

# San Francisco Sheriff's Dept. Climate Action Report 2012-2013 Data Year





# San Francisco Sheriff's Department Climate Action Plan FY '12-'13

Author: Dan Santizo - Sheriff's Bureau of Building Services

## Table of Contents

<b>1. INTRODUCTION</b>	<b>Pg. 3</b>
<b>2. SHERIFF'S DEPARTMENT PROFILE</b>	<b>Pg. 3</b>
<b>3. DEP. TOTAL ENERGY CONSUMPTION AND CARBON FOOTPRINT</b>	<b>Pg. 4</b>
<b>A Energy by Type and Facility</b>	
<b>B FY 2012-2013 Facilities Energy Consumption &amp; Carbon Emissions</b>	
<b>C 5-Year Historical Analysis – Facilities Energy and Carbon</b>	
<b>D Vehicles List Fuel Data</b>	
<b>E FY 2012-2013 - Vehicle Fuel Consumption</b>	
<b>F 5-Year Historical Analysis Fuel Consumption &amp; Carbon Emissions</b>	
<b>4 EFFORTS IN FACILTIES ENERGY REDUCTION</b>	<b>Pg. 8</b>
<b>A. Energy Efficiency Projects</b>	
<b>B Benchmark &amp; Compliance</b>	
<b>C Commercial Lighting Ordinance</b>	
<b>D Information Technology</b>	
<b>E Renewable Energy</b>	
<b>5 EFFORTS IN WATER USE</b>	<b>Pg. 10</b>
<b>6 EFFORTS IN VEHICILE FUEL REDUCTION</b>	<b>Pg. 12</b>
<b>7 OTHER SUSTAINBABLE PRACTICES</b>	<b>Pg. 13</b>
<b>8 SFSD CONCLUDING OBSERVATIONS</b>	<b>Pg. 14</b>



# San Francisco Sheriff's Department Climate Action Plan FY '12-'13

## A. INTRODUCTION

- A. The Total SFSD Carbon Footprint is 3,133 metric tons of CO2 emissions. This is a CO2 emission reduction of over 203 metric tons (mt) – nearly a 6% reduction from FY '11-'12. According to the Google/Docs the cost of non-vehicle energy and water/discharge in 2012-2013 - the SFSD paid \$1,169,255 in energy bills due to our buildings. This is approx. 5% less than last year or approx. \$75,000 less. The SFSD continues to conserve energy and funding.
- B. The SFSD is committed to increase facility efficiencies in order to save basic fuel sources and water. The SFSD will also commit to more staff outreach. Various energy efficiency projects were completed at various facilities. In our ongoing effort to meet the zero waste guidelines The City has begun a pilot composting program with San Bruno RECOLOGY.
- C. Environmental goals: The Sheriff's Department goals to reduce carbon footprint last year has resulted in reduced energy use. This year the SFSD is committed to more staff participation and training.

## B. DEPARTMENT PROFILE

- A. Mission - San Francisco Sheriff's Department (SFSD) Mission is to be an effective and integral part of civil and criminal law-enforcement efforts of the State of California / City and County of San Francisco. The Department will accomplish its mission through competent performance by its deputized and support staff, all in accordance with the powers established by the laws of the State of California and the Charter & ordinances of the City and County of San Francisco. As an integral part of the community and a steward of taxpayer resources the SFSD seeks to become more cognizant, respectful, efficient and transformative in the use of resources, its staff and very importantly to the persons, remanded to our jurisdiction, by law.
- B. SFSD Budget was \$185,845,291 million dollars ('13-'14.)
- C. The SFSD has 1,055 employees. ('13-'14)
- D. San Francisco Sheriff's Department Facilities:
  - 1. County Jail #1 & #2 circa 1994. 425 7<sup>th</sup> Street, SF, CA, 256,000 square feet.
  - 2. CJ #3 & 4, 1950s era. 850 Bryant Street, SF, CA 124,456 sq ft. This is a Real Estate Dept. Building of which they have assessed approx. 24% of the HOJ to the SFSD.
  - 3. CJ#5 completed 2006, 1 Moreland Dr, San Bruno, CA, 283,257 sq ft.
  - 4. CJ#6, completed 1989, 1 Moreland Drive, San Bruno, CA, 50,000 sq ft.
  - 5. Learning Center, remodeled 1998, 1 Moreland Dr, San Bruno, CA, 14,000 sq ft.
  - 6. Women's Reentry Center, 1950s era bldg, 930 Bryant Street, S F, CA. 5,920 sq ft.
  - 7. Prisoner Legal Services, 555 7<sup>th</sup> St, SF. (2671 sq. ft.) SFSD is assessed 8% of this facility.
  - 8. Community Programs, at 70 Oak Grove Street, S F, CA, approx. 10,100 sq ft.
  - 9. Sheriff's Training Facility, at 120 14<sup>th</sup> Street, SF, CA, approx 14,760 sq. ft
  - 10. General Hospital - Ward 7D/7L, 1001 Potrero Avenue, SF, CA.
  - 11. S F City Hall, Administrative Offices and Building Security at 11720 sq. ft.
  - 12. 25 Van Ness. ISU Unit. (3091 sq. ft.). This admin office is assessed 2% of energy values.

