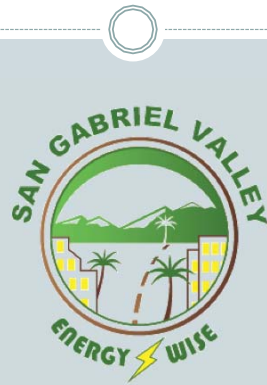


San Gabriel Valley Energy Wise Partnership



Program Overview

- **Year Formed:** 2006
- **Member agencies:** 29 cities
 - **Largest City:** Pomona (163,000 pop.)
 - **Smallest City:** Bradbury (963 pop.)
- **Population:** 1.9 million
- **Lead local government partner:**
San Gabriel Valley Council of Governments

Program Goals

- **2010**
 - **Goal:** 794,346 kWh
 - **Status:** 992,943 kWh savings from installed projects (125% of goal)
- **2011**
 - **Goal:** 1,390,105 kWh
 - **Status:** Approximately 2.8 million kWh savings identified in committed pipeline projects (200% of goal)
- **2012**
 - **Goal:** 1,787,278
 - **Status:** Approximately 440,000 kWh savings identified in committed pipeline projects

Program Strengths and Challenges

- **Strengths**
 - Program team
 - Multi-city structure allows for sharing of best practices
 - Widespread impact
- **Challenges**
 - Largest ELP program in SCE territory
 - Varying levels of engagement and capacity amongst member cities
 - Varying channels of managing Partnership activities amongst cities

Direct Implementation Activities

- **Ongoing**
 - One-on-one Partnership meetings
- **2010**
 - Stimulus Workshop
- **2011**
 - Toolbox Training Sessions
 - Featured project 1-pagers
 - Energy Leader Model support

San Gabriel Valley Energy Wise Partnership Story of An Energy Leader

City of Pomona's Energy-Efficient Streetlights

Installing Energy-Efficient Streetlights Means Big Savings For the City of Pomona

Estimated Savings from New Technology

- Annual Savings: \$1,792,000 kWh saved
- Greenhouse Gas Emissions Avoided: 674 tons of CO₂
- Enough Saved Electricity to Power 140 homes for one year

Estimated Savings \$108,000 per year

ENERGY SAVINGS up to 1,792,000 kWh saved

GREENHOUSE GAS EMISSIONS AVOIDED up to 674 tons of CO₂

ENOUGH SAVED ELECTRICITY TO POWER 140 homes for one year

Pomona installs Energy-Efficient lights. Ready to Cash In On Savings

The City of Pomona's current initiative to 4000 induction streetlights after a successful pilot project in 2008. SCE completed a thorough study of LED streetlights to ensure their efficiency, performance, and cost savings for customer, SCE over and over again. Over 70000 streetlights known as L11, or nearly 80 percent of streetlights in its territory. Over 97 percent of these streetlights use traditional HPS technology.

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Pomona passed on getting Best Bid With Competitive Bid Project

As part of the American Recovery and Reinvestment Act of 2009 (ARRA), the Energy Efficiency and Conservation Block Grant (EECBG) program created incentive for local government to verify new energy-efficient technologies

Story of An Energy Leader

The City of Pomona Will See Savings After Street Light Conversion

Pomona chose to use part of their \$1.40 million award to convert to more energy-efficient streetlights.

Reduced Energy Consumption Will Save Local Budget Dollars

In order to get the most competitive bid that exceeded the lowest level of street lighting Pomona initiated the Energy Efficient Street Lighting Pilot Project in order to pre-qualify vendors/contractors. Using LED and induction-type light from various contractors representing seven manufacturers, Pomona initiated the new light of seven different pilot projects in 11-mile stretch of Mission Boulevard (between Hamilton Boulevard and San Antonio Avenue) last month.

The unique approach to community input, the project team surveyed residents, as well as students and employees of nearby schools and businesses, to get a sense of how they felt the new light brought improved visibility, created better job spots, and emitted light that is the right brightness. The survey results showed that a large majority of stakeholders expressed an interest in energy-efficient streetlights. The next approach is being used as a model in community throughout Pomona.

The streetlight installation work is scheduled to be completed in summer 2011. The City of Pomona expects to convert additional streetlights in the future as additional funding becomes available.

When the pilot project results, the City of Pomona entered a competitive bidding process, and received eight bids from seven vendors. Pomona eventually selected seven streetlighting vendors to install 4,100 induction-type lights throughout Pomona—over 36 percent of the street lights operated by the city. The City of Pomona will save nearly \$1.25 million of their federal grant to complete the installation which began in fall 2010.

