

**Facility Name:****University of California, Santa Barbara**

Facility ARB ID: 104372

Facility Reporting Year: 2013

**Certification Statement:**

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

**Facility Representatives**

Designated Representative: Jodi Woods

**Facility Location**

Physical Address: University of California, Santa Barbara

City: Santa Barbara

State / Province: CA

ZIP / Postal Code: 93106

Country:

Latitude: 34.414364

Longitude: -119.845472

County: SANTA BARBARA

Air Basin: SOUTH CENTRAL COAST

District: SANTA BARBARA COUNTY APCD

Mailing Address: UCSB EH&amp;S Bldg 565

City: Santa Barbara

State / Province: CA

ZIP / Postal Code: 93106-5132

Country:

**Payment Information** (required if subject to AB 32 Cost of Implementation Fee Regulation)

Responsible Party for Payment: UCSB

Responsible Party Email: jodi.woods@ehs.ucsb.edu

Responsible Party Phone: 805-893-7014

Billing Address: UCSB EHS Bldg 565

City: Santa Barbara

State / Province: CA

ZIP / Postal Code: 93106-5132

Country:

**Owners / Operators**

Name: UCSB

**GHG Quantity**

CO2 equivalent emissions (excluding biogenic) from subpart C - AA:	20,409.997 Metric Tons
CO2 equivalent quantity from supplier categories, including biogenic (subparts MM - PP):	0 Metric Tons
Exempt Biogenic CO2 emissions from subpart C - AA:	0 Metric Tons
CO2 equivalent emissions from electric power entities:	0 Metric Tons
Covered CO2 equivalent emissions:	20,410 Metric Tons
De Minimis CO2 equivalent emissions:	0 Metric Tons
Maximum allowable De Minimis emissions:	612.3 Metric Tons

### **General Facility Reporting Information**

#### **NAICS Codes**

Primary:

611310 (Colleges, Universities, and Professional Schools)

Second Primary:

Additional:

#### **U.S. Parent Companies**

Parent Company Name:	The Regents of the University of California
Address:	1111 Franklin St., 12th Floor, Oakland, CA 94607
Percentage of Ownership Interest:	100%

GHG Report Start Date:	2013-01-01
GHG Report End Date:	2013-12-31

Explanation of any calculation methodology changes during the reporting year:

#### **EPA e-GGRT Facility IDs**

Full or Abbreviated GHG Report:	Abbreviated
Company or Entity qualifies for Small Business Status:	No
Confidential Data and Other Comments:	

#### **Electricity Purchases/Acquisitions for Reporting Facilities (95104(d))**

Electricity Provider's Name:	Southern California Edison (SCE)
Provider's ARB ID:	3005
Purchases/Acquisitions (MWh):	92,908.921

#### **Natural Gas Purchases/Acquisitions for Reporting Facilities [95115(k), 95103(a)(1)]**

Natural Gas Provider Name:	Southern California Gas Company (SCG)
Provider's ARB ID:	5002
Customer Number:	117-316-7000 3

Purchases/Acquisitions (MMBtu): 384,557

**Increases and Decreases in Facility Emissions [95104(f)]:**

Have facility emissions increased or decreased more than five percent in relation to the previous data year? Yes

Change in production: No

**Changes in facility operations in order to comply with:**

The cap-and-trade regulation: No

Other air pollution regulations: No

Other regulations, not related to air pollution or greenhouse gases: No

**Changes in efficiency due to:**

Process or material changes: Yes

The addition of control equipment: No

Other efficiency measures: Yes

Other reason(s) for increase or decrease: No

Provide a narrative description of how each reason identified in section 95104(f)(2) caused the increase or decrease in emissions. Include in this description any changes in your air permit status:

The biggest factor in the GHG emissions decline from 2012 to 2013 was the weather; winter 2013 was much milder than Winter 2012. Because the overwhelming majority of UCSB's stationary emissions result from (combusting) heating equipment, the milder weather sufficiently explains a drop in GHG emissions of 5.56 % between 2012 and 2013.

