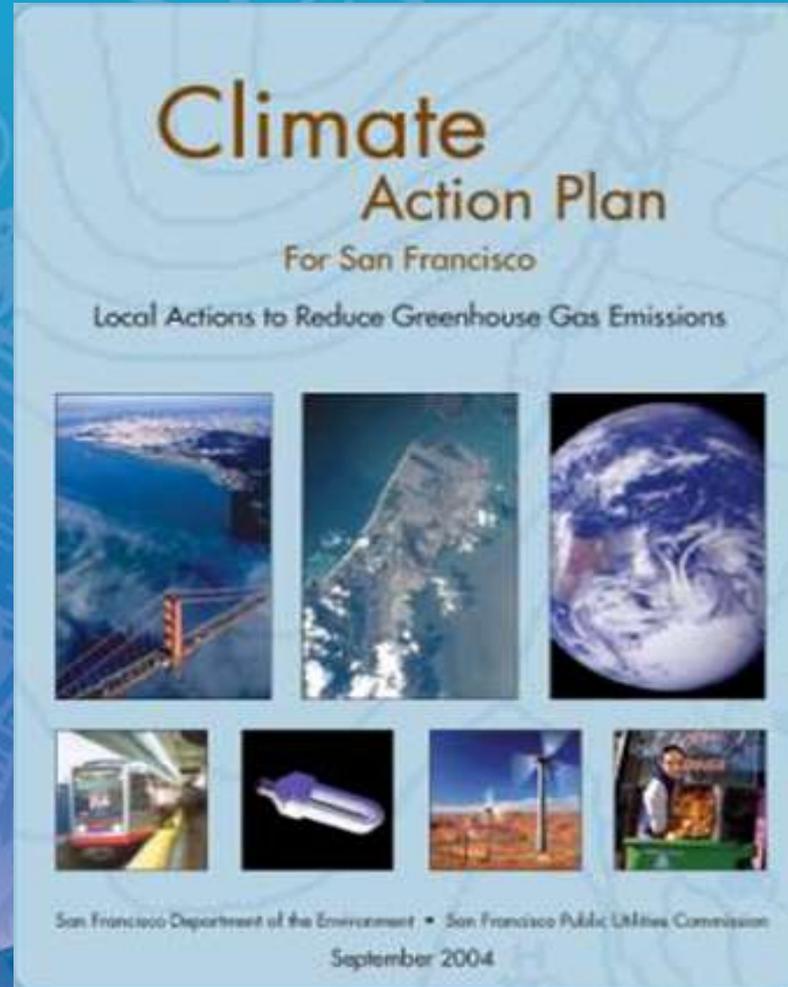


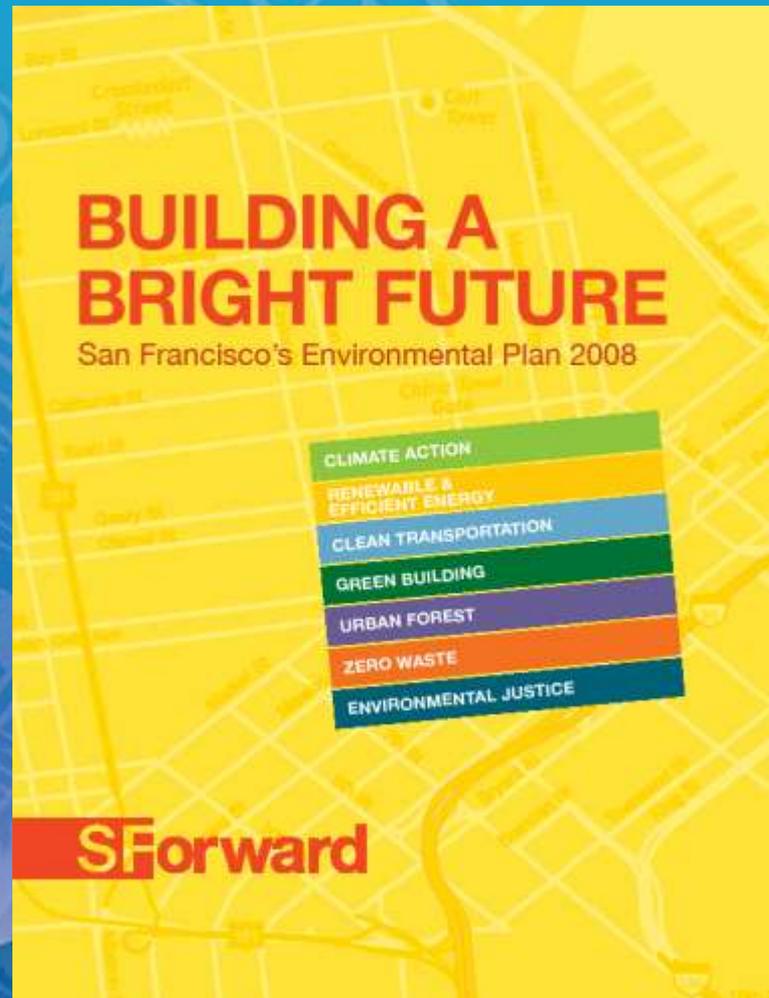
# ENVIRONMENT/ ENERGY



# Local Climate Plan



# SForward



# Green Building Legislation

Toughest standards in the nation

- Commercial buildings to meet LEED Gold
- Residential to achieve GreenPoint-rated criteria

Expected savings through 2012:

- 220,000 megawatts of power
- 60,000 tons of CO<sup>2</sup>
- 100 million gallons of drinking water
- 90 million gallons of waste water
- 700 million pounds of construction waste



# Solar Plan



# SFsolarmap.org

The screenshot shows the SF Solar Map website in a Windows Internet Explorer browser. The browser address bar shows the URL [http://www.solarmap.org/dev\\_site2/](http://www.solarmap.org/dev_site2/). The website header includes the "San Francisco Solar Map" logo and navigation links for "Map", "Satellite", and "Hybrid". A data popup for "1 Union St" is displayed over an aerial map view, providing the following information:

1 Union St	
Roof Size:	15000 sq. ft.
Estimated solar PV potential:	38 - 75 kW
Estimated electricity produced:	41610 - 82125 kWh/yr
Estimated electricity savings:	\$6346-\$12524 per year
Estimated carbon savings:	68856 - 135900 lbs per year

Below the table, there are links for more information: "Click here for a more detailed estimate", "Click here to find a solar installer", and "Click here for more information on installing solar". A disclaimer link is also present: "How the estimates were derived - Disclaimer".

