



City of Sacramento City Council

915 I Street, Sacramento, CA, 95814
www.CityofSacramento.org

Meeting Date: 2/15/2011

Report Type: Staff/Discussion

Title: 2011 Sustainability Implementation Plan

Report ID: 2011-00062

Location: Citywide

Recommendation: Adopt a Resolution approving the 2011 Sustainability Implementation Plan.

Contact: Yvette Rincon, Sustainability Program Manager, (916) 808-5827, Department of General Services

Presenter: Reina J. Schwartz, Director, (916) 808-7195, Department of General Services

Department: General Services Dept

Division: Office of the Director

Dept ID: 13001021

Attachments:

- 1-Description/Analysis
- 2-Attachment 1 Fleet Sustainability Reporting Information
- 3-Attachment 2 Summary of Vehicles Purchased By Fuel Type
- 4-Attachment 3 Fuel Consumption
- 5-Resolution
- 6- Exhibit A - 2011 Sustainability Implementation Plan FINAL

City Attorney Review

Approved as to Form
Jerry Hicks
2/1/2011 8:52:22 AM

City Treasurer Review

Prior Council Financial Policy Approval or
Outside City Treasurer Scope
Russell Fehr
1/24/2011 3:33:19 PM

Approvals/Acknowledgements

Department Director or Designee: Reina Schwartz - 1/27/2011 12:51:22 PM

Assistant City Manager: Patti Bisharat - 1/31/2011 5:54:50 PM



Description/Analysis

Issue: On December 18, 2007, the City Council adopted Resolution No. 2007-944, approving the Sustainability Master Plan – Creating a Sustainable City (Master Plan). On February 12, 2008, January 27, 2009, and February 16, 2010 respectively, the City Council approved the 2008, 2009, and 2010 Sustainability Implementation Plans.

Staff is now bringing forward for adoption the 2011 Sustainability Implementation Plan (2011 Plan). The 2011 Plan identifies key initiatives that staff plans to implement in 2011 to move the City toward the goals and targets identified in the Master Plan. It was developed by subject matter experts within the City. The 2011 Plan largely relies on existing funding sources to fund the actions. Staff has had considerable success generating grant funding from federal and state sources and will continue this effort during 2011.

Key City staff participated in the eight month Greenwise Action Planning process and therefore, have knowledge of and information on the activities in both the 2011 Plan and the Greenwise Action Plan. Therefore, while the Greenwise Action Plan goes above and beyond the scope of the 2011 Plan, the items in the 2011 Plan are consistent with, aligned, and in support of the overarching goals of Greenwise.

2010 Accomplishments

The Sustainability Implementation Plan is the City's coordinated action plan to advance our sustainability goals. The 2011 Plan also identifies past accomplishments. Some of the major accomplishments in 2010 included:

Green Building Certifications: The Robbie Waters Pocket-Greenhaven Library was certified as Leadership in Energy and Environmental Design (LEED)-Silver. Fire Station No. 43, also to be LEED certified, is under construction. It is scheduled for completion in 2011.

Regional Green Building Task Force: Using Energy Efficiency Conservation Block Grant (EECBG) funding, the City coordinated with Sacramento County to establish a joint City/County task force to guide phase two of the Green Building Program. The 34-member Green Building Task Force (GBTF) began meeting in April 2010, and has held 13 meetings, including three larger public-stakeholder meetings. The GBTf process wrapped-up in mid-November and resulted in a series of recommendations, policies and strategies for better coordination among existing programs, requirements and incentives.

Fleet Sustainability Efforts: Pursuant to Resolution No. 2010-083, adopted by City Council on February 16, 2010, Fleet Management has prepared an inventory report on all vehicles in the fleet that are active and provided a summary of the following: vehicle purchases for the prior two fiscal years by fuel type as well as the amount paid; total fuel used by fuel type with associated greenhouse gas scores for the past six fiscal years; growth of the fleet over the past six fiscal years and the miles driven. This information is provided in Attachment 1.

Additionally, Zonar telemetrics is currently installed on 399 City vehicles. A 2010 Return on Investment (ROI) Study was conducted in which Fleet Management received very positive

2011 Sustainability Implementation Plan

feedback related to Zonar having greatly assisted user departments in terms of routing efficiency, tracking of fleet and elimination of potential expenses as a result of excessive idling. The ROI Study of 184 different fleet vehicles in 14-vehicle class types, conducted by Avion Solutions, an independent firm, found that the City achieved a fuel savings of nearly 25%.

In alignment with other Fleet sustainability efforts, on August 3, 2010, the City Manager extended the existing five-minute idling time limitation on heavy duty vehicles to ALL vehicles in the City's fleet. In conjunction with the City Manager extending the idling limit to all City vehicles, Fleet Management launched an anti-idling promotional campaign. **Idling Gets You Nowhere.** Reminder stickers are currently being placed in all City fleet vehicles as vehicles are being serviced.

Climate Action Plan (CAP): The Phase 1 Climate Action Plan (CAP) document for the City's internal operations was completed. Staff also conducted outreach and the first public meeting on Phase 2 of the CAP focused on community wide green house gas emissions reduction.

Park Improvements: The Department of Parks and Recreation's (DPR) first pesticide-free park maintenance pilot project in Fremont Park is proving to be successful. Staff will be expanding the pesticide-free park maintenance project to Regency Park Dog Park. Additionally, Department of Utilities staff provided an Integrated Pest Management (IPM) class for City applicators. Staff is 95% complete in developing IPM strategies for contract services and 95% complete in developing the pest fact sheets describing general IPM strategies for pests commonly managed by the City.

Clean Tech Economic Development: The City hosted the Clean Tech Zone Summit at California State University at Sacramento (CSUS) to feature the new clean tech businesses in the Power Inn Alliance area. Also, the City partnered with Sacramento Area Regional Technology Alliance (SARTA) to host the Clean Tech Showcase in October at CSUS - Attended by 800 people.

Sustainable Purchasing Policy: Department of General Services, Procurement Services division, coordinated across departments to complete a Sustainable Purchasing Policy which was approved in February 2010 (AP-4003). Rollout to departments and employee training occurred in March 2010.

Coordination with 2030 General Plan and Climate Action Plan: The Sustainability Master Plan and 2011 Implementation Plan are being coordinated with the newly adopted 2030 General Plan and the future Climate Action Plan. Throughout the 2011 Plan, references are made to the General Plan implementation measures and near-term actions in the CAP are incorporated in the 2011 Plan.

2011 Actions

The 2011 Plan largely continues the 2010 Plan and starts new programs only when new sources of funding are available (e.g., grants). The 2011 Plan furthers the goals and policies of the Sustainability Master Plan. Also, it incorporates policies and programs related to

sustainability in the newly adopted 2030 General Plan. Actions that have a reference number in parenthesis are linked to the General Plan implementation measures (e.g., GPIP4-10-9).

Some of the key initiatives of the 2011 Plan include:

Commercial AB811 Program: Using EECBG funds, the City will develop a solicitation to choose a program administrator and financier for a Commercial AB 811 program. The program is a voluntary special financing district that will provide financing for solar installation and energy efficiency improvements for commercial property owners. The funding will help with outreach, education and marketing the program.

Car Share Program: In early 2011, the City anticipates bringing a car share service to the community. Department of Transportation and Department of General Services are finalizing negotiations on a car share agreement which will provide vehicles in strategically located areas throughout the downtown and midtown areas. The goal of the program is to reduce vehicle miles travelled (VMT) as well as alleviate parking challenges.

Urban Design & Green Building: The Community Development Department will present the GBTF findings to City Council as well as recommendations for program design and implementation. Staff will utilize the recommendations developed by the GBTF to further craft corresponding policies, ordinances, guidelines, and other programs as appropriate during the latter half of 2011 for final adoption.

Green Facilities Program: City facility assessments during 2010 resulted in ten Energy Conservation Measures being evaluated and engineered at Sam Pannell Community Center, Central Library, and the Downtown Plaza Parking Garage. Building permits, equipment orders and installation will be forthcoming in 2011 funded through the EECBG program.

Solar for City Buildings: The City is currently in negotiations with SolarCity to develop a Power Purchase Agreement (PPA) and Service Level Agreement (SLA) to install solar photovoltaic (PV) power systems on the following City facilities: City Hall, 300 Richards Boulevard, North Natomas Library, Sam Pannell Community Center, South Area Corporation Yard, Oak Park Community Center, and Valley Hi Library. The City hopes to install approximately one megawatt of solar.

Solar Farm at 28th Street Landfill: Staff will continue negotiating an agreement with Conergy for a large scale solar farm in partnership with the City at the former 28th Street Landfill. Eventually, the City hopes to have 15-20 megawatts per year generated on-site.

Climate Action Plan: Using the communitywide greenhouse gas inventory completed in 2009 as a baseline, staff will continue partnering with the county, other cities, and SMUD to complete a communitywide Climate Action Plan (CAP). Phase I of the CAP for internal City operations was presented to Council in February 2010, and the comprehensive communitywide CAP will be completed in June 2011. The CAP identifies measures to be used

by the City and others to reduce greenhouse gas emissions 15 percent below 2005 levels by 2020.

Fleet Green Initiatives: Fleet is participating in a Department of Energy Federal Economic Stimulus partnership for vehicle electrification with Sacramento Municipal Utilities District (SMUD) and other regional fleets. Fleet will be receiving plug-in Hybrid vehicles as a part of a two year demonstration project to evaluate electric vehicle feasibility.