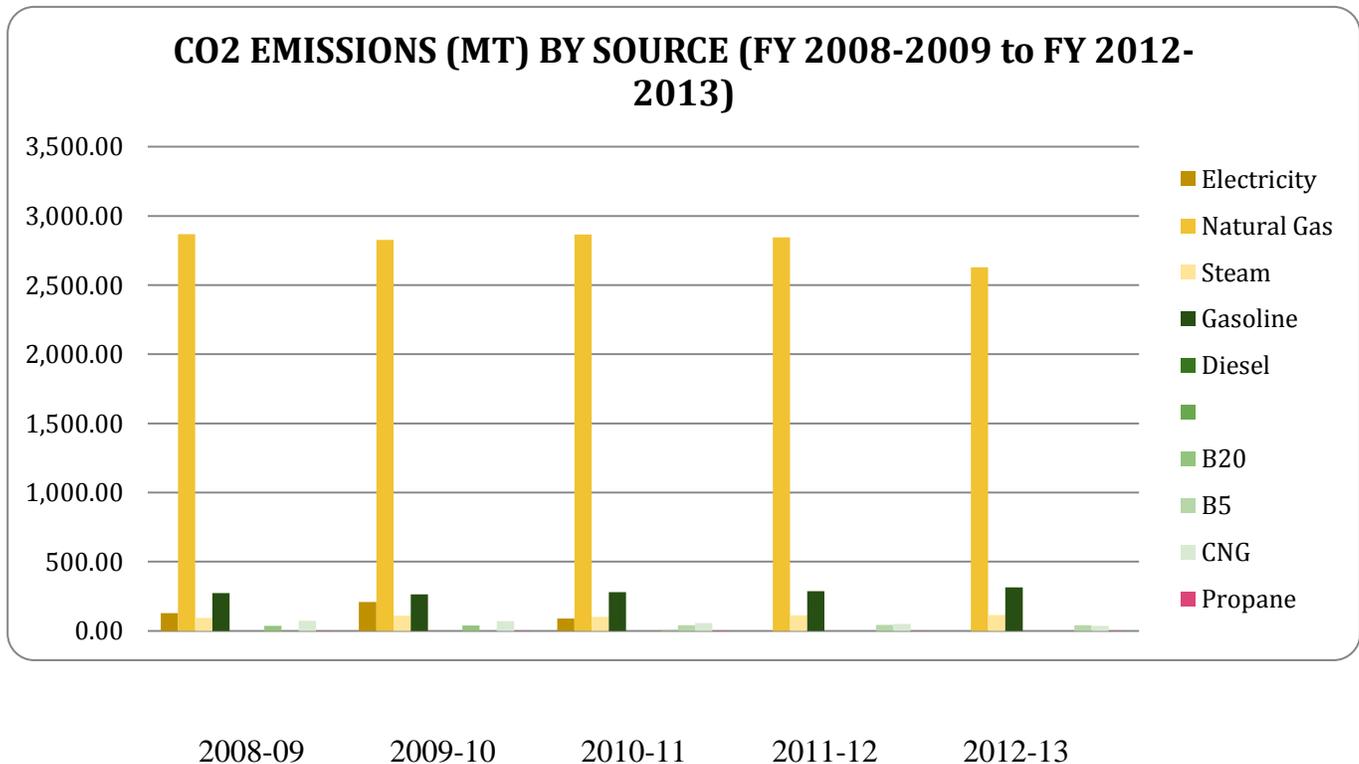


# San Francisco Sheriff's Department Climate Action Plan FY '12-'13

- E. Fleet: The SFSD has a total of 70 active vehicles another 9 have been turned in for a status of "Not to be replaced". The SFSD/GoogleDocs needs to be updated.
- F. The SFSD Contact for this report is Dan Santizo at 425 7<sup>th</sup> Street, [dan.santizo@sfgov.org](mailto:dan.santizo@sfgov.org):
  - 1. Contributions to produce this plan have been by:
    - a. Zero Waste/Recycling coordinator: Deputy Koehler 554-7214 rick.koehler@sfgov.org
    - b. The Fleet Group: Captain Jackson and Senior Deputy Conway.
- G. Other Sustainability: The SFSD is presently planning a replacement jail that will replace the two jails in the Hall of Justice. It is presently planned to be LEED Silver.

## 4. DEPARTMENT TOTAL ENERGY CONSUMPTION AND CARBON FOOTPRINT

- A. The facilities listed on the Building Energy category in Google/Docs are generally accurate.
  - 1. County Jail #1 & #2 are actually at 425 7<sup>th</sup> Street. The only odd address is the 427 7<sup>th</sup> Street, This is for a small meter for a fire pump.
  - 2. The 850 Bryant St Facility lists the SFSD Property Rm. The Property room was handed over to the SFPD years ago and may still be listed as SFSD responsibility.
  - 3. Google/Docs indicates the SFSD has over 1000 sq-ft more than last year in City Hall.
  - 4. This report included historical analysis and future planning within the context of each facility sub-heading below. The five year chart of the SFSD data is shown below- please note the lower trending electrical use and note the higher trending gasoline use.:



- B. **FY 2012 – 2013 Energy Consumption and Carbon Emissions:** Since the peak year of '08-09 the SFSD Carbon Footprint has dropped approximately 2% every year. The SFSD had a total



# San Francisco Sheriff's Department Climate Action Plan FY '12-'13

CO2 emission of 3,133.84 metric tons. Although improvements are modest some issues come to mind: Although the inmate population has dropped these past few years the savings in energy are not directly proportional – facilities still need to be fully heated even though we are only occupying a portion of the jails as was done in CJ#2. The SFSD is committed to improved efficiency but if the efficiency gains are overtaken by a seasonal increases in fuel consumption then the data would indicate that we are not trending properly and thus not good stewards. The graph below illustrates the Co2 emissions (MT):

	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013
