fugitive	9,053.058557	29.263628	17.492747	0.89308	2,997.541313	0	0	0.225523
Total	139,957.379934	130,047.807725	36.70397	2.205771	2,997.541313	0	0	0.225523

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	18,077.234266	17,998.382978	1.311539	0.158974	0	0	0	0
Purchased Heating - Market Based	681.260611	679.129532	0.063996	0.00128	0	0	0	0
Total	18,758.494877	18,677.51251	1.375535	0.160254	0	0	0	0

UNVERIFIED EMISSIONS REPORT: WILL UNDERGO VERIFICATION FALL 2020 WITH VERIFIER CAMERON-COLE

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	61.322588	61.322588	0	0	0	0	0	0
Mobile Biomass Combustion	510.387318	510.387318	0	0	0	0	0	0
Total	571.709906	571.709906	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	7,806.932511	159,287.584717	4.90115568334692%

*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	384.676174	382.200072	0.056426	0.003382	0	0	0	0
Total	384.676174	382.200072	0.056426	0.003382	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	194.477794	192.670869	0.030055	0.003643	0	0	0	0
Total	194.477794	192.670869	0.030055	0.003643	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	24.335636	23.982264	0.001966	0.001126	0	0	0	0
Total	24.335636	23.982264	0.001966	0.001126	0	0	0	0

UNVERIFIED EMISSIONS REPORT: WILL UNDERGO VERIFICATION FALL 2020 WITH VERIFIER CAMERON-COLE

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	60,028.039163	59,838.326309	5.669688	0.116836	0	0	0	0
Mobile Combustion	950.202808	933.362094	0.198768	0.042548	0	0	0	0
Process	299.5979	0	4.98785	0.60354	0	0	0	0
Fugitive	8,176.45467	12.496	0.119821	0.89308	2,624.146982	0	0	0.225523
Total	69,454.294541	60,784.184403	10.976127	1.656004	2,624.146982	0	0	0.225523

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	15,380.540276	15,316.07218	1.072302	0.129976	0	0	0	0
Purchased Heating - Market Based	143.99365	143.543218	0.013527	0.000271	0	0	0	0
Total	15,524.533926	15,459.615398	1.085828	0.130247	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	61.322588	61.322588	0	0	0	0	0	0
Total	61.322588	61.322588	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	489.033788	16.305	16.883171	0	0	0	0	0
Total	489.033788	16.305	16.883171	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	4,616.74817	4,443.440275	2.242307	0.417069	0	0	0	0
Fugitive	173.89576	0	0	0	173.89576	0	0	0
Total	4,790.64393	4,443.440275	2.242307	0.417069	173.89576	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	510.387318	510.387318	0	0	0	0	0	0
Total	510.387318	510.387318	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	63,465.750803	63,266.866102	5.967035	0.120029	0	0	0	0
Fugitive	139.337305	0	0	0	139.337305	0	0	0
Total	63,605.088108	63,266.866102	5.967035	0.120029	139.337305	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	1,673.917096	1,664.673828	0.153744	0.018636	0	0	0	0
Purchased Heating - Market Based	365.240243	364.09772	0.03431	0.000686	0	0	0	0
Total	2,039.157339	2,028.771548	0.188054	0.019322	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	483.786293	482.078109	0.007273	0.005678	0	0	0	0
Fugitive	10.7302	0	0	0	10.7302	0	0	0
Total	494.516493	482.078109	0.007273	0.005678	10.7302	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	14.175768	0.462628	0.489755	0	0	0	0	0
Total	14.175768	0.462628	0.489755	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	189.434996	188.720125	0.019858	0.000599	0	0	0	0
Mobile Combustion	1.84283	1.82759	0.000104	0.000047	0	0	0	0
Total	191.277826	190.547715	0.019962	0.000646	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	384.361663	381.699051	0.044287	0.005368	0	0	0	0
Purchased Heating - Market Based	172.026717	171.488594	0.01616	0.000323	0	0	0	0
Total	556.38838	553.187644	0.060447	0.005691	0	0	0	0

University of California, Davis

Emissions Year 2018

The Climate Registry

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	37.122071	36.28106	0.020214	0.001038	0	0	0	0
Total	37.122071	36.28106	0.020214	0.001038	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	8.84456	8.81564	0.000852	0.000019	0	0	0	0
Total	8.84456	8.81564	0.000852	0.000019	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	7.24564	7.218511	0.000451	0.000055	0	0	0	0
Total	7.24564	7.218511	0.000451	0.000055	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	0
Total	0	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	0
Total	0	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	413.888254	412.593408	0.038882	0.000778	0	0	0	0
Mobile Combustion	0.051719	0.05105	0.000002	0.000002	0	0	0	0
Fugitive	49.431066	0	0	0	49.431066	0	0	0
Total	463.371039	412.644458	0.038884	0.00078	49.431066	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	436.691797	436.04854	0.010699	0.001297	0	0	0	0
Total	436.691797	436.04854	0.010699	0.001297	0	0	0	0