



San Francisco Public Library

San Francisco Public Library
Department Climate Action Plan
March 3, 2011

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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. In 2010, 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.

Highlights in 2010 include:

Urban Libraries Council (ULC) Top Innovator Award 2010

SFPL’s Green Stacks program received [top innovator honors](#) in the category of Sustainability at the ULC national conference in Washington DC (June 2010).

Parkside Branch Library Re-opens

On November 6, 2010, the [Parkside Branch Library re-opened](#) after renovation (with a new addition) built to meet LEED Silver certification. Parkside is the first of 10 branch library construction projects designed to LEED Silver or higher.

Green Stacks/LEED Virtual Branch Tours

SFPL staff an online tour of LEED library branches as they open/re-open. The tour highlights both the LEED building program and leads patrons through the sustainable features of each specific branch library, connecting to the branch’s LEED Report Card, as well as to new (recycled aluminum) signage that illustrate green building features onsite. The [Parkside virtual tour](#) is an example of this element.

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

\$80,064,000

Number of Employees

636.4 FTE



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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
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



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Description of Fleet

The San Francisco Public Library Fleet consists of 21 vehicles, and include 2 general purpose passenger vehicles, 5 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	Keyword	In-Service Date	Age
631100	2002	HONDA	Car - Facilities	4/12/2002	8.9
631101	2007	TOYOTA	Car - COB	3/9/2007	4.0
631500	1997	FORD	Van - Security	7/14/1997	13.6
631501	2000	FORD	Van - Media	4/17/2000	10.9
631502	2002	FORD	Van - IT	4/22/2002	8.9
631503	2002	FORD	Pickup - Engineering	5/24/2002	8.8
631514	1995	GMC	Pickup - Painter	11/16/1995	15.3
631600	1992	INTERNATIONAL	Bookmobile - LOW	11/2/1992	18.3
631601	1994	CHEVROLET	Bookmobile - Children's	12/23/1994	16.2
631602	1997	INTERNATIONAL	Bookmobile - BLIP	7/1/1997	13.7
631604	1996	FORD	Van - Electrician	3/22/1996	15.0
631605	1996	FORD	Van - Project Read	6/24/1996	14.7
631606	1999	FORD	Delivery Truck	5/19/1999	11.8
631608	2002	FORD	Van - Custodial	4/22/2002	8.9
631609	2003	FORD	Delivery Truck	9/11/2003	7.5
631610	2005	FORD	Delivery Truck	10/25/2004	6.4
631611	2005	BLUEBIRD	Bookmobile - BLIP	1/25/2005	6.1
631612	2005	BLUEBIRD	Bookmobile - BLIP	9/23/2005	5.4
631613	2007	FORD	Delivery Truck	10/1/2007	3.4
63100001	2009	FORD	Deliveries - Utility	3/31/2009	1.9
631Y514	1999	DODGE	Pickup - Engineering	8/20/1999	11.5
				Average	10.1
Special Purpose					
631099	1992	CUSHMAN	Cart Custodial	4/24/1992	18.9
631607	1999	YALE/TROJAN	Forklift	3/1/2000	11.0



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 09-10 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 09-10 Carbon Footprint from consumption of electricity, natural gas, and steam is as follows:

Electricity

Total KWH	9,632,084
Cost	\$701,359
Greenhouse Gases	195 Tons

Natural Gas

Total Natural Gas Therms	65,113
Cost	\$63,458
Greenhouse Gases	346 Tons

Steam

Total Steam Lbs	5,932,000
Cost	\$157,718
Greenhouse Gases	567 Tons

Totals

Total Cost	\$ 922,535
Total CO2 from Energy	1108 Tons



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. In FY 09-10, the first phase was completed!

Facility name: Main Library

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

Ownership status: City owned

Estimated savings: Phase One, 219,762 kWh annually, for a dollar savings of \$15,603.

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:

- Audit complete
- Design complete
- Funding secured
- Bid, award, and construction complete (phase one)
- Savings verified through engineering calculation for fixtures

Challenges encountered:

- Retrofitting 1600+ 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.
- There were also some reservations 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.

Successful Aspects:

- Weekly coordination meetings between the PUC's electrical contractor and SFPL Engineering staff minimized disruption to the occupants.
- Upon completion of the lighting retrofit, the lighting color was found to be acceptable by the staff with very few exceptions.
- We are very pleased with the 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.