Fleet is participating in a second demonstration and evaluation program for plug-in hybrid medium-duty bucket boom trucks. Funding for this program was awarded by the Department of Energy and is being disbursed to participants through South Coast Air Quality Management District (SCAQMD). Participants in this program include Electric Power Research Institute (EPRI), Eaton Corporation, California Energy Commission (CEC), Azure Dynamics, Inc. and Altec Industries. Fleet will be purchasing three vehicles under this program to help evaluate the performance and effectiveness of plug-in hybrid technology in medium-duty vehicles.

Additionally, Fleet is participating in the CHARGE AMERICA program which is a public private partnership with Coulomb Technologies and the U.S. Department of Energy to provide electric charging infrastructure to selected cities in the United States. Fleet Management hopes to continue to establish regional partnerships with SMUD, Pacific Gas & Electric (PG&E) and other government/non-profit agencies to establish a shared network of alternative fuel dispensing sites.

Fleet Management will also be adding E85 (85% ethanol / 15% unleaded) fueling infrastructure at the Kinney Police Substation to increase consumption of E85 fuel in Police vehicles by approximately 50%, approaching 80,000 gallons per year.

Fleet Management will replace an additional 12 diesel powered refuse trucks past their useful life with Liquefied Natural Gas (LNG) powered trucks and begin phasing out some City pool vehicles to utilize the upcoming car share program.

Public Green Space Acquisition Strategy: The River District Specific Plan is scheduled for adoption in early 2011. Significant new resources for additional land acquisition await better economic times. Regional Parks and Recreation System Financing Strategy has started and is scheduled to be completed in 2011.

Policy Considerations: The 2011 Plan identifies key policies or programs that staff will implement in 2011 using existing resources that are consistent with the Sustainability Master Plan and the 2030 General Plan.

Environmental Considerations:

California Environmental Quality Act (CEQA): Actions requested in this staff report do not constitute a project as defined by the California Environmental Quality Act (CEQA) [CEQA Section 21065 and CEQA Guidelines Section 15378 (b)(4)] and are therefore exempt from environmental review.

2011 Sustainability Implementation Plan

Sustainability Considerations: The recommended 2011 Sustainability Implementation Plan is consistent with the Sustainability Master Plan (SMP) and the 2030 General Plan. In fact, the 2011 Plan is designed to advance the goals and targets of the SMP and the General Plan by establishing action steps for 2011 that help the City meet its sustainability goals and targets.

Commission/Committee Action: None

Rationale for Recommendation: 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 responsibility and the opportunity to bring about significant improvements in environmental quality in the region through the Sustainability Master Plan and the companion document, the 2011 Sustainability Implementation Plan.

Financial Considerations: The key initiatives of the 2011 Plan will be implemented within existing budgeted resources and potential grant programs. As additional budget reductions are made in 2011, there will likely be an evaluation of the 2011 Plan for any necessary adjustments. Sources of funding for the 2011 Plan action steps include the City's existing operating department budgets as well as grant funding (e.g., the US Department of Energy – EECSBG.)

Emerging Small Business Development (ESBD): There are no ESBD considerations in this report.



Attachment 1

Fleet Sustainability Reporting Information

Pursuant to Resolution No. 2010-083, adopted by City Council on February 16, 2010, Fleet Management has prepared an inventory report on all vehicles in the fleet that are active and provided a summary of the following: vehicle purchases for the prior two fiscal years by fuel type as well as the amount paid; total fuel used by fuel type with associated greenhouse gas scores for the past six fiscal years; growth of the fleet over the past six fiscal years and the miles driven.

Background on Emissions Data

Fleet purchases for FY2008/09 and FY2009/10 are based on major emission categories set by CARB. Every year manufacturers are required to meet these standards and the scale becomes more stringent every year. In FY2006/07 the majority of the vehicles purchased were lower emission vehicles, 19 percent Partial Zero Emission Vehicles (PZEV). Similar to PZEV vehicles, 9 percent of the vehicles purchased were hybrids rated as Super Ultra Low Emission Vehicles (SULEV)/AT-PZEV, rated similar to a PZEV vehicle. Technological advances in the automotive industry have resulted in improved vehicle emission ratings such that policies requiring certain vehicle emission ratings are no longer necessary since that is now what the industry offers at a base level.

Based on the June 14, 2005 Council report titled "Update on Fleet Operations and Adoption of Fuel Strategies," all vehicles purchased were based on emission standards set by CARB. The California LEV program defines automotive emission standards which are stricter than the United States' national "Tier" regulations. There have been two major phases. The first phase began in the 1990s and ended when the Low Emission Vehicle II (LEV II) standards began to be phased in for 2004. Several states other than California currently use the same restrictions. These states include Maine, Massachusetts, New York, Oregon, Vermont and Washington and are referred to as "CARB states." The LEV standard created major emission categories for unleaded fueled vehicles only, each with several targets available depending on vehicle weight and cargo capacity. The major emission categories are listed below.

Major emission categories:

- LEV – Low Emission Vehicle
- LEV II – Replaced the LEV Program with even cleaner emissions standards
- ULEV – Ultra Low Emission Vehicle
- SULEV – Super Ultra Low Emission Vehicle
- SULEV II – Even cleaner emissions standards than SULEV
- PZEV – Partial Zero Emission Vehicle

- ZEV – Zero Emission Vehicle

Diesel vehicles have a different standard based on grams of particulate matter (PM) per brake horsepower-hour (g/bhp-hr). Emergency vehicles are exempt from reporting standards. The levels are based on engine year and requirements set by CARB.

- Model Years 1994-1998 – 5.0 g/bhp-hr
- Model Years 1999-2002 – 4.0 g/bhp-hr
- Model Years 2003-2006 – 2.5 g/bhp-hr
- Model Years 2007– 1.3 g/bhp-hr

LNG vehicles are also the same g/bhp-hr as diesel but the engines have a lower g/bhp-hr than conventional diesel engines based on model years.

- Model Years >2004 – 2.5 g/bhp-hr
- Model Years 2004-2006 – 1.8 g/bhp-hr
- Model Years 2007-Now – 0.2 g/bhp-hr

Vehicle Acquisitions

In FY2009/10, Fleet purchased 69 vehicles: 6 diesel, 14 unleaded, and 49 flex-fuel (E85) vehicles. Vehicles purchased in any given year are based on each year's replacement schedule, as well as any additions to the fleet that have been approved within the adopted budget. Attachment 2 provides comparison information on vehicles purchased during FY2008/09 and FY2009/10.

Fuel Consumption

City Council adopted a long term fuel strategy to reduce fuel costs, emissions, and the City's dependence on foreign energy sources. The strategy includes replacing existing vehicles with more efficient, higher fuel mileage vehicles, setting goals for reducing fuel consumption for all City departments, and changing how vehicles and equipment are used. The policy includes a goal to reduce fuel consumption 15 percent from 2003 levels by FY2010 with an annual adjustment to the 2003 level to reflect the City's growing fleet operations.

Since 2003, the City's fleet has grown by 31 percent in the number of equipment units. Additionally, the fleet now travels 85,000 miles more than in 2003. In spite of this growth in the fleet and increase in miles driven, Fleet Management continues to use less carbon-based fuels than in 2003 and has decreased the annual consumption of petroleum-based fossil fuels by 136,526 gallons from 2003. When adjusted for growth, the City has exceeded its fuel consumption reduction goal as shown in Attachment 3. With ever evolving fuel technologies and telemetrics, Fleet Management expects similar, if not better, fuel consumption results over the next 10 year period, especially with 30 percent of the current fleet now being replaced with alternative fuel vehicles.

Vehicle Operations

The City fleet consists of 2,059 licensed, fuel-powered vehicles. The following table provides an itemization of this total by vehicle fuel type. On average, these vehicles travel about 17.2 million miles annually consuming approximately 2.1 million gallons of petroleum-based fossil fuel, 413,982 gallons of LNG, and 56,211 gallons of E85.

Vehicle Fuel Type	Number of Vehicles
Unleaded	1,319
Diesel	437
E85	117
LNG	85
Propane	40
Hybrid	34
Electric	20
Purinox	6
Compressed Natural Gas	1
Total	2,059

Monitoring and Reporting

Fleet Management continually seeks new ways to improve monitoring and reporting capability through the use of emerging technologies such as Global Positioning System (GPS) telematics devices and vehicle identification boxes (VIBs).

On July 14, 2009, City Council adopted Resolution No. 2009-455 awarding a five-year contract for the purchase of fleet telematics equipment and related services to Zonar Systems. The Zonar Systems product provides a standardized city-wide GPS system using high definition data that can be used to verify services provided by City departments. During the Zonar Systems implementation in the Solid Waste division, data was captured that showed each waste container picked up during daily routes. This high definition GPS data is different from other GPS systems because of its very high sample rate providing accurate and real time location data.

A 2010 Return on Investment (ROI) Study conducted by Avion Solutions, an independent firm, found that Fleet Management received very positive feedback related to Zonar having greatly assisted user departments in terms of routing efficiency, tracking of fleet and elimination of potential expenses as a result of excessive idling. The ROI Study of 184 different fleet vehicles in 14-vehicle class types, found that the City achieved a fuel savings of nearly 25%.

Currently, Zonar is installed in 399 vehicles, with 100 additional units scheduled

for installation during the 2011 calendar year.

During FY 2009/10, Fleet Management implemented an automated web enabled car sharing and motor pool software management program. Currently, there are approximately 42 vehicles shared by City employees through this system which enables further “right sizing” of the fleet and manages motor pool operations. The automated web enabled car sharing and motor pool software program is accessible at four locations: the 24th Street Corp Yard; City Hall; Sutters Landing; North Area Fleet Maintenance Facility; and 300 Richards Boulevard.