On the right side of the website, there are sections for "Map Details", "Director's Message", "Markers" (with icons for "Current solar users" and "Case studies"), "What Can Solar Do For You?", and "SF Solar Facts". The "SF Solar Facts" section includes:

- Installations:
  - Current: 554
  - 2010 Goal: 10,000
- Energy produced (MWh):
  - Current: 3,395
  - 2010 Goal: 51,271
- Annual savings:
  - Current: \$9,38M
  - 2010 Goal: \$1.0M
- CO<sub>2</sub> Reduction (lbs):
  - Current: 2.5M
  - 2010 Goal: 45.7M

A thermometer graphic indicates the progress towards the 2010 goal, with a red ball at the bottom and the number "5%" next to it.

At the bottom of the browser window, the status bar shows "(1 item remaining) Downloading picture http://mt1.google.com/mt?h=4046v=apt.543x=83885&y=202600&zoom=-2..." and the system tray shows "Internet" and "100%" zoom.

# Recycling

SF has achieved 70% diversion of waste materials, the highest recycling rate of any city in the nation.

**MANDATORY RECYCLING** is key to meeting goal of 75% diversion of waste materials by 2010.



# Bottled Water



# Plastic Bags



# Styrofoam



## Biofuels/Energy

San Francisco's entire diesel fleet runs on B20 biodiesel, including buses and fire trucks.

By next spring, San Francisco will have a biodiesel facility operating within city limits, making up to 10,000,000 gallons for biofuel from 100% recycled fats, oil and grease.



# Muni – 100% Biodiesel



## **Local Carbon Fund**

- **Mitigating or “offsetting” greenhouse gas emissions with local activities.**
- **Carbon offsets for projects in San Francisco, that directly benefit San Francisco.**
- **No more funding programs in far away locations that are difficult to verify.**
- **Pilot program: municipal air travel emissions**
- **Highlights the true costs of carbon intensive activities**

# Wind Power

## Wind Power Taskforce

Turbines installed to test urban wind conditions in the City.

- 3 “vertical axis” turbines on homes in Bernal Heights
- 1 “horizontal axis” turbine at La Casa Verde (Sunset Idea House) in the Mission
- 1 “vertical axis” turbine at the Randall Museum
- Treasure Island
- Civic Center



# Wave

- **Conducting a pilot study to determine just how much potential there is to generate wave power off of San Francisco's coast.**
- **Complete by early spring 2009.**



## Tidal

- Currently completing studies to determine how much energy the tides under the Golden Gate will generate, and where best to locate an exhibition project.
- A ridge that rises high above the Bay floor east of the Golden Gate Bridge has been identified as the likely site for a pilot project that could power homes and businesses by capturing the power of the tides.
- An underwater turbine placed on the 150-foot high ridge could generate enough clean energy to power 1,000 to 2,000 homes during peak tide currents.



# Energy Efficiency



# Alternative Vehicles

Since 2006: alternative fuel vehicles increase 72%

25% of taxi fleet is Compressed Natural Gas (CNG) or hybrid vehicles

2008 legislation:

- 75% alternative fuel fleet expected by 2011



# Electric Vehicles (EV)



## **Electric Vehicles (EV)**

- **Nine-step policy plan for transforming the Bay Area into the Electric Vehicle (EV) Capital of the U.S.**
- **Commercial availability of electric cars from major auto companies is targeted to begin in 2010.**
- **Investment in the Bay Area will total \$1 billion when the system is fully deployed.**
- **Plan will help achieve energy independence, protect the environment by reducing greenhouse gas emissions, and boost the economy by providing jobs in an emerging manufacturing sector.**

# CarShare



# Bike Plan 2010



# CleanTech Sector

- **Venture capital investments in CleanTech companies reached a record \$2.6 billion in Q3 08, up 17% from the previous quarter.**
- **California dominates domestic CleanTech investment, completing 68 deals year to date. Number 2 ranked Massachusetts saw only 11 deals.**
- **3 of the top Bay Area VC firms alone did 57% of the California deals and 26% of the total US deals. (Darper Fisher Jurvetson; Koshla Ventures; and Kleiner Perkins Caufield & Byers)**
- **118 San Francisco-based CleanTech companies**
  - **-Suntech**

