

Creating a Sustainable City: 2008 Implementation Plan

City of Sacramento



City of Sacramento
GENERAL SERVICES
"WOW!" the Customer



Mayor

Heather Fargo, 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 2008 Implementation Plan is the City's plan over the next twelve months to move us towards our long term targets of sustainability. Included in this document are also the successes the City has had to date. While the Mayor and City Council adopted the Master Plan in December 2007, the City has been making progress on the sustainability front for many years. In addition, this document contains the City's longer term actions for 2012 and 2030. This gives a glimpse of what is to come.

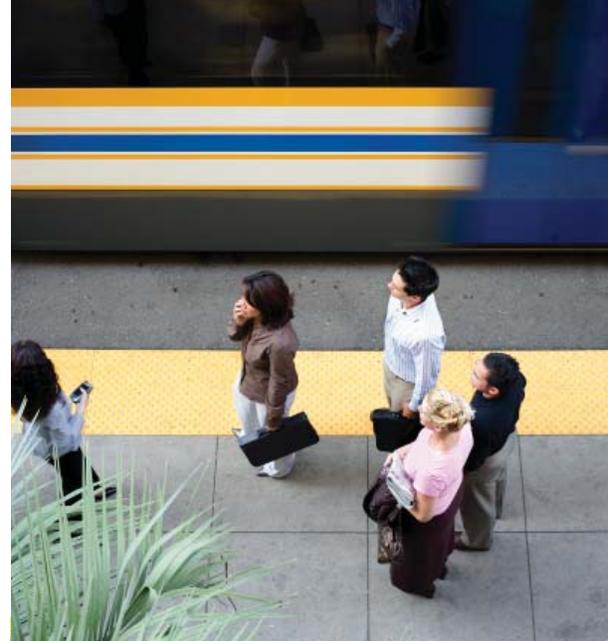
2008 Implementation Plan Highlights

Some of the major highlights of the implementation Plan include:

Public Involvement and Outreach. A critical component of the Sustainability Master Plan is the public involvement and outreach efforts. Involving the public and providing them with the necessary tools to green their homes and neighborhoods will have a tremendous impact on the environment. The 2008 actions in this focus area include educational resources offered on our web site, a green neighborhood program, outreach to youth through the City's 4th R program, working with community partners to leverage resources, and distributing tips to living green.

Performance Contracting. The City will be releasing a Request for Qualifications (RFQ) with the end goal of contracting with a performance contracting company. The chosen company will complete an audit of City facilities and propose capital improvements to the facilities that will improve their energy efficiency. The capital improvements to the City facilities will ultimately result in a reduction in green house gas emissions. Staff will also explore the possibility of funding a position from the savings realized as a result of reduced energy costs. This position would be dedicated to implementing sustainability efforts citywide.

Green City Policies. Staff will be creating and implementing a number of green policies that will require simple changes on how we operate citywide that will have a significant impact on the environment. These policies will include restricting the purchase of bottled water, keeping buildings two degrees warmer in the summer and cooler in the winter, printing double-sided, turning off lights and



computers when not in use, purchasing environmentally friendly products, and challenging all City Departments to obtain certification for City facilities through the Business Environmental Resource Center (BERC).

Seven City Facilities will meet LEED Standards. Staff will begin the process of meeting LEED standards for seven City facilities. These facilities include; North Natomas Library, Pocket Library, Valley Hi Library, Sim Community Center, Oak Park Community Center, Sacramento Performing Arts Center (LEED-light), and New City Hall.

