

## RESOLUTION NO. 2009-055

Adopted by the Sacramento City Council

January 27, 2009

### ADOPT THE 2009 SUSTAINABILITY IMPLEMENTATION PLAN

#### BACKGROUND

- A. As a major landowner, employer, building manager, fleet operator, utility owner and operator, consumer of goods and services, and service provider, the City of Sacramento has both the opportunity and the capacity to bring about significant improvements in environmental quality in and around the region through the 2008 Sustainability Implementation Plan.
- B. On December 18, 2007, Mayor and City Council adopted Resolution No. 2007-944 approving the Sustainability Master Plan – *Creating a Sustainable City*. The Sustainability Master Plan is meant to serve as a policy framework for the City of Sacramento to ensure that sustainability is incorporated into the City's decision making processes.
- C. The 2009 Sustainability Implementation Plan identifies key initiatives that staff plans to implement in 2009 to move the City toward the goals and targets identified in the Master Plan. The Implementation Plan was developed by subject matter experts within the City and the community. Given the state of the City's budget, the initiatives within the Plan can be implemented using existing resources.

#### BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

Section 1. The 2009 Sustainability Implementation Plan is approved.

#### Table of Contents:

Exhibit A – 2009 Sustainability Master Plan

Adopted by the City of Sacramento City Council on January 27, 2009 by the following vote:

Ayes: Councilmembers Cohn, Fong, Hammond, McCarty, Pannell, Sheedy, Tretheway, Waters, and Mayor Johnson.

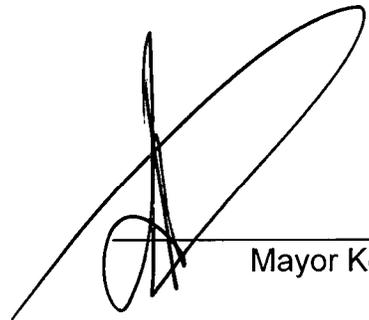
Noes: None.

Abstain: None.

Absent: None.

Attest:

  
Shirley Concolino, City Clerk

  
\_\_\_\_\_  
Mayor Kevin Johnson

# Creating a Sustainable City: 2009 Implementation Plan

City of Sacramento



City of Sacramento  
**GENERAL SERVICES**  
*"WOW!" the Customer*



## Mayor

Kevin Johnson, Mayor

## City Council

Raymond L. Tretheway III  
Sandy Sheedy  
Steve Cohn  
Robert King Fong  
Lauren Hammond  
Kevin McCarty  
Robbie Waters  
Bonnie Pannell

District One  
District Two  
District Three  
District Four  
District Five  
District Six  
District Seven  
District Eight

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# Executive Summary

In December 2007, the Mayor and City Council adopted the City's first Sustainability Master Plan. This Plan is the City's road map to creating a sustainable City. It sets forth goals and long term targets that will guide the City and community towards reducing greenhouse gas emissions and a greener path of doing business and living.

The 2009 Implementation Plan is the City's plan over the next 12 months to move us towards our long term targets of sustainability. Also included in this document are the successes the City had in 2008. This document also contains the City's longer term intended actions for 2012 and 2030. Finally, because the City's 2030 General Plan contains many sustainability implementation items they were included in this Plan.

## **2009 Implementation Plan Highlights**

Some of the major highlights of the implementation Plan include:

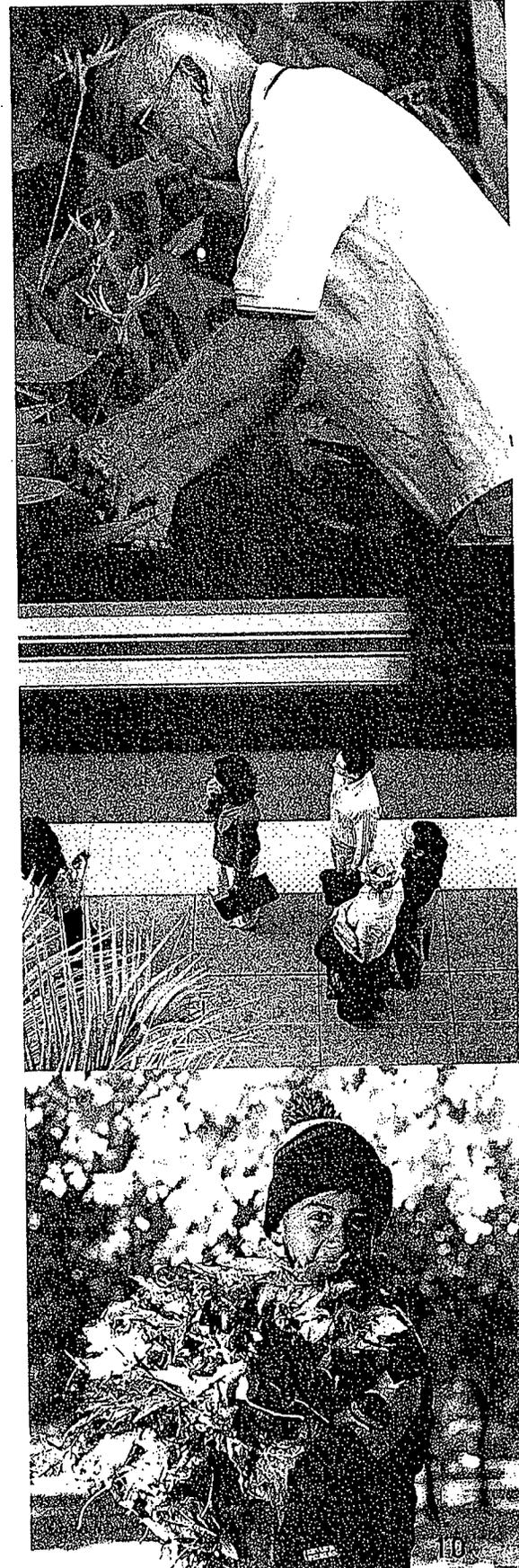
**Performance contracting.** In September 2008, through a competitive process, the City chose a performance contracting firm to review its facilities, make recommendations for energy efficiency improvements, and construct the improvements. This is a multi-year project that will be completed in phases. This year, staff plans to get the first set of facilities through all phases of the project and begin construction of the improvements.

