

# Total Emissions Summary Report

## University of California, Santa Barbara

### (Emissions from California operations)



Report Generated On: 09/15/2008 10:56 am PT

Report Revision #: 1

Santa Barbara, CA 93106 United States

sustainability.ucsb.edu

805-893-8367

jill.richardson@vcadmin.ucsb.edu

Contact: Jill Richardson

Industry Type: Education - University

NAIC Code:

SIC Code:

Description: University of California Santa Barbara is a 1,055 acre campus with many types of buildings such as administration, light and heavy research, as well as campus housing, residence halls, and off-campus reserves.

Primary Calculation

Methodologies:

Organizational structure disclosure:

Legend	
<b>Blue</b>	= required
<b>Orange</b>	= optional

#### VERIFIED EMISSIONS INFORMATION

Reporting Year: **2005**  
 Reporting Scope: **CA**  
 Reporting Protocol: General Reporting Protocol, Version 2.1 (June 2006)  
 Reporting Boundaries:  
 Direct Baseline Year  
 Indirect Baseline Year

Direct Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Mobile Combustion	<b>1,189.83</b>	1,189.83	0.00	0.00	0.00	0.00	0.00	metric ton
Stationary Combustion	<b>19,317.00</b>	19,317.00	0.00	0.00	0.00	0.00	0.00	metric ton
Process Emissions	<b>0.00</b>	0.00	0.00	0.00	0.00	0.00	0.00	-
Fugitive Emissions	<b>0.00</b>	0.00	0.00	0.00	0.00	0.00	0.00	-
<b>TOTAL DIRECT</b>	<b>20,506.83</b>	20,506.83	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	<b>31,694.00</b>	31,694.00	0.00	0.00	metric ton
Purchased Steam	<b>0.00</b>	0.00	0.00	0.00	-
Purchased Heating and Cooling	<b>0.00</b>	0.00	0.00	0.00	-
<b>TOTAL INDIRECT</b>	<b>31,694.00</b>	31,694.00	0.00	0.00	metric ton

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De Minimis Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
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Percentage of Total Inventory:

\* 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
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\*The Movement Report documents changes in the members inventory. This data is not verified but must be completed by the member to help track changes in emissions over time.

#### VERIFICATION INFORMATION

Verification Company:	Ryerson, Master & Associates, Inc.
Verifier Name:	Ryerson, Master and Associates, Inc.
Lead Verifier Name:	Ivor John
Basis of Verification Opinion:	<p>The University of California Santa Barbara (UCSB) submitted their Year 2005 Greenhouse Gas Emission Inventory Report to Ryerson, Master and Associates, Inc., (RMA) for review and certification against the Registry's General Reporting Protocol, Version 2.1. RMA followed the procedures outlined in the Registry's Certification Protocol (dated July 2003) to complete the certification process. The certification activities were conducted during October through December 2006.</p> <p>On December 27, 2006, RMA issued a Certification Report to UCSB documenting the certification activities and the immaterial misstatements in the UCSB inventory. No material misstatements were identified. UCSB revised the emission inventory in CARROT, and RMA recertified the inventory. A Certification Opinion was provided to UCSB on January 3, 2007. RMA completed the Certification Activities Checklist and completed the certification in CARROT on January 3, 2007.</p>

Date Submitted:  
01/03/07 02:25 pm

Verifier Comments:

#### OPTIONAL INFORMATION

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

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Optional Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
	<b>0.00</b>	0.00	0.00	0.00	0.00	0.00	0.00	-
TOTAL OPTIONAL	<b>0.00</b>	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.

#### Emissions Efficiency metric:

#### Emissions Management Programs:

**Emissions Reduction Projects:** from 2006-2008 will reduce emissions by about 6000 metric tons/year. Every new building at UCSB must meet a LEED silver standard for new construction, and UCSB has a long-term goal of certifying every building through LEED for existing buildings. As a precursor to LEEDWhile meeting the above goals is very bold at a quickly growing campus, UCSB has many projects underway to reduce our emissions. Energy efficiency projects being undertaken , Green Campus at UCSB will seek to meet Energy Star certification for several office buildings each year. In transportation, Fleet Services has adopted a policy to make 75% of their new auto purchases alternative fuel or high efficiency vehicles, while creating innovative ways to lower miles driven. In addition, Fleet Services has purchased offsets for 100% of their vehicles' GHG emissions through a deal with drivinggreen.com

**Emissions Reduction Goals:** UCSB has drafted a sustainability master plan to direct campus towards a more sustainable future. UCSB seeks to meet the GHG reductions listed in the Governor's Executive Order S-3-05; namely, to reduce emissions to 2000 levels by 2010, 1990 levels from 2020 and 80% below 1990 levels by 2050.