<b>Total CO2 (mt)</b>	<b>3,470.44</b>	<b>3,517.33</b>	<b>3,436.58</b>	<b>3,337.09</b>	<b>3,133.84</b>

### C. 5-Year Historical Analysis of Facilities Energy Consumption & Carbon Emissions – By Energy Type per facility

1. **General Energy:** Elect, Gas & Steam Use/Emissions: '12-'13 data from Google Docs/CCSF -Climate links. The SFSD has decreased its total Building energy usage (co2) by 203 metric tons or 6% from last year, its lowest in 5-years to 3,133.84. Since the 2009 data, SFSD building energy usage has been dropping around 2% a year. The following summaries are energy per facility.:
  - a. **Electricity:** The SFSD used approx. 11,061,942 KWH of electricity, a **usage improvement of approx. 590,000 kw-hr or 5%**. This was considered a CO2 footprint (CF) of 0 due to Hetch-Hetchy designation that the source is green. Despite the CCSF position that energy sourced from the Hetch-Hetchy system is carbon neutral The SFSD will continue to consider this energy source as a focus for reduction and efficiency.
    - i. **County Jail #1 & #2 (425 7<sup>th</sup> St):** Data **indicates a nearly 10,000 kwh decrease in electrical use.** This may be in part be due to the reduced kitchen usage at the jail. Energy usage data still being compiled by PUC – reports have not been received. From three years ago, when the energy efficiency projects started until recently when they were completed, the downtown jail energy usage appears to have trending downward almost 10%.
    - ii. **Women's Resource Center (930 Bryant):** **Electricity use appears to have increased again by 9% from last year to 49,176 kwh.** Although the systems were modernized the last couple of years, more people are being provided services at this facility and thus more computers, cooking etc. In sum the updated systems should start to reveal actual savings this coming year. In completing efficiency projects natural gas usage was cut in half, but the building has been utilized more and thus we are experiencing a spike in electrical usage.
    - iii. **Jails #3/ #4 - HOJ (850 Bryant)+:** Electricity use has gone down by 193000 kwh. SFSD continues to replace TV's w/Energy Star hi-efficiency flat screens. SFSD also vacated the 6<sup>th</sup> floor jail yet the averaging of our energy usage (into the average of 25% due to our occupancy of the HOJ) would dilute our actual savings. The SFSD portion of energy usage appears to be dropping steadily. Some of this is likely attributable to reduced number of inmates these past few years but certainly many efficiency project have also been done.



