



San Francisco Public Library

San Francisco Public Library
Department Climate Action Plan
March 30, 2012

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1. INTRODUCTION

As the most democratic of public institutions, the public library aims to address the problem of environmental equity by ensuring that every community in San Francisco has access to accurate and relevant information, resources, and options for selecting lifestyle choices that are healthy and sustainable. Poor and underserved communities are still least likely to have access to essential information, either due to real and perceived economic barriers or language and cultural barriers.

SFPL implemented and continues to prioritize our system-wide, multifaceted “Green Stacks” sustainability initiative to increase community access and awareness and ensure that the library environment is a positive, healthy model of the larger community ecosystem. The SFPL/Green Stacks strategy focused on opening LEED buildings, developing the LEED public education program, and initiating an environmental literacy curriculum, while continuing a high-level of quality public programming.

2. DEPARTMENTAL PROFILE

Departmental Mission

The San Francisco Public Library system is dedicated to free and equal access to information, knowledge, independent learning, and the joys of reading for our diverse community.

Departmental Budget

\$86,469,190

Number of Employees

685.67 FTE

Facilities

The San Francisco Public Library Occupies 29 buildings citywide, consisting of the Main Library, Support Services Building, and branch libraries. The Main Library is a civic landmark located across Civic Center Plaza from City Hall, and comprises an area of 376,000 square feet. The Support Services Building at Ninth and Howard, at 45,000 square feet, is the second largest building in the system, and is the location of the Collections and Technical Services Division, Chief of Branches offices, and Office of Children and Youth Services. Branch Libraries are located throughout the City, and vary from approximately 4,500 to 18,000 square feet in size.

Anza	550 37th Avenue
Bayview/Anna E. Waden	5075 3rd Street
Bernal Heights	500 Cortland Avenue
Brooks Hall	250 Dr. Carlton Goodlett Way



San Francisco Public Library

Chinatown	1135 Powell Street
Eureka Valley / Harvey Milk	1 Jose Sarria Court
Excelsior	4400 Mission Street
Glen Park	2825 Diamond Street
Golden Gate Valley	1801 Green Street
Ingleside	1298 Ocean Avenue
Main Library	100 Larkin Street
Marina	1890 Chestnut Street
Merced	155 Winston Drive
Mission	300 Bartlett Street
Mission Bay	960 4th Street
Noe Valley/Sally Brunn	451 Jersey Street
North Beach	2000 Mason Street
Ocean View	345 Randolph Street
Ortega	3223 Ortega Street
Park	1833 Page Street
Parkside	1200 Taraval Street
Portola	380 Bacon Street
Potrero	1616 20th Street
Presidio	3150 Sacramento
Richmond / Sen. Milton Marks	351 9th Avenue
Sunset	1305 18th Avenue
Support Services Building	190 Ninth Street
Visitation Valley	45 Leland Avenue
West Portal	190 Lenox Way
Western Addition	1550 Scott Street



San Francisco Public Library

Description of Fleet

The San Francisco Public Library Fleet consists of 23 vehicles, and includes 2 general purpose passenger vehicles, 6 bookmobiles, 4 delivery trucks, and other vehicles with specific missions, such as custodial service, engineering repairs, and security. All vehicle service and fueling is arranged for via a work order with the City's Central Shops.

Vehicle Number	Year	Make	FUEL	Mission	In-Service Date	Age
631600	1992	INTERNATIONAL	B20	Bookmobile - LOW	11/2/1992	19.4
631601	1994	CHEVROLET	B20	Bookmobile - Children's	12/23/1994	17.3
631602	1997	INTERNATIONAL	B20	Bookmobile - BLIP	7/1/1997	14.7
631611	2005	BLUEBIRD	B20	Bookmobile - BLIP	1/25/2005	7.2
631612	2005	BLUEBIRD	B20	Bookmobile - BLIP	9/23/2005	6.5
63100003	2010	BLUEBIRD	B20	Bookmobile	7/28/2011	0.7
631100	2002	HONDA	CNG	Facilities Division	4/12/2002	10.0
631502	2002	FORD	CNG	Van - IT	4/22/2002	9.9
631608	2002	FORD	CNG	Van - Custodial	4/22/2002	9.9
631609	2003	FORD	CNG	Delivery Services	9/11/2003	8.5
63100001	2009	FORD	CNG	Delivery Services	3/31/2009	3.0
631500	1997	FORD	GAS	Van - Security	7/14/1997	14.7
631501	2000	FORD	GAS	Van - Media Services	4/17/2000	12.0
631503	2002	FORD	GAS	Pickup - Engineering	5/24/2002	9.8
631514	1995	GMC	GAS	Pickup - Painter	11/16/1995	16.4
631604	1996	FORD	GAS	Van - Electrician	3/22/1996	16.0
631605	1996	FORD	GAS	Van - Custodial	6/24/1996	15.8
631606	1999	FORD	GAS	Delivery Services	5/19/1999	12.9
631610	2005	FORD	GAS	Delivery Services	10/25/2004	7.4
631613	2007	FORD	GAS	Delivery Services	10/1/2007	4.5
631Y514	1999	DODGE	GAS	Pickup - Engineering	8/20/1999	12.6
631101	2007	TOYOTA	HYBRID	Branch Division	3/9/2007	5.1
63100002	2011	FORD	EV	Project Read	8/31/2011	0.6
						11.2
Special Purpose						
631099	1992	CUSHMAN	GAS	Cart Custodial	4/24/1992	19.9
631607	1999	YALE/TROJAN	EV	Forklift	3/1/2000	12.1



San Francisco Public Library

Departmental Contact Information – Lead Staff on DepCAP

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Departmental Contact Information – Other Staff on DepCAP

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3. DEPARTMENTAL CARBON FOOTPRINT

3a. Facilities – Energy and Water Use, and Reduction Measures

VERIFICATION: The list of facilities that is being used by SF Environment to calculate the FY 10-11 departmental carbon footprint has been verified by the San Francisco Public Library’s Climate Liaison to be complete and accurate.