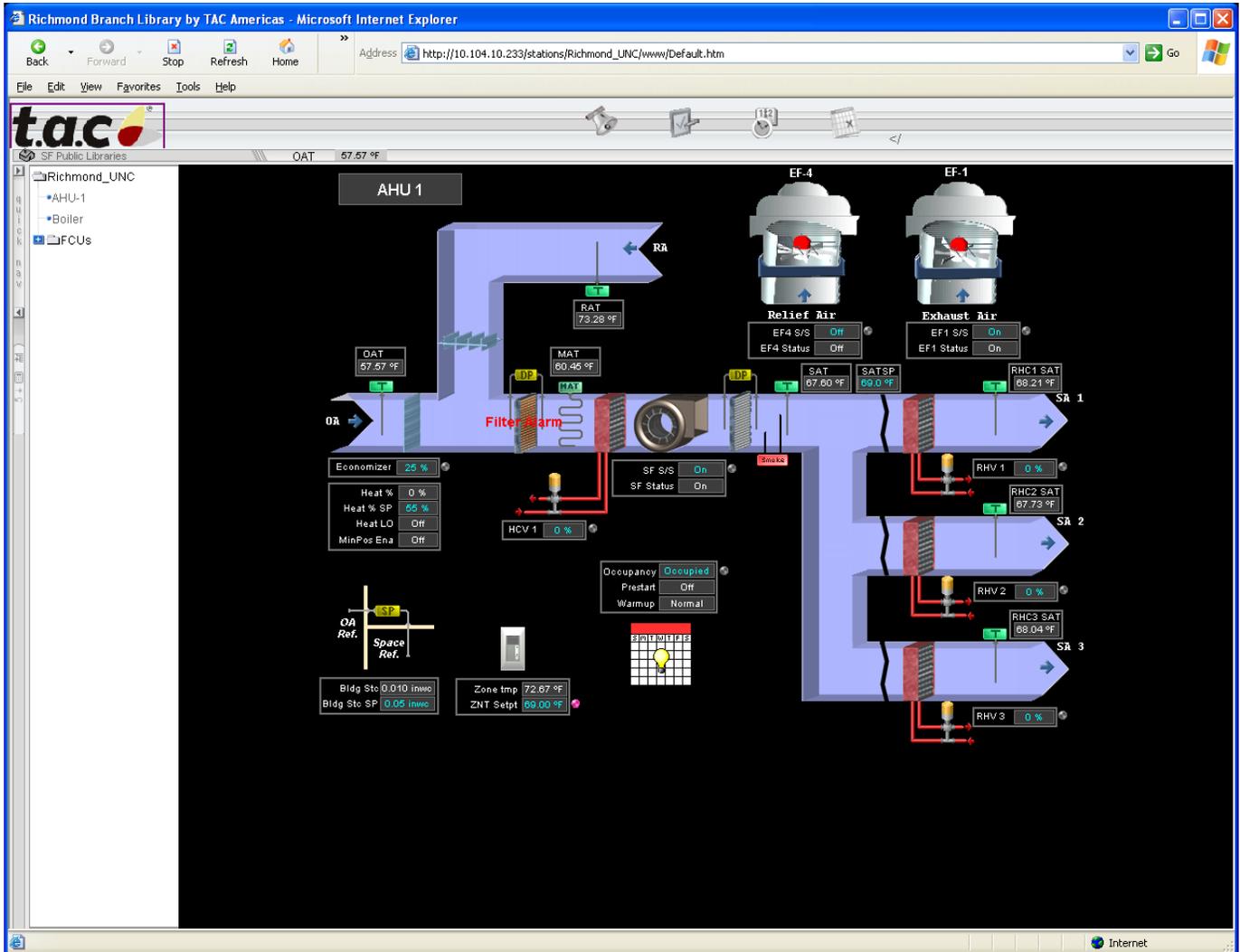
Successful Aspects:

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



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Below is an actual 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.





GREEN BUILDING

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

- Anza Branch Library - renovation, June, 2011
- Bayview Branch Library – new facility, 2012
- Golden Gate Valley Branch Library – historic renovation, September, 2011
- Merced Branch Library – renovation, May, 2011
- North Beach Branch Library – new facility, 2012
- Park Branch Library – interior renovation, Opened February 26, 2011
- Parkside Branch Library – renovation, Opened November 6, 2010
- Presidio Branch Library – interior renovation and preservation of historic façade, March, 2011
- Ortega Branch Library – new facility, July, 2011
- Visitacion Valley Branch Library – new facility, June, 2011

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

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 that have 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 and Excelsior branch libraries.
- Currently installed and soon to be in operation at the remodeled Golden Gate Valley Branch when it opens in September, 2011.
- Support Services Building, 190 Ninth Street – PUC has conducted site visit 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. Consumption for Fiscal Year 09-10 is as follows:

Total Gallons Consumed	10,851,984
Cost	\$45,040

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 09-10 departmental carbon footprint has been verified by the San Francisco Public Library’s Climate Liaison to be complete and accurate.

