



Agenda Item #: _____

Staff Report

City of Manhattan Beach

TO: Honorable Mayor Powell and Members of the City Council

THROUGH: David N. Carmany, City Manager

FROM: Jim Arndt, Public Works Director
Sona Kalapura, Environmental Programs Manager

DATE: June 19, 2012

SUBJECT: Status Report from the Environmental Task Force Regarding Accomplishments and Future Environmental Programs

RECOMMENDATION:

Staff recommends that the City Council receive and file the Status Report from the Environmental Task Force Regarding Accomplishments and Future Environmental Programs.

FISCAL IMPLICATION:

There is no fiscal implication associated with the recommended action. Funds to support the activities listed have been provided for in the current year budget, and in the fiscal year 2012-2013 budget.

BACKGROUND:

I. Environmental Task Force

The mission of the Environmental Task Force is: "To unite the community in a comprehensive effort to promote sustainable living in the City of Manhattan Beach." To meet this mission the Environmental Task Force developed several programs to meet the goals identified in the Environmental Work Plan adopted by City Council on January 18, 2011. The Environmental Task Force also developed overall targets and outreach programs in the areas of Energy Efficiency and Renewable Energy, and Water Conservation and Sustainable Landscaping, to meet these goals.

Commitment to Reduce Greenhouse Gas Emissions

The City is making an effort to reduce greenhouse gas emissions, and has endorsed the U.S. Mayors Climate Protection Agreement, committing to reduce greenhouse gas emissions within municipal operations and throughout the community 7% below 1990 levels by 2012. This target has been updated to coincide with statewide goals to reduce community-wide greenhouse gas emissions 15% below 2005 levels. Using 2007 community-wide data, the City needs to reduce emissions by 44,128 metric tons to reach the goal of 287,893 metric tons of CO₂ equivalent, by 2020. This figure includes the City's (public and private) CO₂ emissions from the use of: industrial fuel; natural gas; transportation fuel; electricity; and solid waste.

The City is well on its way to meeting these emissions reductions goals. Based on a recent analysis completed by the South Bay Environmental Services Center, the City has already reduced electricity consumption approximately 3% below 2005 levels, from 99,091 to 95,981 metric tons of CO2 equivalent in 2010. Additional data is being obtained to calculate the City's overall emissions levels from the community's fuel, gas and electricity usage, and is expected by Fall 2012.

Water Conservation Goals

The City enacted a water conservation ordinance to help the community adhere to "Stage 2" drought restrictions enacted by the Metropolitan Water District to meet California's drought. As last winter's rain season provided an abundance of water and snow, the Governor officially declared an end to the drought in April 2011. Accordingly, the City's Stage 2 Drought Restrictions, limiting landscape watering to two days a week, were lifted, but the Permanent Water Conservation Requirements in the ordinance still remain active. Through implementation of the water conservation ordinance, the 20% target was achieved. However, with the lifting of the drought restrictions the City has seen a drop of approximately 5% in community-wide water conservation. The City is following the statewide goal (SBX7-7) to reduce per capita water consumption 20% by 2020, and is implementing water conservation measures to meet this goal, and it is important for the community to do the same. The water conservation goal represents a water usage of 5,397 acre-feet by 2020. Water production for June 2012 is projected at 5,612 acre feet, so the community is very close to meeting the target goal.

II. 2012-2013 Environmental Programs

The City of Manhattan Beach prides itself on being a pioneer and leader in green and sustainable living. Since 2008 the City has had a strong presence in the region's environmental development, and has adopted programs and policies that set the example for neighboring communities to follow. To maintain the significant achievements in the environmental arena, and continue growing sustainably in the future, staff recommends the attached Environmental Action Plan for City Council's consideration. The Environmental Action Plan was provided to City Council as part of the budget discussions on June 5th, and will serve as a guiding document to assist the City in meeting its environmental sustainability goals.