The Main Library is unique in the SFPL system in that heating is provided by connection to the Civic Center steam loop, which is operated by NRG Corporation. The steam plant is located at 54 Mint Street, near the Old Mint. Since heat is provided by steam, there is no natural gas connection to the Main Library.

The Support Services Building at 190 Ninth Street, and all 27 branch libraries are heated with natural gas.

The FY 10-11-Carbon Footprint from consumption of electricity, natural gas, and steam is as follows:

Electricity

Total KWH	9,094,379
Greenhouse Gases	134 Tons

Natural Gas

Total Natural Gas Therms	69,608
Greenhouse Gases	370 Tons

Steam

Total Steam Lbs	7,118,700
Greenhouse Gases	678 Tons

Total CO2 from Energy	1182 Tons
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ENERGY EFFICIENCY & CONSERVATION

Main Library Lighting Improvements – SFPUC and SFPL partnered to produce a lighting efficiency study for the Main Library, completed May 15, 2009. During FY 09-10, the actual retrofit of lighting for Phase One was completed! SFPUC and SFPL continue their partnership with more lighting retrofits planned for the main Library during FY 12-13, including the replacement of over 100 gallery track lights with new LED lighting.

Facility name: Main Library

Project Description: Lighting Efficiency Projects for Main Library, Phase TWO

Ownership status: City owned

Estimated savings: Phase One: 219,762 kWh annually, savings of \$15,603.
Phase Two: TBD

Participation and Role of Other Departments: Engineering provided by the PUC's consultant, KW Engineering, Oakland, CA. PUC arranged for installation through their Job Order Contracting program.

Project Status:

- Phase One complete
- Phase Two design complete
- Phase Two funding secured
- Phase Two bid, award, and construction pending

Challenges encountered:

- Retrofitting 1600+ Phase One fixtures in the Main Library was challenging as the building is open seven days a week. Because of this, all work was conducted at night.
- Some reservations were expressed by building occupants considering the different color temperature of the lighting, as the new light were 3000K, versus 4100K for the new lights, which have a whiter appearance. However complaints stopped shortly after installation, and since then, the new lighting has been very well accepted by staff.

Successful Aspects:

- Weekly coordination meetings between the PUC's Phase One electrical contractor and SFPL Engineering staff minimized disruption to the occupants.
- Upon completion of the Phase One lighting retrofit, the lighting color was found to be acceptable by the staff with very few exceptions.
- We are very pleased with the Phase One energy savings, which is equivalent to the electrical usage of twenty average sized homes!



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Main Library and Branch Library Building Control Software Upgrades– Beginning in FY 09-10, and continuing into FY 10-11, the company which maintains SFPL’s building control systems, Schneider Electric (formerly TAC), is upgrading and replacing the building control software for the Main Library. However, thanks to advances in building control technology, most of the branch library HVAC systems will now also be monitored and controlled from the Engineering Office in the Main Library. Eventually we expect to extend this technology to include every branch.

Facility name: Main Library, Support Services Building, all branch libraries

Project Description: Building Control Software Upgrade

Ownership status: City owned

Estimated savings: Precise savings are difficult to quantify, however, the software saves energy by allowing more fine grained control of heating and cooling schedules, and by alerting Engineering to equipment malfunctions, often before the occupants are even aware there is a malfunction.

Participation and Role of Other Departments: The Dept of Public Works has been a strong partner in assisting SFPL to incorporate this technology in the BLIP program branch remodels, as DPW manages the design and construction process.

Project Status:

- Design complete
- Funding secured
- Bid, award, and construction completed or underway
- Savings verified through engineering calculation for fixtures

Challenges encountered:

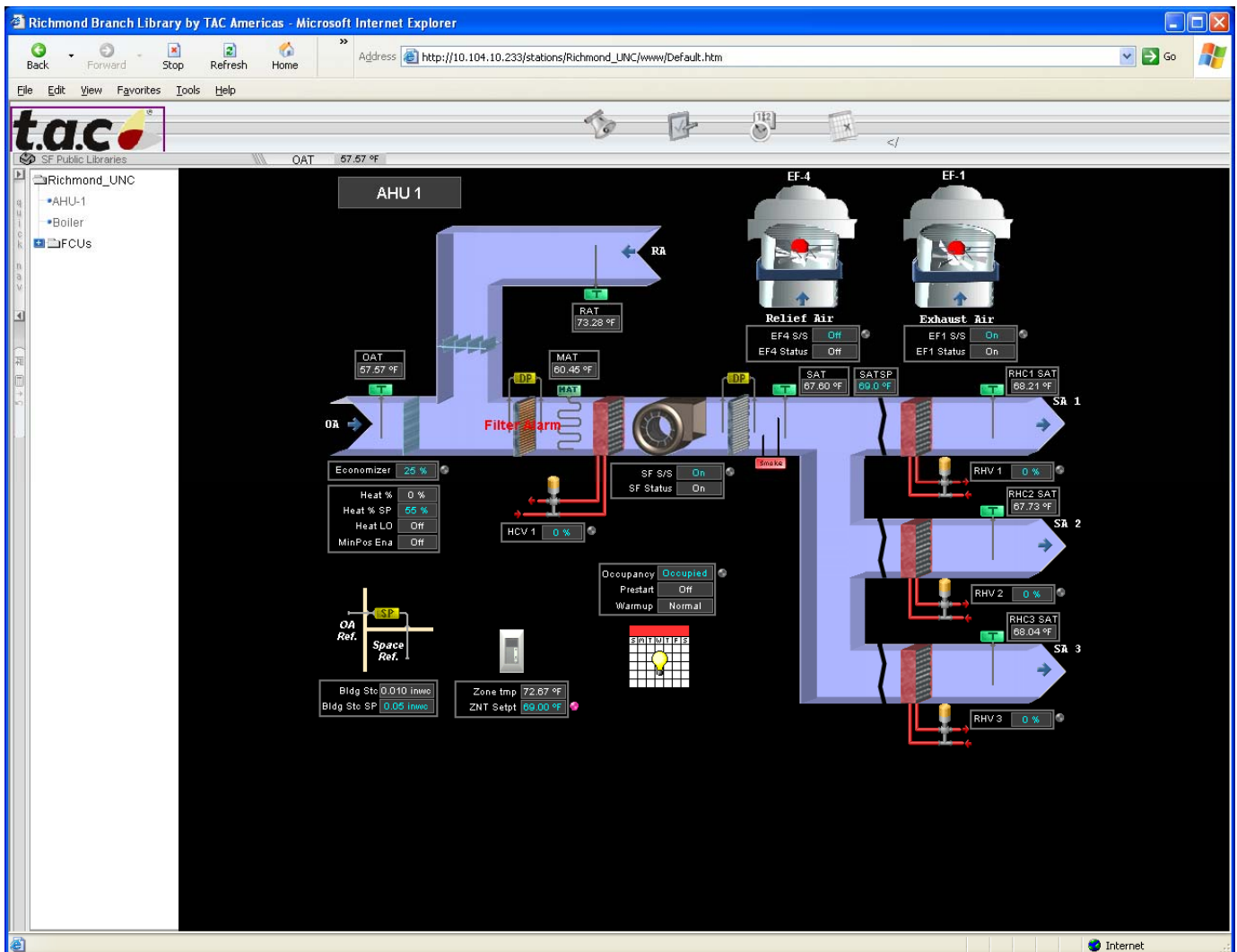
- City contracting regulations made it impossible to sole source the control systems in various BLIP projects. At first this was quite challenging, as the systems could not communicate easily with the software at the Main Library, however, the adoption of an “interpreter” software called BACnet (Building Automation and Control Protocol) has solved this issue for us.
- There is inevitably a “shakedown cruise” period, during which systems must be learned and debugged.

Successful Aspects:

- Improved control and data records.
- System has cut down on unnecessary site visits by Engineering.



Below is a screen shot from the SFPL building control software, showing data from the air handling units and boiler at the Richmond Branch Library. The data is all real time and constantly changes as conditions vary, and indicates air and water temperatures, building static pressure, pressure, operation of fans, etc. Before the advent of such software, an engineer would have to engage in a time consuming trip and site visit to gather this information.





COMPLIANCE WITH THE COMMERCIAL BUILDING ENERGY PERFORMANCE ORDINANCE

In order to comply with the Existing Commercial Building Energy Performance Ordinance (Ord 17-11, SF Environmental Code Chapter 20), the San Francisco Public Library used SFPUC's Energy Performance Benchmarking web tool to provide the SFPUC with the following information:

- Verification of the Library's facilities
- Verification of existing data for each facility, including street address, year built, gross square footage, and primary EPA building category
- ENERGY STAR benchmarking data specific to the primary EPA building category, such as weekly operating hours, number of workers on main shift, and other applicable EPA information

COMPLIANCE WITH THE LIGHTING EFFICIENCY ORDINANCE

All buildings owned by the San Francisco Public Library are compliant with the requirements outlined in the Commercial Lighting Efficiency Ordinance (SF Building Inspection Commission Code Chapter 13D).

GREEN BUILDING

10 branch libraries are being constructed & renovated to LEED Silver certification or higher:

- Anza Branch Library - renovation, June, 2011, LEED GOLD
- Bayview Branch Library – new facility, opening December, 2012
- Golden Gate Valley Branch Library – historic renovation, October, 2011
- Merced Branch Library – renovation, May, 2011
- North Beach Branch Library – new facility, opening tbd
- Park Branch Library – interior renovation, opened February 26, 2011, LEED GOLD
- Parkside Branch Library – renovation, opened November, 2010
- Presidio Branch Library – interior renovation and preservation of historic façade, March, 2011
- Ortega Branch Library – new facility, opened September, 2011
- Visitacion Valley Branch Library – new facility, July, 2011

In addition, SFPL is working with the SFPUC to attain a LEED EBOM rating of silver or higher for the Main Library. See Appendix A, "Green Building Report Main Library".