**Note: This section is not subject to the third-party verification requirements**

**Electricity Generation**

Facility has the capacity to generate electricity: No

Reported emissions include emissions from a cogeneration/bigeneration unit: No

Parasitic Steam Use: Generated thermal energy used for supporting power production (excluding steam used directly for generating electricity) [95112(a)(5)(B)]:

Generated thermal energy for on-site industrial applications not related to electricity generation [95112(a)(5)(C)]:

Description of the excluded data and an estimated magnitude of the excluded product(s) using best available methods [95103(I)]:

## Subpart C: General Stationary Fuel Combustion

### Gas Information Details

Gas Name	Gas Quantity (Metric Tons)
Methane	0.3846
Nitrous Oxide	0.0385
Carbon Dioxide	20,390
Exempt Biogenic Carbon dioxide	0

**Total Covered CO<sub>2</sub>e Emissions:** 20,410 (Metric Tons)

Emissions shown above that are claimed as De Minimis (CO<sub>2</sub>e): 0 Metric Tons

### Unit Details

**Unit Name:** CP-Dev 6899 El Colegio  
**Configuration Type:** Common Pipe  
**Unit Type:** OCS (Other combustion source)  
**Unit Description:** Hot water heaters

#### Common Pipe Details

**Maximum Rated Heat Input Capacity:** 0.04 mmBtu/hr  
**Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]:** Other (none of the above)

### Electricity Generation Unit Information

**Does this configuration have the capacity to generate electricity?** No

### Emission Details: Configuration-Level Summary (User entered values)

**Total exempt annual biogenic CO<sub>2</sub> mass emissions (must equal the sum of calculated annual exempt biogenic CO<sub>2</sub>) (metric tons):** 0

### Fuel-Specific Emissions Information

**Fuel:** Natural Gas - Natural Gas  
**Calculation Methodology:** Tier 1 (Equation C-1a, natural gas billing in therms)  
**Methodology Start Date:** 2013-01-01  
**Methodology End Date:** 2013-12-31

#### Fuel Emission Details

**Total CO<sub>2</sub> emissions:** 34.0176 Metric Tons  
**Total CH<sub>4</sub> emissions:** 0.0006 Metric Tons  
**Total N<sub>2</sub>O emissions:** 0.0001 Metric Tons

Total CH4 emissions CO2e:	0.0135 Metric Tons
Total N2O emissions CO2e:	0.0199 Metric Tons

Equation Inputs

Annual Natural Gas Usage:	6,416 therms
Fuel Specific CO2 Emissions Factor:	53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor:	0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor:	0.0001 kg N2O/MMBtu
Annual Volume of Fuel Combusted:	641,446 scf

<b>Unit Name:</b>	CP-Dev 699 Storke
Configuration Type:	Common Pipe
Unit Type:	OCS (Other combustion source)
Unit Description:	Hot water heaters

Common Pipe Details

Maximum Rated Heat Input Capacity:	0.04 mmBtu/hr
Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]:	Other (none of the above)

**Electricity Generation Unit Information**

Does this configuration have the capacity to generate electricity?	No
--	----

**Emission Details: Configuration-Level Summary (User entered values)**

Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons):	0
--	---

**Fuel-Specific Emissions Information**

<b>Fuel:</b>	<b>Natural Gas - Natural Gas</b>
Calculation Methodology:	Tier 1 (Equation C-1a, natural gas billing in therms)
Methodology Start Date:	2013-01-01
Methodology End Date:	2013-12-31

Fuel Emission Details

Total CO2 emissions:	92.6737 Metric Tons
Total CH4 emissions:	0.0017 Metric Tons
Total N2O emissions:	0.0002 Metric Tons
Total CH4 emissions CO2e:	0.0367 Metric Tons
Total N2O emissions CO2e:	0.0542 Metric Tons

Equation Inputs

Annual Natural Gas Usage:	17,479 therms
Fuel Specific CO2 Emissions Factor:	53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor:	0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor:	0.0001 kg N2O/MMBtu
Annual Volume of Fuel Combusted:	1,747,482 scf