**Solar for City Buildings.** The City is developing a Request for Proposals for Solar Photovoltaic Power Systems Installation. The City hopes to use a power purchasing mechanism to partner with a private company to install up to 5,000 kW of solar on City facilities.

**Communitywide GHG Inventory.** Staff is working with the county, incorporated cities, and SMUD to complete a communitywide greenhouse gas inventory. The inventory will provide greenhouse gas emissions by major sector. In addition, it will serve as the baseline for the City's Community Climate Action Plan.

**Construction and Demolition Debris Recycling Ordinance.** Staff will be bringing forward the Construction and Demolition Debris Recycling Ordinance for Mayor and Council adoption in early 2009. When this ordinance is fully implemented, diverting this material from the landfill to recycling will increase the City's recycling rate by 8-10 percent.

**Sustainable Purchasing Policy.** Staff began development of this policy in 2008 and will continue in 2009. This policy will set guidelines and possibly requirements for purchasing sustainable products for city operations.



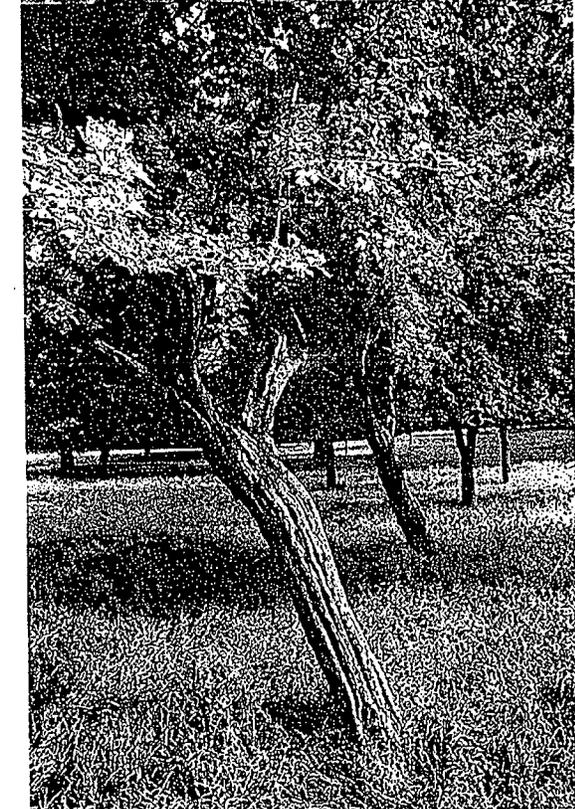
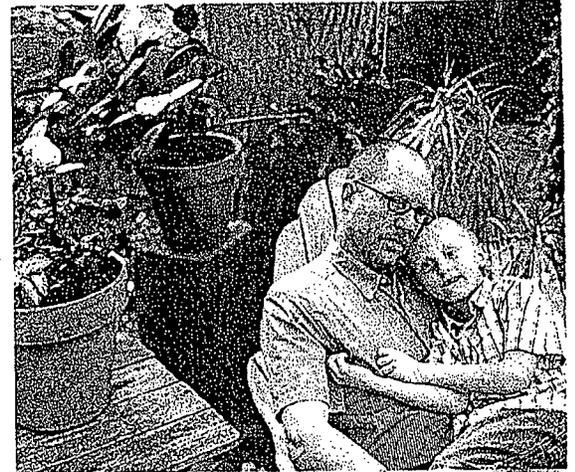
**Sustainable Transportation Modes.** Staff will conduct studies and prepare new standards, guidelines and ordinances to implement new 2030 General Plan mobility goals and policies, and will work on a number of projects to encourage the use of more sustainable modes of travel. These include a study to identify gaps in transit services and a strategy to fill the gaps, development of an ordinance for bicycle support facilities, and installation of an additional 150 converted parking meter poles into bike parking devices.

**Countywide Green Building Program.** Staff will coordinate with Sacramento County to establish a County-wide advisory committee to guide phase two of the Green Building Program.

### ***How to Read This Document***

The 2009 Sustainability Implementation Plan is a compilation of the key initiatives the City is committing to take on or continue to provide in 2008. Due to budget challenges the initiatives are limited to what we can do within existing resources. As additional budget reductions are made in 2009, there will be an evaluation of the Plan for any necessary adjustments.

Like the Sustainability Master Plan, the Implementation Plan is separated into nine focus areas. Within each focus area are the stated goals, 2008 accomplishments, the 2009 Implementation Plan, and longer term targets for 2012 and 2030. The key initiatives identified in the Implementation Plan for each focus area are linked to the Sustainability Master Plan targets, meaning everything planned for 2009 moves us towards the long term targets identified in the Master Plan. In addition, some of the action items have references (e.g. GPIP 4-6-20), this reference is to a General Plan implementation action. A number of the General Plan Implementation measures address core sustainability issues. Including them in this Implementation Plan helps to focus staff efforts and resources, and consolidates them in a format which highlights their progress.



# 1. Energy Independence

**Goals:** To significantly reduce the use of fossil fuels, improve the availability of locally and regionally produced renewable energy, replace or renovate obsolete energy or resource inefficient infrastructure (buildings, facilities, systems, etc.) and encourage and recruit green technology companies to locate in the City.

## 2008 Accomplishments

- **Department of Energy Solar Grant:** The City was awarded a \$400,000 grant by the Department of Energy; the goal of the grant is to: (1) install up to 5,000 kW of solar on city owned buildings by the end of 2010; (2) create awareness and assist SMUD in its goal of installing 16,000 kW annually through 2017 (and beyond); (3) develop a strategy to bring solar manufacturers to the City; (4) work with community colleges to increase the green collar work force.
- **Performance Contracting:** The City issued a Request for Proposals in July 2008 and selected a firm to review the City's facilities for energy efficiency improvements and construct the improvements. Work on this project will continue for the next 2-3 years.
- **Sustainability Preference Pilot:** The City is operating a pilot project that provides preferences for firms that show they operate in a sustainable fashion. Preferences are provided if firms meet certain energy independence criteria.
- **Citywide Policies.** Staff drafted and soon will implement, a Sustainable Operations Administrative Policy Instruction (API) that includes policies requiring City facility temperature set point be two degrees warmer in the spring and cooler in the winter and turning off lights and computers when not in use.