After examining results of the pilot project and drawing from existing programs in other jurisdictions, Pomona expects to save up to 400 percent of energy consumption for each converted streetlight. This would translate to \$20,000 per 1,000 lights installed per year, and about 1,500 tons of carbon dioxide avoided with the current program saving to install 4,000 streetlights. Pomona is expecting nearly \$7,000 of General Fund savings per year, and enough saved electricity to power 212 homes.

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Strategic Planning Activities

- 2010
 - Strategic planning survey and needs assessment
 - Existing policy, ordinance and program library
- 2011
 - Policy and program template library
 - Focus areas: purchasing policies, residential outreach programs, and EU permit fee waivers

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Model Library of City Policies and Programs

City	Policies, Codes, and Ordinances					Other Energy Programs	Green City Plans/CAPs
	Green Building	Reach Codes	Energy Conservation	Solar Power	EPP		
Alhambra	*						
Arcadia					*	*	*
Baldwin Park	*					*	
Bradbury							
Claremont	*		*	*	*	√	√
Covina	*		*	*	*	*	*
Diamond Bar	*		*	*	*	*	*
Duarte	*		√	*	*	*	*
El Monte	*		*	*	*	*	*
Glendora	*		*	*	*	*	*
Industry							
Irwindale	*		*	*	√	*	*
La Cañada-Flintridge	*					*	*
La Puente			√				
La Verne	*		*	*	*	*	*
Monrovia	*				√	√	√
Montebello							
Monterey Park	*		*	*	*	*	*
Plimonia	*		*	*	√	*	*
Rosemead	√		√	√	*	√	*
San Dimas			*	*	*	*	*
San Gabriel	√	√	√	√	√		
San Marino			*	*	*	*	*
Sierra Madre	*				√	*	*
South El Monte							
South Pasadena							*
Temple City						√	
Walnut			*		*		
West Covina				√			

√ Policy or Program has been adopted
* Policy or Program is in development



Municipalities



Businesses



Residential

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-  Municipalities
-  Residential
-  Resources
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-  Latest News
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City of Claremont

The **City of Claremont** has established a framework in which the Claremont community can achieve its vision of becoming a sustainable city. The vision is one where all who live and work in Claremont are enabled to live in ways that allow them to meet their needs while preserving the ability of future generations to do the same. Their vision is of a community that balances social needs, environmental health and economic prosperity while not depleting or degrading its natural resources, creating social inequities, or limiting our prospects for continued economic prosperity. This effort is based on the Claremont General Plan, adopted on November 11, 2006, which is organized around a theme of sustainability.

In October 2009, the City Council unanimously adopted the Claremont Sustainable City Plan that addresses sustainability issues in the following seven areas: (1) resource conservation, (2) environmental and public health, (3) transportation, (4) built environment, (5) open space, land use and ecology, (6) housing and economy, and (7) outreach/education and implementation. Since that time, the City has implemented a number of strategies to meet the targets identified in the plan. Highlights include:

- **Claremont Home Energy Retrofit Project** - This collaborative effort between the city, community volunteers, and local green organizations seeks to educate Claremont residents regarding the power and benefit of increasing energy efficiency in the existing building stock. The project's goal is to retrofit one percent of the City's homes (100) in 2010, and ten percent (1000) by the end of 2011 to achieve a 15 percent energy savings in each home.
- **City Facility Upgrades** - City staff completed improvements to reduce energy consumption at City facilities and will save the City approximately \$60,000 annually. City staff also installed low flow, dual flush toilets and waterless urinals throughout its facilities saving more than 1.5 million gallons of water per year.
- **Clean Local Energy Production** - Claremont families installed Photovoltaic solar panels on 42 homes in the last twelve months, 13 more systems than had been installed in the previous 5 years. These new systems generate approximately 250,000 kWh of clean electricity per year. Based on a very limited survey of past permits, this year's new PV solar installations roughly double solar electricity production in the City.

The City recognizes that in order to achieve its goals, it must lead by example. When the sustainable city plan was adopted, Mayor Ellen Taylor stated, "The plan was very thorough and the City will step up to the plate, and that the City would not ask anything of others that we would not do ourselves."

[Click here](#) for more information on Claremont's sustainability efforts.