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  - **-Trina**

# 2008 STATE OF THE CITY



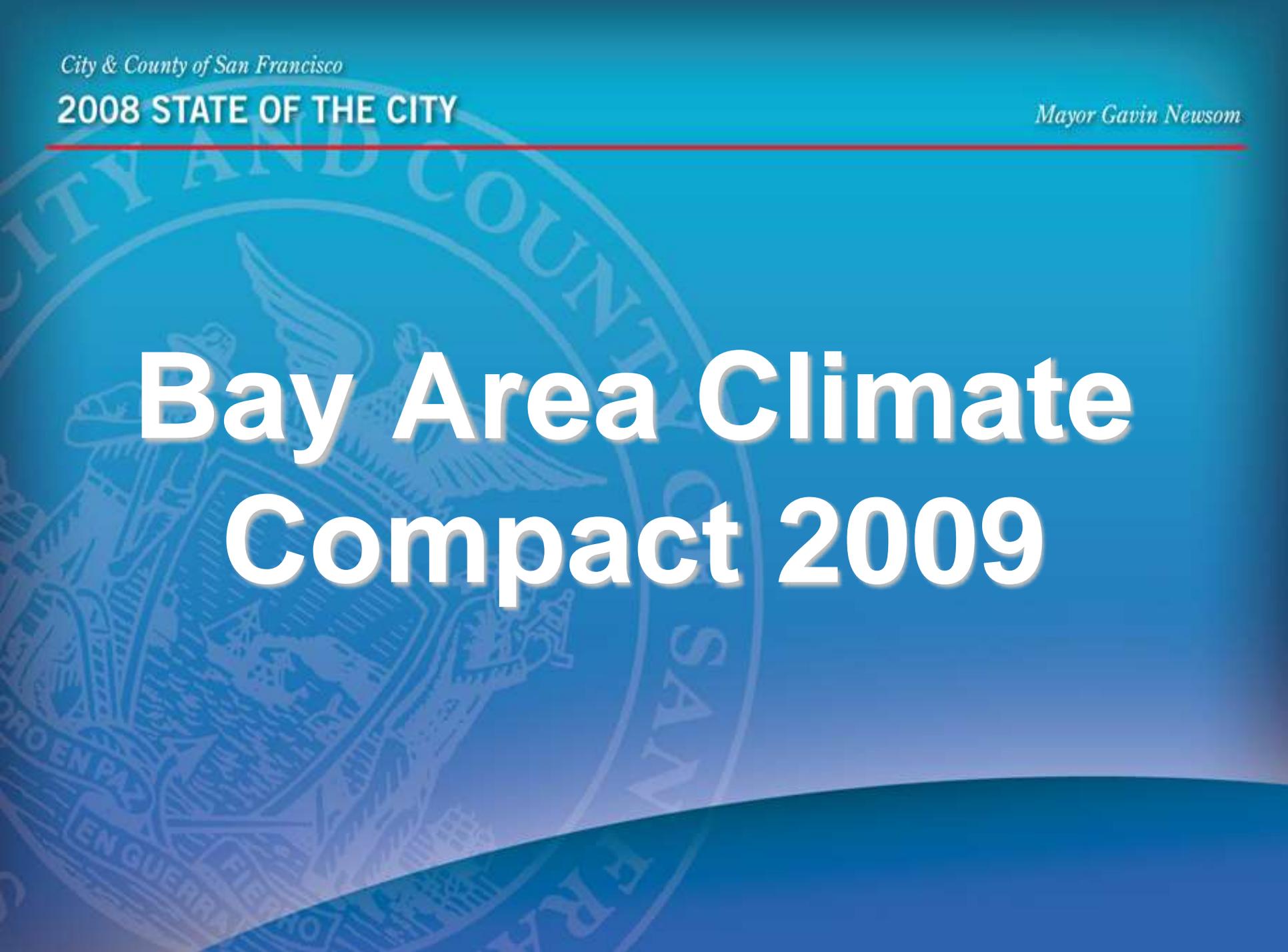
*City & County of San Francisco*

**2008 STATE OF THE CITY**

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*Mayor Gavin Newsom*

# Bay Area Climate Compact 2009

The background features a large, faint, circular seal of the City and County of San Francisco. The seal contains the text "CITY AND COUNTY OF SAN FRANCISCO" around the perimeter and "1847" at the bottom. In the center, there is a figure holding a scale and a sword, with the motto "EUREKA" above and "PRO EN PAZ" below. The seal is rendered in a light blue color, matching the overall theme of the slide.

# BC3

[www.bc3sfbay.org](http://www.bc3sfbay.org)



# Partnership with Cisco/ConnectedBus



## SFCVB's "Ecothusiasm"

SF Convention and Visitor's Bureau (CVB) is two steps away from being certified as an official Green Business.

Highlights include:

- 100% post-consumer paper in our copiers and letterhead, etc.
- Soy-based ink in letterhead, etc.
- Plastic water bottles removed from vending machine
- 75% of staff rides public transportation to work

## GREEN SF



Hybrid taxis. Solar-powered convention center. The green movement sweeping the world and giving impetus to such movements as "eco-tourism" is transforming San Francisco from grass roots to rooftop. **Welcome to Green SF.**



Mayor Gavin Newsom has pledged to convert 100 percent of San Francisco's taxi fleet to hybrid or alternative fuel vehicles by 2011.

## GREEN SAN FRANCISCO

### Green your trip

Green Itineraries in San Francisco

**Ideas, Itineraries and Innovations.** Outdoor recreation, public transportation, ecotourism, it's all good.

[Green your trip >](#)

### Green your meeting

Tips to 'Green' your meeting

**Venues, Vendors and Tips.** Increase attendance while decreasing impact. In this city, it's only natural.

[Green your meeting >](#)

### Green your business

Tips to 'Green' your business

**Links, Resources, Best Practices.** Find the people and places that can make green work for you.

[Green your business >](#)



### Green Journeys

One of the top 10 Best U.S. Walking Cities according to the American Podiatric Medical Association, San Francisco is the ideal turf to do a little sole searching. Visitors can explore the neighborhoods on self-guided walks of Union Square, Fisherman's Wharf, Chinatown, North Beach and Pacific Heights or explore the city step by step with City Guides. More than 30 free tours are offered by this volunteer-based group which is celebrating its 30th anniversary in 2008.