DISCUSSION:

I. Environmental Task Force

In an effort to further the City's environmental commitment, the 2011 Environmental Task Force developed recommendations to assist the community in efforts to conserve energy and reduce water consumption. The Environmental Task Force presented several programs to City Council, which were approved on October 4, 2011. An update on the following programs was provided to City Council on February 7, 2012:

1. "Watt Watcher" Energy Conservation Contest
2. Green Business Challenge
3. Solar Display at Metlox
4. Landscape Sustainability Audit
5. Community Mulch Pilot Program
6. Post Office Demonstration Project

Since then, further progress has been made in each of the approved program areas. Through discussions with the Environmental Task Force and community members, recommendations were developed on programs to continue in the future.

Status on Programs to Promote Energy Efficiency and Renewable Energy

The Environmental Task Force working group on Energy Efficiency and Renewable Energy developed the following three proposals to reduce community-wide greenhouse gas emissions.

1. The **“Watt Watcher” Energy Conservation Contest** is a residential program with a goal of educating and engaging the community in the environmental and economic benefits of reducing energy consumption. The Environmental Task Force planned to register 100 Manhattan Beach households in an effort to implement simple measures to reduce residential energy consumption, and educate the public about reducing greenhouse gas emissions. The program was very successful with 150 households registered to participate, and sponsorships from several local partners to incentivize the community in their efforts to save energy. Feedback on the program was very positive, and residents were pleased with how much they and their families learned about energy conservation. Several homeowners actually looked forward to receiving their Edison bills to see how much electricity they were able to reduce. The City also recently received an honorable mention award by the U.S. Conference of Mayors for this program, and the impacts on promoting awareness and protecting the climate.

While participation in the program was positive, and registrations were encouraged through partnerships with the schools, only 10% of the participants submitted their final results. The responses received indicated an energy savings per household ranging from an average 2% to nearly 40% reduction in electricity consumption. In the case of homeowners with solar energy, electricity consumption reductions were significant, over 60%. An additional benefit of the program was the increased awareness of participants in their overall energy and water usage. Several contest participants made use of other Environmental Task Force programs, including the free mulch and landscape checkup programs.

Next Steps

The Watt Watcher contest is designed as a one-time program. If the City Council wishes to continue the program, it can be run by City staff, and/or coordinated with regional partners and potentially with other volunteer groups to help gather program participants and monitor program results. Should this type of program move forward in the future, the Environmental Task Force suggests securing a commitment from Edison to participate and support outreach of the program, provide resources and educational materials to residents, etc. Edison has expressed interest in supporting the City’s future environmental efforts.

2. The **Green Business Challenge** is a program to recognize Manhattan Beach businesses that are actively trying to reduce their environmental impact. The program aims to educate businesses that want to understand the economic and environmental benefits of conserving energy and water, reducing waste, and implementing sustainable business practices. As part of the City’s solid waste contract, Waste Management will continue to conduct the certification and recognition program for businesses in the community. Waste Management utilized the green business audit developed by the Environmental Task Force to customize the program as part of the California Green Business Program Network, which is overseen by the Department of Toxic Substances.

Next Steps

The majority of Manhattan Beach businesses fit into two categories: office/retail and restaurants. Hotels will be added to the program in the future. Waste Management plans to register 20 businesses per year. To date five certifications have been completed, and these businesses were recognized at the Earth Day festival on April 28, 2012 at Polliwog Park. For the program to be successful, more outreach and advertisement to the business community needs to take place. Support from the Chamber of Commerce and business districts are needed in order to promote the free green business certification to members.

3. The **Solar Display at Metlox** is a demonstration project designed to install bi-facial solar panels and a solar-powered educational display in a public area to increase awareness on the benefits of renewable energy. The goals of the program are to introduce cutting edge renewable energy technology to the community, and to display educational content on the benefits of renewable energy and energy efficiency. The program was recently recognized the U.S. Conference of Mayors for its potential to educate the public and protect the climate.

Next Steps

City Council approved the installation of solar photovoltaic system in the area above the escalators leading to the Metlox parking garage, and the site design for the project has been completed. A Request for Proposals was released in April 2012, but was removed due to specification irregularities. The donations that were collected from local businesses to fund the project have been returned to the donors. Should the project move forward, donations or other funding will need to be secured.

Status on Programs to Promote Reduction in Community-wide Water Consumption

The Environmental Task Force working group on Water Conservation and Sustainable Landscape developed three proposals to reduce community-wide water consumption.