Type of Fuel	Consumption	Cost	CO2 (Tonnes)
Gasoline (Gals)	7292	\$20886	64
B20 (Gals)	2805	\$8971	28
B100 (Gals)	561		
Diesel (Gals)	2244		
CNG (GGE)	2688	\$5416	16
TOTALS		\$35273	108

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, is being replaced this year with outside funding.

We plan to replace the above vehicles with more fuel efficient vehicles at the rate of two each fiscal year, starting in FY 12-13.

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



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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. For instance, 52% of our vehicles are either running on CNG, B20 Biodiesel, or are hybrid, as listed below:

- All five of our Bookmobiles are fueled by B20 Biodiesel.
- 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, 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.
- 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.



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ELECTRIC VEHICLES

Though SFPL currently has no electric vehicles, we are interested in electric vehicles and charging stations.

There is good potential for a charging station(s) in the loading dock area of the Main Library, and also at some branch locations, such as the parking lot of the Eureka Valley branch.

SFPL is interested in partnering with the PUC, SF Environment, or other City departments to explore the potential for charging stations and electric vehicles in the library system.



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4. OTHER SUSTAINABLE PRACTICES

4a. Zero Waste

The results of the SFPL Waste Assessment Questionnaires are attached to the report as Appendix A . A questionnaire was filled out for the Main Library, and each of the branch libraries, with the exception of some branch libraries which are closed for remodeling.

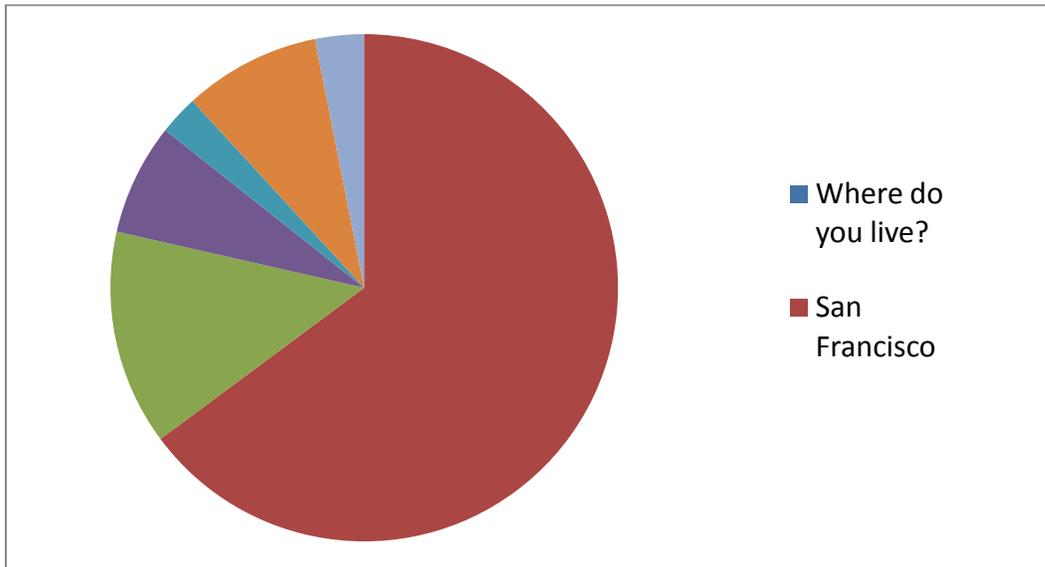
Appendix A: [Waste Assessment Questionnaire Part One](#)
 [Waste Assessment Questionnaire Part Two](#)