## San Francisco Sheriff's Department Climate Action Plan FY '12-'13

- iv. **Jails #5/#6 & The Learning Center (1 Moreland Dr.) San Bruno:** Early last year the SFSD completed the switchover of the CJ#3 main power grid (to the new CJ#5 grid). Data indicates energy use went down by 383,526 kwh. Although the CJ#6 facility remains without inmates it is used for training and offices remain. In addition to the demolition of the old jail (which had many energy using functions until the end). SFPUC and the CJ#3 demo projects are the likely sources of the reduced energy consumption.
  - v. **San Bruno Harry Tracy - Water-pumping Station:** Noteworthy mention and Electricity has been trending downward steadily for the past three years with an improvement of over 7% or 2000 kwh this past year alone. Likely that water tank filling has been refined. This is all despite a slight water-use spike this past year likely due to at least three pipe-line failures.
  - vi. **25 Van Ness Admin Offices – City Building: 5-year trend:** Data indicates electricity use continues to trend downward.
  - vii. **City Hall:** SFSD offices had a significant increase in energy usage. The facility averaged steam load appears very high for the rather small area that the SFSD occupies. For the first few years the energy-use trend was downward, this past year City Hall has experienced an energy use spike. This trend should be communicated to the City Hall management.
  - viii. **SFSD Training Fac. 120 14<sup>th</sup> St – Leased Building:** Electrical use has gone down by 11,000 kwh. The building owner has increased maintenance.
  - ix. **SFSD Programs 70 Oak Grove – Leased Building:** Electrical use has dropped strongly by over 6,000 kwh. The building owner has increased maintenance.
  - x. **The SFSD office at 555 7<sup>th</sup> Street:** Electricity use went down by over 5000 kwh.
- b. Natural gas:** SFSD reduced gas usage by approximately 40,000 therms this past year which is a reduction of about 200 metric tons of co2.
- i. **County Jail #1 & #2 (425 7<sup>th</sup> St):** Gas use increased slightly likely due to the kitchen being used for short periods. The SFSD has purchased two new dryers, which have moisture-sensing technology to turn into an off-cycle at the right time. After a significant drop in usage we have leveled off at around 13000 therms.
  - ii. **Women's Resource Center (930 Bryant): 5-year trend:** Gas usage peaked in 2009 at 5800 therms, we have now leveled off (tiny bump up) at 2500 therms, nearly half of what it was a few years ago. This correlates to expected efficiencies of the new boiler/water heaters. BUT the control/response system as a whole was not working well last year and the tenants resorted to using electricity based heating! PUC audits have not been provided as of yet.
  - iii. **CJ#3 & #4: Hall of Justice: 5-year trend:** An overall decrease of gas usage by approx. 20000 therms. This is likely due to the new HOJ control systems and slightly less cooking.
  - iv. **County Jails #5/ #6 - San Bruno:** Gas usage decreased nearly 15000 therms. The overall trend is up and down but of significant note is that the PUC energy efficiency project were completed last year.