Attachment 2

**Summary of Vehicles Purchased
By Fuel Type**

Fuel Type	FY2008/09				FY2009/10			
	Count	% of Count	Purchase \$	% of \$	Count	% of Count	Purchase \$	% of \$
Diesel	41	25	\$8,305,412	54	6	9%	\$638,098	30%
Unleaded	41	37	\$1,120,496	7	14	20%	\$327,733	15%
Hybrids (unleaded)	0	0	\$0	0	0	0%	\$0	0%
LNG	20	12	\$4,414,142	29	0	0%	\$0	0%
E85	59	26	\$1,647,798	11	49	71%	\$1,154,094	54%
Propane	0	0	\$0	0	0	0%	\$0	0%
Total	161	100%	\$15,487,848	100%	69	100%	\$2,119,925	100%

Total Fuel Consumed

	FY2002/03	FY2003/04	FY2004/05	FY2005/06	FY2006/07	FY2007/08	FY2008/09	FY2009/10
Unleaded Gasoline	1,202,706	1,176,278	1,201,153	1,209,354	1,180,182	1,128,502	1,267,344	1,183,149
GHG Emissions (Metric Tons)	11,155	10,910	11,141	11,217	10,946	10,467	11,724	10,974
Diesel Fuel	958,241	994,366	881,533	947,787	911,697	984,826	931,306	825,170
GHG Emissions (Metric Tons)	10,240	10,626	9,420	10,128	9,742	10,524	9,952	8,818
Propane	7,443	11,736	15,430	19,142	17,924	847	11,799	18,529
GHG Emissions (Metric Tons)	45	72	94	117	109	5	72	113
E85	--	--	--	--	--	--	22,503	56,225
GHG Emissions (Metric Tons)	--	--	--	--	--	--	143	358
Purinox	54,672	45,595	20,418	2,151	--	--	--	--
GHG Emissions (Metric Tons)	545	454	203	21	--	--	--	--
LNG	10,526	95,098	226,170	241,388	334,604	198,893	260,091	349,699
GHG Emissions (Metric Tons)	49	447	1,062	1,133	1,571	934	1,221	1,642
CNG	569	688	518	575	444	--	40	38
GHG Emissions (Metric Tons)	0.03	0.04	0.03	0.03	0.03	--	0.00	0.00
Total Fuel Used	2,234,158	2,323,761	2,345,222	2,420,398	2,444,851	2,313,069	2,493,082	2,432,810
Total Greenhouse Gas Emissions (metric tons)	22,034	22,508	21,920	22,617	22,369	21,930	23,143	21,905
Less Alternative Fuels	18,539	107,522	242,118	261,105	352,972	199,740	291,058	416,057
Total Petroleum Based Fuel Used	2,215,619	2,216,239	2,103,104	2,159,293	2,091,879	2,113,329	2,202,024	2,016,753
Fuel Consumption Goal	2,215,619	2,215,619	2,215,619	2,215,619	2,215,619	2,215,619	2,215,619	2,215,619
Growth Adjusted Fuel Consumption Goal	2,215,619	2,383,662	2,537,583	2,577,122	2,673,146	2,766,347	2,928,741	2,907,559
Less 15%	332,343	357,549	380,637	386,568	400,972	414,952	439,311	436,134
Fuel Consumption Goal Adjusted for Growth in Fleet	1,883,276	2,026,112	2,156,945	2,190,554	2,272,175	2,351,395	2,489,430	2,471,425
Diff From Goal	332,343	190,127	-53,842	-31,261	-180,296	-238,066	-287,405	-454,672
Percent Over/Under Goal	-15%	-9%	3%	1%	9%	11%	13%	21%



Attachment 3

Fuel Consumption

Fuel Consumption							
Growth of Fleet							
Year	FY2003/04	FY2004/05	FY2005/06	FY2006/07	FY2007/08	FY2008/09	FY2009/10
2003 Base	1,569	1,569	1,569	1,569	1,569	1,569	1,569
Unit Count	1,688	1,797	1,825	1,893	1,959	2,074	2,059
Difference	119	228	256	324	390	505	490
Variance from base	8%	15%	16%	21%	25%	32%	31%
% Prior Year Growth	8%	7%	2%	4%	4%	7%	-1%
Miles Driven							
Year	FY2003/04	FY2004/05	FY2005/06	FY2006/07	FY2007/08	FY2008/09	FY2009/10
2003 Base	17,126,411	17,126,411	17,126,411	17,126,411	17,126,411	17,126,411	17,126,411
Miles Driven	17,399,343	17,553,989	18,124,738	18,906,343	19,303,754	18,714,939	17,396,064
Difference	272,932	427,578	998,326	1,779,932	2,177,343	1,588,528	269,653
Variance from goal	2%	2%	6%	10%	13%	9%	2%

*2010 Goal (adjusted): The fuel consumption goal is adjusted for vehicle growth in the fleet. The goal, per Resolution No. 2005-454, is to reduce fuel consumption 15% from the 2003 levels by FY2010.



RESOLUTION NO. 2011-xxxx

Adopted by the Sacramento City Council

February 15, 2011

APPROVING THE 2011 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 2011 Sustainability Implementation Plan.
- B. On December 18, 2007, the 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. In 2008, 2009, and 2010, the City Council adopted the 2008, 2009, and 2010 Sustainability Implementation Plans, respectively.
- D. The 2011 Sustainability Implementation Plan identifies key initiatives the City will implement in 2011 to move the City toward meeting the goals and targets identified in the Master Plan. The Implementation Plan was developed by subject matter experts within the City. Given the state of the City's budget, the initiatives within the Plan will be implemented using existing resources or grant funding.

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

Section 1. The 2011 Sustainability Implementation Plan is approved.

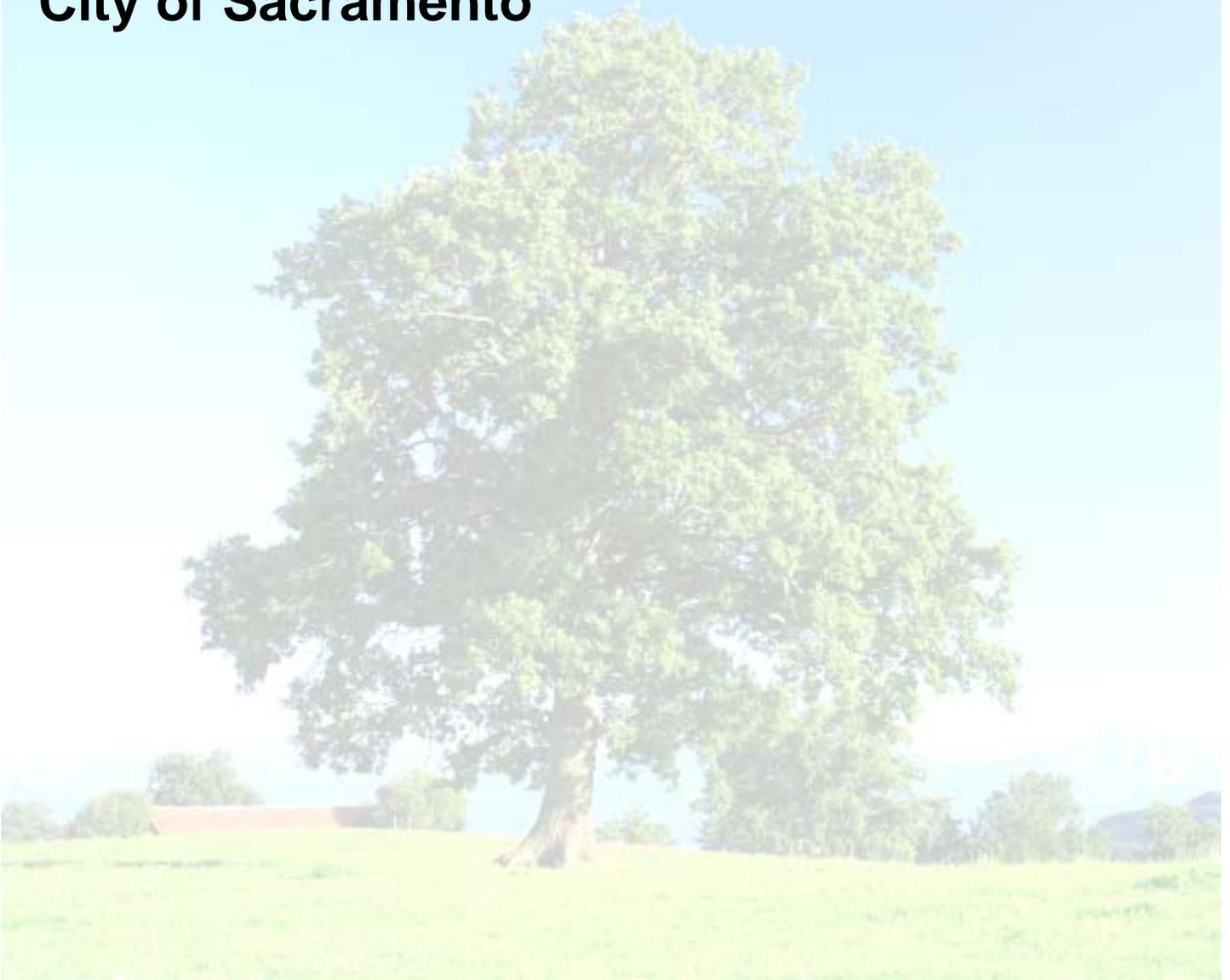
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Exhibit A – 2011 Sustainability Implementation Plan

EXHIBIT A – 2011 Sustainability Implementation Plan

**Document Available for Review on the
City of Sacramento Website
www.cityofsacramento.org**

Creating a Sustainable City: 2011 Implementation Plan City of Sacramento



City of Sacramento

GENERAL SERVICES

WOW! *the Customer*

Getting It Done!