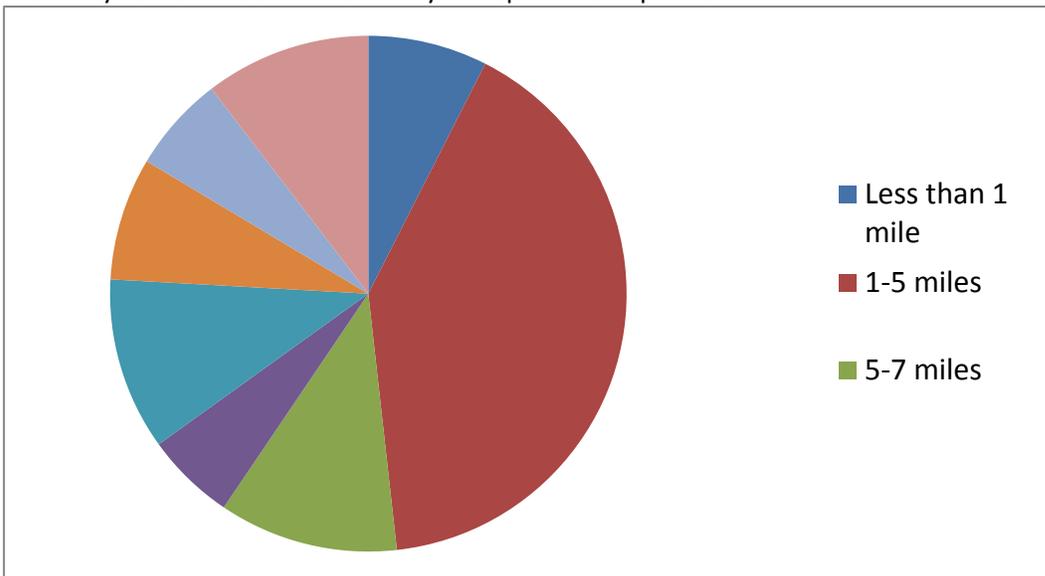
4b. Employee Commute

The Library administered the employee commute survey in January-February 2011 and summarized results for a presentation to all librarians on March 4, 2011. The content of this summary follows:

The majority of SFPL staff (64.7%) live in San Francisco, and 13.7% of staff live in Alameda County. Within San Francisco, the most popular neighborhoods were the Mission (8.5%) and the Inner Sunset (6.7%). There was a very slight increase in the numbers of both San Francisco residents and Alameda County residents compared to last year.



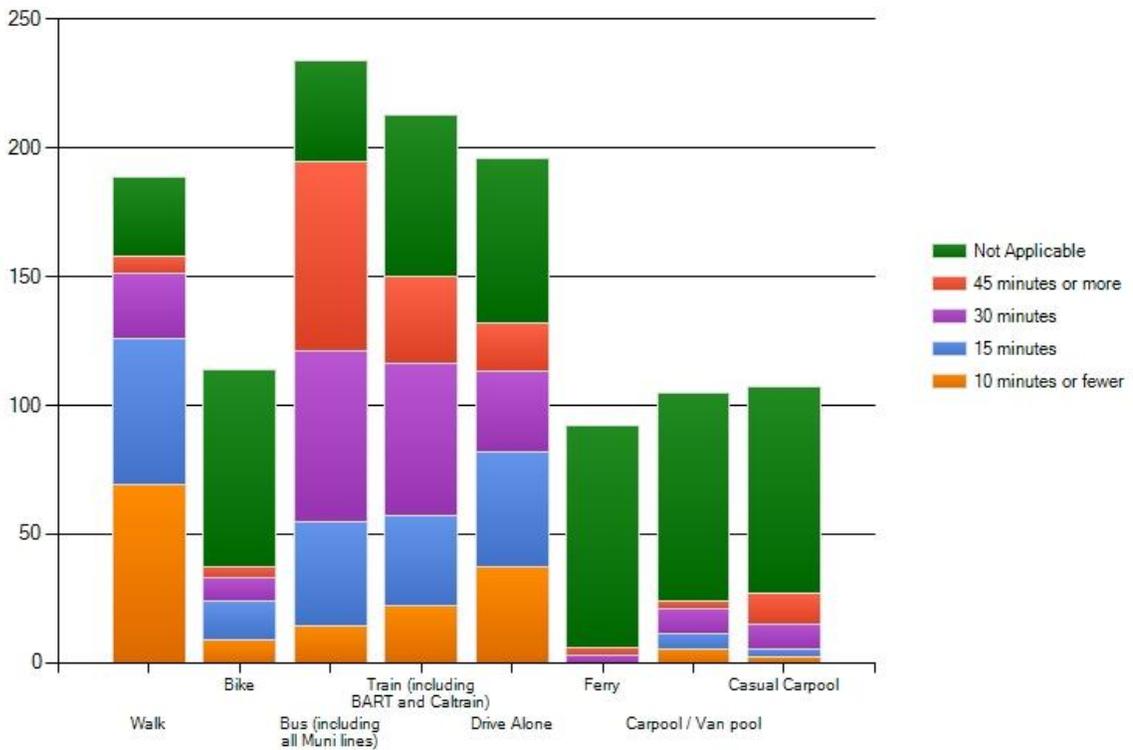
48.2% of respondents live 5 miles or less from work, which in itself keeps emissions low. Proximity to work also ensures many transportation options.





