

Total Emissions Summary Report

Report Date: 10/25/2007 10:14 am PT



California State University System

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Contact: A. Klemm
 Industry Type: Education - University
 NAIC Code: 6113-Colleges, Universities, and Professional Schools
 SIC Code: 8221-Colleges, Universities, and Professional Schools
 Description: CSU is the State University system for California. CSU consists of 23 campuses plus Moss Landing Marine Lab, seven off-campus centers and other miscellaneous off-campus space. The CSU is a leader in high-quality, accessible, student-focused higher education. With 23 campuses, 417,000 students, and 46,000 faculty and staff, we are the largest, the most diverse, and one of the most affordable university systems in the country. We offer unlimited opportunities to help students achieve their goals. We prepare graduates who go on to make a difference in the workforce. We engage in research and creative activities leading to scientific, technical, artistic and social advances. And we play a vital role in the growth and development of California's communities and economy.

Legend	
Blue	= required
Orange	= optional

Primary Calculation
 Methodologies:

CERTIFIED EMISSIONS INFORMATION

Reporting Year: 2006
 Reporting Scope: CA
 Reporting Protocol: General Reporting Protocol, Version 2.2 (March 2007)
 Direct Baseline Year
 Indirect Baseline Year

Direct Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Mobile Combustion	18,221.87	18,221.87	0.00	0.00	0.00	0.00	0.00	metric ton
Stationary Combustion	156,858.07	156,858.07	0.00	0.00	0.00	0.00	0.00	metric ton
Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Fugitive Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
TOTAL DIRECT	175,079.94	175,079.94	0.00	0.00	0.00	0.00	0.00	metric ton

* HFCs and PFCs are classes of greenhouse gases that include many compounds. These columns may reflect the total emissions of multiple HFC and PFC compounds, each of which has a unique Global Warming Potential (GWP). Emissions of each gas are first multiplied by their respective GWP and then summed in the total CO2-equivalent column.

Indirect Emissions	CO2e	CO2	CH4	N2O	Unit
Purchased Electricity	200,000.41	200,000.41	0.00	0.00	metric ton
Purchased Steam	0.00	0.00	0.00	0.00	-
Purchased Heating and Cooling	0.00	0.00	0.00	0.00	-
TOTAL INDIRECT	200,000.41	200,000.41	0.00	0.00	metric ton

CERTIFICATION INFORMATION

Certification Company:
 Certifier Name:
 Lead Certifier Name:
 Basis of Certification Opinion:

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Certifier Comments:

OPTIONAL INFORMATION

Information in this section is voluntarily provided by the participant for public information, but is not required and thus, not certified under Registry protocols.

Deminimis Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Butane combustion	16.00	16.00	0.00	0.00	0.00	0.00	0.00	metric ton
Dry Ice usage	39.00	39.00	0.00	0.00	0.00	0.00	0.00	metric ton
Oxy-Acetylene welding	9.00	9.00	0.00	0.00	0.00	0.00	0.00	metric ton
TOTAL DEMINIMIS	64.00	64.00	0.00	0.00	0.00	0.00	0.00	-

Optional Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Other Indirect Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
TOTAL OPTIONAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-

* HFCs and PFCs are classes of greenhouse gases that include many compounds. These columns may reflect the total emissions of multiple HFC and PFC compounds, each of which has a unique Global Warming Potential (GWP). Emissions of each gas are first multiplied by their respective GWP and then summed in the total CO2-equivalent column.

Movement Report

Factor	Details	Amount (CO2e)	Unit
Emissions Efficiency metric:	1.06 tonnes CO2 / full time equivalent (FTE) student		
Emissions Management Programs:			
Emissions Reduction Projects:			
Emissions Reduction Goals:			

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Source	Emission Category	Calc Method	Fuel/ Mileage	Emission Factor	Fract. Oxid.	GHG	Amount	Unit	Methodol./ Source	General Info
Butane combustion	Stationary Combustion	Pre-Calc				CO2	16.00	metric ton		
CA Diesel - Dispensed on Campus	Mobile Combustion	CARROT	186868 gallon	9.96 kg/gallon	100	CO2	1,861.21	metric ton		
CA Diesel - Voyager Records	Mobile Combustion	CARROT	53237 gallon	9.96 kg/gallon	100	CO2	530.24	metric ton		
CA Gasoline - Dispensed on Campus	Mobile Combustion	CARROT	588115 gallon	8.55 kg/gallon	100	CO2	5,028.38	metric ton		
CA Gasoline - Voyager Records	Mobile Combustion	CARROT	411174 gallon	8.55 kg/gallon	100	CO2	3,515.54	metric ton		
Campus Total Purchased Electricity	Purchased Electricity	CARROT	538625 MWh	804.54 lb/MWh		CO2	196,565.61	metric ton		
CNG - Dispensed on Campus	Mobile Combustion	CARROT	3840 gallon	6.86 kg/gallon	100	CO2	26.34	metric ton	GRP 2.2, Table C.3. Natural Gas (CNG) per gasoline gallon equivalent	Count not find CNG in CARROT pull-down menu
CNG - Voyager Records	Mobile Combustion	CARROT	2156 gallon	6.86 kg/gallon	100	CO2	14.79	metric ton	GRP 2.2 Table C.3. Natural Gas (CNG) per gasoline gallon equivalent	Did not find emission factor in CARROT pull-down menu
Cogeneration Natural Gas	Stationary Combustion	CARROT	1549288 MMBtu	52.79 kg/MMBtu	100	CO2	81,779.17	metric ton		
CSUCI Cogen electricity - natural gas heat input	Purchased Electricity	Pre-Calc				CO2	3,434.80	metric ton	The OLS Cogeneration facility is captive to CSUCI. The indirect emissions for electricity purchase is computed from the purchased electricity amount and the OLS heat rate for 2006. CSUCI also purchases steam. However, OLS produces steam using cogen waste heat and no additional natural gas firing is used. Therefore, the electrical purchase already accounts for CO2 emissions from the steam purchase. Emission factor for natural gas combustion from GRP 2.2, Table C.5, Natural Gas. CSUCI 2006 electrical purchase was 7,487,770 kWh. OLS 2006 heat rate 8690.41 BTU (HHV)/kWh	
Dry Ice usage	Stationary Combustion	Pre-Calc				CO2	39.00	metric ton		
Marine Gas Oil - Ocean going vessels	Mobile Combustion	CARROT	711182 gallon	10.05 kg/gallon	100	CO2	7,147.38	metric ton		
Non-Cogeneration Natural Gas Combustion	Stationary Combustion	CARROT	1422353 MMBtu	52.79 kg/MMBtu	100	CO2	75,078.90	metric ton		

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Oxy-Acetylene welding	Stationary Combustion	Pre-Calc			CO2	9.00	metric ton
Propane	Mobile Combustion	CARROT	17277 gallon	5.67 kg/gallon	100 CO2	98.00	metric ton

REFERENCE DOCUMENTS

Title	Author	Publish Date
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