## 2009 Implementation Plan

**Long-Term Target:** *Work to maximize local and regional renewable energy production with the goal that fifty percent of the energy (electricity, natural gas, motor fuels) consumed within the SACOG region be produced within the SACOG region.*

### 2009 Actions:

- **Solar for City Buildings:** The City is developing a Request for Proposals for Solar Photovoltaic Power Systems Installation. The City hopes to install up to 5,000 kW of solar on City facilities.
- **Renewable Energy Secure Communities Grant- Exploratory Grant:** The City will explore applying for a California Energy Commission grant for \$200,000 to assist in developing a road map on how to convert the region from a fossil fuel based economy to a renewable energy economy.
- **Renewable Energy Secure Communities Grant- Pilot and Project Grants:** The City will explore applying for a California Energy Commission pilot and project grants to assist in buying down the cost of installing up to 5,000 kW of solar photovoltaic electricity on city owned buildings.
- Staff will continue to evaluate the feasibility of commercial and residential solar installation programs such as the Berkeley First Model.

**Long-Term Target:** *: By 2030, energy consumption (electricity, natural gas, motor fuels) of City facilities on a unit basis will be 25 percent less than the baseline year of 2005.*

### 2009 Action:

- **Solar for City Buildings:** The City is developing a Request for Proposals for Solar Photovoltaic Power Systems Installation. The City hopes to work with a third party to install up to 5,000 kW of solar on City facilities.

## 2009 Implementation Plan (Cont.)

- **Performance Contracting:** This is a multi-year project that will be completed in phases. In 2009, staff plans to get the first set of facilities through all phases and begin construction.
- **Renewable Energy Secure Communities Grant- Project Grant:** The City will explore applying for a California Energy Commission grant for \$2,000,000 to assist in buying down the cost of installing up to 5,000 kW of solar photovoltaic electricity on city owned buildings.
- **Business Environment Resource Center (BERC) Certification.** Staff will continue to pursue BERC Certification for the Convention Center, Natomas Community Center, and Pannell Community Center.
- **LEED Certification.** North Natomas Library, Valley Hi Library, Pocket Library, Oak Park Community Center Expansion, and George Sim Community Center are all on track to be LEED Silver Certified for new construction.

*Long-Term Target: By 2015, provide leadership in the SACOG region to complete an energy surety plan.*

### 2009 Action:

- **Renewable Energy Secure Communities Grant- Exploratory Grant:** The City will explore applying for a California Energy Commission grant for \$200,000 to assist in developing a road map on how to convert the region from a fossil fuel based economy to a renewable energy economy.

## Implementation Plan for 2012

- Increase the purchase of renewable energy to meet 10 percent of the City's operations annual electricity energy usage, above and beyond SMUD's Renewable Portfolio Standard goals.
- Increase the purchase of renewable energy to meet 10 percent of the City's operations annual fleet fuel requirements.
- Reduce energy consumption (electricity, natural gas) of City facilities on a unit basis to be 10 percent less than the baseline year of 2005.
- Reduce per capita fleet fuel consumption by 15 percent relative to baseline year of 2003.
- Reduce City Operations peak electric load to 25 MW (based on 2004 peak load of 28 MW) through energy efficiency, shifting the timing of energy demands and conservation measures.

## Implementation Plan for 2030

- Per the California Energy Commission regulation, all new construction within City limits will be carbon neutral.
- Achieve carbon neutral fossil fuel energy use within City limits (electricity, natural gas, motor fuels).

## 2. Climate Protection

**Goals:** To meet the intent of the Global Warming Solutions Act (AB32) (or subsequent laws) for City operations, the community of Sacramento, and the SACOG region by working with community partners. Also, to develop a climate adaptation plan for the region by working with community partners.

### 2008 Accomplishments

- **Elected Officials Climate Discussion:** The City participated in a multi-jurisdictional development of an educational seminar for elected officials. Over 200 elected officials from the 6 county SACOG planning region were invited to the January 30, 2008 seminar.
- **Community Wide Greenhouse Gas Inventory:** The City is participating in a county wide greenhouse gas inventory; as part of the inventory, the 7 incorporated cities and the unincorporated part of the county are being studied. The City expects to have government and communitywide greenhouse gas inventories completed in early 2009.
- **Internal Operations Greenhouse Gas Inventory 2006:** The City's 2006 greenhouse gas emissions have been verified by an independent third party. The City now has 3 complete years of inventories, 2004 through 2006.
- **Internal Operations Greenhouse Gas Inventory 2007:** The City has hired a verifier to review the City's 2007 greenhouse gas inventory. Work on this project will continue in 2009.
- **AB32 Scoping Plan:** In an effort to assist the State in developing regulations for the implementation of AB32, the City provided comments to the California Air Resources Board draft scoping plan in August 2008. Staff will continue to monitor and comment on State regulations that will be drafted over the next 2 years.
- **Department of Energy Solar Grant:** The City was awarded a \$400,000 grant by the Department of Energy; the goal of the grant is to: (1) install up to 5,000 kW of solar on city owned buildings by the end of 2010; (2) create awareness and assist SMUD in its goal of installing 16,000 kW annually through 2017 (and beyond); (3) develop a strategy to bring solar manufacturers to the City; (4) work with community colleges to increase the green collar work force.
- **Performance Contracting:** The City issued a Request for Proposals in July 2008 and selected a firm to review the City's facilities for energy efficiency improvements and construct the improvements. Work on this project will continue for the next 2-3 years.
- **Sustainability Preference Pilot:** The City is operating a pilot project that provides preferences for firms that show they operate in a sustainable fashion. Preferences are provided if firms meet certain climate action criteria.