## San Francisco Sheriff's Department Climate Action Plan FY '12-'13

- v. **25 Van Ness Admin Offices: 5-year trend:** The small office that the SFSD occupies would render data attributable to us as nearly inconsequential but the data indicates a decrease of nearly 100 therms and an overall trend of reduced usage. Being a RED facility SFSD is not aware of factors that could account for this trend other than an overall average building reduction.
  - vi. **City Hall:** This year natural gas has not been listed for our analysis.
  - vii. **SFSD Training Fac. 120 14<sup>th</sup> St:** Although Data indicates a slight decrease of natural gas usage, **compared to a low year of 2009 where we used nearly 6500 therms, we are now using nearly 10,000 therms! We cannot figure as to why?**
  - viii. **SFSD Program Facility – 70 Oak Grove (Leased):** After a high usage of gas in 2011 of 3500 therms we are now using 2200 therms - a decrease of gas by 1300 therms. The building owner is maintaining the facility more often.
  - ix. **The small SFSD office at 555 7<sup>th</sup> Street: 5-year trend:** Data suggests that gas usage has again gone up by another 20% from last years increase of 60%! We occupy a small part of the facility – only 9% so if our average increased this much then we can only surmise that something else is happening here that is not being addressed or at least not under our control.
- c. **Steam:** The SFSD used 1.345-million lbs of steam with a CF of 115.26. Steam use has gone up over 3%.
- i. Most of the steam, over 1.3 million lbs is noted in Google/docs to be used by the City Hall offices of the SFSD. Since the SFSD offices only occupy around 5.5% of the facility that means that the entire City Hall used over 24 million lbs? Staff reports that space temperature control is very uneven in the SF City Hall.
  - ii. **County Jail #1, #2, #3 & #4:** Steam Saving Future: Some steam leaks that the SFSD is responsible for have been found and are being repaired. The source of steam and nearly all of this system is in the control of RED. RED does not include us nor inform us of efficiency efforts that they perform. Laundry wash ozone injection would eliminate the use of hot water for the laundry.
  - iii. **Please note that the SFSD is a consumer of Steam at the HOJ yet the data only indicates an overall use of energy. A correction factor may need to be made.**

### D. **Vehicle List and Fuel Data Verification Statement**

1. The SFSD has verified the vehicle list and some changes have occurred in the last month. The SFSD has turned in without credit a number of vehicles. Presently the SFSD is listed to have 61 cars, 7 lt trucks, 3 lt vans, 6 suvs, 6 patrol cars, 5 buses, 30 hd vans, 2 hd trucks, 3 large trucks, 1 off road vehicle and 7 pieces of heavy equipment.
2. The SFSD attempts to connect the SFSD San Bruno gas station to the central shops di not work this past year. The City vendor failed to support the city system. The SFSD also did not compile usage records. The SFSD may attempt to set-up its' own system.



# San Francisco Sheriff's Department Climate Action Plan FY '12-'13

**E. FY 2012-2013 Vehicle Fuel Consumption and carbon Footprint**

1. The SFSD has increased its fuel consumption (mostly in gasoline) by over 2% this past year to a 5-year high of 390 mt.

**F. 5-Year Historical Fuel Consumption Analysis.**

1. The SFSD in '09-'10 had a five year low of 373 mt. We have now risen to over 390 mt of fuel based carbon footprint. This data could indicate a great place to focus on overall fleet efficiency improvements. The Co2 emissions is illustrated in the chart below

	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013
Gasoline	272.97	263.57	280.18	287.40	314.03
Diesel	0.00	0.00	0.00	0.00	0.00
B100 equivalent	0.00	0.00	0.00	0.00	0.00
B20	35.28	38.65	3.85	0.00	0.00
B5	0.00	0.00	41.11	42.14	40.02
CNG	73.66	70.77	56.64	50.77	36.10
Propane	0.19	0.40	0.09	0.37	0.25
<b>Total Mobile Fuel CO2 (mt)</b>	<b>382.11</b>	<b>373.39</b>	<b>381.87</b>	<b>380.68</b>	<b>390.40</b>

2. This chart below illustrates the actual fuel usage in gallons. Clearly gas is the high item;

	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013
Gasoline (gal)	30,993	29,926	31,811	32,631	35,655
Diesel (or equivalent) (gal)	0	0	0	0	0
B100 equivalent (gal)	0	0	0	0	0
B20 (gal)	4,346	4,761	474	0	0
B5 (gal)	0	0	4,265	4,372	4,151
CNG (GGE)	12,066	11,592	9,278	8,316	5,914
Propane (gal)	33	69	16	64	44

**4. EFFORTS IN FACILITY ENERGY REDUCTION**

**A. Electrical Projects Energy Efficiency and Retrofit Projects**

1. **General Jails:** The SFSD/DPW-BBR is retrofitting lights in our downtown jails by installing new LED fixtures. Phase 1 is starting shortly. The SFSD is paying for this project from capital improvement funds. SFSD staff continues to replace TV's.
2. **Women's Reentry Center:** SFSD to refine zoning for better temperature control. Large south facing window could use reflective coating. Benchmarking report states a low Energy Star rating. SFSD has upgraded the facility to the extent that we could.
3. **At the Leased - 120 14<sup>th</sup> Street Training Facility** - SBBS will use in-house staff to decommission server cooling systems in the basement of the facility.