1. The **Landscape Sustainability Audit** is a program to assist residents in identifying the aspects of their landscaped property that can be changed to conserve water, reduce runoff, and maintain landscapes that are California-friendly and climate appropriate. The Environmental Task Force developed a landscape sustainability checklist and identified four landscape professionals to perform the audits with each interested homeowner. The goal of the audit is to provide the resident with information pertaining to California-friendly landscaping, including reducing turf to 20% of overall landscaped areas; water-efficient irrigation systems and rain sensors; rainwater retention and harvesting; composting and growing an organic vegetable garden, etc.

The Landscape Sustainability Audit is available on the City's website for interested residents to review. The program is self-initiated, and residents may go through the audit on their own, or setup an appointment with a landscaper contractor through the information provided on the website. Several audits have been conducted to date, and two audit feedback forms have been submitted by residents that completed the audit with a landscape contractor. Several residents have expressed interest in the program, and are expected to go through the audit in the coming months as warmer weather leads to increased irrigation causing higher water bills. Staff expects interest in the program to be generated through the recently completed Post Office demonstration garden.

Next Steps

To continue promoting water conservation, the City is participating in new programs from West Basin Municipal Water District that provide resources to the community. West Basin is launching a landscape irrigation audit program offering high-water users a free irrigation inspection and installation of water-efficient nozzles for those that qualify. West Basin has agreed to partner with the City in offering the landscape audit to interested homeowners in an effort to provide a comprehensive landscape sustainability program to the residents. West Basin has also offered to seek turf-removal incentives for the City for residents that go through the landscape audit program and decide to convert their turf lawns into CA-friendly gardens.

2. The **Community Mulch Pilot** provided the community with easy access to free, organic mulch for yards and community projects. Organic mulch is an essential component of a water-wise, sustainable garden and helps reduce or eliminate the need for pesticides by promoting soil health, maintaining soil moisture, and assisting in retention of water on-site. The Environmental Task Force contacted a list of local tree trimmers who have agreed to provide safe, organic mulch to the City at no cost. Twelve loads of mulch have been delivered to date, equal to 120 cubic yards of mulch. The program has been an overwhelming success, and several visitors a day take various quantities of mulch. On two occasions the whole bin has been emptied in a matter of five working days.

Next Steps

The program is a simple one for the City to maintain, and the location at the Public Works Yard provides for constant monitoring of the mulch pile. The program has received positive feedback from the community, and is recommended to continue. The only real issue is to insure delivered loads are of decent quality mulch. Current tree trimming operations are resulting in high quality mulch, and staff will be in contact with the tree trimming companies to ensure future deliveries are of high quality.

3. The **Post Office Demonstration Garden** is an excellent example of community partnership between the Environmental Task Force and the Leadership Manhattan Beach 2012 class. The Leadership class completed the installation of the demonstration garden on the municipal property in front of the Post Office. The new garden, located at 425 15th Street in Manhattan Beach, is composed of water-conserving, sustainable landscape with a water-efficient drip irrigation system, mulch applied between shrubs and trees, and walking paths made up of decomposed granite. The previous lawn area measured 4,381 square feet and consumed 2,274 gallons of water per week. The current irrigation system has an estimated 60% savings in water consumption for the site. The project was received very well by the community. The City is now working on a landscape project to create another demonstration garden with West Basin at the Strand gardens located near the Pier.

II. Review of Environmental Action Plan

As the City of Manhattan Beach designs its future environmental efforts, several program possibilities are available to assist the City in moving towards sustainability. Through discussions with the Environmental Task Force and community members, recommendations were developed on programs to continue in the future. Keeping the primary goals to reduce community-wide greenhouse gas emissions and water consumption in mind, staff has developed several program recommendations in the attached Environmental Action Plan that was included in the budget discussion by City Council on June 5, 2012 (please refer to Attachment A).

The Environmental Action Plan provides a matrix of program details, including the anticipated cost of the programs, benefits, and staff time of the Environmental Programs Manager (EPM). The programs in the Environmental Action Plan are divided into the following five categories:

1. Energy Efficiency and Renewable Energy;
2. Water Conservation;
3. Pollution Prevention and Waste Reduction;
4. Promoting Community and Individual Action; and
5. Additional Program Tasks.

