GREEN LIBRARIES INITIATIVE

Presentation to the Library Commission
3/6/08
GREEN LIBRARIES INITIATIVE

- Background
- Facilities
- Vehicles
- Collections
- Programs
- Information and Ideas
GREEN LIBRARIES INITIATIVE

● Background
  – City Policies and Initiatives
    www.sfenvironment.org
  – SF Forward Building a Bright Future: San Francisco’s Environmental Plan
  – Partnership with SF Environment
GREEN LIBRARIES INITIATIVE

- Facilities
  - Sustainable Building
  - Branch Report Cards
  - Sustainable Maintenance Practices
GREEN LIBRARIES INITIATIVE

- Facilities
  - From the draft MOU with DPW (February 2008):
    Sustainable Building section – “Although the BLIP is not subject to Environment Code Section 707, SFPL desires its facilities to meet or exceed the standards for City buildings set forth in Section 707. To the extent practicable, and in consultation with the Department of Environment, DPW shall (1) ensure that the design and construction of remaining projects (Anza, Bayview, Golden Gate Valley, Merced, North Beach, Ortega, Park, Parkside, Presidio, and Visitacion Valley) achieve a level of environmental performance of a LEED Silver building and (2) evaluate all BLIP projects already bid and or constructed (Bernal Heights, Eureka Valley, Excelsior, Glen Park, Ingleside, Marina, Mission Bay, Noe Valley, Portola, Potrero, Richmond, Sunset, West Portal, and Western Addition) and all other Library facilities for opportunities to enhance their environmental performance to meet or achieve the same performance as LEED Silver.”
GREEN LIBRARIES INITIATIVE

- Facilities
  - Branch Report Cards
    - Each Library location will have access to a “report card” that shows the sustainable features of the building.
Seismic strengthening—a building that doesn't make it through the next big earthquake is not a sustainable building.

1800 square feet of photovoltaic (solar electric) panels are installed on the roof providing electricity from the sun.

Natural daylight is incorporated throughout to reduce electric lighting requirements.

New electric lighting is very high efficiency (only 1.1 watt per square foot of floor area) which reduces electricity bills and overheating.

Operable windows provide natural ventilation for improved comfort and less mechanical ventilation.

Improved insulation and high performance windows reduce energy bills.

The raised floor allows for reconfiguration of interior spaces and ease of rewiring in the future without major renovation costs.

Natural linoleum for flooring eliminates vinyl (PVC) and its negative environmental impacts (dioxin released during production and disposal).

Low-VOC (volatile organic compounds) paint improves air quality and health.

Significant amounts of demolition waste were recycled rather than going to the landfill.
GREEN LIBRARIES INITIATIVE

- Facilities
  - Sustainable Maintenance - **Engineering Unit:**
    - Use of water efficient irrigation and landscapes (w/ Rec/Park)
    - Zero VOC paints to reduce paint off-gassing and odors
    - Variable Frequency Drives (motor controllers) now installed on all major HVAC motors, results in significant decrease in energy use
    - Turning vane project reworks major ductwork to reduce airflow restrictions = lower fan speeds and reduced energy consumption
    - Major LED light conversion planned for the Main
    - Ongoing recycling of bulbs and lighting ballasts
    - Energy saving through temperature controls
    - Facilities Office pilot project showcasing green building techniques and materials, including light shelves at windows, green flooring materials, improved lighting controls, use of certified wood products.
    - Hazmat training & abatement procedures in place partnering w/ DPH
GREEN LIBRARIES INITIATIVE

● Facilities
  - Sustainable Maintenance - **Custodial Unit**:
    ● All paper products purchased are green certified
    ● Use of cleaning products on city’s environmentally preferred chemicals list, such as citrus based spot cleaners, drain cleaners, odor eliminators, & soy graffiti removers
    ● We now use wet mops that are made from recycled content.
    ● Hepa (high efficiency filtering) vacuums are used throughout the Library system
    ● Walk off mats and metal grates at entrances cut down on entry of dust and dirt
    ● Recycling program meets State of California goals
    ● Pest management is provided in compliance to the city’s green ordinances
GREEN LIBRARIES INITIATIVE

- Facilities
  - **Stockroom Operations**
    - Paper supplies range from 10 to 30% recycled content
    - Rechargeable batteries are stocked per City ordinance
  - **System-wide**
    - 70% recycling of waste stream
Recycling at San Francisco Public Library

San Francisco Public Library diverts 70% of its waste from landfill through recycling procedures. The library continues to improve the program with the rollout of blue recycling bins, consistent with the City's design.