SFPL has one LEED Certified Professional on staff, the Climate Liaison and Facilities Director, Roberto Lombardi



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Cost of LEED required an average 25-30% increase in project budget, much higher than industry standard in commercial construction.

Many smaller local contractors do not have experience with LEED building, leading to challenges during construction.

For the two LEED projects opened by March 4, 2011, the Library reports improved HVAC performance compared to previous projects, which did not benefit from extensive LEED commissioning protocols.

Materials in LEED buildings have been assessed as more durable and easier to maintain.

RENEWABLE GENERATION

Photovoltaic Panels

- Installed and currently in operation at the Chinatown, Excelsior, and Golden Gate Valley branch libraries.
- Support Services Building, 190 Ninth Street – PUC has conducted site visits and the building looks promising for a solar installation. Project is currently not scheduled, but we plan to continue working with the PUC to move forward.
- Planned for the North Beach Branch Library project, a new facility at 701 Lombard, currently in design and estimated to begin construction in 2012.

WATER CONSUMPTION

Domestic water is provided to San Francisco Public Library Facilities through a work order with the San Francisco PUC. For Fiscal Year 10-11 water usage dropped by 3.5% from the previous FY, for a savings of 393,469 gallons.

Total Gallons Consumed	10,458,515
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3b. Fleet – Fuel Use and Reduction Measures

VERIFICATION: The list of vehicles and liquid fuel consumption values that is being used by SF Environment to calculate the FY 10-11 departmental carbon footprint has been verified by the San Francisco Public Library’s Climate Liaison to be complete and accurate.

Type of Fuel	Consumption	CO2 (Tonnes)
Gasoline (Gals)	6989	62
B5 (Gals)	2631	22
B20 (Gals)	365	3
CNG (GGE)	2688	16
TOTAL		103



REMOVAL OF VEHICLES TWELVE YEARS AND OLDER

Chapter 4, Ordinance 278-10 requires all passenger vehicles and light duty trucks, with a gross vehicle rating of 8500 pounds or less, be retired from service beginning no later than July 1, 2015.

The San Francisco Public Library currently has four passenger vehicles and light duty trucks older than twelve years, out of a fleet of twenty-one vehicles. On July 1, 2015, the number of such vehicles over twelve years of age will be ten.

All the vehicles affected are used for specific and critical missions, therefore these vehicles will have to be replaced when retired. These include a security van, custodial services van, IT service van, audio visual programs van, and five vehicles used for facility maintenance. The van used by our adult literacy program, Project Read, was replaced this year with an EV Ford Transit Connect.

The cost for replacement will vary each year, but will likely range from \$75,000 to \$100,000 per year. Some portion of the costs will be due to special equipment needed for some of the vehicles, such as tool boxes, lumber racks, or lift gates, and for the cost of CNG conversion.

ALTERNATIVE FUELS, FLEET CONVERSION, AND/OR REDUCTION

San Francisco Public Library has taken additional steps to reduce use of conventional fuels.

- 57% of the SFPL fleet use alternative fuels (EV, CNG, B20, Hybrid)
- All six of our Bookmobiles are fueled by B20 Biodiesel.
- SFPL took delivery in August 2011 of a 100% electric (EV) Ford Transit Connect
- One passenger vehicle is a plug-in hybrid Toyota Prius, converted through a partnership with SF Environment.
- Three delivery vehicles, one maintenance truck, and one passenger vehicle are fueled by CNG
- All future purchases will be CNG, EV, hybrid, or B-20 Biodiesel.
- Staff use the City Hall Car Pool frequently.
- The Library participates in the City CarShare program.

OTHER BEST FLEET PRACTICES

Central Shops maintains the SFPL fleet. The Facilities Division works closely with Central Shops in sharing fleet data and coordinating regular preventive vehicle maintenance.

Intelligent route planning. The bulk of SFPL fleet mileage occurs in the delivery and pick up of library materials to and from library branches throughout the City. The following strategies are used to minimize fuel consumption:

- All delivery points are divided into three routes of approximately equal mileage. The routes are designed to be as short as possible.



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- Routes are designed for efficient fueling. Each route has at least one fueling station within the route, and one route has two.
- Various Library branches are being closed and reopened during the current Branch Library Improvement Program. As this occurs, routes are reconfigured to minimize fuel use.

SFPL has developed, promoted, and posted on the Library’s intranet (StaffNet) instructional resources for staff regarding reasonable driving expectations, such as:

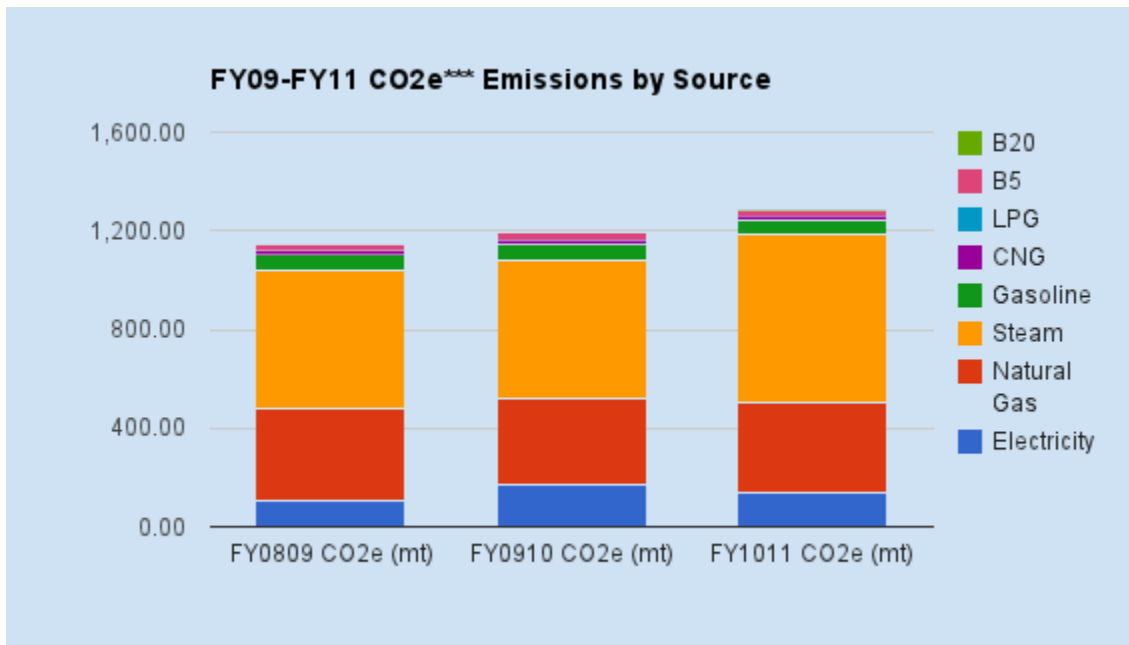
- Driving the speed limit reduces fuel consumption
- Accelerate gradually
- Don’t suddenly start/stop

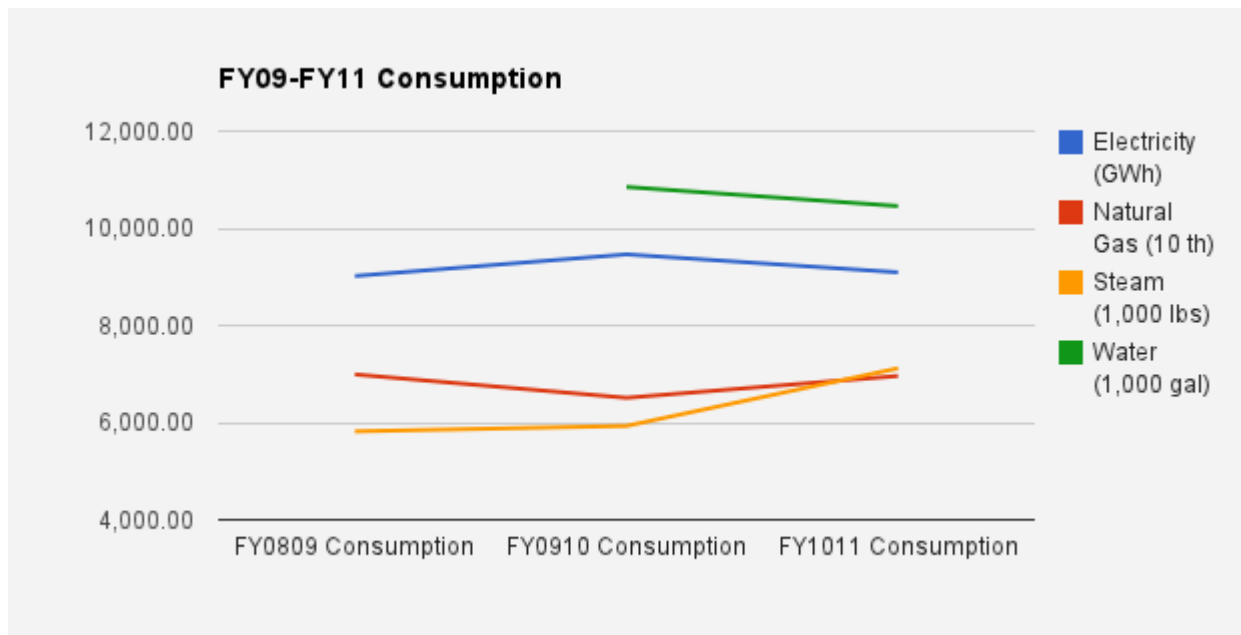
SFPL vehicles provide a variety of uses that support direct public service and the maintenance and management of library facilities. Each vehicle is assigned to activities that are appropriate for its size and intended use. SFPL’s fleet does not contain any vehicles that are larger and heavier than needed for their intended purpose. For instance, Delivery vehicles for Library materials generally run at 85% to 100% of capacity.

ELECTRIC VEHICLE CHARGING STATION

Partnering with SFPUC and the Dept of the Environment, SFPL is installing five charging stations, which are being donated to the City by Google, in the loading dock and parking area of the Main Library. The stations will be used to charge the Library’s electric and/or hybrid vehicles.

3c. Historic Analysis





San Francisco Public Library has taken additional steps to reduce use of conventional fuels.