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Kevin Johnson, Mayor

City Council

**Angelique Ashby
Sandy Sheedy
Steve Cohn
Robert King Fong
Jay Schenirer
Kevin McCarty
Darrell Fong
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 (SMP). The SMP 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 toward reducing greenhouse gas emissions and promoting a greener path of doing business and living.

The 2011 Implementation Plan is the City's action plan for the next 12 months to move us toward our long term sustainability targets. Also contained in this document are 2010 successes and the longer term actions for 2013 and 2030. And, because many of the City's 2030 General Plan implementation measures address core sustainability issues, they are included in this Plan and identified with a number, e.g., GPIP 4-10-8. Including these measures in this Plan helps focus staff efforts, and consolidates them in a format which highlights the City's progress toward meeting our overall sustainability goals. As the Climate Action Plan is developed, staff will coordinate with all other sustainability efforts.

2011 Implementation Plan Highlights

Car Share Program: In early 2011, the City will be bringing car share services to the community in strategically located areas throughout the downtown and mid-town areas. The goal of the program is to reduce vehicle miles traveled (VMT) as well as alleviate parking challenges.

Commercial AB811 Program: Using Energy Efficiency and Conservation Block Grant (EECBG) funds, the City will develop a solicitation to choose a program administrator and financier for a Commercial AB 811 program. The program is a voluntary special financing



district that will provide financing for solar installation and energy efficiency improvements for commercial property owners. The EECBG funding will be used for activities such as outreach, education and marketing for the program.

Green Facilities Program: City facility assessments have resulted in ten Energy Conservation Measures being evaluated and engineered at Sam Pannell Community Center, Central Library, and the Downtown Plaza Parking Garage. Building permits, equipment orders and installation will be forthcoming in 2011 funded through the Energy Efficiency and Conservation Block Grant Program of the American Recovery and Reinvestment Act of 2009.

Solar for City Buildings: The City is currently in negotiations with SolarCity to develop a Power Purchase Agreement (PPA) and Service Level Agreement (SLA) for approximately one megawatt of solar on City facilities.

Climate Action Plan (CAP): The Phase 1 CAP document for the City's internal operations was completed. Staff has conducted outreach as well as the first public meeting on Phase 2 and community-wide green house gas emissions reduction. Staff coordination with Sacramento Area Green Partnership is on-going related to regional green house gas inventory and regional reduction measures.

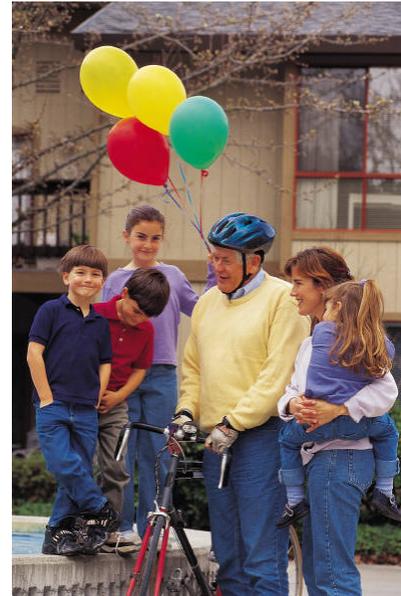
Fleet Telemetrics and Electric Vehicle Evaluation: In late 2009, the City contracted with Zonar Systems for fleet telemetrics equipment and



services. Throughout 2010, telemetrics has helped the City achieve reduced fuel consumption and vehicle emissions as well as operational efficiencies. Telemetric equipment has been installed on about 399 vehicles to date. 100 additional vehicles will have the equipment installed in 2011.

Additionally, Fleet Management is participating in a Department of Energy Federal Economic Stimulus partnership for vehicle electrification with Sacramento Municipal Utilities District (SMUD) and other regional fleets. The City will be receiving plug-in Hybrid vehicles as a part of a two year demonstration project to evaluate electric vehicle feasibility.

Regional Green Building Program: Using \$100,000 from EECBG funding, the City coordinated with Sacramento County to establish a joint City/County task force to guide phase two of the Green Building Program. The 34-member Green Building Task Force (GBTF) began meeting in April 2010, and has held 13 meetings including three larger public stakeholder meetings. The GBTF process wrapped-up in mid-November and resulted in a series of recommendations, policies and strategies for better coordination among existing programs, requirements and incentives. The final report with GBTF recommendations will be completed by the end of 2010; this report, along with staff's recommendation of next steps for implementation will be presented to the City Council in early 2011. Staff will utilize these recommendations developed by the GBTF to further craft corresponding policies, ordinances, guidelines, or other programs as appropriate during the latter half of 2011 for final adoption.



Funding the Sustainability Actions

The 2011 Sustainability Implementation Plan (SIP) action steps will be funded using the following funding sources: existing operating department budgets, federal and state grant funding, and cost sharing with other local municipalities. Due to budget challenges, the initiatives are generally limited to what the City can do with existing resources. As additional budget reductions are made in 2011, there will likely be an evaluation of the Plan for any necessary adjustments. In some cases, the funding source is identified in the action step.

How to Read This Document

The 2011 SIP is a compilation of the key actions the City will take in 2011. Like the Sustainability Master Plan, the Implementation Plan is separated into nine focus areas. Within each focus area, goals, 2010 accomplishments, 2011 actions, and longer term targets for 2013 and 2030 are stated. The key initiatives identified in the Implementation Plan for each focus area are linked to the Sustainability Master Plan targets, meaning everything planned for 2011 moves us toward the long term targets identified in the Master Plan. In addition, some initiatives refer to a General Plan implementation program (e.g., GPIP 4-6-20).

Key City staff participated in the eight month Greenwise Action Planning process and therefore, have knowledge of and information on the activities in both the 2011 SIP and Greenwise Action Plan. Therefore, while the Greenwise Action Plan goes above and beyond the scope of the 2011 SIP, the items in the 2011 SIP are consistent with, aligned, and in support of the overarching goals of Greenwise.





Focus Area 1. Energy Independence

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

2010 Accomplishments

- **Contractor Selected for Solar Power Purchase Agreement (PPA):** On March 17, 2010, staff interviewed four firms for a solar power purchase agreement (PPA) to install solar on City facilities. SolarCity was ranked number one by a selection committee.
- **Green Facilities Program:** City facility assessments have resulted in ten Energy Conservation Measures being evaluated and engineered at Sam Pannell Community Center, Central Library, and the Downtown Plaza Parking Garage. Building permits, equipment orders and installation will be forthcoming in 2011 funded through the Energy Efficiency and Conservation Block Grant Program of the American Recovery and Reinvestment Act of 2009.
- **LEED Certification:** The new Robbie Waters Pocket-Greenhaven Library was awarded LEED-Silver certification.
- **Lighting Projects:** A contract was awarded for the purchase of light-emitting diode (LED) lighting fixtures for the Downtown Plaza Central Parking Garage to reduce energy use at the parking structure.
- **Solar Farm at 28th Street Landfill:** The City obtained authorization for an exclusive right to negotiate with Conergy to finance a small scale solar farm in partnership with the City at the 28th Street Landfill.
- **Joint Use of County North Area Recovery Station:** On November 16, 2010, City Council approved an agreement with the County of Sacramento for transfer of municipal solid waste at the North Area Recovery Station (NARS) to reduce refuse truck vehicle miles traveled (VMT) and increase fuel efficiency. The agreement is currently being implemented.
- **Solar Photovoltaic (PV) for Utilities Administration Building:** Solar panels were installed in December 2010.
- **“Green IT” Projects:** Completed the following IT data center projects to improve energy efficiency: adjusted data center room temperature four degrees, raised the floor venting, decommissioned the main frame, and installed new HVAC equipment.

2011 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.*

2011 Actions:

- **Solar PPA for City Buildings:** The City is currently in negotiations with SolarCity to develop a Power Purchase Agreement (PPA) and Service Level Agreement (SLA) to install solar photovoltaic (PV) power systems on the following City facilities: City Hall, 300 Richards Boulevard, North Natomas Library, Sam Pannell Community Center, South Area Corporation Yard, Oak Park Community Center, and Valley Hi Library. The City hopes to install approximately one megawatt of solar.
- **Solar Farm at 28th Street Landfill:** Staff will continue negotiating an agreement with Conergy for a large scale solar farm in partnership with the City at the 28th Street Landfill. Eventually, the City hopes to have 15 to 20 megawatts per year generated on-site.
- **Waste-to-Energy Program:** Continuing to explore the feasibility of a waste-to-energy program, such as an anaerobic digester, biomass facility, or plasma arc gasification process, consider a “demonstration energy park”, and identify future opportunities for a waste-to-energy program on a regional, cooperative basis with SMUD, Sacramento County, and others. (GPIP 4-7-18)
- **Permit Streamlining:** Using the Solar America Cities grant, streamline the permitting process for solar photovoltaic and thermal systems, including fees.

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.