## 2009 Implementation Plan

**Long-Term Target:** By 2020, City operations will have reduced carbon dioxide emissions to 54,000 metric tons (equal to 1990 levels).

### 2009 Actions:

- **Renewable Energy Secure Communities Grant- Exploratory Grant:** The City will explore applying for a California Energy Commission grant for \$200,000 to assist in developing a road map on how to convert the region from a fossil fuel based economy to a renewable energy economy.
- **Renewable Energy Secure Communities Grant- Project Grant:** The City will explore applying for a California Energy Commission grant for \$2,000,000 to assist in buying down the cost of installing up to 5,000 kW of solar photovoltaic electricity on city owned buildings.
- **Internal Operations Greenhouse Gas Inventory 2007:** Work on this project will continue in 2009.
- **Draft Internal Operations Climate Action Plan:** Staff will continue to develop a Climate Action Plan for Internal Operations.
- **Performance Contracting:** The City issued a Request for Proposals in July 2008 and selected a firm to review the City's facilities for energy efficiency improvements and construct the improvements. Work on this project will continue for the next 2-3 years.
- **Solar for City Buildings:** The City is developing a Request for Proposals for a Solar Photovoltaic Power Systems Installation Project. The City hopes to work with a third party to install up to 5,000 kW of solar on City facilities.

**Long-Term Target:** By 2020, the SACOG planning region will have reduced carbon dioxide emissions to 1990 levels.

### 2009 Actions:

- **Renewable Energy Secure Communities Grant- Exploratory Grant:** The City will explore applying for a California Energy Commission grant for \$200,000 to assist in developing a road map on how to convert the region from a fossil fuel based economy to a renewable energy economy.
- **Community Wide Greenhouse Gas Inventory:** The City is participating in a county wide greenhouse gas inventory; as part of the inventory, the 7 incorporated cities and the unincorporated part of the county are being studied. The City expects to have government and communitywide greenhouse gas inventories completed in early 2009.
- **AB32 Scoping Plan:** Staff will continue to monitor and comment on State regulations related to the implementation of AB 32 in the SACOG region.

## Implementation Plan for 2012

- Carbon neutral services will be available to all water and solid waste customers.
- City operations will have reduced carbon dioxide emissions to less than 66,000 metric tons (equal to 2,000 levels) through improved energy efficiency and purchase of renewable energy.
- Efforts will continue to meet 2020 reduction target for internal operations and community.

## Implementation Plan for 2030

- Efforts will continue to meet 2050 reduction target for internal operations and community.

### 3. Air Quality

**Goals:** Continue to partner with Sacramento Metropolitan Air Quality Management District (SMAQMD) to provide assistance in meeting and maintaining air quality standards and encourage City Employees to drive less and engage in clean air practices.

#### 2008 Accomplishments

- Established new citywide air quality policies in the 2030 General Plan on improving air quality and reducing greenhouse gas emissions, these policies will taken to the Mayor and City Council for adoption in early January 2009.
- Accela system in place for tracking the monitoring and enforcement of CEQA air quality mitigation measures.

#### 2009 Implementation Plan

*Long Term Target: Work with community partners to reduce the number of "unhealthy," or "hazardous," air quality days by 10 percent based on an established baseline year.*

- Begin implementation of the new citywide air quality policies of the 2030 General Plan.
- Regulate development and build transportation infrastructure consistent with the 2030 General Plan.
- Recommend and develop new processes to improve monitoring and enforcement of all CEQA mitigation measures, including air quality measures.
- Explore ways to enforce existing City ordinance that limits idling of diesel vehicles used in construction projects.
- Develop a public information program to encourage use of alternative modes of transportation (e.g. public transit, carpool, walking, biking) to get to work.
- Continue to participate and partner with Sacramento Air Quality Management District programs such as Sacramento Emergency Clean Air & Transportation (SECAT) Program, Spare the Air Program and the implementation of the 2030 General Plan.

#### Implementation Plan for 2012

- Continue to implement the citywide air quality policies of the 2030 General Plan.
- Continue to regulate development and build transportation infrastructure consistent with the 2030 General Plan.

#### Implementation Plan for 2030

- Long-Term Target: Through implementation of the 2030 General Plan, achieve commute trip reductions and the reduction in household vehicle miles traveled commensurate with those modeled in the Blueprint preferred scenario.
- Continue to implement the General Plan through 2030 for multiple environmental and public benefits including improved air quality, reduced energy requirements, and greenhouse gas emissions per capita.

## 4. Material Resources

**Goals:** To reduce consumption, encourage the reuse and local recycling of materials, and reduce the use of pesticides and other toxic materials.

### 2008 Accomplishments

- Implementation of the March 2007 Business Recycling Ordinance. Achieved 20 percent diversion by commercial waste generators.
- Implementation of weekly curb side recycling has reduced residential disposal by approximately 20 percent.
- Continued outreach and education has made the public more sensitive to the purchase of toxic pesticides and other toxic materials.
- Increased curb side recycling from 12 tons/year (tpy) to over 36 tpy by converting from a three bin system to single stream recycling.
- Through outreach and education the public is more aware of the need to reduce consumption and recycle more.
- Implemented door to door universal waste pick up program.
- Began Investigation of Waste to energy program.

### 2009 Implementation Plan

**Long-Term Target:** *Implement an Environmentally Preferred Purchasing (EPP) policy which may include bid preferences to suppliers that meet minimum sustainability criteria as defined by The City of Sacramento.*

#### 2009 Actions:

- Continue development of an EPP policy and prepare the policy for council approval.

**Long-Term Target:** *Reduce the use of pesticides in City parks and facilities relative to an established baseline year.*

#### 2009 Actions:

- Continue development and implementation of the City's Intergrated Pest Management (IPM) program as described in the City's Pesticide Plan:
  - Provide at least one IPM training class for City applicators.
  - Develop IPM strategies for City's landscape maintenance contract services.
  - Develop pest fact sheets describing general IPM strategies for pests commonly managed by the City.
- Document quantities of pesticides used from Use Reports.
  - Begin collecting pesticide use data from facilities that have begun implementing a facility specific IPM program.
  - Continue collecting pesticide use data from Parks, Drainage, and Golf.