From the Mayor's Office

• San Francisco is green, clean,



Welcome to the home of Ecothousiasm

In San Francisco, we're more than



Eco 411 | Our green blog

Listen to what San Francisco's community of 'Ecothousiasts' are doing

### Green San Francisco in the News

- On June 10, 2008 the San Francisco Board of Supervisors passed legislation to implement a 10-year solar rebate program for local residents, businesses and non-profits. It is the first solar rebate of its kind and size offered by a city in the U.S. and will create the nation's largest municipal solar program.
- On July 1, 2007 city departments and agencies were banned from purchasing single serving bottles of water using city funds, unless an employee contract specifies usage. This prohibition applies to city contractors and city funded and/or sponsored events.
- On June 1, 2007 local restaurants were banned from using Polystyrene foam (Styrofoam™) disposable food service ware. A list of providers of compostable products is posted at

# Phthalates

- **Phthalates were banned in Europe in 1999, but our Federal government saw no reason to take action.**
- **San Francisco led the effort to remove children's toys containing phthalates from store shelves.**
- **We banned these chemicals in San Francisco, and soon afterward Assemblymember Fiona Ma passed a law banning them in the state of California.**
- **Then, through the leadership of Senator Feinstein, phthalates were banned nation-wide, showcasing the power of local governments like San Francisco to influence and change Federal policy.**

# Greening



# Greening

## Additional \$14 million from Federal Government

- San Bruno Avenue– Districts 9, 10
- Van Ness Avenue – District 6
- Polk Street – District 3
- Valencia Street – Districts 6, 8, 9
- Balboa Street – District 1
- Divisadero Street – District 5
- Leland Avenue – District 10
- 19th Avenue – Districts 4, 7
- Ocean Avenue – District 11
- Cesar Chavez Street – District 9
- Chestnut Street – District 2



**Median strips**  
**Gateways**  
**Hanging baskets**

# Great Streets

## TREES FOR TOMORROW

The Goal: 25,000 Trees Planted in 5 Years

- Planted 21,429 trees on new and existing tree locations by Arbor Day 2008
- Projected to exceed the goal by 1,582 trees by Arbor Day 2009



**Alemany  
Boulevard**  
(Drought Tolerant  
Trees & Plants)



**Geary  
Boulevard**  
(Decorative Fence &  
Plants in  
partnership with  
Kaiser)

# Transform Market Street Medians into a Safe and Sustainable Urban Garden



*Proposed*



*Before*

# Gateway Garden

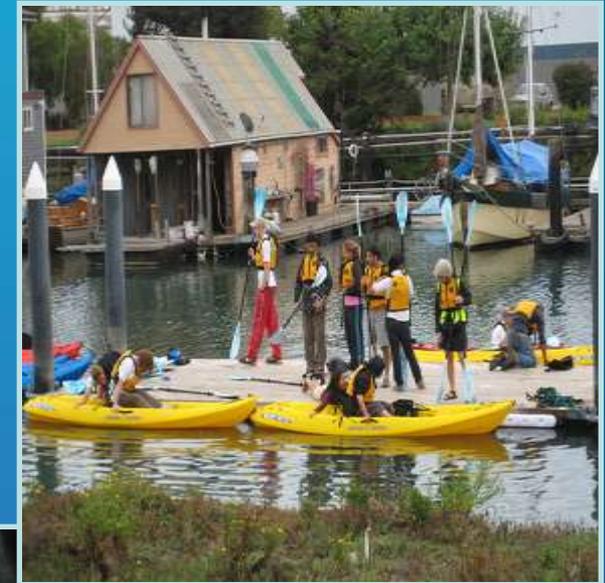


***Mission & Duboce***

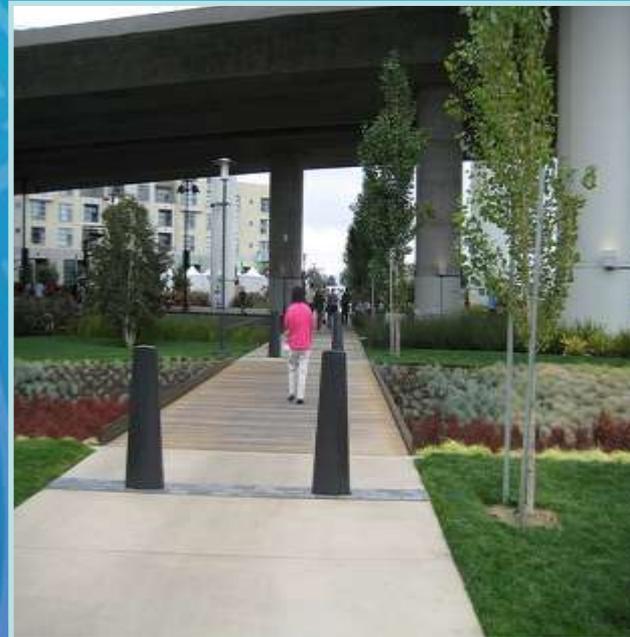
# Blue Greenway

**ON-GOING - \$33.5M from 2008 Clean & Safe Park Bond**

- One-year long planning following with construction for initial projects i.e. site furnishings, site signage, and public art as identity for the Blue Greenway
- Expanded and improved entry to Heron's Head Park and shoreline protection to Mission Bay Park (by 2009)
- Pier 43 Promenade: completing a link in the Regional Baytrail system, and new bayside public access and open space (by 2009)
- Brannan Street Wharf 1.5 acre plaza and park (by 2009)