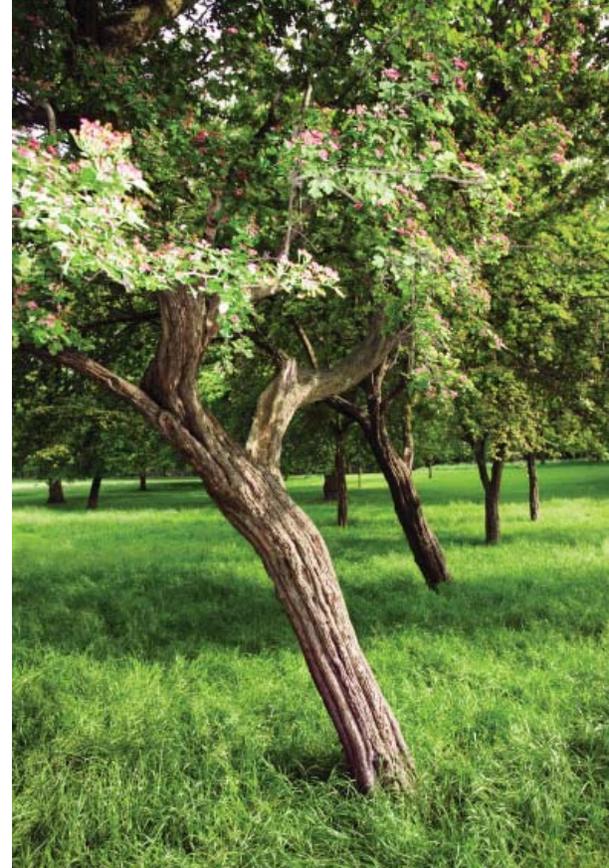
Environmentally Preferred Purchasing. Staff will draft and bring forward for Mayor and City Council approval an environmentally preferred purchasing policy. The policy will encourage and/or require the purchase of products that minimize environmental impacts to the greatest extent practicable, and encourage the purchase of products that include recycled content, are durable and long-lasting, conserve energy and water, reduce greenhouse gas emissions, and use unbleached or chlorine free manufacturing processes.

Expanding Bike Lanes and Bike Parking Facilities. Staff will be working towards expanding bike lanes Citywide as well as working with community partners to expand bike parking facilities. For specifics on the location of the bike lane please refer to focus area 9 on page 16.

How to Read This Document

The 2008 Sustainability Implementation Plan is a compilation of the key initiatives the City is committing to taking on or continuing to provide in 2008. Due to budget challenges the initiatives are limited to what we can do within existing resources.

Like the Sustainability Master Plan, the Implementation Plan is separated into nine focus areas. Within each focus area are the stated goals, past accomplishments, 2008 Implementation Plan, as well as 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 2008 moves us towards the long term targets identified in the Master Plan.



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.

Past Accomplishments

Renewable Energy

- The City purchases one percent of its electricity requirements from renewable resources; this is above and beyond SMUD's Renewable Portfolio Standard goal.

Municipal Green Building

- Nearly 70 City staff have attended introduction to LEED classes.
- All new municipal buildings, five total, are registered for LEED certification.
- The New City Hall complex is among the top 5 percent of energy performers for large office buildings within the nation.

Energy Efficiency

- In 2007, the Central Library cooling system was replaced with a chiller that was 35 percent more efficient than the replaced model.
- The new 911 Call Center is 25 percent more efficient on a square foot basis than the facility it replaced.
- Over 110 energy efficiency projects have been installed in City facilities since 1992. Due to these measures, energy consumption is 9 percent lower than otherwise would have been projected.

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.

2008 Actions:

- Staff will issue a Request for Proposal (RFP) for qualifying companies to install, own, operate and maintain solar photovoltaic systems on City property.
- Through development of a "CleanTech" zone, the City hopes to land a bio-fuels plant within the City.
- Staff will explore the possibility of a municipal solid waste to energy plant.

Long-Term Target: City operations will be substantially fossil free (electricity, motor fuels).

2008 Actions:

- Reach the target of 25 percent of new light duty fleet vehicles to be flexible fuel, hybrid, electric or fuel cell.
- City's Department of General Services will begin a pilot to purchase E-85 ethanol and B-5 bio-diesel fuel.
- An E-85 ethanol fuel station will be constructed at the 300 Richards Blvd. facility.
- Issue a Request For Proposal for qualifying companies to install, own, operate and maintain solar photovoltaic systems on City property. In consideration of this "roof lease", the third party would sell power to the City at a cost less than SMUD power.
- Get additional City facilities certified through the Business Environmental Resource Center (BERC) program.
- Develop citywide policies to (1) keep City facilities two degrees warmer in the spring and cooler in the winter and (2) to turn off lights and computers when not in use.

Implementation Plan (Cont.)

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.