**Long-Term Target:** *Develop, implement and enforce a construction and demolition waste ordinance.*

#### 2009 Actions:

- Bring the construction and demolition waste ordinance for approval by the Mayor and City Council in early 2009 (to be coordinated with SWA).
- Train City plan check staff on the implementation of the construction and demolition waste ordinance. (GPIP 4-7-18, 4-7-19)



## 2009 Implementation Plan (Cont.)

*Long-Term Target: Work with stakeholders to maximize landfill diversion given reasonable cost effectiveness constraints.*

### 2009 Actions:

- Increase the Franchise Hauler diversion from waste stream to 25 percent for 2009.
- Implement ongoing media campaign targeting recycling, household hazardous waste and oil recycling.
- Continue negotiations on implementation of waste to energy program. (GPIP 4-7-18)

*Long-Term Target: Increase efficiency of solid waste collection effort.*

### 2009 Actions:

- Continue to investigate an alternative landfill disposal site.
- Implement Route Smart software.
- Begin implementation of take back partnerships for universal waste. (GPIP 4-7-18)

## Implementation Plan for 2012

- Continue implementation of the Environmental Purchasing Policy.
- 60 percent-65 percent total diversion from waste stream.

## Implementation Plan for 2030

- 70 percent total diversion from waste stream.

## 5. Public Health and Nutrition

**Goals:** To improve the health of residents through access to a diverse mix of wellness activities and locally produced food, promote "greening" and gardening within the City, and create "healthy urban environments" through Restorative Redevelopment.

### 2008 Accomplishments

#### *Promoting Public Health*

- The City (through a County program) provides daily lunches to school children; some of the food provided is organic.

#### *Promoting the Production and Purchase of Local Food*

- Farmer's Markets are operated on a daily basis throughout Sacramento for approximately seven months per year.

### 2009 Implementation Plan

#### *Long-Term Target: Promoting Community Gardening and the Localization of Food.*

##### **2009 Actions:**

- Develop master plans for two pilot project Demonstration Landscapes (one ornamental, one food production) as tools to educate the public on how to garden and grow their own food.
- Work with community partners to encourage the purchase of locally produced food.

#### *Long-Term Target: Cleanup, Redevelop, and Reuse of Brownfield Sites.*

##### **2009 Actions:**

- The City will continue to evaluate purchase possibilities of key contaminated sites for reuse and redevelopment. Staff will focus its efforts on clean-up of contaminated sites, most of which is paid for through State and Federal grants. Remediation of blighted and under utilized sites is critical towards attracting new development and protecting public health.

#### *Long-Term Target: Acquire land for additional public green space in underserved neighborhoods and infill development target areas.*

##### **2009 Actions:**

- Finalize City land acquisition strategy, including financing, for adoption.

### Implementation Plan for 2012

- Identify funding for and implement a regional demonstration garden and training center for public education.

### Implementation Plan for 2030

- Achieve accessible park or recreational open space within 1/2 mile of all residences.

## 6. Urban Design, Land Use, Green Building and Transportation

**Goals:** To establish and continuously improve "green" building standards for both residential and commercial development – new and remodeled, reduce dependence on the private automobile by working with community partners to provide efficient and accessible public transit and transit supportive land uses, and reduce long commutes by providing a wide array of transportation and housing choices near jobs for a balanced, healthy City.

### 2008 Accomplishments

- Established new policies in the 2030 General Plan on urban design, land use, green building, and transportation, for adoption in January 2009.
- Established both LEED and Build It Green as rating systems for the City's Green Building Program.
- Completed new bikeways for Downtown and H Street in East Sacramento.
- Completed Ninos Parkway Trail.
- Converted 100 parking meter poles into bike parking devices.
- Incorporated a list of high priority projects derived from the Pedestrian Master Plan into the Transportation Programming Guide.
- Adopted the Housing Element of the General Plan which includes a goal to develop and rehabilitate housing and neighborhoods to be environmentally sustainable.

### 2009 Implementation Plan

**Long-Term Target:** *Work with community partners and adopt a LEED/BIG (Build It Green) type rating program for, new and retrofit, commercial and residential single family, multi-family and neighborhood development.*

#### 2009 Actions:

- Coordinate with Sacramento County to establish a County-wide advisory committee to guide phase two of the Green Building Program. Complete a green building task force report to including but not limited to recommendations on:
  - Thresholds for minimum mandatory (versus voluntary) green building standards for new buildings and remodels, including procedures for implementation.
  - The feasibility of developing and implementing an energy and water retrofit ordinance for existing development.
  - Specific considerations for improving energy efficiency of residential rentals, in conjunction with the residential inspection program.
  - Upgrades for all existing housing units to be required at point of sale.
  - Incentives for private residential and commercial development to become either LEED or GreenPoint Rated projects.
- Develop amendments to the zoning code to establish additional standards for sustainable building and site design, including building and site design to minimize heat gain.

**Long-Term Target:** *Work with community partners to aggressively implement the City's General Plan, which is consistent with the SACOG Blueprint.*

#### 2009 Actions:

- Implement new General Plan policies on urban design, land use, green building, and transportation, through regulation and review of development projects.