**Unit Name:** CP-HRS EI Dorado  
**Configuration Type:** Common Pipe  
**Unit Type:** OCS (Other combustion source)  
**Unit Description:** Hot water heaters

Common Pipe Details

Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr  
 Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Other (none of the above)

**Electricity Generation Unit Information**

Does this configuration have the capacity to generate electricity? No

**Emission Details: Configuration-Level Summary (User entered values)**

Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

**Fuel-Specific Emissions Information**

**Fuel:** Natural Gas - Natural Gas  
**Calculation Methodology:** Tier 1 (Equation C-1a, natural gas billing in therms)  
**Methodology Start Date:** 2013-01-01  
**Methodology End Date:** 2013-12-31

Fuel Emission Details

Total CO2 emissions: 117.0788 Metric Tons  
 Total CH4 emissions: 0.0022 Metric Tons  
 Total N2O emissions: 0.0002 Metric Tons  
 Total CH4 emissions CO2e: 0.0464 Metric Tons  
 Total N2O emissions CO2e: 0.0685 Metric Tons

Equation Inputs

Annual Natural Gas Usage: 22,082 therms  
 Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu  
 Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu  
 Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu  
 Annual Volume of Fuel Combusted: 2,207,672 scf

**Unit Name:** CP-HRS Santa Catalina  
**Configuration Type:** Common Pipe  
**Unit Type:** OCS (Other combustion source)  
**Unit Description:** Hot water heaters

Common Pipe Details

Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr  
 Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Other (none of the above)

**Electricity Generation Unit Information**

Does this configuration have the capacity to generate electricity? No

**Emission Details: Configuration-Level Summary (User entered values)**

Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

**Fuel-Specific Emissions Information**

**Fuel:** Natural Gas - Natural Gas  
 Calculation Methodology: Tier 1 (Equation C-1a, natural gas billing in therms)  
 Methodology Start Date: 2013-01-01  
 Methodology End Date: 2013-12-31

**Fuel Emission Details**

Total CO2 emissions: 684.6048 Metric Tons  
 Total CH4 emissions: 0.0129 Metric Tons  
 Total N2O emissions: 0.0013 Metric Tons  
 Total CH4 emissions CO2e: 0.2712 Metric Tons  
 Total N2O emissions CO2e: 0.4003 Metric Tons

**Equation Inputs**

Annual Natural Gas Usage: 129,122 therms  
 Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu  
 Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu  
 Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu  
 Annual Volume of Fuel Combusted: 12,909,113 scf

**Unit Name:** CP-HRS Santa Ynez  
**Configuration Type:** Common Pipe  
**Unit Type:** OCS (Other combustion source)  
**Unit Description:** Hot water heaters

**Common Pipe Details**

Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr  
 Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Other (none of the above)

**Electricity Generation Unit Information**

Does this configuration have the capacity to generate electricity? No

**Emission Details: Configuration-Level Summary (User entered values)**

Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

**Fuel-Specific Emissions Information**

**Fuel:** **Natural Gas - Natural Gas**

Calculation Methodology:  
 Tier 1 (Equation C-1a, natural gas billing in therms)  
 Methodology Start Date: 2013-01-01  
 Methodology End Date: 2013-12-31

Fuel Emission Details

Total CO2 emissions: 403.6625 Metric Tons  
 Total CH4 emissions: 0.0076 Metric Tons  
 Total N2O emissions: 0.0008 Metric Tons  
 Total CH4 emissions CO2e: 0.1599 Metric Tons  
 Total N2O emissions CO2e: 0.236 Metric Tons

Equation Inputs

Annual Natural Gas Usage: 76,134 therms  
 Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu  
 Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu  
 Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu  
 Annual Volume of Fuel Combusted: 7,611,580 scf

**Unit Name:** CP-HRS Storke  
**Configuration Type:** Common Pipe  
**Unit Type:** OCS (Other combustion source)  
**Unit Description:** Hot water heaters

Common Pipe Details

Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr  
 Type of Emission Unit for this Group: Other (none of the above)  
 [Note: EGU/EGS must always be separated from other unit types]:

**Electricity Generation Unit Information**

Does this configuration have the capacity to generate electricity? No

**Emission Details: Configuration-Level Summary (User entered values)**

Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

**Fuel-Specific Emissions Information****Fuel:** **Natural Gas - Natural Gas**

Calculation Methodology:  
 Tier 1 (Equation C-1a, natural gas billing in therms)  
 Methodology Start Date: 2013-01-01  
 Methodology End Date: 2013-12-31

Fuel Emission Details

Total CO2 emissions: 797.8874 Metric Tons  
 Total CH4 emissions: 0.015 Metric Tons  
 Total N2O emissions: 0.0015 Metric Tons



Total CH4 emissions CO2e:	0.316 Metric Tons
Total N2O emissions CO2e:	0.4665 Metric Tons

Equation Inputs

Annual Natural Gas Usage:	150,488 therms
Fuel Specific CO2 Emissions Factor:	53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor:	0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor:	0.0001 kg N2O/MMBtu
Annual Volume of Fuel Combusted:	15,045,203 scf

<b>Unit Name:</b>	CP-HRS West Campus
Configuration Type:	Common Pipe
Unit Type:	OCS (Other combustion source)
Unit Description:	Hot water heaters

Common Pipe Details

Maximum Rated Heat Input Capacity:	0.04 mmBtu/hr
Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]:	Other (none of the above)

**Electricity Generation Unit Information**

Does this configuration have the capacity to generate electricity?	No
--	----

**Emission Details: Configuration-Level Summary (User entered values)**

Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons):	0
--	---

**Fuel-Specific Emissions Information**

<b>Fuel:</b>	<b>Natural Gas - Natural Gas</b>
Calculation Methodology:	Tier 1 (Equation C-1a, natural gas billing in therms)
Methodology Start Date:	2013-01-01
Methodology End Date:	2013-12-31

Fuel Emission Details

Total CO2 emissions:	619.157 Metric Tons
Total CH4 emissions:	0.0117 Metric Tons
Total N2O emissions:	0.0012 Metric Tons
Total CH4 emissions CO2e:	0.2452 Metric Tons
Total N2O emissions CO2e:	0.362 Metric Tons

Equation Inputs

Annual Natural Gas Usage:	116,778 therms
Fuel Specific CO2 Emissions Factor:	53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor:	0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor:	0.0001 kg N2O/MMBtu
Annual Volume of Fuel Combusted:	11,675,009 scf

**Unit Name:** CP-HRS Westgate  
**Configuration Type:** Common Pipe  
**Unit Type:** OCS (Other combustion source)  
**Unit Description:** Hot water heaters

Common Pipe Details

Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr  
 Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Other (none of the above)

**Electricity Generation Unit Information**

Does this configuration have the capacity to generate electricity? No

**Emission Details: Configuration-Level Summary (User entered values)**

Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

**Fuel-Specific Emissions Information**

**Fuel:** Natural Gas - Natural Gas  
**Calculation Methodology:** Tier 1 (Equation C-1a, natural gas billing in therms)  
**Methodology Start Date:** 2013-01-01  
**Methodology End Date:** 2013-12-31

Fuel Emission Details

Total CO2 emissions: 54.3084 Metric Tons  
 Total CH4 emissions: 0.001 Metric Tons  
 Total N2O emissions: 0.0001 Metric Tons  
 Total CH4 emissions CO2e: 0.0215 Metric Tons  
 Total N2O emissions CO2e: 0.0318 Metric Tons

Equation Inputs

Annual Natural Gas Usage: 10,243 therms  
 Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu  
 Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu  
 Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu  
 Annual Volume of Fuel Combusted: 1,024,055 scf

**Unit Name:** CP-Main Campus  
**Configuration Type:** Common Pipe  
**Unit Type:** OCS (Other combustion source)  
**Unit Description:** Boilers

Common Pipe Details

Maximum Rated Heat Input Capacity: 8.50 mmBtu/hr  
 Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Boiler

**Electricity Generation Unit Information**

Does this configuration have the capacity to generate electricity? No

**Emission Details: Configuration-Level Summary (User entered values)**

Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

**Fuel-Specific Emissions Information**

**Fuel:** Natural Gas - Natural Gas  
**Calculation Methodology:** Tier 1 (Equation C-1a, natural gas billing in therms)  
**Methodology Start Date:** 2013-01-01  
**Methodology End Date:** 2013-12-31