2008 Actions:

- Install lighting retrofits at Capitol and Downtown Central Garages.
- Issue a Request For Qualification to Performance Contractor(s) that specialize in implementing energy efficiency projects and deferred maintenance projects with no City paid capital expenditures. The installed work is paid for through a lease or loan that is paid back by accrued energy savings.
- Within the City staff, up to ten staff will obtain LEED Accreditation.
- Library will pursue LEED Silver certification for the North Natomas and Pocket Libraries and LEED Gold certification for Valley Hi Library.
- The Department of Parks and Recreation (DPR) will pursue LEED Silver certification for the Sim and Oak Park Community Centers.
- The Department of Convention Culture & Leisure (CCL) will ensure that the Sacramento Performing Arts Center meets LEED-light standards.
- Staff will pursue LEED Certification for the New City Hall complex.
- CC&L staff will pursue BERCC certification for the Convention Center.
- DPR will certify the Pannell Community Center under the BERCC sustainable business program.

Long-Term Target: By 2030, peak electrical demand of City facilities as measured by annual load factor (energy consumed divided by peak summer electrical demand) will be 75 percent.

2008 Actions:

- Install various energy efficiency projects, including lighting retrofits at Capitol and Downtown Central Garages.
- Issue a Request For Qualification to Performance Contractor(s) that specialize in implementing energy efficiency projects and deferred maintenance projects with no capital expenditures. The installed work will be paid for through a lease or loan that is paid back by accrued energy savings.

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

2008 Actions:

- The City will coordinate with the Local Government Commission, Sacramento Metropolitan Air Quality Management District, SMUD and others to present a climate change discussion to the elected officials in the six county SACOG region.
- The City will collaborate with ICLEI (an international local government sustainability association), County, AQMD, SMUD and others to prepare a communitywide greenhouse gas inventory, which will include sources of energy production, which is a necessary component in developing energy surety plan.

Long-Term Target: By 2015, the SACOG region will have added 20,000 new jobs to the renewable/clean energy sector.

2008 Actions:

- Through development of a "CleanTech" zone, City's Economic Development hopes to land a bio-fuels plant within the City.
- The City will explore the possibility of a municipal solid waste to energy plant.



Implementation Plan for 2012

- Increase the purchase of renewable energy to meet ten 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 ten percent of the City's operations annual fleet fuel requirements.
- Reduce energy consumption (electricity, natural gas) of City facilities on a unit basis to ten 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.

Past Accomplishments

Climate

- The City's existing internal operations are estimated to reflect 20 percent of the reductions necessary to meet our 2030 climate reduction target.
- The City became one of twelve charter members of the California Climate Action Registry (CCAR) in 2002, the CCAR is now approximately 300 members strong.
- The City has successfully certified its 2004 and 2005 greenhouse gas emissions and has a three-year history of developing emissions inventories; has identified a reduction target and has developed a draft internal operations climate action plan.
- Since 2005, the City has been participating in a multi-jurisdictional group that has the creation of a regional climate action plan as a goal.

2008 Implementation Plan

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

2008 Actions:

- The Department of Utilities will evaluate the concept of providing voluntary carbon neutral services to its customers for possible future implementation.
- The Convention Center will continue to offer and improve carbon neutral events for its customers.
- The Department of General Services will implement climate action plan programs, those that are low and no cost or can be done with existing resources. These programs, along with others not listed, will put the City on a path to meet our greenhouse gas reduction target for 2030. These include:
 - Award a contract to Performance Contractor(s) to improve energy efficiency of City facilities.
 - Work towards achieving sustainability in the community by establishing and awarding bid preferences to City vendors and contractors that operate in a green fashion.
 - Specify Energy Star, EPEAT Silver office equipment for purchase by City staff.
 - Continue vehicle "right-sizing" program.
 - As a pilot, begin purchasing low carbon fleet fuels.
 - Continue purchasing SMUD Greenergy.
 - Continue to support BERC Green Business Program.
 - Begin installation of alternative fueling infrastructure.
 - Develop a Sustainability 101 class for City University.
 - Develop climate change presentations for community centers.
 - Research and evaluate a carbon neutral flights program for City employees with an emphasis on local carbon offset benefits.



2008 Implementation Plan (Cont.)

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

2008 Actions:

- City in collaboration with Local Government Commission (LGC), Sacramento Metropolitan Air Quality Management District (SMAQMD), SMUD will present a climate change discussion to the elected officials in the six county SACOG region.
- City in collaboration with ICLEI (an international local government sustainability association), County, AQMD, SMUD and others will prepare a communitywide greenhouse gas inventory.