Overall, the commute practices of SFPL employees are consistent year-to-year. Less than 30% of staff drive alone, and some of those solo car trips only represent part of the journey to or from work. Rates for all other forms of transit are steady, despite some movement around the Bay Area and reassignments due to branch closures. In studying the types of trips and the combinations of modes used, it is clear that staff are resourceful and make full use of the many options available in the Bay Area.

How did you get to work today? (If today was not a normal commute day, please describe a typical day) Please select the approximate time spent on each form of transportation you used to get to work. If you don't use a certain type of transportation, please click on the "Not Applicable" column.

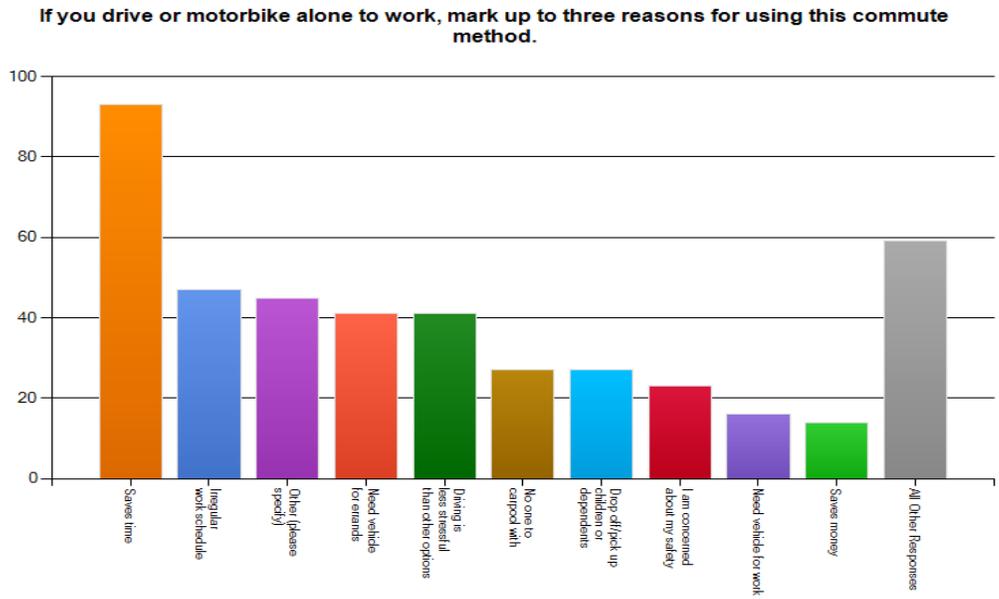




Walking and riding the bus both increased over the year by 1 percent (this despite the many complaints about MUNI). Formal carpooling increased, while casual carpooling decreased. Riding the train, ferry, and driving alone both increased, while bicycling decreased. These percentages do not add up to 100%, as they reflect multiple transportation modes used in a single journey to work.