1. Energy Efficiency and Renewable Energy

The Energy Efficiency and Renewable Energy category includes program options to promote the use of electric vehicles, continue the recognition of sustainable businesses in the community, further household participation in energy conservation, and make energy efficiency improvements to municipal facilities.

2. Water Conservation

The programs in the Water Conservation category focus on the development of a Landscape Master Plan, the continuation of the Landscape Audit program, increased outreach on water conservation education, and the continuation of the mulch program.

3. Pollution Prevention and Waste Reduction

The Pollution Prevention and Waste Reduction category builds on the City's efforts to reduce waste and environmental pollutants in the community. This category includes the continuance of outreach on the plastic bag ordinance, and the potential development of a polystyrene ban, as well as a comprehensive smoking ordinance.

4. Promoting Community and Individual Action

This category emphasizes the community's input in developing and maintaining successful environmental programs. A significant amount of outreach and public education is needed to implement these programs and staff resources are allocated to continuing the speaker series program (including educational workshops), and public events focused on sustainability events (such as Earth Day, Moving Planet, Solar Homes Tours, etc.).

5. Additional Program Tasks

Several administrative and program management tasks also comprise staff time, and are accounted for in this category. Included in these tasks are the application for, and management of, grants and award recognition programs. The City is the recipient of several environmental grants and awards, and staff will continue to seek these opportunities.

CONCLUSION:

The Environmental Task Force has developed a comprehensive program to promote sustainable living to the community. The programs have been well received by the community, and provided a good learning experience for the Environmental Task Force members. The Environmental Action Plan takes the success of these programs, and lays out a framework for moving forward.

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Should City Council require any further information on any of the environmental programs, staff can provide an update at a future meeting. At this time, staff recommends that City Council receive and file the Status Report from the Environmental Task Force Regarding Accomplishments and Future Environmental Programs.

Attachment:

A. Environmental Action Plan

cc: Juan Price, Maintenance Superintendent
Raul Saenz, Utilities Manager

City of Manhattan Beach 2012-2013: Environmental Action Plan

The Environmental Action Plan is developed utilizing previous environmental initiatives and work plans adopted by City Council, as well as comments and input from the City’s Environmental Task Force and Council co-chairs. The Environmental Action Plan will help the City in meeting its commitments under the Beacon Award and Energy Leader programs, as well as in other efforts, such as the CA Green Communities Program and Earth Hour City Challenge. Further, the Environmental Action Plan will serve as a guiding document to assist the City in meeting its environmental sustainability goals.

The Key Practice Areas outlined in the Environmental Action Plan below are prioritized according to those that are perceived to be of most importance to the community, while assisting the city in meeting the sustainability goals outlined below.

Commitment to Reduce Greenhouse Gas Emissions

The City is making an effort to reduce greenhouse gas emissions, and has endorsed the U.S. Mayors Climate Protection Agreement, and adopted a greenhouse gas emissions reduction target to coincide with statewide goals to reduce community-wide greenhouse gas emissions 15% below 2005 levels (equivalent to 287,893 metric tons of CO₂) by 2020. The City is well on its way to meeting these emissions reductions goals. Based on a recent analysis completed by the South Bay Environmental Services Center, the City has already reduced electricity consumption approximately 3% below 2005 levels. Additional data is being calculated to provide the City’s overall emissions levels from the community’s fuel, gas and electricity usage.

Water Conservation Goals

The City is following the statewide goal (SBX7-7) to reduce per capita water consumption 20% by 2020. The City enacted a water conservation ordinance to help the community meet California’s drought restrictions, but the City’s Stage 2 Drought Restrictions were lifted in 2011 as the drought ended. Though, the Permanent Water Conservation Requirements in the ordinance still remain active, the City has seen a drop of approximately 5% in community-wide water conservation. The water conservation goal represents a water usage of 5,397 acre-feet by 2020, and current water production is at 5,622 acre feet. To meet statewide and City water conservation goals, it is important for the City to provide tools and resources for the community to implement water conservation measures.

The matrix below details the anticipated cost, benefit, and staff time of the Environmental Programs Manager (EPM), as well as mentions any other staff or department involvement in each project.