Long-Term Target: *By 2015, the SACOG region will have a climate adaptation plan in place.*

2008 Actions:

- City in collaboration with LGC, SMAQMD, SMUD and others will present a climate change discussion to the elected officials in the six county 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 2000 levels) through improved energy efficiency and purchase of renewable energy.
- Efforts will continue to meet 2020 reduction target for internal operations and community (AB32).

Implementation Plan for 2030

- Efforts will continue to meet 2050 reduction target for internal operations and community (Governor's Executive Order).

3. Air Quality

Goals: To 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.

Past Accomplishments

- The City has been a partner in the Sacramento Emergency Clean Air & Transportation (SECAT) Program of SMAQMD.
- The City has instituted replacement of diesel fueled trucks with natural gas fueled trucks for solid waste operations.
- In October 2007, the Mayor and City Council adopted a comprehensive Fleet Sustainability Policy.
- City's Department of General Services initiated a pilot global positioning system (GPS) implementation on city fleet vehicles. The GPS system tracks idle time, speeding violations, miles per gallon, engine problems, and trip distances. The data obtained from this system thus far shows great promise in monitoring and controlling excessive idle time and reducing fuel consumption.
- Fleet Management Division applied for and received the following grants which will significantly reduce emission in the city's fleet:
 - o \$450,000 for the purchase of 21 Liquefied Natural Gas refuse trucks.
 - o \$277,500 for retrofitting 16 diesel powered vehicles with particulate traps.
- The City purchased 33 Gasoline/Electric Hybrid Vehicles, 21 Liquefied Natural Gas Refuse Trucks, and 22 Flex-Fuel (E85 capable) vehicles.

2008 Implementation Plan

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

2008 Actions:

- Continue to participate and partner with SMAQMD's programs such as Sacramento Emergency Clean Air & Transportation (SECAT) Program, Spare the Air Program and the implementation of the SACOG Blueprint preferred scenario.

Long-Term Target: *Work with community partners to establish citywide air quality policies and to implement clean air measures for new developments.*

2008 Actions:

- Continue to partner with Sacramento Air Quality Management District in the development and enforcement of air quality mitigation plans for new buildings and developments.
- Bring to the Mayor and City Council for consideration the following policies for the air quality section of the General Plan:
 - o The City shall require that development projects that result in substantial air quality impacts (i.e., exceeding the SMAQMD ROG and NOx operational thresholds) to incorporate design or operational features that result in a reduction in emissions equal to fifteen percent from the level that would be produced by an unmitigated project.
 - o The City shall reduce greenhouse gas emissions by promoting development that is compact, mixed-use, pedestrian friendly, and transit-oriented; promoting energy-efficient building design and site planning, and improving the job/housing ratio of each community.
 - o The City shall review proposed development projects to ensure projects incorporate feasible measures that reduce emissions through project design.



2008 Implementation Plan (Cont.)

- o The City shall require that new development involving sensitive uses within 500 feet of a major roadway be designed with consideration of side and building orientation and incorporate appropriate technology for improved air quality, flow, ventilation, and filtration to lessen any potential health risks due to the proximity of the development to the roadway.
- o The City shall encourage the use of zero-emission vehicles, low-emission vehicles, and car sharing programs by requiring sufficient and convenient infrastructure and parking facilities in residential developments and employment centers to accommodate these vehicles and programs.

Implementation Plan for 2012

- Achieve commute trip reductions and household vehicle miles traveled inherent in the Blueprint preferred scenario by 2012.

Implementation Plan for 2030

- Implement air quality policies in the City's new General Plan.

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.

Past Accomplishments

Increase Recycling

- Implementation of Business Recycling Ordinance in March 2007 with a target of 30 percent diversion by commercial waste generators.
- Implementation of weekly curbside recycling has reduced residential disposal by approximately 20 percent.
- Increased curbside recycling from 12 tons/year (tpy) to over 36 tpy by converting from 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.

Reduction of Pesticide Use

- Continued outreach and education has made the public more sensitive to the purchase of toxic pesticides and other toxic materials. Plans and constructs low impact recreation trails for increased public access to riverfronts and revegetates riparian/urban stream corridors.

2008 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.*

2008 Actions:

- Develop criteria for the EPP and prepare the policy for Mayor and Council approval.

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

2008 Actions:

- Gather baseline City pesticide use information.
- Finalize City Integrated Pesticide Management Plan and begin implementation.
- Develop City wide policies to (1) restrict the purchase of bottled water and (2) to require whenever feasible double-sided copying and printing.