# Blue Greenway



## COMPLETED:

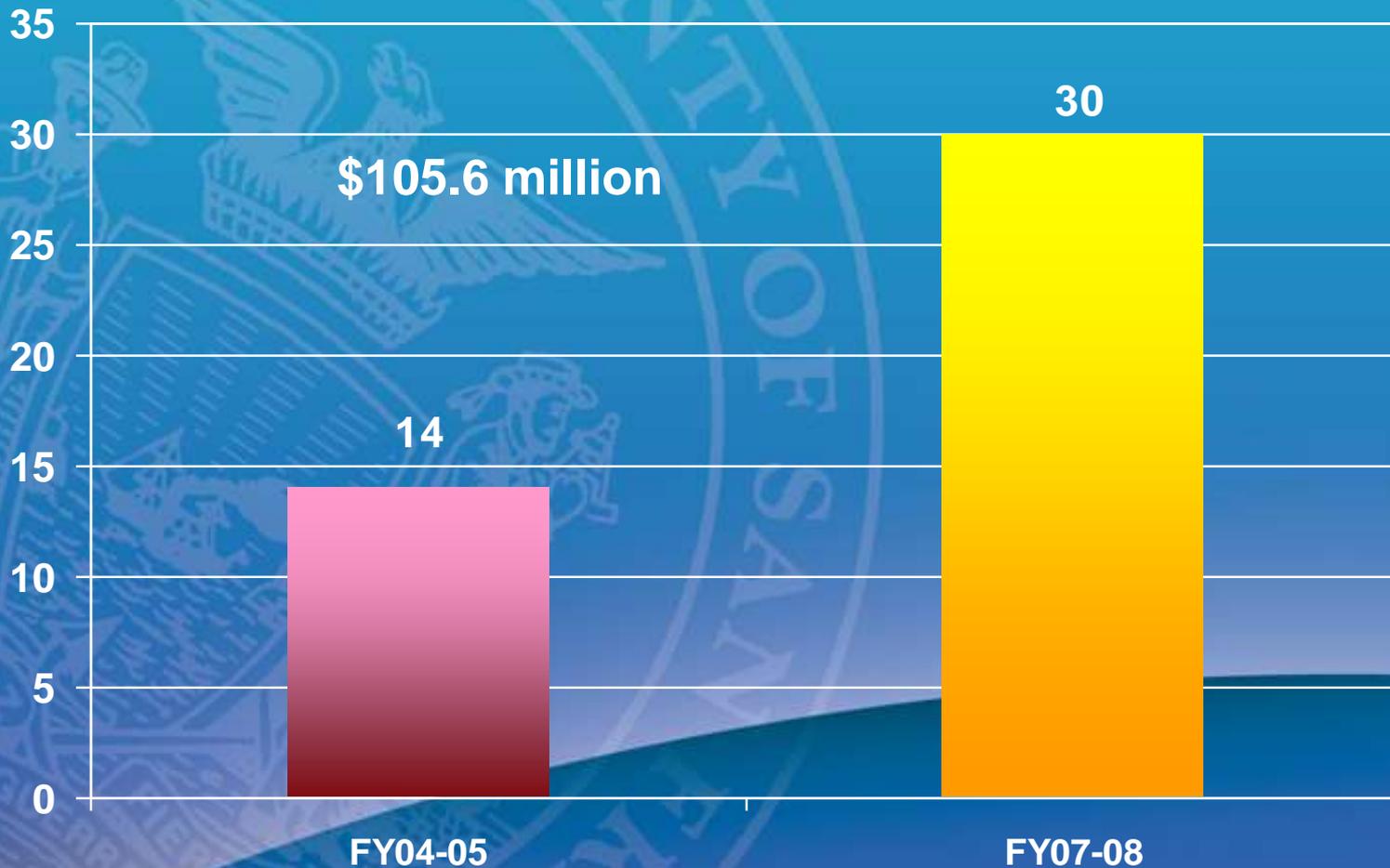
- 4.5 acre of Mission Bay Sport Park as part of a 40-acre Mission Bay Park Open Space System
- Utilizing spaces under expressway as new urban park with sand-court, basketball court, and kayak facilities.

# Landscape Ordinance

**“SF Standard” regulates:**

- **Planting, Maintenance, or Removal of Trees and Landscaping on Public Sidewalk Areas (completed)**
- **Planning Department Codes regulating Street Trees AND Screening of Off-Street Vehicular Use Areas i.e. parking, drop-off, gas station, car wash, among Planning Codes (in-progress)**
- **Stormwater Guidelines regulating Stormwater Treatment that provide bonuses for greening in areas visible to the public and along the street (early 09)**

# Capital Funding for Parks



# 90 Completed Parks Projects

- Alamo Square
- Alta Plaza
- Angelo J. Rossi Playground
- Aptos Playground
- Argonne Playground
- Balboa Natural Area
- Balboa Park
- Bay View Playground
- Bernal Heights Park
- Brooks Park
- Brotherhood & Head Mini Park
- Buena Vista Park
- Carl Larsen Park
- Corona Heights
- Crocker Amazon Playground
- Douglass Playground
- Duboce Park
- Esprit Park
- Eureka Valley Playground
- Excelsior Playground
- Fay Park
- Ferry Park
- Fillmore & Turk Mini Park
- Franklin Square
- Garfield Square
- Geneva Car Barn
- Glen Canyon Park
- Hamilton Rec Center
- Hawk Hill
- Hayward Playground
- Helen Wills Playground
- Herz Playground
- Holly Park
- India Basin Shoreline Park
- James Rolph Jr Playground
- Japanese Peace Plaza
- Jefferson Square
- Joe DiMaggio Playground
- Joseph Lee Rec. Center
- JP Murphy Playground
- Julius Khan Playground
- Junipero Serra Playground
- Kelloch & Velasco Park
- Kid Power Park

## 2008 STATE OF THE CITY

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- Koshland Park
- Lake Merced Park
- Lessing & Sears Mini Park
- Lincoln Park
- Little Hollywood Park
- Louis Sutter Playground
- McCoppin Square
- McLaren Park
- Midtown Terrace Playground
- Miraloma Playground
- Mission Playground
- Moscone Rec Center
- Noe Valley Courts
- Ocean View Playground
- Palace of Fine Arts
- Palou & Phelps Park
- Parkside Square
- Parque Ninos Unidos
- Pine Lake Park
- Pioneer Park/ Telegraph Hill
- Portsmouth Square
- Potrero Del Sol Park
- Potrero Hill Mini Park
- Potrero Hill Playground
- Raymond Kimbell Playground
- Richmond Rec. Center
- Rochambeau Playground
- Sgt. John Macauley Park
- Sigmund Stern Grove
- Silver Terrace Playground
- South Sunset Playground
- St Mary's Square
- St. Mary's Playground
- Sunnyside Conservatory
- Sunnyside Playground
- Union Square
- Upper Noe Playground
- Victoria Manalo Draves Park
- Visitacion Valley Greenway
- Visitacion Valley Playground
- Walter Haas Playground
- Washington Square
- West Portal Playground
- West Sunset Playground
- Who Hei Yuen
- Youngblood Coleman Playground