2011 Actions:

- **Green Facilities Program:** City facility assessments have resulted in ten Energy Conservation Measures being evaluated and engineered at Sam Pannell Community Center, Central Library, and the Downtown Plaza Parking Garage. Building permits, equipment orders and installation will be forthcoming in 2011 funded through the EECSBG Program of the American Recovery and Reinvestment Act of 2009.
- **LEED Certification:** Upgrades from LEED-Silver to LEED-Gold are currently being pursued for the Robbie Waters Pocket Greenhaven Library and the City Hall building. Final certification confirmation is expected in Spring 2011.
- **LED Street Lighting Program:** Using EECSBG funds, the City will retrofit ornamental and mast-arm street lights in the Central Business District and Midtown areas with energy efficient LED lamps to reduce energy consumption.
- **Convention Center J Street Marquis:** Replace the J Street Marquis on the Convention Center with an energy efficient sign.
- **“Green IT” Projects:** Improve energy efficiency of the City’s technology system by completing the following projects: server virtualization, remote power management, and purchasing Energy Star rated computers and other equipment.

Long-Term Target: By 2030, energy consumption (electricity, natural gas, motor fuels) per capita for the Sacramento community will be reduced by 25% relative to 2005.

2011 Actions:

- **Commercial AB811 Program:** Using EECSBG funds, the City will develop a solicitation to choose a program administrator and financier for a Commercial AB 811 program. The program is a voluntary

special district that will provide financing for solar installation and energy efficiency improvements for commercial property owners. The EECBG funding will be used for activities such as outreach, education and marketing for the program.

- **Sacramento Regional Energy Alliance:** Using EECBG funds, the City has partnered with SMUD to provide funding for focused and enhanced rebates to City residents for residential and commercial energy efficiency retrofits. SMUD has developed the Sacramento Regional Energy Alliance, a regional energy efficiency partnership between local jurisdictions, educational institutions, other agencies, and SMUD.
- **Small Business Energy Efficiency Pilot Program:** Using EECBG funding, SMUD will implement a pilot program to target small businesses in the City for comprehensive and cost-effective energy efficiency upgrades, including lighting retrofits, refrigeration and HVAC improvements, and other measures.

Implementation Plan for 2013

- 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 the 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).



Focus Area 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.

2010 Accomplishments

- **Third Party Certification of the City's Greenhouse Gas (GHG) Emissions through the California Climate Action Registry :** Internal Operations Greenhouse Gas Emissions for 2007, 2008 and 2009 have been completed and submitted for third party verification. Verification results were due December 31, 2010. Review by the California Climate Action Registry is in process.
- **Climate Action Plan (CAP):** Completed the Phase 1 Climate Action Plan (CAP) document for the City's internal operations. Staff conducted outreach and the first public meeting on Phase 2 of the CAP as well as community-wide green house gas emissions reduction.
- **AB32 Scoping Plan:** Staff continued to monitor and comment on various activities related to AB 32 and SB 375 implementation. During September 2010, SACOG and ARB adopted regional green house gas reduction targets for cars and light trucks per SB 375 requirements. (GPIP 4-10-12)

2011 Implementation Plan

Long-Term Target: *By 2020, City operations will have reduced carbon dioxide emissions to 54,000 metric tons (equal to 1990 levels). Note – we are evaluating the need to change the target due to pending regulatory clarifications and will return to Council to amend as needed.*

2011 Actions:

- **Third Party Certification of the City's Greenhouse Gas (GHG) Emissions through the California Climate Action Registry:** Work on the 2010 GHG inventory will continue in 2011 as staff and other resources allow.
- **Climate Action Plan:** Staff issued a Request for Proposals (RFP) for a consultant to provide technical services related to the development of a community-wide climate action plan. Staff coordination with Sacramento Area Green Partnership is on-going related to regional greenhouse gas inventory and regional reduction measures.

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

2011 Actions:

- **AB32 Scoping Plan:** Staff will continue to monitor and comment on State regulations related to the implementation of AB 32 in the SACOG region. (GPIP 4-10-12)
- **Climate Action Plan:** Staff coordination with Sacramento Area Green Partnership is on-going related to regional green house gas inventory and regional reduction measures.

Implementation Plan for 2013

- 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.

Implementation Plan for 2030

- Efforts will continue to meet 2050 reduction target for internal operations and community.
- The Climate Action Plan is a priority implementation measure and a key mitigation measure for the 2030 General Plan.



Focus Area 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 to encourage City employees to drive less and engage in clean air practices.

2010 Accomplishments

- **Vehicle Idling:** On August 3, 2010, the City Manager extended the existing five-minute idling time limitation on heavy duty vehicles to all vehicles in the City's fleet.
- **Fleet Launched Anti-Idling Campaign:** In conjunction with the City Manager extending the idling limit to all vehicles in the City's fleet, Fleet Management launched an anti-idling promotional campaign, "Idling Gets You Nowhere." Reminder stickers are currently being placed in all City fleet vehicles as they are being serviced.
- **Solid Waste Trucks:** Implemented a 4/10 work schedule for Solid Waste refuse truck drivers to decrease V MT and improve overall efficiencies of solid waste collection.
- **CEQA Mitigation Measures:** Community Development staff initiated tracking of mitigation measures through its Accela permitting system. In addition, the City now requires all mitigation measures and conditions of approval to be placed on a separate sheet for all plans submitted for review prior to issuance of building permits. (GPIP 4-10-9)
- **Alternative Modes of Transportation:** DOT prepared displays at Earth Day and other public events describing recent bike and pedestrian facilities. Continued participation in bicycle promotion through May, which is an annual bike month event. (GPIP4-10-15)
- **Fleet Telemetrics:** Zonar Systems provides fleet telemetrics equipment and services for several hundred vehicles in the City's fleet. Telemetrics has helped the City achieve reduced fuel consumption and vehicle emissions as well as operational efficiencies. Telemetric equipment has been installed on approximately 399 vehicles to date. A Return on Investment (ROI) study resulted in Fleet Management receiving very positive feedback from a Department supervisor, stating that Zonar has greatly assisted his division in terms of routing efficiency, tracking of fleet and reduced expenses. The ROI study of 184 different vehicles in 14-vehicle class types found that the City achieved a fuel savings of nearly 25%.
- **Employee Commute Survey:** A City Employee Commute Survey was conducted in May 2010. Over 350 responses were received. Analysis of the results is still pending due to staffing limitations.

2011 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.*

2011 Actions:

Creating a Sustainable City: 2011 Implementation Plan

- **CEQA Mitigation Measures:** Continue to recommend and develop new processes to improve monitoring and enforcement of all CEQA mitigation measures, including air quality measures. (GPIP 4-10-9)
- **Alternative Modes of Transportation:** Initiating a pedestrian safety outreach program with an estimated roll-out to the public of spring 2011. Continuing outreach to the public through DOT's web site. Promote SACOG's new and improved "Commuter Club". (GPIP 4-10-15)
- **Employee Commute Survey:** Analyze results of the City Employee Commute Survey which was conducted in May 2010.
- **SMAQMD Programs:** Continue to participate in and partner with Sacramento Air Quality Management District on programs such as Sacramento Emergency Clean Air & Transportation (SECAT) Program, Spare the Air Program and the implementation of the 2030 General Plan.
- **Fleet Management:** Replace an additional 12 diesel powered refuse trucks past their useful life with Liquefied Natural Gas (LNG) powered trucks and begin phasing out some City pool vehicles to utilize the upcoming car share program.
- **Alternative Fuel Infrastructure:** Fleet Management will be adding E85 (85% ethanol / 15% unleaded) fueling infrastructure at the Kinney Police Substation to increase consumption of E85 fuel in Police vehicles by approximately 50%, approaching 80,000 gallons per year.
- **Fleet Telemetrics:** Continue installation of fleet telemetric equipment and service on approximately 100 City vehicles in 2011.
- **Electric Vehicle Evaluation:** Fleet Management is participating in a Department of Energy Federal Economic Stimulus partnership for vehicle electrification with Sacramento Municipal Utilities District (SMUD) and other regional fleets. Fleet will be receiving plug-in Hybrid vehicles as a part of a two year demonstration project to evaluate electric vehicle feasibility.
- **Electric Charging Infrastructure:** Fleet Management is participating in the CHARGE AMERICA program which is a public private-partnership with Coulomb Technologies and the U.S. Department of Energy to provide electric charging infrastructure to selected cities in the US. Fleet also hopes to continue to establish regional partnerships with SMUD, Pacific Gas & Electric (PG&E) and other government/non-profit agencies to establish a shared network of alternative fuel dispensing sites.

Implementation Plan for 2013

- 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

- 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.