2012-2013 Environmental Action Plan: Key Practice Areas

Environmental Measure	Current/Historic Involvement	Cost and Annual Staff Hours	Benefits	Comments
1. Energy Efficiency and Renewable Energy				
<p>A. <u>Public Parking for Electric Vehicles</u> Study the option for public use of EV charging stations and provide parking preferences in public lots, garages or on-street spaces for electric vehicle users</p>	<p>The City utilized EV charging stations at City Hall for a 1-year pilot program, the infrastructure remains in place and is ready for new charging systems to be installed;</p> <p>Recommended by Environmental Task Force to incentivize use of EV, including neighborhood EVs for small trips;</p> <p>South Bay COG is preparing a study on ideal location for EV charging stations in the region</p>	<p>Cost to purchase and install charging stations; potential parking revenue</p> <p>EPM Staff time: 200 hours</p>	<p>Efforts to incentivize the use of alternative vehicles will reduce the community’s GHG emissions, and will assist the City in meeting its climate protection goals</p>	<p><u>Completion:</u> December 2012</p> <p>Other staff involvement: Superintendent; Facilities Supervisor; Fleet Manager</p>
<p>B. <u>Green Business Recognition Program</u> Promote energy conservation by businesses and continue to recognize sustainable business practices through the CA Green Business network; Create a green business guide to recognize Manhattan Beach</p>	<p>Approved in 2011 Environmental Work Plan and through Environmental Task Force; 2012 Initiated Green Business Recognition program with Waste Management to reward sustainable behavior; Green Business</p>	<p>\$2,000: Advertising, promotional materials;</p> <p>Businesses are already encouraged to conduct initial energy audits through the Green Business Recognition program</p> <p>EPM Staff time: 350 hours</p>	<p>Participation by the commercial sector is important in meeting community-wide climate protection goals; Creating a Green Business Guide will incentivize businesses to participate in the recognition program, encourage others to adopt sustainability measures, and provide a resource to residents looking to support sustainable</p>	<p><u>Completion:</u> Ongoing</p>

Environmental Measure	Current/Historic Involvement	Cost and Annual Staff Hours	Benefits	Comments
businesses that implement sustainable practices and/or offer eco-friendly products and services	Guide can be posted on City website		businesses	
<p>C. <u>Community-based Home Energy Audits</u> Partner with local utilities to develop and implement home-based energy audits and retrofit programs; roll-out of smart-metering programs; other utility resources to conserve energy</p>	Edison has expressed interest in developing this program following on the success of the Watt Watcher Energy Contest	<p>\$1,200: advertising EPM Staff time: 200 hours</p>	Program will provide informational material for residents about climate change and opportunities for individual action to reduce greenhouse gas emissions, helping the City meet its overall goals	<u>Completion:</u> April 2013
<p>D. <u>Energy Efficiency Improvements for City Facilities</u> Implement an Energy Management System to integrate and track city facilities usage; Develop an implementation schedule to implement no cost/low cost opportunities and capital intensive energy retrofits</p>	Measure approved in 2011 Environmental Work Plan; No implementation schedule in place; Completed Level III Energy Audit in 2009; some low-cost options implemented (e.g. lighting); Several large facility improvements approved in 5-year CIP beginning 2012; signed agreement with LA County and South Bay COG to participate in EEMIS tracking program 2011	<p>Several facility improvements included in the City’s CIP EPM Staff time: 100 hours</p>	Implementing energy efficiency improvements results in reduced consumption leading to lowered utility bills and higher Edison rebate; System will allow for easy monitoring of facility energy usage, and track reductions in energy consumption due to implementation of energy efficiency measures	<p><u>Completion:</u> April 2013 Other Staff involvement: City Engineer; Superintendent; Facilities Supervisor</p>