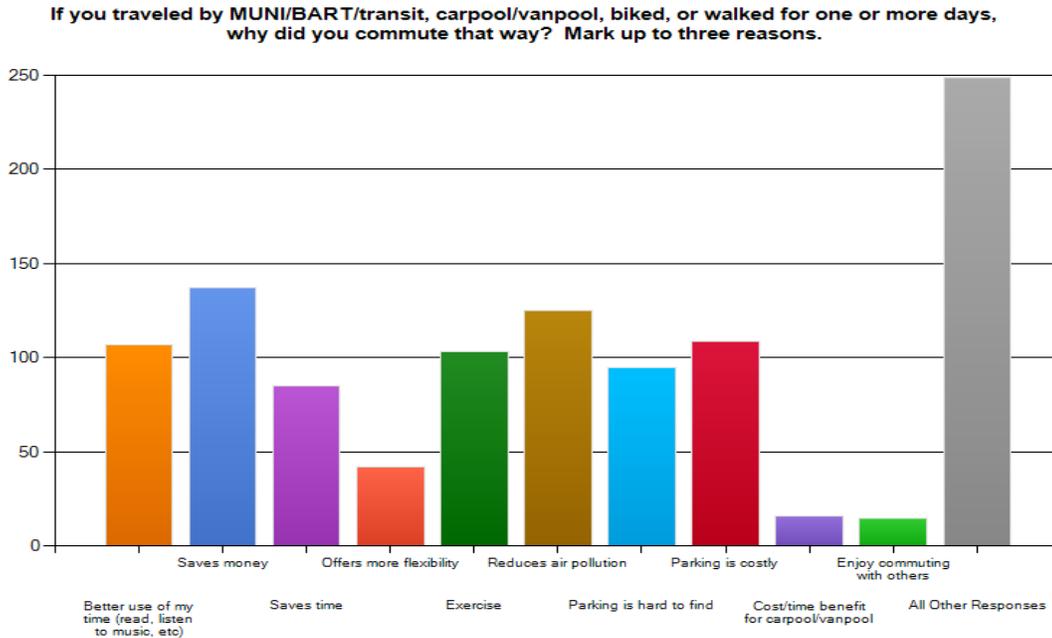
Commute mode	2009	2010	
Walk	32%	33%	+ 1%
Bike	8.4%	7.7%	- 0.7%
Bus	39.5%	40.5%	+ 1%
Train	30.4%	31.2%	+ 0.8%
Drive Alone	27%	27.4%	+ 0.4%
Ferry	.7%	1.25%	+ 0.55%
Carpool	4.4%	5%	+ 0.6%
Casual Carpool	7.4%	5.6%	- 1.8%

By far the most commonly stated reason for driving alone is “saves time.” While some transit systems, like BART, offer reliable and direct service, other transit modes, such as MUNI, are less consistent. Respondents indicated that their travel times can vary as much as 45 minutes, depending on the reliability of the transit provider on a particular day.

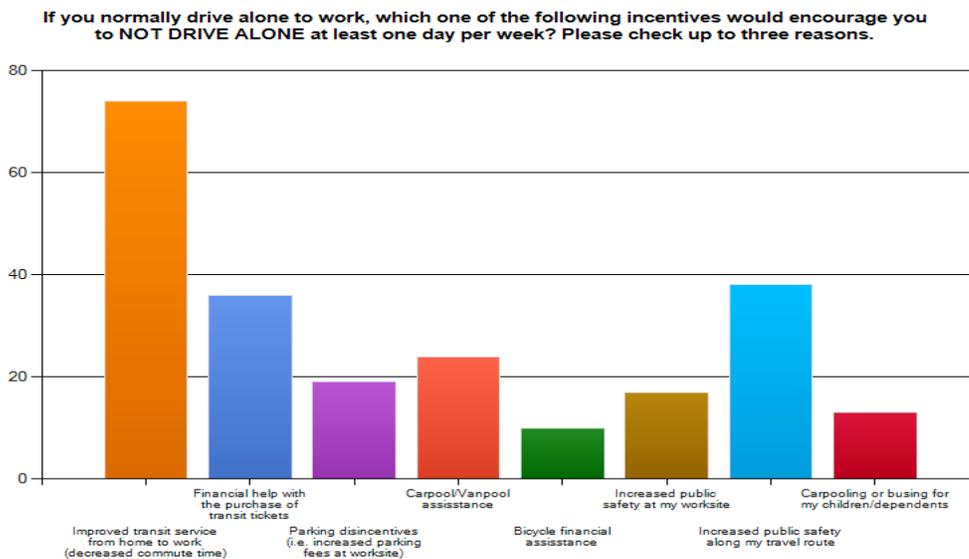




Responses to this question were less decisive. “Saves time” and “reduces air pollution” were both selected as compelling reasons to choose an alternative transit method, but the comments revealed that many respondents either do not own a car or do not like to drive. Among these respondents (see gray bar), many expressed that the idea of owning a car in San Francisco was expensive and stressful due to parking, traffic, insurance, and maintenance.



Responses are consistent with the earlier question – Why drive alone? Time spent waiting for infrequent or unreliable transit was again cited as the biggest obstacle to using transit rather than driving alone.