# Active Parks Projects

- Bayfront Park
- Brannan St Wharf
- Cabrillo Playground
- Cayuga Playground
- Chinese Rec Center
- Crane Cove Park
- Fulton Playground
- Islais Creek
- Lafayette Park
- McCoppin Square
- Mission Dolores Park
- Mission Playground
- Palega Playground
- Pier 43 Promenade
- Raymond Kimbell Playground
- Southern Gateway at Heron's Head
- Sunset Playground
- Warm Water Cove

# Victory Garden

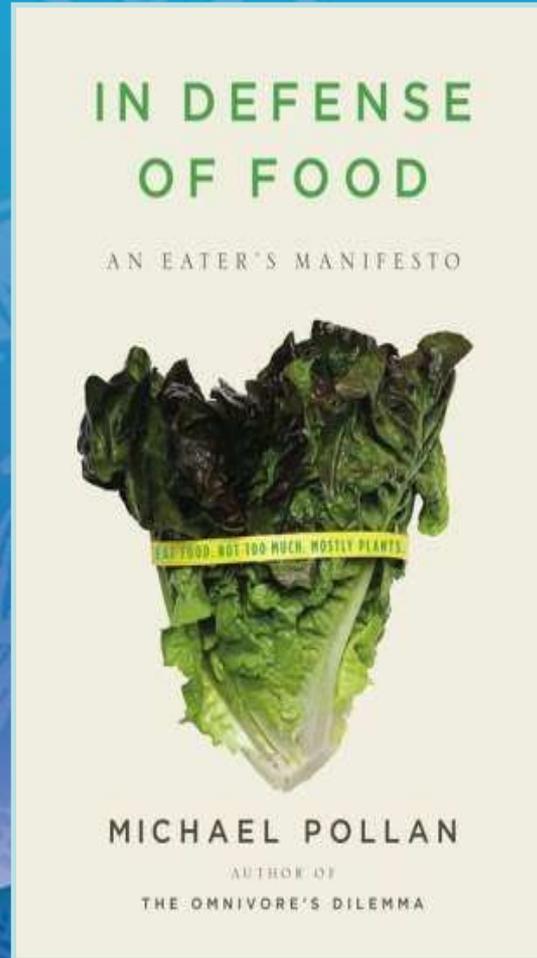
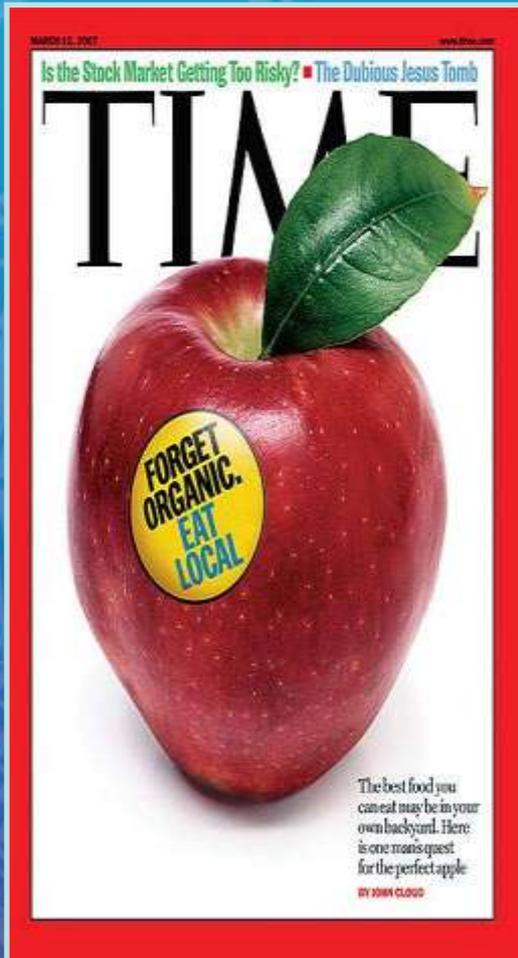
- **Part of Slow Food Nation goals to grow locally and live sustainably**
- **15 neighborhood Victory Gardens**
- **Civic Center Victory Garden**
  - Helps feed the homeless
  - Seeds from its plants will be distributed free to gardens across the city
  - Over life of garden, estimated to yield 1,300 lbs of organic produce – about 100 lbs per week