**Fuel Emission Details**

Total CO2 emissions: 17,560.9027 Metric Tons  
 Total CH4 emissions: 0.3312 Metric Tons  
 Total N2O emissions: 0.0331 Metric Tons  
 Total CH4 emissions CO2e: 6.9555 Metric Tons  
 Total N2O emissions CO2e: 10.2676 Metric Tons

**Equation Inputs**

Annual Natural Gas Usage: 3,312,128 therms  
 Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu  
 Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu  
 Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu  
 Annual Volume of Fuel Combusted: 331,133,640 scf

**Unit Name:** CP-Off Camp Embarcadero  
**Configuration Type:** Common Pipe  
**Unit Type:** OCS (Other combustion source)  
**Unit Description:** Hot water heaters

**Common Pipe Details**

Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr  
 Type of Emission Unit for this Group [Note: EGU/EGS must always be separated from other unit types]: Other (none of the above)

**Electricity Generation Unit Information**

Does this configuration have the capacity to generate electricity? No

**Emission Details: Configuration-Level Summary (User entered values)**

Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

**Fuel-Specific Emissions Information**

**Fuel:** **Natural Gas - Natural Gas**

Calculation Methodology:  
 Tier 1 (Equation C-1a, natural gas billing in therms)  
 Methodology Start Date: 2013-01-01  
 Methodology End Date: 2013-12-31

Fuel Emission Details

Total CO2 emissions: 14.6123 Metric Tons  
 Total CH4 emissions: 0.0003 Metric Tons  
 Total N2O emissions: 0 Metric Tons  
 Total CH4 emissions CO2e: 0.0058 Metric Tons  
 Total N2O emissions CO2e: 0.0085 Metric Tons

Equation Inputs

Annual Natural Gas Usage: 2,756 therms  
 Fuel Specific CO2 Emissions Factor: 53.02 kg CO2/MMBtu  
 Fuel Specific CH4 Emissions Factor: 0.001 kg CH4/MMBtu  
 Fuel Specific N2O Emissions Factor: 0.0001 kg N2O/MMBtu  
 Annual Volume of Fuel Combusted: 275,534 scf

**Unit Name:** CP-Off Camp IV Theater  
 Configuration Type: Common Pipe  
 Unit Type: OCS (Other combustion source)  
 Unit Description: Hot water heaters

Common Pipe Details

Maximum Rated Heat Input Capacity: 0.04 mmBtu/hr  
 Type of Emission Unit for this Group: Other (none of the above)  
 [Note: EGU/EGS must always be separated from other unit types]:

**Electricity Generation Unit Information**

Does this configuration have the capacity to generate electricity? No

**Emission Details: Configuration-Level Summary (User entered values)**

Total exempt annual biogenic CO2 mass emissions (must equal the sum of calculated annual exempt biogenic CO2) (metric tons): 0

**Fuel-Specific Emissions Information****Fuel:** **Natural Gas - Natural Gas**

Calculation Methodology:  
 Tier 1 (Equation C-1a, natural gas billing in therms)  
 Methodology Start Date: 2013-01-01  
 Methodology End Date: 2013-12-31

Fuel Emission Details

Total CO2 emissions: 10.3071 Metric Tons  
 Total CH4 emissions: 0.0002 Metric Tons  
 Total N2O emissions: 0 Metric Tons

Total CH4 emissions CO2e:	0.0041 Metric Tons
Total N2O emissions CO2e:	0.006 Metric Tons

Equation Inputs

Annual Natural Gas Usage:	1,944 therms
Fuel Specific CO2 Emissions Factor:	53.02 kg CO2/MMBtu
Fuel Specific CH4 Emissions Factor:	0.001 kg CH4/MMBtu
Fuel Specific N2O Emissions Factor:	0.0001 kg N2O/MMBtu
Annual Volume of Fuel Combusted:	194,353 scf

**Time And Date Report Generated:** 05/29/2014 15:04