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In addition, more detailed information regarding the Commute Survey results has been included this year:

- Frequently Asked Questions mined from comments and questions received 2008-2010.
- Commute Survey Presentations discussed with staff at All Staff presentations annually.
- Commute Survey Results (link will open to new page with pdf versions of the results for 2008-2010 surveys)

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) – two visits in 2011.
- 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 2010 was promoted as a citywide staff incentive program, featuring rewards donated by the Library Café (Mint Café), the Green Arcade, the Department of the Environment, and the Bicycle Coalition.
- 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
- *SFPL Carbon Footprint Commute Contest* which will allow each unit to compete by reducing the number of single occupancy vehicle commutes made by staff in a given month
- 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. The library scored 1.85 out of a possible 2 points!

Appendix B: [SFPL Buy Green Scorecard 2010.pdf](#)



4d. Information Technology

Required IT Energy Conservation Measures – All computers do not have energy conservation labels installed. We plan to implement this labeling during FY 10-11.

Hibernation / Standby After 20 Minutes Mode - Starting in FY 09-10, all new PCs will be purchased with the Windows 7 operating system, with this setting enabled. We will 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.

EPEAT Gold Standard Blade Servers – partly because blade servers pose some budgetary challenges, SFPL is pursuing other strategies for reducing the number of servers and power draw of the servers, such as virtualization of servers.

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.

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)

2 Green Roofs are featured in the approved construction drawings for two new branch libraries.

- Bayview Branch Library (in bid and award phase, open 2012)
 - Internal clerestory windows make the green roof visible from inside the library
 - An interior courtyard provides additional green space
- Ortega Branch Library (in construction, open August 2011)
 - A roof camera will provide 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

Urban Libraries Council (ULC) Top Innovator Award 2010

SFPL's Green Stacks program received [top innovator honors](#) in the category of Sustainability at the ULC national conference in Washington DC (June 2010).

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 was selected by more than **15,000** patrons since 2009 and will continue to be offered in 2011. The continued challenge with implementing a biodegradable content cards 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 signage program has been implemented at the Parkside and Park Branch Libraries, with 19 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/>).

- 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

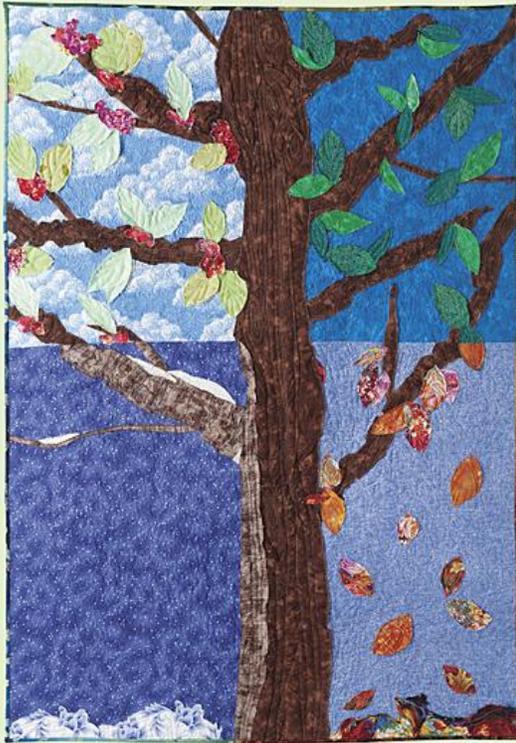
Programming coordinated through the Wallace Stegner Environmental Center and partnership with the Department of Environment, offered at the Main Library and Branch Library locations city-wide. Elements of the public environmental literacy program include:

- Summer Reading Programs 2011 will reach 12,000 children, 1000 teens, and 1000 adults with an energy-themed 2011 Summer Reading Program *Power Your Mind*.
- 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 full Green Stacks program listing
 - 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.

Lastly, a multi-branch Digital signage program is being planned to provide public display and information regarding environmental issues and sustainability. The digital signage may be 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 implementation anticipated in 10 branches in 2011.



San Francisco Public Library



The Wallace Stegner Environmental Center of the San Francisco Public Library
In association with the Contemporary Quilt and Fiber Artists presents

Primal Green Environmental Art Quilts

March 1 - July 30, 2011

Wallace Stegner Environmental Center
Main Library, 5th Floor

An exhibit of art quilts with environmental themes created by
members of the Contemporary Quilt and Fiber Artists

Earth Day Program

Art Quilt Techniques

Sunday, April 17, 2011 at 1 p.m.

Latino/Hispanic Community Meeting Room
Main Library, Lower Level

Panel discussion on art quilting techniques.
Artists' reception follows with music by renowned Bay Area
jazz musicians, including Wally Schnalle and Jeff Massanari.