# Farmers' Markets



# San Francisco's Food Policy



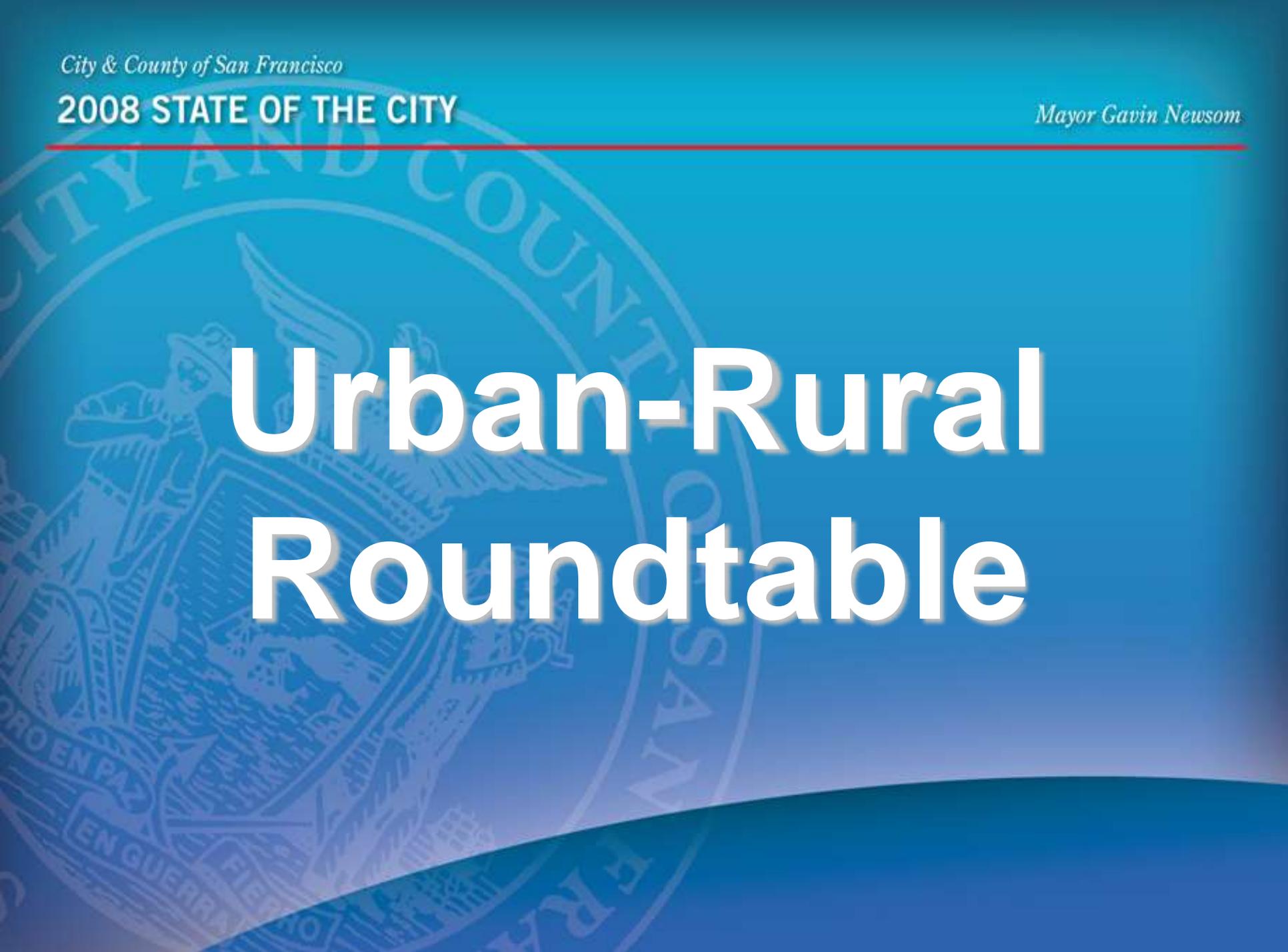
*City & County of San Francisco*

**2008 STATE OF THE CITY**

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*Mayor Gavin Newsom*

# Urban-Rural Roundtable

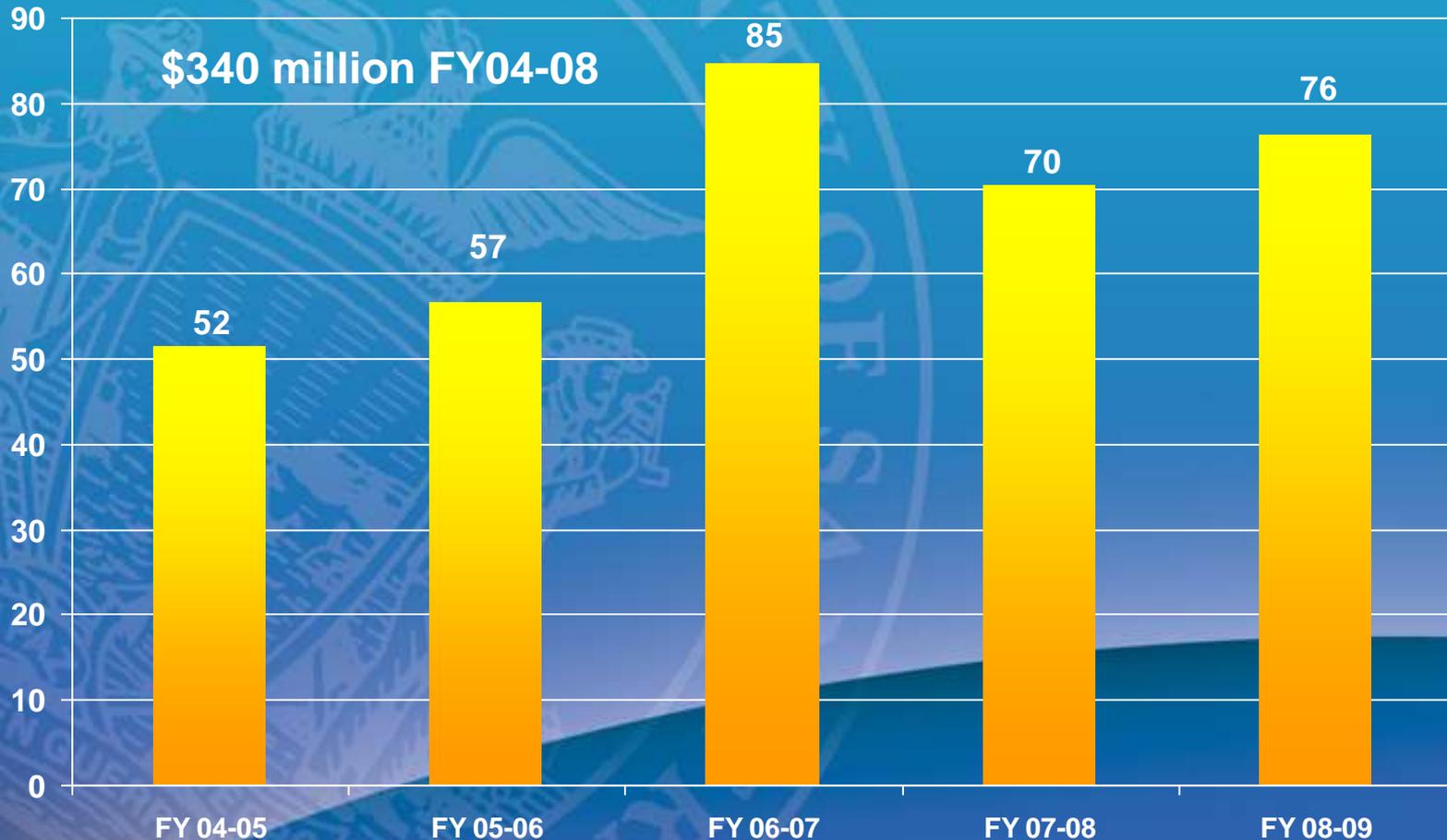
The background of the slide features a large, faint, light blue seal of the City and County of San Francisco. The seal is circular and contains a central figure holding a staff and a shield, surrounded by the text "CITY AND COUNTY OF SAN FRANCISCO". The seal is partially obscured by the large white text of the title.