# San Francisco Sheriff's Department Climate Action Plan FY '12-'13

4. The SF PUC: Has assisted us on projects in the past and we are considering more projects. The SFSD is proposing more 425 7<sup>th</sup> St. energy efficiency projects for its heat exchangers and exhaust fans.

## **B. Energy Benchmarking and Compliance with Energy Performance Ordinance**

1. The Energy Benchmark Report was found at:  
<http://sfwater.org/modules/showdocument.aspx?documentid=4139>.
2. The SFSD is aware of lighting regulations for all of our new projects. All of our projects and retrofit efforts take these mandatory requirements into consideration.
3. The SFSD facilities apparently are categorized as Public Safety Facilities on the page-12 graphs. These types of buildings account for approx. 3.5% of the municipal sq-footage and use approx. 4.2% of Municipal energy.
4. The EIU of the Facility Category "Jails" (inclusive of Juvenile Hall) – on p. 25 of the report the jails averaged an EUI of 115 - the jails at San Bruno were high at 152 we also had the low at the downtown jail at 41 EUI. SFSD sponsored education space at 70 Oak Grove is listed on page 18 has an EUI of 61.2 and trending downward. The Youth Guidance Center (Juvenile Probation) was rated at a 143 EUI. SFSD will contact the Dept of the Environment to recheck some data and clarify some facility listings and operational data. Of significant note though is that the jails are clearly trending downward in EIU since 2011.
5. Only two of our jails were benchmarked the downtown jail (just one bldg.). The Benchmark only has one other building in the report – the Youth Guidance Center.

## **C. Compliance with the Commercial Lighting Efficiency Ordinance**

1. The SFSD participated in four SF PUC projects to upgrade lighting at three of our facilities. The SFSD believes we comply. At the HOJ, all the light bulbs/ ballasts were replaced over three years ago. At CJ#6, SF PUC changed all the Jail Dorm lights and office lights to comply with modern standards. SFSD met with SF PUC engineers and consultants in CJ#1-#2 and the new CJ#5 in San Bruno. **We will contact SF PUC for documentation on these issues. The SFSD is aware of the ordinance, we will acquire compliance documentation.**
2. The SFSD leases smaller buildings through RED. These are buildings were remodeled recently and permits were pulled to perform the upgrades. The SFSD will attempt to acquire documentation for compliance.

## **D. Information Technology**

1. **SFSD IT**: SFSD IT group is installing power saving features as their standard practice in all computer new installations. All new servers will be energy star rated. Security systems monitors are being replaced with more efficient flatscreens and power supplies as well. SFSD is modernizing its entire IT system with energy efficient servers. I do not have the data to provide information as it applies to virtualized servers.
2. DT Contact: Mr. Brian Roberts, 415-554-0861, [brian.roberts@sfgov.org](mailto:brian.roberts@sfgov.org).
3. SFSD IT: Lt Hardy 415 575 4449, [Dave.Hardy@sfgov.org](mailto:Dave.Hardy@sfgov.org)



# San Francisco Sheriff's Department Climate Action Plan FY '12-'13

4. Implementation of the electronic pay stub system.
5. Default settings for copy machines are to hibernate after two minutes and 2-sided printing. Confirmation at the billing confirmations each quarter.

## **E. Renewable Energy**

1. The SFSD does not presently have any plans for wind, solar or other renewable energy projects. WRC roof is a potential site for solar power

## **F. Green Building**

1. The SFSD is planning on having its' next jail to be Leed Certified.

## **5. WATER CONSUMPTION, EFFICIENCY AND CONSERVATION**

### **A. Water Data Verification**

1. The list of accounts is accurate. The SFSD will only clarify the irrigation category needs to be listed for the CJ#5 Facility in San Bruno.