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

2008 Actions:

- Develop the construction and demolition waste ordinance.
- Train City plan check staff to implement ordinance.

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

2008 Actions:

- Continue implementation of the Business Recycling Ordinance.
- Increase the Franchise Hauler diversion from waste stream to 30 percent.



Implementation Plan for 2012

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

Implementation Plan for 2030

- Achieve 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.

Past 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.
- In 2007, the City adopted a landscaping ordinance that supports neighborhood gardening.

2008 Implementation Plan

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

2008 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

2008 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 underutilized sites is critical towards attracting new development and protecting public health.

Long-Term Target: Support development of “Complete Streets” and mixed-use development to facilitate access to needed amenities via walking or biking. Complete Streets are streets that are designed for the safety of all modes of travel including biking and walking.

2008 Actions:

- Include supportive policies and implementation mechanisms in 2030 General Plan for each of these items.

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

2008 Actions:

- Complete analysis of additional acres needed and develop implementation strategy, including financing, relative to baseline year 2007.

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.

Past Accomplishments

- Sacramento leads the country in LEED certified buildings, based on square footage.
- The City constructed and owns the Cal EPA building, the first LEED Platinum high rise building in the world.
- In 2001 the City adopted its Smart Growth Principles.
- Over 84 percent of all houses in the City are within ½ kilometer of a transit station or bus stop.
- In 2004 the City adopted amendments to the Bikeway Master Plan.
- In 2005 the City adopted the Vision and Guiding Principles for the General Plan, which includes a vision for sustainability.
- In 2005 the City adopted the SACOG Blueprint growth allocations, and directed staff to plan for this growth in the General Plan.
- In 2006 the City adopted the Pedestrian Master Plan.

2008 Implementation Plan

Long-Term Target: Implement a policy requiring LEED (Leadership in Energy and Environmental Design) Silver certification, or an equivalent, for all new City owned buildings.

2008 Actions:

- Bring a revised resolution for approval by the Mayor and City Council to mandate LEED certification for all new City owned buildings.
- Pursue LEED certification for City Hall.
- The Department of General Services (DGS) will research the feasibility of a pilot program for green roof development at City Hall. The DGS will also look for financial assistance that might be available to reduce the capital cost.

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

2008 Actions:

- Bring forward for Mayor and City Council consideration a “Green Building Incentives and Requirements” program to obtain approval of guidelines, checklists and priorities. This program will encourage more developers to build green and can help promote competition for sustainability within the construction market.
- Establish a working group to introduce the new program to the public.
- Review and update the City’s Residential Energy Conservation Ordinance (RECO).

2008 Implementation Plan (Cont.)

Long-Term Target: Work with community partners to aggressively implement the SACOG Blueprint through the City General Plan and associated documents.

2008 Actions:

- Present to the Mayor and City Council for adoption a broad range of policies within the 2030 General Plan that support the SACOG Blueprint and sustainability.

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

2008 Actions:

- Work towards implementing the following bikeway projects in 2008:
 - Bike Lanes on J Street, 43rd Street, San Juan Road, South Land Park Drive, Bell Avenue and Redding Avenue.
 - Study the feasibility of new bikeways for Downtown and H Street in East Sacramento. Implement new bikeways if considered feasible.
 - Construct the Ninos Parkway Bike Trail, the North Natomas Regional Park Bike Trail, the R Street Bridge Conversion, the Freeport Shores Bike Trail.
 - Study the feasibility of a new crossing of the Union Pacific Railroad at the Sacramento City College.
- Implement new bike parking facilities program:
 - Research a new program to convert parking meter poles into bike parking devices.
 - Work with the Sacramento Metropolitan Air Quality District on a bike parking rebate program.
- Bring forward for Mayor and City Council consideration a new section of the Transportation Programming Guide that will identify pedestrian improvement projects.
 - Create a list of high priority projects derived from the Pedestrian Master Plan, from existing side walks to Schools projects and from public requests.
 - Initiate the highest priority feasible pedestrian improvement programs.

Implementation Plan for 2012

- Achieve 30 percent LEED-type certification of new construction within the City.
- Achieve the land use growth allocations inherent in the Blueprint preferred scenario.
- Support the development of the South Line Phase II extension of the Sacramento Regional Transit system.