Focus Area 4. Material Resources

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

2010 Accomplishments

- **Integrated Pest Management (IPM):** Department of Utilities provided an IPM class for City applicators. Staff is 95% complete in developing IPM strategies for contract services and 95% complete in developing the pest fact sheets describing general IPM strategies for pests commonly managed by the City.
- **Pesticide Use Data:** Staff from various City departments collected data from facilities participating in the City's IPM services contract, Parks, Drainage, and Golf. Data is collected annually and entered into spreadsheets for future evaluation.
- **Containerized Green Waste Program:** The voluntary containerized green waste program is now available citywide. Currently, 103,775 customers are participating in the program.
- **Route Smart:** Implemented Route Smart software for solid waste trucks to decrease VMT and increase fuel efficiency.
- **Pesticide-Free Park Maintenance:** The City's first pesticide-free park maintenance pilot project in Fremont Park is proving to be successful. Staff will be expanding the pesticide-free park maintenance project to Regency Park Dog Park. Adopt a Park is a necessary complement to City maintenance services for this project to continue to be successful.
- **Sustainable Purchasing Policy:** General Services Department – Procurement Division coordinated across departments to complete a Sustainable Purchasing Policy which was approved in February 2010 (AP-4003). Rollout to departments and employee training occurred in March 2010.
- **Vermicomposting Program:** The following City operations departments are participating in the Vermicomposting Program: Parks & Recreation, Treasurer's Office, Transportation, Community Development, General Services, and Utilities.
- **Recycle Bank:** Recycle Bank is a rewards program where residents can earn points for proper recycling that can be redeemed through participating local and national businesses. In late May 2010, a six month pilot was implemented in South Meadowview. A 7% decrease in contamination was experienced in the pilot area. The pilot has been extended an additional three months to consider the feasibility of taking the program citywide.
- **Alternative Landfill Disposal Site:** City Council granted approval for the City's waste to go to the Kiefer Landfill (Sacramento County) in 24 months. The City County agreement for disposal at Kiefer Landfill agreement includes immediate access to the North Area Recovery Station, up to 25,000 tpy now, reducing the total number of miles driven for vehicles working above the American River.
- **Take Back Partnerships:** City Council approved an ordinance with Sharps for a formalized needle take back requirement. (GPIP 4-7-18)

- **Construction and Demolition Ordinance:** Implemented and currently monitoring construction subject to the Construction and Demolition (C&D) Ordinance. The C&D Ordinance was updated to reflect new CalGreen standards, effective January 1, 2011. (GPIP 4-7-18, 4-7-19)
- **Food Waste Pilot Program:** Atlas Disposal is implementing a program with the Green Restaurant Alliance of Sacramento (GRAS) to collect food waste from 10 restaurants in the City of Sacramento. Approximately 1400-2000 pounds is collected each week that otherwise would go to landfill. The food waste is hauled to Del Rio Botanicals in West Sacramento where it is used for compost. GRAS restaurants close the loop by purchasing vegetables grown at Del Rio Botanicals.

2011 Implementation Plan

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

2011 Actions:

- **Integrated Pest Management (IPM):** Continue development and implementation of the City's Integrated Pest Management (IPM) program as described in the City's Pesticide Plan.
- **Pesticide Use Data:** Continue documenting quantities of pesticides used from Use Reports, begin collecting pesticide use data from facilities that have begun implementing a facility specific IPM program, and continue collecting pesticide use data from Parks, Drainage, and Golf. Data is collected annually and entered into spreadsheets for future evaluation.
- **Pesticide-Free Park Maintenance Program:** Continue to expand the pilot program to other City parks.

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

2011 Actions:

- **Construction and Demolition Ordinance:** Focus on 50% diversion as opposed to materials types. (GPIP 4-7-18, 4-7-19)

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

2011 Actions:

- **Food Waste Pilot Program:** Study how to expand with containerized green waste program.
- **Vermicomposting Program:** Continue to expand vermicomposting to additional City facilities.
- **Recycle Bank:** The South Meadowview pilot project will be extended an additional three months to determine if the project is feasible to implement city-wide.
- **Waste Stream Diversion:** Maintain the Franchise Hauler diversion from waste stream at 20 percent for 2011. As of July 2010, 20.1% was diverted.

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

2011 Actions:

- **Alternative Landfill Disposal Site:** The Department of Utilities will not only continue to investigate alternative landfill options, but also technologies in place of landfilling waste.
- **Alternative Use of Methane Gas:** The Solid Waste Division is exploring alternative use of the methane gas generated by the landfill, including alternative fuel for trucks.
- **Take Back Partnerships:** The City of Sacramento, Solid Waste Division has worked with private businesses to take back batteries, as well as compact and fluorescent bulbs. In addition to private businesses, there are drop off locations at community centers, city buildings and libraries. There are a total of 20 drop off locations where residents can take their batteries, six locations (hardware stores) can take compact and fluorescent bulbs as well. The City services all 20 locations on a weekly basis. In addition, the Solid Waste Division has an appointment program that allows the resident to leave the universal waste on their door step to be picked up by Solid Waste. Staff will continue implementation of take back partnerships for universal waste. (GPIP 4-7-18)
- **Containerized Green Waste Program:** Continue to expand the Containerized Green Waste Program to get more participants citywide to reduce VMT, increase fuel efficiency and improve solid waste collection efficiency.

Implementation Plan for 2013

- 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.



Focus Area 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, to promote “greening” and gardening within the City, and create “healthy urban environments” through Restorative Redevelopment.

2010 Accomplishments

- **Park Site Acquisition:** The City acquired four park sites in the Midtown, Fruitridge Manor, Oak Park, and River Garden neighborhoods that will be developed as small public places as funding allows.
- **School Lunches:** The City (through a County program) provides daily lunches to school children; some of the food provided is organic.
- **Farmer’s Markets:** Farmer’s Markets are operated on a daily basis throughout Sacramento for approximately seven months each year.
- **Demonstration Landscapes:** All eight community gardens, including three new ones, are holding a variety of information classes on food gardening and composting. City supports grant proposal by Sacramento Tree Foundation for an Urban Ecology Center at North Natomas Regional Park.
- **Community Gardens:** Three new community gardens opened.
- **Backyard Chicken Ordinance:** Department of General Services Animal Care Staff prepared and presented discussion papers that went before the Law and Legislation Committee on October 5th and November 16th respectively, discussing policy direction on whether or not to draft an ordinance to allow egg-laying chickens in residential neighborhoods.
- **Key Contaminated Sites:** Department of General Services staff completed soil remediation of underground diesel contamination at the North Area Corporation Yard. The property can now be redeveloped for city use. Site assessments were performed on several properties allowing development, including two new city parks, a fire station and a community garden. Groundwater cleanup continued at the Samuel Pannell Meadowview Community Center to protect human health. Permitting assistance was provided for a new mobile liquid natural gas fueling station for city vehicles. A petroleum underground storage tank was removed at the former 911 Communications Center. Contaminated soil management services were provided for utilities installation at the Amtrak Rail Depot and the construction of the new Greyhound Bus Station. Investigation and sampling was performed at the Old City Incinerator and the Colfax Yard properties to facilitate their redevelopment.

2011 Implementation Plan

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

2011 Actions:

- **Demonstration Landscapes:** Robla Park and Burberry Park ornamental landscape projects are rescheduled to 2011 due to revised priorities.
- **Community Gardens:** New Martin Luther King, Jr. Community Garden, Valley Hi Park Community Garden, and Camellia Park Community Garden will open in 2011. Additionally, federal legislation to provide added funding for community gardens is being introduced.

- **Locally Produced Food:** Continue to work with community partners to encourage the purchase of locally produced food. The City and Organic Sacramento periodically hold public education events related to gardening and locally produced food.
- **Backyard Chicken Ordinance:** Department of General Services Animal Care Staff will return to the Law and Legislation Committee on February 15, 2011, to discuss policy direction on whether or not to draft an ordinance to allow egg-laying chickens in residential neighborhoods.

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

2011 Actions:

- **Key Contaminated Sites:** 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 are paid for through State and Federal grants. Remediation of blighted and underutilized sites is critical to 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.

2011 Actions:

- **Public Green Space Acquisition Strategy:** The River District Specific Plan is scheduled for adoption in early 2011. Significant new resources for additional land acquisition await better economic times. Regional Parks and Recreation System Financing Strategy has started and is scheduled to be completed in 2011.

Implementation Plan for 2013

- 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.



Focus Area 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, to reduce dependence on the private automobile by working with community partners to provide efficient and accessible public transit and transit supportive land uses, and to reduce long commutes by providing a wide array of transportation and housing choices near jobs for a balanced, healthy City.

2010 Accomplishments

- **2030 General Plan Policies:** Meeting the policy goals progresses primarily with new private development. Curtis Park Village infill project was approved and will provide new park land. Additionally, new park development was funded and should await adequate operation and maintenance funding.
- **Livability Index:** The Livability Index was completed and presented to City Council for the first time in October 2009. For 2010, some of the indicators have been refined. The Livability Index assessment for 2010 was presented to City Council on November 30th as a part of the 2030 General Plan Annual Report to City Council. (GPIP 4-1-6 and GPIP 4-1-7)
- **Housing Element:** Adopted the Housing Element of the 2030 General Plan which includes a goal to develop and rehabilitate housing and neighborhoods to be environmentally sustainable.
- **Infill Strategy:** The Infill Strategy Annual Report was presented to Council, however no comprehensive update of the strategy was started in 2010 due to lack of funding.
- **Major Barriers to Connectivity Study:** Staff has initiated a study of crossings for the Sacramento River. The document is in draft form. (GPIP 4-6-9)
- **Update TSM Program:** Staff has prepared a draft ordinance amendment to the Transportation Systems Management (TSM) program consistent with the policies of the General Plan. Adoption is expected by 2011. (GPIP 4-6-11)
- **Incentives for Private Transportation:** Two studies have been started, including Ramona Avenue and “Cars on K.” Once additional resources have been identified to conduct other studies and when staff availability warrants, additional progress will be made. (GPIP 4-6-12)
- **Bikeway Master Plan:** Updated Bikeway Master Plan maps have been prepared and will be brought to City Council in early 2011. (GPIP 4-6-18)
- **Transit Service Gap Study:** DOT Planning and Policy division has begun a citywide streetcar study to being planning for future services. (GPIP 4-6-20)
- **Parking Study:** DOT Parking Services is continuing to implement recommendations of the completed Central City Parking Study. DOT has assisted with establishing a carsharing program in the City. (GPIP 4-6-28)
- **Impact Fee Program:** DOT Planning and Policy division staff have completed the recommendations for the citywide transportation development impact fee program but adoption and implementation of

the program is on indefinite hold due to the City's budget crisis and potentially chilling effects on development. (GPIP 4-6-32)

- **Bike Parking Devices:** Installation is underway for an additional 150 converted parking meter poles into bike parking devices. Completion is expected by spring 2011.
- **Bike Parking in the ROW:** Installation is underway for a new public bike parking program for the public right-of-way. Additional funds for new facilities will be provided by funds from the Sacramento Metropolitan Air Quality Management District.
- **Two Way Street Conversions:** Completed conversion of J Street between Alhambra and 30th Streets to two-way operation, making the street more bicycle and pedestrian friendly.
- **Sidewalk Grinding:** City Council adopted a sidewalk grinding option policy for sidewalk maintenance.
- **Regional Green Building Task Force:** Using \$100,000 from EECBG funding, the City coordinated with Sacramento County to establish a joint City/County task force to guide phase two of the Green Building Program. The 34-member Green Building Task Force (GBTFF) began meeting in April 2010, and have held 13 meetings including three larger public-stakeholder meetings. The GBTFF process wrapped-up in mid-November and resulted in a series of recommendations, policies and strategies for better coordination among existing programs, requirements and incentives. The final report with GBTFF recommendations will be completed by the end of 2010. The report will go before City Council on February 8, 2011 and the Council's recommendation will become part of the Climate Action Plan as candidate measures or be further developed and brought back to City Council by summer 2011 for approval of any associated ordinances/resolutions. (GPIP 4-2-10, GPIP 4-2-11, and GPIP 4-2-16)

2011 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.