## 2009 Implementation Plan (Cont.)

- Develop and implement a green neighborhood design checklist to evaluate the sustainability of large-scale residential development in new growth areas.
- Develop and implement a program to promote sustainable development through regular regional coordination meetings that include local government representatives and other applicable agencies.
- Prepare a comprehensive update of the Infill Strategy, including integration of the City's Commercial Corridor Revitalization.
- Amend zoning code to create designations to support urban infill.
- Create a livability index to measure the success of the 2030 General Plan. Many of the indicators that will be used are common indicators used for sustainability (e.g. energy, waste, greenhouse gas emissions, VMT, mode split, infill development, equity, etc.).
- Adopt new Multi-family Principles that encourage SHRA funded new construction multi-family projects to exceed Title 24 standards.
- Update City's Traffic Impact Analysis guidelines to reflect the Level of Service (LOS) policies standards in the General Plan. (GPIP 4-6-2)
- Conduct a study to identify major barriers to connectivity and appropriate means and locations for overcoming those barriers, including potential river crossings. (GPIP 4-6-5)
- The City shall update and enhance its Transportation Systems Management Program consistent with the policies of the General Plan. (GPIP 4-6-7)
- Conduct a study to identify economic incentives for private transportation partners seeking to enhance mobility in the Central City, centers, corridors, employment centers, and other high-intensity districts in the city. (GPIP 4-6-8)
- Conduct a study to identify appropriate routes and roadway markings/signage for Neighborhood Electric Vehicles (NEVs) within the Central City and between urban centers and corridors. (GPIP 4-6-9)
- Work with walking advocates, such as WalkSacramento, to develop a comprehensive educational and promotional package for pedestrians. (GPIP 4-6-12)
- Review and update the Bikeway Master Plan every 3 years. (GPIP 4-6-14)
- Conduct a study to identify gaps in transit service provided within the city and strategies to fill them. (GPIP 4-6-16)
- Conduct a study of the existing street network to identify streets that can be more complete based upon adopted design standards and the policies in the General Plan. (GPIP 4-6-18)
- Develop and adopt an ordinance for bicycle support facilities (e.g., bicycle racks, personal lockers, showers, and other bicycle support facilities). (GPIP 4-6-20)
- Conduct a study of current parking requirements in the Central City and urban centers to evaluate options for dedicated parking spaces for car-sharing and incentives. (GPIP 4-6-21)
- Prepare and adopt a citywide transportation development impact fee program to support the development of all travel modes needed for new development. (GPIP 4-6-24)

***Long-Term Target: Implement Bikeway Master Plan and Pedestrian Master Plan facilities to achieve an annual expansion of 5 percent of the existing system.***

### **2009 Actions:**

- Install an additional 150 converted parking meter poles into bike parking devices.
- Institute new public bike parking program for the public right-of-way.
- Continue to convert selected streets to two-way operation to make them more bicycle and pedestrian friendly.
- Institute a sidewalk grinding option for sidewalk maintenance, if feasible.

## Implementation Plan for 2012

- Continue to implement the land use, transportation, and green building measures of the 2030 General Plan, including annual implementation reviews and five-year updates. Monitor energy usage and CO2 emissions reductions and adaptively manage development and transportation patterns to meet targets of Climate Action Plan.
- Update 2030 General Plan every 5 years (beginning 2013) to keep the plan current and relevant.
- Achieve 30 percent LEED-type certification of new construction within the City.
- Monitor and adaptively manage transportation development impact fee program and progress in filling transit gaps.
- Implement Bikeway Master Plan and Pedestrian Master Plan facilities to achieve an annual expansion of 1 percent of the existing system.
- Implement the policy requiring LEED (Leadership in Energy and Environmental Design) Silver certification for all new City owned buildings.
- Support the development of the South Line Phase II extension of the Sacramento Regional Transit System.
- Prepare and adopt multi-modal design standards that include all modes and vary the standards by facility type to imply a preference for selected modes based on the context. (GPIP 4-6-1)
- Identify options for informing transit riders of the availability and timing (e.g., headways) of public transit. (GPIP 4-6-4)
- Review and update the Bikeway Master Plan every 3 years. (GPIP 4-6-14)
- Conduct a study to analyze bike and pedestrian facilities on existing bridges to identify deficiencies and feasible improvements. (GPIP 4-6-17)
- Conduct a study to identify underused rights-of-way, such as street lanes, drainage canals, and railroad corridors to convert to bikeways and/or pedestrianways. (GPIP 4-6-19)

## Implementation Plan for 2030

- Continue to implement the General Plan through 2030 for multiple environmental and public benefits including improved air quality, reduced energy requirements, and greenhouse gas emissions per capita.
- Achieve 80 percent LEED-type certification of new construction within the City.
- Support the development of the Downtown Natomas Airport extension of the Light Rail Transit system.
- Create a comprehensive bicycle and pedestrian network as outlined in the Bikeway Master Plan and Pedestrian Master Plan.
- Review and update the Bikeway Master Plan every 3 years. (GPIP 4-6-14)
- Review and update the Pedestrian Master Plan every 10 years. (GPIP 4-6-10)

## 7. Parks, Open Space, and Habitat Conservation

**Goals:** To increase the amount of publicly accessible and protected green space and riparian corridors, expand the urban forest, preserve farmland and habitat resources, and expand "green" design and maintenance practices in the City's system of parks, open space and golf courses.

### 2008 Accomplishments

- Included supportive policies and implementation mechanisms in the 2030 General Plan.
- Completed a Citywide park acreage inventory and a deficiency analysis by community planning area.
- Developed and adopted first Department of Parks and Recreation Sustainability Plan (2008-2015).
- Updated the 2005-2010 Parks and Recreation Master Plan to support City Sustainability agenda.
- Adopted Operational policy for Integrated Pest and Vegetation Management.
- Planted 400 new street and park trees.
- Implemented a modernized enterprise-wide asset management system for Urban Forest Services.
- Completed a GIS-based database of all publicly owned trees.
- Completed partial certifications by Audubon International of City golf courses (Haggin Oaks, Bing Maloney and Bartley Cavanaugh).

### 2009 Implementation Plan

**Long-Term Target:** *Adopt and implement guidelines to protect and preserve open space, prime farmland and key habitat, including wildlife and riparian corridors.*

#### 2009 Actions:

- Implement 2030 General Plan Goals (LU 9: Open Space, Parks and Recreation and ERC 2: Parks and Recreation) and Policies (LU 9.1.1, LU 9.1.2, ERC 2.1.1, ERC 2.4.2).
- Develop Implementation program for 2008-2015 Parks and Recreation Sustainability Plan.

**Long-Term Target:** *Acquire land for additional public green space in underserved neighborhoods and infill development target areas.*

#### 2009 Actions:

- Finalize citywide land acquisition strategy, including financing, for adoption.