### **B. Water: Google /docs Data indicates SFSD consumed approx. 41,214,647 gallons of water, which is only a decrease of 2.5%. SFSD has begun SF Mayor's Office request to provide Water Conservation Plans. SFSD maintenance staff are providing inventories throughout our facilities for the required documentation.**

1. **County Jail #1 & #2:** Data indicates that the downtown jail has used 8,156,940 gallons of water – a reduction of nearly 7%. This is even with a full occupancy and partial kitchen use. **Water Saving Future:** SFSD is in process with a pilot program to install high efficiency toilet flushing systems (ICON systems) to CJ#1 and, #2.
2. **Women's Resource Center:** Water used has dropped significantly to nearly 47,376 gal. from last years use of of 154,836 gal! Various remodels were completed last year including new bathrooms retrofits. All water using facilities have been modernized and outdoor faucets have been secured. **In the last two years the SFSD replaced a significant portion of the fire sprinkler lines which may account for some of the Fire Water usage spike – but we do not know why so much water is indicated for this category.**
3. **CJ#3 & #4- HOJ (RED Bldg):** Data indicates jails have reduced water usage by 12%. Likely due to reduced inmate population. Analysis is difficult without sub-metering. **Water Saving Future:** SFSD plans more HOJ/RED Management coordination.
4. **County Jails #5 & #6:** in San Bruno: The address of 2-\*\*\* Temple - the Harry Tracy pump station. We have used and nearly 2% more water than last year or nearly 500,000 gallons. The only anomaly has been that we experienced two major line breaks and it was a dryer year, which caused additional irrigation. **This brings up the issue that RED facilities have a category for irrigation, which offsets the water discharge rates – The San Bruno site has a significant farm operation that used much water. SFSD will investigate this “irrigation” tracking process and inform SF PUC/Water to our water usage.** The wastewater charges for this site are paid to the Daly City jurisdiction since the jail discharges sewage to their system. **Water Saving Future:** Separate water meters for CJ#5, #6, and the Learning water would help in assessing savings. CJ#6 planned toilet flush-o-meter retrofits.



# San Francisco Sheriff's Department Climate Action Plan FY '12-'13

5. **SFSD Programs at 70 Oak Grove** – nearly 7000 gallons of water were again saved last year. This may be attributable to the reduced vehicle washing at this facility. Some vehicle washing has resumed. Fewer post release detainees have also been served by the SFSD.
6. **The SFSD Training Center:** Data indicates that the training facility is using over 40,000 gallons more this year from last. No known reasons – No anomalies found!

**C. 4-Year Water Consumption and Wastewater Discharge**

1. **Waste Water Discharge:** The SFSD total discharge is 13,153,528 which is over 1 million gallons of water saved from last year or 2.4%. SFSD will gather the Daly City billing records. Wastewater volumes have been dropping steadily as well for the past 4-years with a near 9% drop this past year.

4- year Water Usage Graph:

Annual Wastewater Discharge (gal)			
FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013
20,013,104	17,502,368	14,570,077	13,153,528

4-Year Waste Water Graph

Annual Water Consumption (gal)			
FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013
50,008,110	39,477,698	42,274,401	41,214,647

**D. Water Conservation.**

1. SFSD continues to repair broken water lines. Response times by facility maintenance to correct over-flowing toilets has improved. The SFSD is applying for a water conservation grant to retrofit inmate toilet flushometers to .9-gallon flush type.
2. Repairs to toilets are made with retrofit kits for reduced flow diaphragms.
3. SFSD is adjusting all the inmate shower timing to fine tune appropriate flow.
4. SFSD is complying with the Mayor's directive to have a water conservation plan.

**6. EFFORT IN VEHICLE FUEL REDUCTION**

**A. Healthy Air and Clean Transportation Ordinance:**

“The Healthy Air & Clean Transportation Ordinance (HACTO) is a mandate that all City employees and departments should use sustainable transportation such as public transit, walking, ridesharing or biking to minimize single-occupancy vehicle transportation as much as possible and, when it is not, to use green vehicles. To implement this ordinance, each department is required to develop a Transit First plan outlining how your department will implement the various sustainable options to reduce vehicle



# San Francisco Sheriff's Department Climate Action Plan FY '12-'13

usage and a Transit First report on implementation. For departments that manage their own fleet of vehicles, fleet size must be reduced by 5% annually.”

**The SFSD was late in finalizing the status of vehicles that were being held in “credit” status. The SFSD is in compliance with the HACTO fleet reduction requirement. SFSD is presently transitioning command structure for the Fleet. The SFSD is in full review of our fleet at this time for this next year’s submission.**

## B. **Transit First Campaign**

The SFSD has selected to increase our outreach efforts to better inform SFSD staff about the large number of transit options. We have begun to hand out postings and committed to make available the resources that any employee may need. Practical issues have come up regarding deputies standard issue gear and as to how impractical taking transit options could be. This author communicated that any information will be disseminated for all to consider.