#### REFERENCE DOCUMENTS

Title	Author	Document Status	Publish Date
<a href="#">UCSB Greenhouse Gas Emissions Certification</a>	Ivor John	Private	01/03/2007 12:00:00AM

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## University of California, Santa Barbara

### (Emissions from California operations)



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#### FACILITY INFORMATION

Facility Name: **Main Campus and Auxiliary Electricity Usage**  
 Facility ID:  
 ReportingYear: 2005  
 Facility Address: Santa Barbara, CA 93106, United States  
 Facility PO Box:  
 Facility Contact Person: Jill Richardson  
 Facility Contact Phone: 805-893-8367  
 Facility Contact Email: jill.richardson@vcdadmin.ucsb.edu  
 Facility Description:  
 SIC Code:  
 NAIC Code:  
 Industry Type:

Direct Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Mobile Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Stationary Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
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	-
<b>TOTAL DIRECT</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>-</b>

\* 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	30,310.00	30,310.00	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	-
<b>TOTAL INDIRECT</b>	<b>30,310.00</b>	<b>30,310.00</b>	<b>0.00</b>	<b>0.00</b>	<b>metric ton</b>

De Minimis Detail	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
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Percentage of Total Inventory:

\* 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.

Optional Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
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.

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**Facility Emission Reduction Goals:**  
**Environmental Programs/Policies:**  
**Other Public Information:**  
**Primary Calculation Methodologies:**  
**Equity Share:** 100.00

Source	Emission Category	Calc Method	Fuel Name	Fuel/Mileage	Emission Factor	Fract. GHG Oxid.	GHG	Amount	Unit	Methodol./Source	General Info
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	Purchased Electricity	Pre-Calc					CO2	30,310.00	metric ton		
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# Total Emissions Summary Report

## University of California, Santa Barbara

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#### FACILITY INFORMATION

**Facility Name** Main Campus and Auxiliary Natural Gas Usage  
**Facility ID**  
**ReportingYear** 2005  
**Facility Address** Santa Barbara, CA 93106, United States  
**Facility PO Box**  
**Facility Contact Person** Jill Richardson  
**Facility Contact Phone** 805.893.8367  
**Facility Contact Email** jill.richardson@vcdadmin.ucsb.edu  
**Facility Description**  
**SIC Code**  
**NAIC Code**  
**Industry Type**

Direct Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Mobile Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Stationary Combustion	16,176.00	16,176.00	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	-
<b>TOTAL DIRECT</b>	<b>16,176.00</b>	<b>16,176.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>metric ton</b>

\* 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	0.00	0.00	0.00	0.00	-
Purchased Steam	0.00	0.00	0.00	0.00	-
Purchased Heating and Cooling	0.00	0.00	0.00	0.00	-
<b>TOTAL INDIRECT</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>-</b>

De Minimis Detail	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
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Percentage of Total Inventory:

\* 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.

Optional Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
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.

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**Facility Emission Reduction Goals:**  
**Environmental Programs/Policies:**  
**Other Public Information:**  
**Primary Calculation Methodologies:**  
**Equity Share:** 100.00

Source	Emission Category	Calc Method	Fuel Name	Fuel/Mileage	Emission Factor	Fract. GHG Oxid.	GHG	Amount	Unit	Methodol./Source	General Info
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	Stationary Combustion	Pre-Calc					CO2	16,176.00	metric ton		
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#### FACILITY INFORMATION

Facility Name **Off Campus Housing Electricity Usage**  
 Facility ID  
 ReportingYear 2005  
 Facility Address Santa Barbara, CA 93106, United States  
 Facility PO Box  
 Facility Contact Person Perrin Pellegrin  
 Facility Contact Phone 805-893-2661 (2208)  
 Facility Contact Email Perrin.Pellegrin@dcs.ucsb.edu  
 Facility Description  
 SIC Code  
 NAIC Code  
 Industry Type

Direct Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Mobile Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Stationary Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
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	-
<b>TOTAL DIRECT</b>	<b>0.00</b>	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.