Implementation Plan for 2030

- Achieve 80 percent LEED-type certification of new construction within the City.
- Support the development of the Downtown Natomas Airport extension of the Sacramento Regional Transit system.
- Create a comprehensive bicycle and pedestrian network as outlined in the Bikeway Master Plan and Pedestrian Master Plan.

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.

Past Accomplishments

Park Planning, Design, Development and Maintenance

In 2004, Sacramento adopted a Parks and Recreation Master Plan. This plan provides goals and policy for achieving a sustainable parks and recreation system and supporting higher density development by providing generous public open space. This plan includes:

- Acreage Service Level Goals for Neighborhood, Community and Regional Parks.
- Guidelines for all residents to be within 1/2 mile of neighborhood parks and within two miles of community parks.

Open Space/Habitat Conservation

In 2003, Sacramento adopted a Natomas Basin Habitat Conservation Plan. The plan establishes a multi-species conservation program to mitigate expected loss of habitat. Through the Parks and Recreation Department, the City also:

- Enhances and restores wetlands or riparian habitat and provides for interpretation of park and wildlife resources in City parks system.
- Plans and constructs low impact recreation trails for increased public access to riverfronts and revegetates riparian/urban stream corridors.
- Re-develops brownfield/closed landfill sites into parks.
- Trains maintenance staff and the public on management of natural areas in City parks system.
- Provides interpretive signage in nature areas to educate and encourage stewardship of natural resources.
- Provides information in City publications on programs such as *Recycling in Parks*.
- Retrofits and brings parks into Automated Irrigation System as funding is available to reduce water use.

Urban Forestry

The Sacramento Tree Foundation’s Greenprint initiative is a regional, multi-decade program created to meet sustainability and livability goals by expanding urban forests and optimizing the benefits of tree canopy cover. The Greenprint initiative was adopted by the Mayor and City Council in November of 2005, following a Best Management Practices Report and an implementation plan. Since 2005, Urban Forest Services has:

- Planted well over 4000 new trees within the City.
- Comprehensively assessed the health and condition of many of the City’s oldest and most significant trees.
- Implemented routine programmed pruning in the Central City area to maximize efficiencies.

2008 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.

2008 Actions:

- Include supportive policies and implementation mechanisms in 2030 General Plan.

2008 Implementation Plan (Cont.)

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

2008 Actions:

- Complete analysis of additional acres needed and develop implementation strategy, including financing options, relative to baseline year 2007.

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

2008 Actions:

- Develop plans for up to four pilot project sites. Consider training and deploying specialized maintenance crews.
- Work with the development community to identify sites in City parks that may be appropriate for habitat or tree mitigation.

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.

2008 Actions:

- Compile pertinent data to establish 2007 baseline year for measuring success.
- Develop and incorporate by reference into adopted Sacramento Parks and Recreation Master Plan:
 - Comprehensive sustainable park design goals, policies and guidelines.
 - Integrated Pest Management policy.
- Develop master plans for two pilot project Demonstration Landscapes (one ornamental, one food production) as tools for public education.

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

2008 Actions:

- Continue tree planting and replacement programs with a goal of adding 1000 new trees annually.
- Implement a modernized enterprise-wide asset management system.
- Begin compilation of a GIS-based database of all publicly owned trees.

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 critic 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.

Past Accomplishments

Flood Protection

- 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 2012.
- Work continued on the South Sacramento County Streams Project.
- Erosion control work was accomplished on the Natomas Sacramento River Levee.

Water Conservation

- The Water Meter Retrofit Project was initiated and is ongoing.
- The City initiated a water conservation education and inspection program.

Water Quality Protection

- In partnership with several water utilities, the City completed the American River and Sacramento River watershed sanitary survey updates, for cost effectiveness and to continue to facilitate a regional approach towards water quality protection.
- Coordinated development of Plant Services spill notification website, including GIS (geographical information system) spill locator tool and electronic database.
- 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.
- Supported development of the American River Parkway Foundation's Pups in the Parkway dog waste station program.

2008 Implementation Plan

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

2008 Actions:

- Continue implementation of the City's National Pollution Discharge Elimination System Stormwater Discharge Permit.
- Prepare the American River Watershed Sanitary Survey 2008 Update, in partnership with ten other water utilities.
- Provide support for the voluntary spill notification program for the City's water treatment plants, including participation and leadership in water utility partnerships and development of river travel time tools.
- Continue Sacramento and American River ongoing source water protection efforts, based on follow-up to watershed sanitary survey recommendations.