SFSD is developing its own pool of vehicles to allow various departments’ access to available vehicles in the HOJ campus area.

## C. **SFSD Vehicle Fleet Fuel BIO-Diesel Usage:**

The SFSD uses fuel per SF City DPW yards. The SFSD believes this to be B-20. The Google Docs states however that B-20 was used up to 2011 and ever since we have/are using B-5.

The SFSD Garden Project uses approx. 800 gal. a year in farm grade diesel for its tractors.

## 7. **OTHER SUSTIANABLE PRACTICES**

### A. **Zero Waste**

1. The SFSD Zero Waste coordinator has met in the field at all the sites to emphasize cooperation and vigilance with sorting.
2. The SFSD has just started a pilot program to compost at the San Bruno Facility kitchen. Initial start-up issues are that flies are congregating and propagating in the bins and the garbage collection areas. SFSD is regrouping to solve these issues.
3. It would be a fair statement to make that all SFSD facilities are recycling and composting. We will continue to monitor the progress and diligent adherence to recycling guidelines.

### B. **Carbon Sequestration**

1. The SFSD is the steward of federally protected wetland. We work with a California State registered Biologist to maintain the biodiversity of that wetland in the San Bruno Facility.
2. The SFSD Garden Project provides services throughout CCSF lands to maintain watershed and to remove invasive species. This operation also runs the farm the San Bruno site.
3. The SFSD has started a pilot program to introduce horticultural practices to inmates in the old CJ#6. The inmates have built planters and grown vegetables.

### C. **Community Impact Reduction**

1. In addition to the commitments and measures already taken, sponsors & team leaders to foster a supportive, proactive backdrop for future implementation of green practices.



# San Francisco Sheriff's Department Climate Action Plan FY '12-'13

2. SFSD currently complies with the strict regulations limiting the use of the diesel generator due to the proximity to the elementary school on 7<sup>th</sup> Street. SFSD further complies with BAAQMD guidelines for generator run-time operations.
3. Expand environmental curriculum in inmate classroom activities.
4. The SFSD provides visitor shuttle service from the City to CJ#5 the San in the weekends.
5. Of critical note regarding the SFSD role in our community. The Sheriff has indicated a commitment to expand inmate access to their families through more visitation hours and other means of family contact.

## **D. Resiliency and Adaptation**

1. The SFSD supports projects and planning that involve efficiency and reflect good resource management practices. The SFSD has been implementing many projects the past two decades and has developed good working relationships with professionals in the design world such as engineering planners and architects.
2. The SFSD is in the preliminary planning phases of a replacement jail to the Hall of Justice facilities. We fully intend to advocate for and be partners in the responsible planning of the project for sustainability, maintainability and low impact resource management.
3. The SFSD has various guidelines to provide for resiliency. We have some "food-banking" ability, stand-by fuels for power generation, alternate fueled equipment, water tanks for sustained loss of resources.

## **E. SFSD Purchasing**

This author attended the Green Purchasing Conference this past year. SFSD considers green purchasing an integral portion of the greening of our buildings. SFSD is still consolidating the storekeeper operation and is committed to modernizing its purchasing process and is committed to researching green purchasing practices. SFSD is aware of Ordinance and the requirements to buy green. The SFSD purchasers are aware of the <http://www.sfapproved.org> site

1. SFSD is still in process of developing a Green Product Purchasing policy.
2. No known SFSD score on the Green Purchasing this year.

## **8. REPORT SUMMARY, GOALS & CONCLUDING OBSERVATIONS**

- A. Summary and Improvements:** Overall, the SFSD energy/resource usage trending (even with individual facility spikes) appears to be improving. SFSD Building Services Staff continues to work with PUC engineers to plan and execute environmentally responsible projects. The SFSD is starting alternative energy training seminars for the inmates.
- B. Further Investigations:** Due to SFSD inability to fully isolate anomalies or energy spikes the SFSD has started to plan for additional metering at some of the facilities.
- C.** The Sheriff's Department again continues to make steady progress in various areas related to reducing our environmental impact in its many forms. The Department this year is on track to plans future projects with sustainability as a guiding principal. The SFSD will continue to perform outreach to our employees regarding energy consumption, commute alternatives and recycling programs for the upcoming year. \*\*\*\*