- Electricity: Consumption went down by 3.91% from the previous FY, in large part driven by the significant energy retrofits installed at the Main Library in partnership with the SFPUC. Even though many new branches were opened, with much heavier patron use than the branches they replaced, electricity use still trended downwards overall due to the greater efficiency of the new and or / remodeled branches.
- Natural Gas: Consumption went up by 6.46%. Natural gas is used to heat the branch libraries and the Support Services Building. The Main Library does not have natural gas service. Usage was driven up because although the new BLIP branches are more energy efficient, there were more and larger buildings opened during this FY as compared to the previous one.
- Steam: Usage increased by 16.67%. Steam is used to heat water for building heat at the Main Library. This amount increase is quite unusual, and we will be working with the SFPUC and the steam supplier, NRG, to see if there is some anomaly or error in the data reporting. It is unlikely that the increase could be solely from increased heating demand.
- Water: Usage decreased by 3.63%, largely driven by the water efficient design of the BLIP branch libraries, and by working in partnership with Rec/Park on efficient landscaping and irrigation.
- Vehicle Fuel: Vehicle fuel use decreased by 3.9%, reflecting the increasing use of alternative fuels. 56% of the SFPL fleet is now alternative fuel, including six B-20 vehicles, five CNG vehicles, one hybrid vehicle, and one EV.



4. OTHER SUSTAINABLE PRACTICES

4a. Zero Waste

The results of the SFPL Waste Assessment Questionnaires are attached to the report as two Appendices (due to length) C.1 and C.2. A questionnaire was filled out for the Main Library, each of the branch libraries, the Support Services Building, and also by the Mobile Outreach Services group (bookmobiles).

4b. Transportation Options

Scheduled Outreach Event

Staff from the Department of the Environment's Commute Smart Division came to SFPL for a presentation to the All Staff meeting in the Koret Auditorium on July 30, 2010, and on January 27, 2012, providing information on Commuter Benefits, Rideshare, and other programs.

Commuter Benefits

As of March, 2012, 264 SFPL employees are enrolled in the pre-tax commuter benefits program.

The Great Race for Clean Air

In 2011, 28 SFPL employees participated in the Great Race for Clean Air.

City Bike Fleet Participation

Two SFPL employees have received bicycles through the City Bike Fleet Program.

COMMUTE OUTREACH EFFORTS

The Libraries Green Stacks program includes both internal resources for staff related to commuting options, as well as information for the public.

Internal Outreach

SFPL has developed a Commute & Travel Resources Page on the Library staff intranet "StaffNet" includes the following categories:

- [Articles/Resources](#)
- [Bicycling](#)
- [Commuter Benefits](#)
- [Commuter Programs for CCSF Employees](#)
- Commute Survey Information
- [Driving](#)
- [Long Distance Travel](#)
- Reading List
- [Taxis/Airport Shuttles](#)
- [Transit](#)
- [Walking](#)



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SFPL coordinated with MTA to identify enhanced bicycle parking standards at every neighborhood branch library. Bike parking is anticipated to be installed between 2011 and 2014.

Department of the Environment Outreach

SFPL will continue its strong relationship with the Department of the Environment's Clean Air and Transportation Program, including, but not limited to:

- Additional or repeat visits & presentations to large staff group meetings (All Staff; Branch Managers; Adult Services; Children's Services)
- Scheduling of a table in the atrium of the Main Library

Departmental Incentive Program

In addition to the Department of the Environment's Clean Air and Transportation Program incentives, SFPL will implement the following programs to promote alternative transportation:

- *Bike to Work Day* in 2011 was promoted as a citywide staff incentive program, featuring rewards donated by the Department of the Environment, and the Bicycle Coalition.
- SFPL participated in the Great Race for Clean Air
- Info and updates on programs to assist bicycle commuters with adequate bicycle parking, bike maps, the CCSF bicycles fleet program and additional benefits as they become available
- Developing *SFPL Carbon Footprint Commute Challenge* which will ask staff to convert one day per week of SOV commute to bicycle or public transit commuting.

4c. Green Purchasing

The results of SFPL's "Buy Green Scorecard" are attached to the report as Appendix B.

4d. Information Technology

Required IT Energy Conservation Measures – All computers do not have energy conservation labels installed. We began implementing this labeling during FY 10-11, and will continue this in the coming FY.

Hibernation / Standby after 20 Minutes Mode - We continue to replace older PCs or upgrade the OS of the older PCs with Windows 7 to enable the hibernation on inactivity mode on all SFPL computers.

Our server virtualization initiative has helped us with taking a big step toward greener IT. In order to implement server virtualization, replaced older server hardware with new, more energy efficient hardware. We were then able to convert a large number of physical servers to the virtual operating environment, hence saving power consumption. Currently we have approximately 65 virtual servers running on 13 physical servers. We plan to continue migrating other physical servers for further power savings.



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SFPL has also taken the following steps to achieve further energy conservation:

- Centralized PC power management for PCs equipped with Intel V-Pro, a technology that allows scheduled power off and on of PCs in all library locations
- POE (power over Ethernet) for all wireless access points has been implemented, eliminating need for localized power sources
- All CRT monitors have been replaced with LCD monitors
- Standardized purchasing of ultra slim form factor PCs - units that come with smaller power supplies and consume less electricity
- Refreshed desktops with laptops to serve as one piece of equipment for those staff requiring both a mobile laptop and desktop
- Replacing desktops with thin client devices which consume less power
- Refreshing existing servers with newer energy efficient servers as we implement server virtualization

4e. Carbon Sequestration / Urban Forest

Urban ecosystems: SFPL has implemented a number of projects that improve the quality of the local urban infrastructure by integrating green space in, on, and around neighborhood libraries. These projects fall into three categories:

1 Community Gardens have been planned and implemented by community members, working with Library staff.

- Mission Branch Teaching Garden, installed.
- Noe Valley Branch Community Garden, installed.
- Presidio (still in planning phase with local garden club)
- Park Branch (planning phase)

2 Green Roofs are featured as part of two new branch libraries.

- Bayview Branch Library (under construction, open 2012)
 - Internal clerestory windows make the green roof visible from inside the library
 - An interior courtyard provides additional green space
- Ortega Branch Library (opened September 2011)
 - A roof camera provides real-time viewing of the green roof, looped to both the SFPL website (for viewing from anywhere in the city) and a wall monitor in the branch

3 Urban Forestry NA - SFPL does not currently manage the planting and care of trees on city property.



5. COMMUNITY WIDE IMPACT

Library Cards – eco card In April 2009, SFPL became the first public library in the US to offer the eco-card, a biodegradable plastic library card made from corn based product Ingeo. This new card option has been a favorite selection of patrons since 2009 and will continue to be offered. The continued challenge with implementing a biodegradable content card to replace all library card design options remains that the corn-card is not available in a keychain card format, which is standard for all other library cards



SFPL, as the city's shared resource for free educational and informational materials, plays a large role in making information about climate change and sustainable options available and accessible to a broad, diverse local audience. In 2009, the SFPL launched "Green Stacks," a program designed to increase awareness of environmental issues and resources.

LEED Credit Educational Signage Program

A comprehensive public signage program was designed in 2010 to highlight the sustainable features of the library facility and provide information about the tangible benefits of these features to library users. Signage that acts as guideposts for both guided and self-guided tours of the building, while infusing the library space with educational information that leads patrons to learn more about green building, green community resources available through the library, and other topics related to sustainability.

To date, the Green Stacks signage program has been implemented at all 8 LEED designed branches plus four additional Libraries: Parkside, Park, Presidio, Anza, Merced, Ortega, Visitacion Valley, Golden Gate Valley, Excelsior, Portola, Mission Bay, and Ingleside, with more sites expected to be completed in the next fiscal year.

The signage program consists of three elements:

- 1) A **Branch Report Card** provides a checklist of sustainable building features for each branch library facility, organized by LEED category. The branch report card may be displayed within the building and/or provided as a tri-fold handout for the public during regular visits, special programs, and tours.
- 2) A set of **Green Stacks Signage** that is placed strategically throughout the building, where patrons discover a green feature that may not be obvious and learn how that feature positively impacts the environment. These signs are connected with both guided and self-guided tours, but are otherwise intended to be discovered by patrons serendipitously as they use the library to promote better understanding of green



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building features, dialog around green issues, and interest in the library's Green Stacks public programs (<http://sfpl.org/greenstacks/>). To date, the Green Stacks signage program has been implemented at all eight LEED designed branches plus four additional Libraries, with two more sites, Bayview and North Beach, expected to be completed in the next two years.

- 3) An original interactive **Early Learning Panel** in the children's area of the library, created for SFPL by the Burgeon Group, that connects concepts of early learning with visual and hands-on experience around a green building topic. The panel integrates with other panels that promote early literacy, serving to introduce the youngest learners to concepts of sustainability as they begin to experience the world around them, while allowing and encouraging parents and caregivers to engage children in environmental issues.
- 4) A Green Stacks/LEED Virtual Tour was developed in 2010 that explains the LEED building program and leads patrons through the sustainable features of each specific branch library, connecting to both the branch Signage and Report Card. The [Parkside virtual tour](#) is an example of this element.

Green Stacks Public Programming / Educational Outreach

Programming coordinated through the Wallace Stegner Environmental Center and partnership with the Department of Environment, offered at the Main Library and Branch Library locations city-wide. Elements of the public environmental literacy program include:

- "San Francisco" Summer Reading 2012 will reach 12,000 children, 1000 teens, and 1000 adults with environmental-themed summer reading book lists, programs and events.
- The Green Stacks Public web page (www.sfpl.org/greenstacks) launched in April 2009 in celebration of Earth Day, with the following sections:
 - Featured Programs and Events
 - Wallace Stegner Environmental Center
 - SFPL's Green Efforts
 - The Green List recommended books and resources in English and international languages
 - Green People Profiles
 - Event Calendar of Green Stacks program listings
 - Helpful Resources from partner agencies and external organizations
- The monthly calendar of Green Stacks events is developed and provided free of charge to the public, including the following attached examples.

Green Stacks Community Partners

As a way to leverage public/private interest in environmental topics, community partnerships with other organizations further the Library's ability to provide information, reach out to underserved and hard-to-reach communities, market the Library in new ways, and create a network of access to important resources for our patrons. We continue to expand our existing partnerships with San Francisco Environment and the Friends of San Francisco Public Library, which are integral to program development and public outreach. We have added the following new partners:



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- The California Academy of Sciences
- Bioneers
- San Francisco Green Film Festival

Lastly, a multi-branch Digital signage program is being implemented to provide public display and information regarding environmental issues and sustainability. The digital signage is used to broadcast events, distribute educational and community information, and promote Library/Green Stacks collections, programs, and resources. Partial funding was secured in 2010, with installation in 10 branches in 2011.

DIVE!