Environmental Measure	Current/Historic Involvement	Cost and Annual Staff Hours	Benefits	Comments
2. Water Conservation				
<p>A. <u>Landscape Master Plan</u> Manage parks, open space, recreational facilities, and other natural areas to ensure the long-term health and viability of trees and other vegetation; Based on findings design and implement conversion of two municipal landscaped areas from turf to water-wise plants</p>	<p>City has budgeted for a master plan to handle improvements to Veterans’ Parkway (Greenbelt)</p>	<p>Staff time: 500 hours</p>	<p>A master plan will help the City preserve and enhance parks, street trees, open space and other natural systems that act as carbon “sinks”, as well as prioritize requests from the public for beautification and other sustainable landscape projects; Water-efficient landscape conversions in high-profile areas generate awareness on water consumption, and are successful examples for residents in the community</p>	<p><u>Completion:</u> April 2013</p> <p>Other Staff involvement: Maintenance Superintendent</p>
<p>B. <u>Landscape Audit Program</u> Continue free landscape checkup program for residents, and partner with West Basin to promote irrigation audit</p>	<p>Continuation of Environmental Task Force recommendation to offer free audits through partnership with landscape professionals and West Basin irrigation program</p>	<p>\$1,500: advertising and educational materials</p> <p>EPM Staff time: 100 hours</p>	<p>West Basin will provide free irrigation audits and high-efficiency sprinklers to residents that complete the landscape audit in an effort to conserve water and reduce runoff</p>	<p><u>Completion:</u> Ongoing</p> <p>Other Staff involvement: Utilities Manager</p>
<p>C. <u>Community Water Conservation Program</u> Develop education plan to provide resources that help community maintain goal of 20% reduction in water consumption by 2020. Provide community with resources, including:</p>	<p>City adopted water conservation ordinance in 2009; Community-wide water conservation goal in 2011; Urban Watershed Management Plan in 2012;</p>	<p>\$2,000: outreach materials; partnerships with water agencies to provide resources and workshops to community</p> <p>EPM Staff time: 100 hours</p>	<p>The City can make use of several existing programs to help residents conserve water and aid the city in meeting water consumption targets</p>	<p><u>Completion:</u> December 2012</p> <p>Other Staff involvement: Utilities Manager</p>

Environmental Measure	Current/Historic Involvement	Cost and Annual Staff Hours	Benefits	Comments
- Rain barrels, water efficient devices, etc.				
<p>D. <u>Municipal Mulch Program</u> Make permanent the mulching of local organic tree trimmings and provision to the community as a free mulch service</p>	Successful implementation of Environmental Task Force pilot program at Public Works facility: Local tree trimmers provide organic mulch for free; Public Works staff monitors the mulch pile and arranges delivery	\$1,000: advertising EPM Staff time: 40 hours	The provision of free mulch to the community encourages the reuse of organic materials, as well as the use of mulch as a tool to assist in water conservation and promotes sustainable landscaping	<p><u>Completion:</u> August 2012</p> <p>Other Staff involvement: Superintendent; Street Maintenance Supervisor</p>
3. Pollution Prevention and Waste Reduction				
<p>A. <u>Plastic Bag Ordinance</u> Implementation of plastic bag ban, outreach to general public and business community, and sharing of information with other agencies</p>	The City adopted the ordinance in 2008 and after a long legal battle the ordinance is currently being implemented; several early adopters have removed plastics from their business, but compliance is not complete	\$3,000: advertising and educational materials EPM Staff time: 200 hours Staff involvement: City Attorney	As a coastal community, significant public support for the removal of this pollutant from local beaches and ocean; recycling is not a viable alternative	<p><u>Completion:</u> Ongoing</p>
<p>B. <u>Polystyrene Ban</u> Adopt an ordinance banning the use of polystyrene containers for take-out containers</p>	City has an internal policy banning the use of polystyrene; city-wide ban included in 2011 Environmental Work Plan, and recommended as future action by the ETF; numerous communities in the region have	\$1,000: advertising and educational materials EPM Staff time: 100 hours Staff involvement: City Attorney	As a coastal community, significant public support for the removal of this pollutant from local beaches and ocean; recycling is not a viable alternative; Adoption of ordinance along with a smoking ban allows the City an extension in meeting NPDES requirements	<p><u>Completion:</u> TBD</p>