2008 Implementation Plan (Cont.)

Long-Term Target: Achieve 200 year flood protection.

2008 Actions:

- Work with SAFCA to implement:
 - North Natomas Levee Project Phase I
 - South Streams project

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

2008 Actions:

- Continue water meter retrofit program.
- Continue water conservation public education.
- Continue water conservation inspections.
- Begin implementation of select water conservation best management practices (BMPs).

Long-Term Target: Continue to reduce Sanitary Sewer Overflows (SSOs).

2008 Actions:

- Reduce SSOs by three percent from 2007 level.

Implementation Plan for 2012

- Continue to implement the City's National Pollution Discharge Elimination System Stormwater Discharge Permit.
- Continue regional approach for American and Sacramento River Watershed Sanitary Survey Updates.
- Continue to support 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 sanitary sewer overflows (SSOs) by 3 percent annually measured from 2003 baseline.

Implementation Plan for 2030

- Work with SAFCA to achieve 200 year flood protection for the Sacramento River south of the American River confluence.
- Continue to reduce SSOs by three percent annually measured from 2003 baseline.
- Complete the 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.

Past Accomplishments

Education and Outreach

- Over 20 presentations on the City's Sustainability Master Plan were completed to business partners, community organizations and agencies, neighborhood leadership team groups and various City commissions.
- A Sustainability website is now available on the City's home page.
- Participants enrolled in the City's Management Academy and City's Planning Academy received sustainability information as part of the class curriculum's.
- The Public Involvement & Personal Responsibility Advisory Group reflects a broad range of interests: citizens, community based organizations, state agencies and City staff.
- An updated survey of the City's efforts requested by SustainLane, a ranking of How Green is Your City of the country's 50 largest cities, was completed.

2008 Implementation Plan

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

2008 Actions:

- Continue development of cityofsacramento.org/generalservices/sustain as a premier resource to become engaged in the community for information about City sustainability resources and programs.

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

2008 Actions:

- Build on existing partnerships (BERC, SMUD, DOC) with the City to interest business in energy efficiency measures; identify ways to engage businesses in new strategies and to track progress (awards program).

Long-Term Target: *Work with SMUD and other community partners to develop a LEED type, or carbon foot-printing type, of rating system for residents and their dwellings.*

2008 Actions:

- Promote SMUD's website encouraging customers to use the carbon calculator to determine one's carbon "footprint".
- Outreach to the City's 4th "R" Program encouraging participants to do a carbon "footprint" of their own household.

2008 Implementation Plan (Cont.)

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

2008 Actions:

- Promote the City's sustainability website.
- Continue outreach on the City's Sustainability plan and provide presentations to Neighborhood groups, business and community organizations.
- Send pre-written articles for possible submission in Neighborhood newsletters.
- Identify target audiences and reach out to target groups with program information and resources.

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

2008 Actions:

- Identify opportunities for interested citizens and groups to become engaged and contribute to a more sustainable future.
- Develop and distribute "Tips to be Sustainable" – at home, work, road and in the community.
- Capitalize and promote with partners on campaigns to reduce usage of energy that offer rebates for refrigerators, dryers, washers and solar systems.

Long-Term Target: *Launch a "Green Neighborhood" Program*

2008 Actions:

- Build on existing interest and promote to neighborhood groups:
 - Sacramento Tree Foundation's NeighborWoods program
 - SMUD's Energy Star and CFL Bulb Exchange program
 - City's Community Garden program
 - City's Water Conservation and Recycling Program

Long-Term Target: *Recommend a Sustainability "report card" be published annually.*

2008 Actions:

- Similar components of SustainLane reporting system, establish benchmarks and publish results.

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

2008 Actions:

- Continue to collaborate with local universities on environmental forums.
- Participate in Green Summit April 2008.
- Participate in Earth Week Celebrations.

Long-Term Target: *Encourage residential participation to expand usage of Community Gardens.*

2008 Actions:

- Explore demonstration gardens in each Council District.
- Incorporate a pilot school program on "garden to cooking" for youth education.
- Promote front landscape usage for home gardening.

Long-Term Target: *Develop a Green Award program highlighting "green" achievements that include residents, businesses, commercial and non-profit organizations.*

2008 Actions:

- Launch the Mayor's challenge.



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 a program for BioFuel usage.

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 Districts 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.