- Recycling saves natural resources.
- Recycling saves the City money.
- Recycling saves landfill space.

Attend the staff meeting on Friday, March 7th at 9:30 a.m. in the Atrium to learn more about the history of recycling in San Francisco, the rollout of the recycling bins, and our goal to 75% diversion by 2010.

For more information contact Darren Brown at dbrown@sfpl.org or 557-4377 and Soko Made at soko.made@sfgov.org or 355-3772.
GREEN LIBRARIES INITIATIVE

- Vehicles
  - New Bookmobile
  - Plug-in hybrid car
  - Biodiesel and CNG engines
New Green Ideas: Solar Cooling

- **Solar** (Photovoltaic) cell charges batteries to power...
- **Fan-tastic Vents®** – hand crank open, clear dome, clear blades, provides natural light, and 2-way, 3-speed ventilation)

$1,200 ea. + $750 ea. = $1,950 ea.
New Green Ideas: Sunshine

Clerestory – more windows let the sun shine in!

$0.00 + = $100 ea.
New Green Ideas: Recharge

**Laptop Battery Power** – with newer, energy efficient laptops, extended battery life, extra back-up batteries, and adequate natural light, *diesel generator is not always necessary.*

$0.00 + $100 ea. = $100 ea.
New Green Ideas: Tree Hugging

**FSC Wood Shelving** – Forest Stewardship Council – “Its product label allows consumers worldwide to recognize products that support the growth of responsible forest management worldwide.”

~$3000 additional
2007 Cummins Diesel Engine – 2007 Diesel engines meet new EPA regulations which have eliminated NOX (nitrogen oxide) and reduced Hydrocarbons by 50% and Particulate Matter (PC) by 90% (compared to 2006 emission standards), and can run on ultra low sulfur diesel.

Zero Nitrous Oxide
-50% Hydrocarbons
-90% Particulates
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- Vehicles
  - New Bookmobile
  - Plug-in hybrid car
  - Biodiesel and CNG engines
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• Collections
  - The Green Minilist Committee:
    Kathy Hunsicker, CDO Librarian (Chair)
    Blaine Waterman, Info Services
    Melissa Riley, West Portal
    Sally Wong, Chinatown
    Cella Mitchell, Stegner Center librarian
    Laura Lent, Collection Development Manager
GREEN LIBRARIES INITIATIVE

Collections

- Accomplishments:
  
  ● Prepared a green “mini” selection list of about 190 fiction and nonfiction books and DVDs on environmental topics (**November 2007**)
  
  ● Drafted an annotated print bibliography of fifty recommended green titles held by SFPL, including local interest, how-to, general nonfiction, fiction and DVDs. (**to be available by Earth Day**)
  
  ● Planning a much longer online bibliography (**May or June**)
GREEN LIBRARIES INITIATIVE

- Programs
  - Staff Committee
  - Wallace Stegner Center Librarian Position
  - Planned Programs
  - The Climate Project; 4/6, 2:30PM, Koret Auditorium (also on 4/22, 6/4, 6/7)
  - Green Building!; 4/22, 2PM, Latino/Hispanic B
  - Lead in Lipsticks, Dioxane in Baby Shampoo? 5/18, 12:30PM, Koret Auditorium
  - What about our Water? 5/24, 12PM, Koret
  - Slow Food; 8/30, 12PM, Koret Auditorium
GREEN LIBRARIES INITIATIVE

- Information and Ideas
  - “Green Spot” proposal
  - Environment-friendly Library Cards