**Long-Term Target:** *Develop restoration and management plans for natural open space areas in City parks system.*

#### 2009 Actions:

- Develop plans for up to 4 pilot project sites. Incorporate "lessons learned" into City Park and Recreation Facility Design and Development Standards.
- Complete detailed mapping of all natural areas in the City park system, including those with formal protection status.

## 2009 Implementation Plan (Cont.)

**Long-Term Target:** *Develop an implementation plan to incorporate sustainable principles and practices into golf course and park design and maintenance, including public education and funding sources.*

### 2009 Actions:

- Develop Implementation program for 2008-2015 Parks and Recreation Sustainability Master Plan.
- Develop master plans for 2 pilot project Sustainable Demonstration Landscapes (one ornamental, one food production) as tools for public education.
- Complete full certification of all City golf courses as Audubon Cooperative Sanctuaries by Audubon International.
- Identify funding for and implement a new fully-automated, water efficient irrigation system at Bing Maloney Golf Course.

**Long-Term Target:** *Continue Implementation of Urban Forest Services Best Management Practices and ensure it is aligned with the Sacramento Tree Foundation Greenprint Initiative.*

### 2009 Actions:

- Continue tree planning and replacement programs with a goal of adding 1000 new trees annually.

## Implementation Plan for 2012

Identify funding for and implement:

- Restoration and management plans for natural open space areas, and demonstration landscapes, at additional sites, including public education elements.
- Additional park acres across the spectrum of park types (pocket parks/urban plazas, neighborhood parks, community parks, regional parks, open space, parkways, trails/bikeways) for underserved neighborhoods and infill development target areas.
- Regional demonstration garden and training center for public education.
- Sustainable park design and maintenance citywide to achieve efficiencies, including water and energy use reductions.
- A street tree master plan for the central city area.

## Implementation Plan for 2030

- Achieve accessible public park or recreational open space within 1/2 mile of all residences.
- Achieve restoration of and public access along all waterways and riparian corridors (Sacramento and American Rivers, urban creeks).
- Preserve all prime farmland and critical habitat resources.
- Achieve double the current canopy cover to meet the Greenprint goal of an average of 35 percent canopy cover.

## 8. Water Resources and Flood Protection

**Goals:** To Conserve the use and protect the sources of drinking water and work to provide exceptional flood protection.

### 2008 Accomplishments

- Flood control improvements at Folsom Dam were authorized and construction was initiated by the US Bureau of Reclamation.
- A new assessment was approved to fund SAFCA's share of 200 yr protection projects.
- SAFCA approved the Natomas Levee Improvement project and initiated construction. The project will ultimately provide 200 year flood protection for the Natomas area by the year 2013.
- Work continued on the South Sacramento County Streams Project with key portions of work on Florin and Unionhouse Creeks finished.
- Erosion control work was accomplished on the Natomas Sacramento River Levee.
- The planned number of water meters were installed.
- The City initiated a water conservation education and inspection program.
- In partnership with several water utilities, the City completed the American River watershed sanitary survey update.
- The "Keep Our Waters Clean" campaign continues to increase awareness among local recreationalists about drinking water sources and the use of pump outs and rest rooms. This program is run by the City of Sacramento Department of Utilities on behalf of a group of water utilities along the Sacramento and American Rivers.
- Coordinated development of Plant Services spill notification web site, including GIS (geographical information system) spill locator tool and electronic database.
- In partnership with Carmichael Water District, developed river travel time tools to estimate the amount of time it will take for water to move downstream from selected locations on the rivers to the City's drinking water treatment plant intakes.
- Led drinking water stakeholder efforts on rice pesticides, which supported the resulting low and non-detection of rice pesticides molinate and thiobencarb in the Sacramento River. Developed approach for tracking new and increased use pesticides, and identified a short list of pesticides for tracking or collection of additional.
- Achieved 5.7 percent water savings citywide, equates to 3 million gallons saved, valued at an energy savings of \$247,000 dollars.
- Residential customers
  - 1,109 water waste calls completed
  - 196 water audits completed
  - 396 Hi-low meter reads conducted
- Commercial, Institutional customers
  - 114 Water Audits completed
- Residential and Commercial Toilet Rebate Program
  - 372 Ultra-low flush and High Efficiency Toilets have been retrofitted and rebated.
- Public Outreach
  - Attended 7 city-wide special events
  - Actively participated in regional water efficiency programs that focused on water conservation for landscape, public awareness, education and water saving devices.

## **2009 Implementation Plan**

**Long-Term Target:** *Continuously protect the ecological integrity of The City of Sacramento's primary drinking water source.*

### **2009 Actions:**

- Continue implementation of the City's NPDES Stormwater Discharge Permit. (GPIP 4-7-17)
- Complete planning for the Sacramento River Watershed Sanitary Survey 2010 Update, in partnership with five other water utilities.
- Provide ongoing support for the voluntary spill notification program for the City's water treatment plants, including participation and leadership in water utility partnerships.
- Continue Sacramento and American River ongoing source water protection efforts, based on follow-up to watershed sanitary survey recommendations. (GPIP 4-7-17)

**Long-Term Target:** *Achieve 200 year flood protection.*

### **2009 Actions:**

- Work with SAFCA to implement:
  - a. North Natomas Levee Project Phases I and II
  - b. South Streams project
- Finish work on Elder Creek, Union House and Florin between Morrison Creek and Franklin Blvd.
- Bid and start construction on Union House between Franklin and Center.
- Continue design on East Morrison Creek Levee between Union Pacific rail line and Union House Creek.

**Long-Term Target:** *Flood Risk Reduction*

### **2009 Actions:**

- Revise and begin implementation of the City of Sacramento Comprehensive Flood Management Plan.
- Investigate feasibility of achievement of the Community Rating System (CRS) level 4 designation.