Indirect Emissions	CO2e	CO2	CH4	N2O	Unit
Purchased Electricity	1,384.00	1,384.00	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	-
<b>TOTAL INDIRECT</b>	<b>1,384.00</b>	1,384.00	0.00	0.00	metric ton

De Minimis Detail	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
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Percentage of Total Inventory:

\* 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.

Optional Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
<b>TOTAL OPTIONAL</b>	<b>0.00</b>	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.

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**Facility Emission Reduction Goals:**  
**Environmental Programs/Policies:**  
**Other Public Information:**  
**Primary Calculation Methodologies:**  
**Equity Share:** 100.00

Source	Emission Category	Calc Method	Fuel Name	Fuel/Mileage	Emission Factor	Fract. GHG Oxid.	GHG	Amount	Unit	Methodol./Source	General Info
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Off campus housing	Purchased Electricity	Pre-Calc					CO2	1,384.00	metric ton		
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# Total Emissions Summary Report

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#### FACILITY INFORMATION

Facility Name **Off-Campus Housing Natural Gas Usage**  
 Facility ID  
 ReportingYear 2005  
 Facility Address Santa Barbara, CA 93106, United States  
 Facility PO Box  
 Facility Contact Person Jill Richardson  
 Facility Contact Phone 805-893-8367  
 Facility Contact Email jill.richardson@vcdadmin.ucsb.edu  
 Facility Description  
 SIC Code  
 NAIC Code  
 Industry Type

Direct Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Mobile Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Stationary Combustion	3,141.00	3,141.00	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	-
<b>TOTAL DIRECT</b>	<b>3,141.00</b>	<b>3,141.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>metric ton</b>

\* 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	0.00	0.00	0.00	0.00	-
Purchased Steam	0.00	0.00	0.00	0.00	-
Purchased Heating and Cooling	0.00	0.00	0.00	0.00	-
<b>TOTAL INDIRECT</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>-</b>

De Minimis Detail	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
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Percentage of Total Inventory:

\* 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.

Optional Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
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.

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**Facility Emission Reduction Goals:**  
**Environmental Programs/Policies:**  
**Other Public Information:**  
**Primary Calculation Methodologies:**  
**Equity Share:** 100.00

Source	Emission Category	Calc Method	Fuel Name	Fuel/Mileage	Emission Factor	Fract. GHG Oxid.	GHG	Amount	Unit	Methodol./Source	General Info
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	Stationary Combustion	Pre-Calc					CO2	3,141.00	metric ton		
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#### FACILITY INFORMATION

Facility Name **Transportation Fuel Usage**  
 Facility ID  
 ReportingYear 2005  
 Facility Address Santa Barbara, CA 93106, United States  
 Facility PO Box  
 Facility Contact Person Jill Richardson  
 Facility Contact Phone 805 893-8367  
 Facility Contact Email jill.richardson@vcdadmin.ucsb.edu  
 Facility Description  
 SIC Code  
 NAIC Code  
 Industry Type

Direct Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
Mobile Combustion	1,189.83	1,189.83	0.00	0.00	0.00	0.00	0.00	metric ton
Stationary Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
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	-
<b>TOTAL DIRECT</b>	<b>1,189.83</b>	<b>1,189.83</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>metric ton</b>

\* 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	0.00	0.00	0.00	0.00	-
Purchased Steam	0.00	0.00	0.00	0.00	-
Purchased Heating and Cooling	0.00	0.00	0.00	0.00	-
<b>TOTAL INDIRECT</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>-</b>

De Minimis Detail	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
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Percentage of Total Inventory:

\* 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.

Optional Emissions	CO2e	CO2	CH4	N2O	HFCs*	PFCs*	SF6	Unit
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.

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**Facility Emission Reduction Goals:**

**Environmental Programs/Policies:**

**Other Public Information:**

**Primary Calculation Methodologies:**

**Equity Share:** 100.00

Source	Emission Category	Calc Method	Fuel Name	Fuel/Mileage	Emission Factor	Fract. Oxid.	GHG	Amount	Unit	Methodol./Source	General Info
Diesel	Mobile Combustion	CARROT	CA Low Sulfur Diesel	4277 gallon	9.96 kg/gallon	100	CO2	42.60	metric ton		
Gas use from on-site dispensing station	Mobile Combustion	CARROT	CA Reformulated Gasoline, 5.7% Ethanol	109851 gallon	8.55 kg/gallon	100	CO2	939.23	metric ton		
Voyager and rental fuel usage	Mobile Combustion	Pre-Calc					CO2	208.00	metric ton		