2011 Actions:

- **Regional Green Building Task Force:** A final report with GBTFF recommendations will be completed by the end of 2010. This report, along with staff's recommendation of next steps for implementation will be presented to the City Council in early 2011. Staff will utilize these recommendations developed by the GBTFF to further craft corresponding policies, ordinances, guidelines, or other programs as appropriate during the latter half of 2011 for final adoption. (GPIP 4-2-10, GPIP 4-2-11, and GPIP 4-2-16)
- **Zoning Code Amendments:** Pending available resources, staff will develop zoning code amendments to establish additional standards for sustainable building and site design, e.g. building and site design to minimize heat gain. (GPIP 4-2-9, GPIP 4-2-10, GPIP 4-2-11, and GPIP 4-2-16)

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

2011 Actions:

- **Infill Designations:** CDD staff is actively pursuing local, state, and federal grant funding to fund a comprehensive update to our zoning code in order to create designations to support urban infill. Earliest start date will be mid-2011. (GPIP 4-1-10, GPIP 4-1-11, GPIP 4-1-13, and GPIP 4-2-5)

- **Livability Index:** Include the Livability Index in the 2030 General Plan Annual Report. Many of the Livability indicators are common indicators used for sustainability (e.g. energy, waste, greenhouse gas emissions, VMT, mode split, infill development, equity, etc.). (GPIP 4-1-6 and GPIP 4-1-7)
- **Multi-Family Principles:** Pending the availability of resources, adopt new Multi-Family Principles that encourage SHRA funded, new construction multi-family projects to exceed Title 24 standards.
- **LOS Standards:** Work is underway to update City's Traffic Impact Analysis guidelines to reflect the Level of Service (LOS) standards in the 2030 General Plan. (GPIP 4-6-2)
- **Major Barriers to Connectivity Study:** A draft document studying the crossings for the Sacramento River is expected to be completed in 2011. Staff is also seeking funding for a similar study for the American River. (GPIP 4-6-9)
- **Update TSM Program:** Staff has prepared a draft ordinance amendment to the Transportation Systems Management (TSM) program consistent with the policies of the General Plan. Adoption is expected by 2011. (GPIP 4-6-11)
- **Bicycle Support Facilities Ordinance:** New bike ordinance work has been initiated to develop and adopt an ordinance for bicycle support facilities (e.g., bicycle racks, personal lockers, showers, and other support facilities), however, staff reductions has put a temporary hold on this process The new ordinance for bike parking will be brought to the City Council by mid-2011 for adoption. (GPIP 4-6-27)
- **Incentives for Private Transportation:** As additional resources are identified, conduct additional studies 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 4-6-12)
- **NEV Study:** Current codes already allow Neighborhood Electric Vehicles (NEVs) to use streets with posted speed limits of 35mph or lower. DOT Planning and Policy staff will identify potential gaps that could hamper a coordinated NEV network. (GPIP 4-6-13)
- **Pedestrian Promotional Package:** Internal staff meetings have been held to determine the scope of working with walking advocates, such as Walk Sacramento, to develop a comprehensive educational and promotional package for pedestrians. Staff is expecting to roll out a promotional package in spring 2011. (GPIP 4-6-16)
- **Bikeway Master Plan:** Continue to review and update the Bikeway Master Plan in 2011. (GPIP 4-6-18)
- **Transit Service Gap Study:** Staff will continue to conduct a study to identify gaps in transit service provided in the city and strategies to fill them. (GPIP 4-6-20)
- **Complete Street Study:** DOT Planning and Policy division will investigate methods of evaluating the existing street network using information from the Bicycle Master Plan and the Pedestrian Master Plan to develop a comprehensive map of future needs. (GPIP 4-6-24)
- **Parking Study:** Staff will continue to study current parking requirements in the Central City and urban centers to evaluate options for dedicated parking spaces for car-sharing and incentives. (GPIP 4-6-28)

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

2011 Actions:

- **Bike Parking in the ROW:** Expansion of the new public bike parking program using higher capacity bike racks is anticipated.

Implementation Plan for 2013

- 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 the 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 pedestrian ways. (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.
-

Implementation Plan for 2030 (cont.)

- 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)



Focus Area 7. Parks, Open Space, and Habitat Conservation

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

2010 Accomplishments

- **2030 General Plan Policies:** Meeting the policy goals progresses primarily with new private development. Curtis Park Village infill project was approved and will provide new park land. Additionally, new park development was funded and should await adequate operation and maintenance funding.
- **Pesticide-Free Park Maintenance:** The City’s first pesticide-free park maintenance pilot project in Fremont Park is proving to be successful. Staff will be expanding the pesticide-free park maintenance project to Regency Park Dog Park. Adopt a Park is a necessary complement to City maintenance services for this to continue to be successful.
- **Parks Master Plan Update:** Department of Parks and Recreation continues to have the only City department Sustainability Plan. Energy efficiency improvements were made at George Sim, Belle Cooledge and Oak Park Community Centers.
- **Tree Planting:** Department of Parks and Recreation planted 340 new trees in parks.

2011 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.*

- **2011 Actions:**
- **2030 General Plan Goals:** 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) primarily through the development process, as funds allow.
- **Parks and Recreation Sustainability Plan:** Park Development Standards under revision to implement “leading edge” sustainable design. Department of Parks and Recreation coordinating with Urban Forest Services and Sacramento Tree Foundation to pursue grant funding to add trees to parks. City parks and recreation facilities are progressively undergoing retrofits/upgrades for solar, energy efficiency, and water conservation as funding permits.

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

2011 Actions:

- **Public Green Space Acquisition Strategy:** The River District Specific Plan is scheduled for adoption in early 2011. Significant new resources for additional land acquisition await better

economic times. Regional Parks and Recreation System Financing Strategy has started and is scheduled to be completed in 2011.

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

2011 Actions:

- **4 Pilot Project Sites:** Develop plans for pilot project sites. Incorporate “lessons learned” into City Parks and Recreation Facility Design and Development Standards. In 2011, pilot project sites include Burberry and Robla Parks.
- **Map of Natural Areas:** Complete detailed mapping of all natural areas in the City park system, including those with formal protection status, by June 2011.

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.

2011 Actions:

- **Demonstration Landscapes:** Robla Park and Burberry Park ornamental landscape projects are rescheduled to 2011 due to revised priorities.
- **Audubon Certification:** Complete full certification of William Land Golf Course as Audubon Cooperative Sanctuaries by Audubon International.

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

2011 Actions:

- **New Trees:** Continue tree planting and replacement programs with a goal of adding 1,000 new trees annually

Implementation Plan for 2013

- 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 parks 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.



Focus Area 8 – Water Resources and Flood Protection

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

2010 Accomplishments

- **Stormwater Discharge Permit:** The Stormwater Quality Improvement Program (SQIP) was approved by the State on January 29, 2010. The Annual Work Plan was submitted on May 1, 2010. The Annual Report was submitted on October 1, 2010. (GPIP 4-7-17)
- **Class 1 Spills:** Zero class 1 spills in the 2010 calendar year.
- **Update Sacramento River Watershed Sanitary Survey:** The Sacramento River Watershed Sanitary Survey 2010 was completed and provided to partner agencies on December 2, 2010. The report was presented to California Department of Public Health on December 15, 2010.
- **Voluntary Spill Notification Program:** Incorporated Sacramento County Department of Water Resources and East Bay Municipal Utilities District (EBMUD) into the program, including the geographical area downstream of the City's Sacramento River Water Treatment Plant (WTP) intake to the new Freeport intake. Continued annual confirmation of participation by upstream agencies providing notifications of hazardous material or wastewater spills. Staff held a coordination meeting with local emergency management agencies, resulting in ideas for future networking with additional fire response agencies in the Sacramento metropolitan area. Continued operator training program, including dry runs, joint table top exercise with Sacramento River partners, obtained operator feedback, and provided updated and enhanced resources for City's WTP operators.
- **Source Water Protection:** 2010 Highlights include (GPIP 4-7-17):
 - Received the American Water Works Association CA/NV Section's Exemplary Source Water Protection award
 - Provided stakeholder participation in the Rice Pesticides Program which encouraged increased industry efforts, resulting in improvements in water quality in the Sacramento River and various agricultural drains for the herbicide thiobencarb.
 - Commented to the California Department of Pesticides Regulation on the draft surface water regulatory concepts, Central Valley Water Board on the Draft Program EIR for the Long Term Irrigated Lands Program, and US EPA Office of Pesticides on draft regulations on inert ingredients.
 - Prepared a Technical Memorandum on Industrial Dischargers to the Sacramento and Lower American Rivers, which was used in the Sacramento River Watershed Sanitary Survey 2010 Update to help evaluate water quality conditions in the watershed that provides the City's Sacramento River water supply. The memo is also used by the ongoing Lower American River and Sacramento River Source Water Protection Programs to identify follow-up tracking of the highest priority industrial discharges identified through the work summarized in this memo.
 - Tracked the Aerojet Superfund site regarding discharges to American River tributaries, including reviewing National Pollutant Discharge Elimination System (NPDES) discharge permits and USEPA plans for increasing discharges, coordination with Aerojet on information on GET discharge permit exceedences and networking between Lower American River utilities.
 - Tracked the CA Department of Water Resources 2009 Water Plan Update – Climate Change Activities –

regarding potential impacts to source water quality.