**Long-Term Target:** *Implement The City's Water Conservation Program.*

### **2009 Actions:**

- Develop an Urban Drought Program.
- Continue providing daily service, education and programs on conserving the use and protection of sources of water to residents, commercial, industrial and institutional customers.
- Evaluate and analyze the level of compliance associated with implementing the Water Forum and California Urban Water Conservation Council Best Management Practices.
- Fulfill requirements of regional grants for the Toilet Rebate Replacement program and Water Conservation Incentives Project.
- Continue to work with Parks and Recreation Department on implementing grant opportunities to save water usage in open spaces.
- Review the City's Water Ordinance on mandatory restrictions, penalties and violations.
- Update the Integrated Regional Management Plan. (GPIP 4-7-9, 4-7-10)

**Long-Term Target:** *Continue to reduce Sanitary Sewer Overflows.*

### **2009 Actions:**

- Reduce SSOs by 3 percent.



## Implementation Plan for 2012

- Continue to implement the City's NPDES Stormwater Discharge Permit.
- Continue regional approach for American and Sacramento River Watershed Sanitary Survey Updates.
- Continue Sacramento and American River ongoing source water protection efforts, based on follow-up to watershed sanitary survey recommendations, including support of watershed protection efforts such as Keep Our Waters Clean.
- Work with SAFCA to complete the North Natomas and South Sacramento Streams Group levee projects.
- Continue water meter retrofit program.
- Continue implementation of City's water conservation program.
- Continue to reduce SSOs by 3 percent annually measured from 2003 baseline.

## Implementation Plan for 2030

- Continue to implement the City's NPDES Stormwater Discharge Permit.
- Continue regional approach for American and Sacramento River Watershed Sanitary Survey Updates.
- Continue Sacramento and American River ongoing source water protection efforts, based on follow-up to watershed sanitary survey recommendations, including support of watershed protection efforts such as Keep Our Waters Clean.
- Work with SAFCA to achieve 200 yr protection for all levees protecting the City of Sacramento.
- Work with SAFCA to achieve continuous levee improvements.
- Continue to reduce SSOs by 3 percent annually measured from 2003 baseline.
- Finish meter retrofit project.

## 9. Public Involvement and Personal Responsibility

**Goals:** Adopt an action plan to support a regional vision that fosters a collaboration of citizens, businesses and green-initiative groups to become engaged and contribute to a sustainable future, promote innovative programs to educate and capture the public's imagination of global change, commit to leading by example and foster behavioral change throughout the City, and promote an ethic of conservation and stewardship.

### 2008 Accomplishments

- The initial phase of the City's sustainability Web site has successfully been launched.
- Thirty community volunteers have distributed 750 compact fluorescent light bulbs to Sacramento residents.
- City of Sacramento employees Reina Schwartz and Bob Chase spoke at the 2008 Green California Summit and Exposition.

### 2009 Implementation Plan

**Long-Term Target:** *Develop and maintain a City sustainability Web site to provide a resource to the community.*

#### 2009 Actions:

- Continue developing the City's sustainability Web site to promote community engagement in City sustainability resources and programs.
- Encourage City departments to address sustainability on their Web sites and to link to the City's main one.

**Long-Term Target:** *Work with community partners to incorporate sustainability in their daily operations.*

#### 2009 Action:

- Continue building on the City's existing partnerships, such as with Sacramento County's Business Environmental Resource Center (BERC) and Sacramento Municipal Utility District (SMUD), to promote energy efficiency for the business community and for individuals.

**Long-Term Target:** *Develop a network of green-initiative groups to share resources, foster partnerships and unify education and outreach efforts.*

#### 2009 Actions:

- Identify and work with existing groups, such as schools, neighborhood associations, and non profits, to identify issues and opportunities for engaging them in sustainability efforts.
- Continue identifying and contacting target audiences with program information and resources.

**Long-Term Target:** *Develop a myriad of public information material tailored for diverse audiences and applicable to Web site development, media campaigns, and educational initiatives.*

#### 2009 Actions:

- Work with community partners to ensure that all possible segments of the community are included in the City's sustainability efforts and outreach.
- Collaborate with partners to prioritize potential sustainability actions by relevance, potential impacts, and feasibility, and develop outreach materials promoting the most important ones.
- Continue improving and promoting the City's sustainability Web site.

## **2009 Implementation Plan (Cont.)**

**Long-Term Target: Launch a "green neighborhood" program.**

### **2009 Actions:**

- Promote existing programs and the City's efforts, including the carbon footprint rating system which will be selected and promoted.

**Long-Term Target: Organize opportunities to showcase Sacramento's environmental leadership through hosting conferences, workshops and events.**

### **2009 Actions:**

- Participate in the 2009 Green California Summit and Exposition by encouraging targeted City employees to attend and some to be speakers. Attending employees will identify ways to share and use this experience to benefit the City.
- Participate in Earth Week celebrations by promoting the City's sustainability efforts and by recruiting groups and individuals, including City employees, to join.

**Long-Term Target: Encourage residential participation to expand usage of community gardens.**

### **2009 Actions:**

- Continue seeking funding and other resources for demonstration gardens in each Council District.
- Work with existing groups to promote gardens, including front-yard ones, to provide affordable, fresh, locally-grown, and culturally appropriate food that nourishes families and their communities.

## **Implementation Plan for 2012**

### **Conduct Education and Outreach**

- Partner with Sacramento's diverse communities to engage citizens in specific issues and actions.
- Continue to convene sustainability forums.
- Refine public outreach strategies and expand the concept of the City as a steward of public resources.
- Build on programs to foster individual movement off the "grid."

### **Develop and Implement an Environmental Justice statement**

- Collaborate with city agencies, nonprofit organizations, neighborhoods groups and community organizations to promote the issues of air quality, food availability, renewable energy systems, sustainable land use and the reduction of greenhouse gases.

### **Develop Partnerships**

- Build on existing interest in sustainability issues to maximize resources that engage citizens to take action.

## **Implementation Plan for 2030**

### **Conduct Education and Outreach**

- Introduce a Personal Responsibility component to City School District's curriculum.
- Have all education and outreach materials translated into the six most used languages to meet current and future population needs.

### **Develop and Implement Campaign to Make Green Routine**

- Achieve "green" practices in residential households.

### **Develop Partnerships**

- Expand existing partnerships with City agencies, educational institutions, neighborhood groups, businesses and community organizations to continue efforts to maintain the City's status as an environmental "green" leader.