Supported by Friends of the San Francisco Public Library
This is a GreenStacks program. All programs at the Library are free.

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

Art quilt: *Change of Seasons* by Jaye Lapachet

The Stegner Environmental Center
of the San Francisco Public Library presents

Stairway Walks in San Francisco

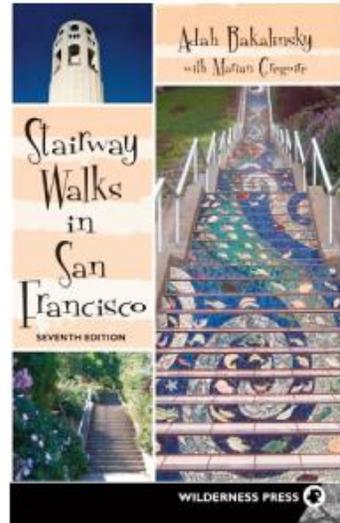
with Adah Bakalinsky

Author Adah Bakalinsky, the queen of San Francisco's majestic and quirky stairways, will appear to delight us all with her updated edition of the classic *Stairway Walks in San Francisco*. The new and updated 7th edition, charts neighborhood changes, explores public gardens, local markets, and the stories behind the buildings at the top of your favorite street. Program followed by a book signing.

Wednesday, March 2, 2011

6-7:30 p.m.

Main Library, Lower Level,
Latino/Hispanic Community Meeting Room



San Francisco Public Library

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



All programs at the Library are free.
Book sales by Book Bay



San Francisco Public Library



A Sea Change: Imagine a World without Fish

It's a frightening premise, and it's happening right now. *A Sea Change* follows the journey of retired history teacher Sven Huseby on his quest to discover what is happening to the world's oceans. After reading Elizabeth Kolbert's *The Darkening Sea*, Sven becomes obsessed with the rising acidity of the oceans and what this "sea change" bodes for mankind. His quest takes him to Alaska, California, Washington and Norway as he uncovers a worldwide crisis that most people are unaware of. Speaking with oceanographers, marine biologists, climatologists and artists, Sven discovers that global warming is only half the story of the environmental catastrophe that awaits us. Excess carbon dioxide is dissolving in our oceans, changing sea water chemistry. The more acidic water makes it difficult for tiny creatures at the bottom of the food web to form their shells. The effects could work their way up to the fish 1 billion people depend upon for their source of protein. *A Sea Change* is the first documentary about ocean acidification, directed by Barbara Ettinger and co-produced by Sven Huseby of Nijji Films.

Awards: Best Green Film, Kosovo International Documentary Film Festival; Grand Prize, Feature Documentary, FICA International Environmental Film Festival; Dumosa Award for Best Coastal Film, Cottonwood Environmental Film Festival; Best Nordic Country Film, Polar Film Festival; Aloha Accolade Award, Honolulu International Film Festival

TWO SHOWINGS

Wednesday, Jan. 26, 2011
6–7:30 p.m.

Saturday, Jan. 29, 2011
2–3:30 p.m.

Koret Auditorium
Main Library, Lower Level



Presented by the Business and Technology Center
of the San Francisco Public Library
All programs at the Library are free.
Supported by Friends of the San Francisco Public Library
Main Library 100 Larkin St. (at Grove) sfpl.org



San Francisco Public Library

The Wallace Stegner Environmental Center
of the San Francisco Public Library
and The California Academy of Sciences present

HOT **Living Through the Next Fifty Years on Earth**

Mark Hertsgaard in conversation with Healy Hamilton

Wednesday, March 23, 2011

6-7:30 p.m.

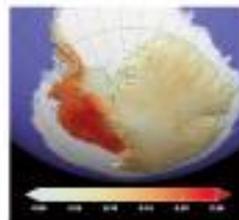
Main Library, Lower Level, Koret Auditorium

Healy Hamilton, the director of the Center for Applied Biodiversity Informatics at the California Academy of Sciences, talks with freelance science journalist Mark Hertsgaard about his latest book titled *Hot: Living Through The Next 50 Years on Earth*. In this conversation you will hear about how climate change is altering weather patterns around the world and how it will impact localized weather related events in unique and unexpected ways. Hertsgaard's book takes an optimistic look at how we can adapt to the altered state of life that comes with climatic changes.

Reservations: This is a free event but seating is limited. Reserve a space online at the California Academy of Sciences or call (800) 794-7576 to ensure your seat today. Book signing to follow.



All programs at the Library are free.
Book sales by Book Bay



San Francisco Public Library

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