- Prepared updates on various programs that protect water quality from river recreational activities.

- **Natomas Levee Improvement Program (NLIP):** Completed bidding and construction of Phases 3A and 3B and bid Phase 4A..
- **Water Conservation and Protection:** Contractors have installed approximately 19,400 meters (stimulus). Approximately 200 retrofit and installs have been completed.
- **Residential Assistance (Survey/ Audit) with Meter Install:** Provided 607 Water Wise House Calls (WWHC) audits in FY10. Began Automated Meter Infrastructure (AMI) program – and approximately 10% allowed WWHC's.
- **Information Packet with Meter Install:** Provided approximately 8000 information packets with each water meter installation.
- **Residential Assistance with Toilet and Washer Rebate Program:** Provided 1486 toilet rebates. Staff is progressing on completing 10% or 150 for Water Wise House Call/audit.
- **Residential Assistance Ambassadors:** Developed a training program to train Ambassadors (volunteers) to provide door-to-door residential assistance (survey) to targeted areas (older neighborhoods with large numbers of remodels and high water waste complaints (100 surveys). Training launched in June 2010.
- **Park Water Use:** Performed 120 Park water use analyses. Staff is currently meeting with Department of Parks and Recreation staff to provide final report.
- **Top Water User Surveys:** Identification of top 25 water users for indoor survey (audit) is complete. A draft letter is in progress for finalization.
- **Water-Efficient Demonstration Landscape Design:** Completed Sacramento Water Wise Demonstration Garden at the Water Conservation Office.
- **Fleet Bioremediating:** Fleet Management has converted to new parts washers which use a natural process of bioremediation. Bioremediation is the process by which microbes turn harmful contaminants into non-toxic substances, which eliminates liquid hazardous waste streams, increases employee safety, and reduces costs of hazardous waste removal.
- **Comprehensive Floodplain Management Plan:** The CFMP is currently being reviewed internally. The effort was sidetracked by the Natomas Corrective Action Plan (CAP). (GPIP 4-11-8)

2011 Implementation Plan

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

2011 Actions:

- **Stormwater Discharge Permit:** Continue implementation of the City's National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit. (GPIP 4-7-17)
- **Voluntary Spill Notification Program:** Continue to provide ongoing support for the voluntary spill notification program for the City's water treatment plants, including participation and leadership in water utility partnerships.
- **Source Water Protection:** 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.

2011 Actions:

- **Natomas Levee Improvement Program (NLIP):** Construct Phase 4A of the project, which is along the Sacramento River between Riego Road and Elverta Road (northwest of Sacramento International Airport).
- **Union House Creek:** Continue work on value engineering and complete the Local Re-evaluation Report (LRR) for Union House Creek between Franklin and Center. LRR is pending and due in 2012.
- **East Morrison Creek:** Complete design and start construction on East Morrison Creek Levee between Union Pacific rail line and Union House Creek.

Long-Term Target: Flood Risk Reduction

2011 Actions:

- **CRS Level 4:** Achieve Community Rating System (CRS) Level 4 designation by December 2011. Initial goal of December 2010 was sidetracked by Natomas CAP.
- **Multi-Hazard Mitigation Plan:** Completion of the County-wide Multi-Hazard Mitigation Plan is ongoing. Delayed as a result of grant delays. Should be completed by mid-2011.

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

2011 Actions:

- **Sacramento Water Conservation Advisory Group (SWCAG):** Convene a multi-stakeholder Water Conservation Advisory Group to serve in an advisory capacity to the City regarding water conservation programs and policies, and strategic planning. The SWCAG will (1) encourage effective water conservation policy and water use efficiency, (2) advance public education and awareness, and (3) build collaborative partnerships.
- **Urban Water Management Plan:** Revise Urban Water Management Plan per State requirements by July 2011.
- **Water Conservation and Protection:** Continue to install additional water meters in 2011. Department of Utilities anticipates having contracts awarded to place approximately 4300 meters in FY2010/11.
- **Water Usage in Open Spaces:** Utilities and Parks and Recreation Departments will continue to work on grant opportunities to save water usage in open spaces. Additional grant opportunities will be pursued.
- **Integrated Regional Water Management Plan Update:** Currently being administered by Regional Waste Authority. Staff will continue to convene a planning forum to get ideas for planning and projects to include in the Integrated Regional Water Management Plan. Apply for Proposition 84 and other grant funding for both planning and implementation as staff has identified projects for grant funding. (GPIP 4-7-9 and GPIP 4-7-10)
- **Residential Assistance (Survey/ Audit) with Meter Install:** Provide 420 water wise house calls with meter installation if staffing resources become available.
- **Information Packet with Meter Install:** Continue to provide information packet with each water meter installation.

- **Residential Assistance with Toilet and Washer Rebate Program:** Continue to provide residential assistance (survey/ audit) with toilet and washer rebate program (250 surveys).
- **Survey High Water Users:** Provide 150 surveys to homeowners' associations (HOAs) and elder care facilities with high water use.
- **Residential Assistance Ambassadors:** Continue to train Ambassadors (volunteers) to provide door-to-door residential assistance (survey) to targeted areas (older neighborhoods with large numbers of remodels and high water waste complaints (100 surveys).
- **Park Water Use:** Staff will continue to perform 120 Park water use analyses.
- **Top Water User Surveys:** Continue to identify and target top 25 water users for indoor survey (audit) excluding production facilities.
- **Water-Efficient Demonstration Landscape Design:** Will provide open house Water Wise Demonstration Garden to public in Spring 2011.

Long Term Target: Continue to reduce Sanitary Sewer Overflows

2011 Actions:

- **SSOs:** Reduce sanitary sewer overflows (SSOs) from current level of 13.5/100 miles of pipe per year.
- **Class 1 Spills:** Allow zero Class 1 spills.

Implementation Plan for 2013

- 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.

Implementation Plan for 2030 (cont.)

- Work with SAFCA to achieve continuous levee improvements.
- Continue to reduce SSOs by 3 percent annually measured from 2003 baseline.
- Finish meter retrofit project.



Focus Area 9. Public Involvement and Personal Responsibility

Goals: To 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, to promote innovative programs to educate and capture the public's imagination of global change, to commit to leading by example and foster behavioral change throughout the City, and to promote an ethic of conservation and stewardship.

2010 Accomplishments

- **Clean Tech Showcase:** Partnered with SARTA to host the Clean Tech Showcase at Sacramento State University on October 16, 2009. Over 800 people attended the day-long event.
- **Clean Tech Zone Summit:** The City hosted the Clean Tech Zone Summit at Sacramento State University Alumni Center to feature the new clean tech businesses in the Power Inn Alliance. Senator Pro Tem Darrell Steinberg presented the vision for the Clean Tech Zone and US Congresswoman Doris Matsui sent a videotaped presentation.
- **2010 Green California Summit and Expo:** City staff from various departments attended the 2010 Green California Summit and Exposition.
- **Earth Week:** City staff orchestrated and participated in the Earth Week celebration in April 2010.
- **Demonstration Gardens:** All eight community gardens, including three new ones, hold a variety of information classes on food gardening and composting. City supports grant proposal by Sacramento Tree Foundation for an Urban Ecology Center at North Natomas Regional Park.
- **Locally Produced Food:** Neighborhoods without gardens are holding "crop swaps" (Oak Park, Colonial Manor, and Midtown currently). Sacramento Unified School District has created a health food task force to create more school gardens and salad bars for healthier eating/living.

2011 Implementation Plan

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

2011 Actions:

- **Sustainability Website:** The City will make improvements to the Citywide sustainability web site to incorporate the City's sustainability program information in one location.

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

2011 Action:

- **Energy Efficiency Partnerships:** 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.

2011 Actions:

- **Sustainability Civic Engagement:** 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. Work with community partners to ensure that all possible segments of the community are included in the City's sustainability efforts and outreach.
- **SAC Public Outreach and Education:** Using a portion of the Solar America Cities grant, the City will provide public outreach and education about solar energy, including through school programming.

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

2011 Actions:

- **Sustainability Promotion:** Promote existing programs and the City's efforts, including the carbon footprint rating system, which will be selected and promoted. Collaborate with partners to prioritize potential sustainability actions based on potential impact and feasibility. Develop outreach materials promoting the most important ones.

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

2011 Actions:

- **Green California Summit:** Participate in the 2011 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.
- **Earth Week:** 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.

2011 Actions:

- **Demonstration Gardens:** Continue seeking funding and other resources for demonstration gardens in each Council District. Federal legislation to provide added funding for community gardens is being introduced.
- **Locally Produced Food:** Continue to 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 2013

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.