Environmental Measure	Current/Historic Involvement	Cost and Annual Staff Hours	Benefits	Comments
	successfully banned polystyrene; several local businesses have already removed this product			
<p>C. <u>Smoking in Public Places</u> Adopt an ordinance banning smoking in all public places</p>	City has a limited ordinance on public smoking impacting the parks, beaches and Strand; several cities in the region have enacted similar bans	\$2,000: advertising and educational materials EPM Staff time: 40 hours Staff involvement: City Attorney; Superintendent	As a coastal community, significant public support for the removal of this pollutant from local beaches and ocean; Adoption of ordinance along with a polystyrene ban allows the City an extension in meeting NPDES requirements	<u>Completion:</u> TBD
4. Promoting Community and Individual Action				
<p>A. <u>Sustainability Speaker Series Program</u> Initiate quarterly Speaker Series programs on various sustainably related topics; continue to release regular environmental articles in City newsletters, local media, and website; Incorporate workshops on energy efficiency, water conservation and responsible purchasing</p>	Previous Environmental Speaker Series program was popular and useful to community trying to learn more about sustainability; Resources and information are currently posted on the Going Green website	\$2,000: Advertising, meeting materials, refreshments EPM Staff time: 80 hours	Education program provides community members with basic information about sustainability in an effort to increase awareness and meet overall conservation goals; Tools and resources provided to the community will assist the public in reducing energy consumption and helping the City meet its water conservation goals	<u>Completion:</u> Ongoing
<p>B. <u>Sustainability Events</u> Host several events centered around sustainability to promote public awareness</p>	Several successful events, in addition to Earth Day and Hometown Fair: 350 Amazing Waving Human Tideline; 10-10-10; Moving Planet; Solar Homes Tour;	\$2,000: advertising and materials EPM Staff time: 120 hours	Program provides opportunities for public engagement that will support successful implementation of climate change actions and sustainability	<u>Completion:</u> Ongoing Other Staff involvement: Public Works

Environmental Measure	Current/Historic Involvement	Cost and Annual Staff Hours	Benefits	Comments
				Senior Analyst; Superintendent; Facilities Supervisor
5. Additional Program Tasks				
A. <u>Administrative Management</u> Public Works administrative duties, budget, training, staff report process, program development and analysis, and website maintenance	In 2011, the Environmental Programs were moved to the Public Works department, and additional administrative duties were assigned including budget management; Ongoing tasks such as training and report writing are also accounted for in this category	EPM Staff time: 180 hours		<u>Completion:</u> Ongoing
B. <u>Management of Grants and Recognition Programs</u> Seek and apply for grants, awards, and report progress in sustainability recognition programs; climate change and energy efficiency; and water conservation and sustainable landscaping to prevent stormwater runoff	Currently manage DOE stimulus grant for energy efficient lighting; Rebate applications to utilities; reporting to Beacon Award and Energy Leader programs; Santa Monica Bay Restoration Grant, West Basin grant; research into other recognition programs like Green Communities and Earth Hour City Challenge	City may contribute matching funds; EPM Staff Time: 200 hours	Receipt of grant funds offset project cost to the General Fund, as does receipt of rebate incentives; Award recognition and program participation highlight the City as a leader in sustainability initiatives; Grant funds assist in implementing hands-on conservation projects that educate and provide an example for the community	<u>Completion:</u> Ongoing Other Staff involvement: Superintendent; Facilities Supervisor; Utilities Manager

EPM Allocation for 2012-13 Environmental Programs	
Environmental Measure	Annual Staff Hours
1. Energy efficiency and Renewable Energy	
A. Public Parking for Electric Vehicles	200
B. Green Business Recognition Program	350
C. Community-based Home Energy Audits	200
D. Energy Efficiency Improvements for City Facilities	100
Total	850
2. Water conservation	
A. Landscape Master Plan	500
B. Landscape Audit Program	100
C. Community Water Conservation Program	100
D. Municipal Mulch Program	40
Total	740
3. Pollution Prevention and Waste Reduction	
A. Plastic Bag Ordinance	200
B. Polystyrene Ban	100
C. Smoking in Public Places	40
Total	340
4. Promoting community and individual action	
A. Sustainability Speaker Series Program	80
B. Sustainability Events	120
Total	200
5. Additional Program Tasks	
A. Administrative Management	180
B. Management of Grants and Recognition Programs	200
Total	380
Total Hours	2510