Living Off America's Waste


FILM AND DISCUSSION

Wednesday, Nov. 30, 2011
6–7:30 p.m.
Koret Auditorium
Main Library, Lower Level



Every year in America we throw away 96 billion pounds of food. That's 263 million pounds a day, 11 million pounds an hour, 3,000 pounds a second.

Inspired by a curiosity about society's careless habit of sending food straight to landfills, the multi award-winning documentary DIVE! follows filmmaker Jeremy Seifert and friends as they dumpster dive in back alleys and gated garbage supermarket receptacles. In the process, they salvage thousands of dollars worth of good, edible food—resulting in an eye-opening documentary that is equal parts entertainment, guerilla journalism and call to action.

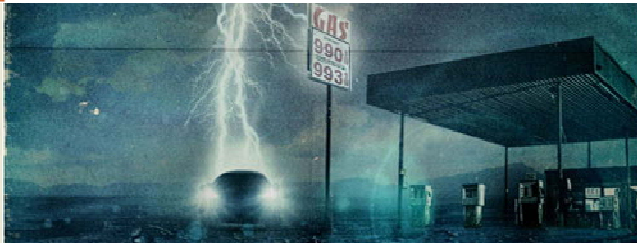


Green Stacks
Empowering library users to
live a more eco-friendly life

Presented by the Stegner Center of the San Francisco Public Library
All programs at the Library are free.
Main Library 100 Larkin St. (at Grove) sfpd.org



ITVS Community Cinema: *Revenge of the Electric Car*



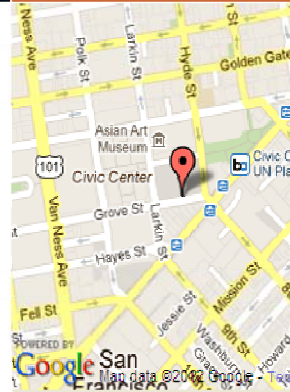
When
Tue, 3/20/2012, 5:45 - 7:45

Where
[Koret Auditorium](#)
[Main Library](#)
100 Larkin St.
[Email](#)

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The San Francisco Public Library, Independent Television Service and KQED present *Revenge of the Electric Car*. Film maker Chris Paine takes his film crew behind the closed doors of Nissan, GM and Silicon Valley start up Tesla Motors to chronicle the story of the global resurgence of electric cars. Without using a single drop of foreign oil this new generation of car is America's future. A panel discussion follows the film.

This is a Green Stacks event.






San Francisco Public Library

The Wallace Stegner Environmental Center of the San Francisco Public Library in association with San Francisco Green Film Festival presents

Butterflies and Bulldozers


Film and Discussion




Butterflies and Bulldozers is a film that deals with the global dilemma of economic growth versus species preservation. For fifty years, people have fought to protect San Bruno Mountain and its rare butterflies. Told with humor and insight by participants and observers alike, *Butterflies & Bulldozers* is a story about the rights of nature and the rights of people, about compromise and commitment, and the tough choices we all have to make.

A panel discussion follows the film.

Wednesday, September 28, 2011
12-1:30 p.m.
Koret Auditorium, Main Library, Lower Level



All programs at the Library are free.
Supported by Friends of the San Francisco Public Library



San Francisco Public Library
Main Library 100 Larkin St. (at Grove) (415) 557-4277 sfpl.org



ADAPT! Climate Change Hits Home

What the Bay Area Needs to Do to Prepare

EXHIBIT

November 1, 2011 - August 2, 2012
Government Information Center
Main Library, Fifth Floor

The perils of climate change have been evident for two decades. But global efforts to slow it down by reducing greenhouse-gas emissions have largely failed. Some of its impacts are now inevitable. Climate change adaptation—preparing for heat waves, drought and sea level rise—is now essential.

This exhibit, created by SPUR*, surveys the likely impacts of climate change on the San Francisco Bay Area, which will worsen over the next 100 years and beyond. SPUR recommends more than 30 adaptation strategies for minimizing our region's vulnerabilities to the potentially catastrophic effects of global warming.

*San Francisco Planning + Urban Research Association, a member supported non-profit organization. Through research, education and advocacy, SPUR promotes good planning and good government in the San Francisco Bay Area.



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Designing and Sustaining Green Schoolyards and School Gardens

Thursday, May 12, 2011
6-7:30 p.m.
Latino/Hispanic Community Meeting Room
Main Library, Lower Level




Join authors Sharon Danko, Apathic to Ecogonomics, and Andre Barbin Aguiar and Rachel Frigo, How to Grow a School Garden for an informative session about conceiving, designing, and sustaining green schoolyards and school gardens. Get detailed advice on how to secure support from administrators, raise money, build in the schoolyard, manage volunteers and weave the organization into a school's mission. Inspiring examples presented from



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The Stegner Environmental Center of the San Francisco Public Library in association with the California Academy of Sciences presents




Natural Solutions: Abundant Opportunities

Wednesday, October 12, 2011
6-7:30 p.m.
Koret Auditorium
Main Library, Lower Level

There are natural solutions that each and every one of us can employ to be better stewards of the planet and help conserve our collective natural resources. By observing nature and changing the way we design our homes or even the choices we make on how we grow our food, we can make positive changes that don't add costs to the bottom line. In fact, natural solutions can help save money and create sustainable jobs. Aaron Pope, Manager of Sustainability Programs at the California Academy of Sciences, will lead a presentation on simple ways we can tread lightly on the planet.



All programs at the Library are free.



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