

## **Annual Emissions Report**

Report Date: 08/06/2007 09:14 am PT

# City and County of San Francisco

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San Francisco, CA 94102 United States

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Contact:

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Industry Type:

Government - Municipal/County

NAIC Code:

SIC Code:

 ${\sf Description:}$ 

City and County of San Francisco is a consolidated city-county.

Primary Calculation

Methodologies:

EMISSIONS EFFICIENCY METRIC

Electricity Deliveries:

76.28 lbs CO2/MWh delivered (includes CO2 from owned and

purchased generation)

Net Generation:

0.00 lbs CO2/MWh net owned generation (fossil, hydroelectric, nuclear,

solar, DG)

Net Fossil Generation:

0.00 lbs CO2/MWh net owned fossil generation only

#### CERTIFIED EMISSIONS INFORMATION

Reporting Year:

2005 CA

Reporting Scope: Reporting Protocol:

General Reporting Protocol, Version 2.1 (June 2006);

Power/Utility Reporting Protocol, Version 1 (April 2005)

Baseline Year (Direct Emissions): Baseline Year (Indirect Emissions):

| Direct Emissions      | CO2e       | CO2        | CH4  | N20  | HFCs* | PFCs* | SF6  | Unit       |
|-----------------------|------------|------------|------|------|-------|-------|------|------------|
| Mobile Combustion     | 80,881.57  | 80,881.57  | 0.00 | 0.00 | 0.00  | 0.00  | 0.00 | metric ton |
| Stationary Combustion | 102,659.93 | 102,659.93 | 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          | 183,541.50 | 183,541.50 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00 | metric ton |

<sup>\*</sup> 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.

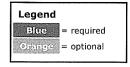
| Indirect Emissions            | CO2e      | CO2       | CH4  | N20  | Unit       |
|-------------------------------|-----------|-----------|------|------|------------|
| Purchased Electricity         | 23,314.77 | 23,314.77 | 0.00 | 0.00 | metric ton |
| Purchased Steam               | 7,041.62  | 7,041.62  | 0.00 | 0.00 | metric ton |
| Purchased Heating and Cooling | 0.00      | 0.00      | 0.00 | 0.00 | •          |
| TOTAL INDIRECT                | 30,356.39 | 30,356.39 | 0.00 | 0.00 | metric ton |

### CERTIFICATION INFORMATION

Certification Company:

ICF Consulting





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## City and County of San Francisco

Basis of Certification Opinion:

ICF initiated the certification process with a kick-off meeting with CCSF's Climate Action Coordinator and CCSF staff responsible for collecting data and estimating emissions. ICF reviewed the documentation provided by CCSF and discussed the emissions sources in detail with the Climate Action Coordinator and CCSF staff. We conducted site visits to evaluate the manner in which CCSF staff collected and analyzed the data used to estimate emissions, and to observe the data systems that provided the information used to estimate emissions. We checked the data documentation with the data entered in CARROT.

Methodological issues were discussed with Registry staff to obtain guidance. In particular, the methods used to estimate emissions associated with electricity purchases were reviewed in detail.

Based on the information provided, and using the General Certification Protocol (July 2003 Version), ICF is able to certify CCSF's emissions report without qualification against a standard of the Registry's General Reporting Protocol (Version 2.1, June 2006).

#### DESTRUMENT OF MATTERN

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

| Optional Emissions       | 616.2Xts | 602  | 0.84 | N20  | NECS | 917655 <sup>-7</sup> | 346  | 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 | -    |

<sup>\*</sup> 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:** 

See Comments on Certified Emissions Information

**Emissions Management Programs:** 

CCSF is a long time participate in ICLEI's Cities for Climate Protection Campaign. ICLEI's protocols and software for greenhouse gas emissions accounting has served as the foundation for CCSF's emissions management efforts. By registering our municipal emissions through CCAR we hope to build on this existing foundation and create and even more robust system for managing our ghg emissions.

Emissions Reduction Projects:

The San Francisco Climate Action Plan details the efforts and plans of CCSF in working to reduce our impact on the climate. The plan is available online

at: www.sfenvironment.com/aboutus/energy/cap.htm

**Emissions Reduction Goals:** 

In 2002 the San Francisco Board of Supervisors passed a resolution establishing a greenhouse gas reduction target of 20% below 1990 levels  $\,$ 

by 2012. This target applies to communitywide emissions.

### REFERENCE DOCUMENTS

Title Author Publish Date
Climate Action Plan for San Francisco A joint publiction of the SFPUC and the SF Dept.
PUP Report CCSF Publish Date
9/1/2004 12:00:00AM
10/18/2006 12:00:00AM