# Closed Hunters Point Power Plant

- Closed out-dated Hunters Point Power Plant.
- Plan in place for closing Potrero Power Plant.
- No new fossil fuel power plants in San Francisco.
- Focus on renewable sources of energy such as solar, wind and alternative fuels.



# Federal Funding for Hunters Point Shipyard Cleanup



# Heron's Head Park Living Classroom Completely Off the Grid



# Potrero Power Plant



# Potrero Power Plant

**Goal:** Cleaner energy, while ensuring power grid stability

**Key Steps:**

1. Retrofit Units 4, 5, and 6 so they are 90-97% cleaner
2. Shut down Unit 3
3. Within 10 years, aggressively identify and implement enduring, clean energy solutions

# Civic Center Sustainable Resource District



Conceptual Rendering

# Civic Center Sustainable Resource District

## rethinking san francisco civic center



visit



discover



market



practice



surf



celebrate



germinate



recreate



congregate



perform



assemble



picnic



interact



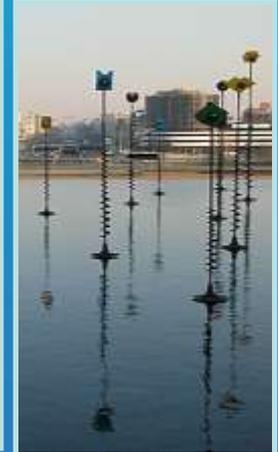
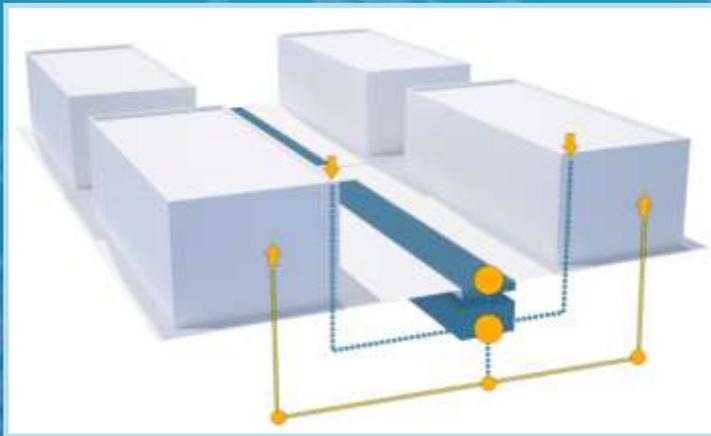
meet



create

# Civic Center Sustainable Resource District

*Water Management System: Fixture Efficiency, Rainwater Harvesting*



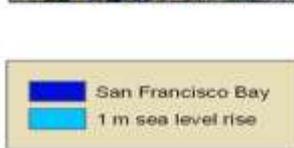
*Interactive & Alternative Energy: Solar, Wind, Kinetic*



- *Global Model for Vibrant and Sustainable District*
- *Incubator for Sustainable Concepts*
- *2,225 Ton Community Carbon Footprint Reduction*
- *(equal to 1,286 annual SF households emission)*
- *80% Potable Water Use Reduction*
- *45% Wastewater Discharge Reduction*
- *35%+ Energy Use Reduction*

# Adaptation

## San Francisco Bay Scenarios for Sea Level Rise SFO



Map is based on USGS 2m DSM and National Agriculture Imagery Program data. Map is illustrative and depicts a potential inundation scenario in 2100. Limitations in the geospatial data available may affect accuracy. Map should not be used for planning purposes.

# Litter Survey/Goals

- Goal to reduce litter 50 percent by 2012.
- Between this year at last, our street litter survey shows decrease of 19%.
- Met with fast food restaurants and cafes to help develop litter reduction plan.
- The amount of styrofoam litter has decreased 36% from last year. This may be attributable to the styrofoam ban that took effect this past year.

The "Dirty Dozen" of San Francisco's litter, the top twelve brands found on the city's streets were:

1. McDonalds
2. Marlboro
3. Starbucks
4. Wells Fargo
5. Burger King
6. Taco Bell
7. Safeway
8. Walgreens
9. 7-Eleven
10. Muni
11. Popeye's
12. Jack in the Box

# Community Corridors

Clement  
Irving  
Haight  
Divisadero  
Chestnut  
Polk  
Larkin  
Columbus  
Grant  
Stockton  
Mission  
24th Street  
West Portal  
Ocean  
Diamond/Chenery/Bosworth  
Third Street  
San Bruno  
Leland

Geary  
Kearny  
Stockton  
Polk  
Taraval  
Haight  
Divisadero  
Irving  
16<sup>th</sup> Street  
Valencia  
Church  
18<sup>th</sup> Street  
24<sup>th</sup> Street  
Potrero  
Leland  
Geneva  
Naples

# Graffiti

## In 2008:

- **Graffiti removed from 25,917 public structures**
- **4,522 notices to private property owners**
- **Community Corridors Partnership – 200 blocks**
- **Implement Graffiti Reward Fund**