Developing an Energy-Efficiency Procurement Policy

Step 1: Clarify your objectives

Before writing your energy-efficiency policy, it is important to define what the main objective of the policy is. This will provide guidance as to the equipment products and activities that should be covered, as well as goals that could be attainable. Additionally, there may already be other policies in place that cover some of the aspects of this new policy, or a more general green or sustainable procurement policy. By identifying and reviewing any such policies, you will be able to ensure that your policy does not conflict, existing policies and can be successfully implemented.

Step 2: Identify and engage relevant stakeholders

Identifying key stakeholders early in the process will help ensure your policy will ultimately be enacted addressing potential implementation, political and fiscal roadblocks. Four important groups to identify include:

- **Who needs to be involved in the drafting of the policy:** This group should include technical staff in the different departments that will be affected by it. They will be responsible for defining specific objectives, policies and constraints.
- **Who will be directly affected by it:** This group should include anyone who is responsible for procurement of items selected in the scope of the policy. Involvement in procurement ranges from identifying a need through to approving expenditure, developing energy efficiency criteria for procurement documents and identifying the terms of a contract. Jurisdictions have a wide variety of structures for procurements, ranging from a very centralized procurement system, which may only involve a single individual, to a dispersed structure that is managed by each department. Policies may also vary depending on a variety of factors (cost of item, intended use, product-specific vs. general use, etc.). In order to ensure full implementation, all individuals involved in the various stages of the procurement process should be trained on this new policy.
- **Who will champion the project:** Depending on your city's internal policies and procedures, this new policy will require either approval by senior management or city council. In order to ensure this policy is adopted, it is important to identify a "champion" for the policy either on the city council or amongst senior management. These individuals will be critical in advocating on behalf of their proposed policy.
- **Who will be indirectly affected by it:** Your policy will have an impact on a wider range of stakeholders than those directly involved in procurement. The first step in energy efficiency is energy conservation, and this requires action on the part of all building occupants and equipment users. Once the policy has been finalized, it is important that it is clearly communicated to this group, to let them know how they will be affected, and how they can assist.

Step 3: Define the scope of the policy

You have a variety of options in develop scope of products and activities that will be affected by your procurement policy. Some areas to consider for inclusion are:

- **Procurement of energy-consuming equipment and vehicles**
 - Office Technologies: Computers, Monitors, Printers, Copiers, and Fax Machines, Audiovisual Equipment, Servers.

This document was adapted from ICLD's DEEP Toolkit: TOOL 1a (The Energy Efficient Procurement Policy Guide)

- **Lighting Technologies:** Fluorescent Tube Lamps, Fluorescent Ballasts, Industrial HID Lighting, Compact Fluorescent Lamps, and Exit Signs.
- **Commercial/Industrial Equipment and Appliances:** Air or Water-Cooled Electric Chillers, Air Conditioners, Heat Pumps, Boilers, Ice Cube Machines, Coffee Makers, Meters, Distributed Transformers
- **Water Saving Technologies:** Low-Flow Faucets, Showerheads, Toilets, and Urinals.
- **Fire/Alarms:**

- **New construction and renovation of buildings**
 - Building Fabric: Glazing, Insulation, Shading
 - Building Design
 - Building Construction
 - Building Adjustment
 - Facilities Management

- **Auditing**
In addition to addressing only equipment that is in need of replacement or planned projects, cities may also consider a pro-active approach of undertaking audits to identify new energy efficiency projects.


- **Budgeting**
Cities may consider two budgeting strategies encourage energy efficiency projects:
 - **Revolving Energy-Efficiency Fund:** These are internal pools of money designed to set aside a portion of energy cost savings from energy efficiency projects into capital for new projects.
 - **Life-Cycle Costing:** Life-cycle costing is a methodology that takes into account the overall cost of an item(s), including future expenses and benefits, rather than just the current price of the product(s). It is particularly useful when assessing the cost of energy efficient products, since it takes into account the running costs, which for energy efficient products, should be considerably lower than for non-efficient ones.

Step 4: Draft Energy-Efficiency Procurement Policy

Typically a procurement policy will include the following elements:

1. Background
 - a. Relevant Federal, State and regional factors impacting policy
 - b. General framework and city's commitment to environmental stewardship
 - c. Purpose of policy
2. Policy Elements
 - a. Implementation activities (i.e. products, equipment and activities covered by policy)
 - b. Information, communication and training activities
 - c. Monitoring and reviewing process activities

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Sample Energy-Efficiency Procurement Policy

Structure:
Typically a procurement policy will include the following elements:

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 - c. Purpose of policy
2. Policy Elements
 - a. Implementation activities (i.e. products, equipment and activities covered by policy)
 - b. Information, communication and training activities
 - c. Monitoring and reviewing process activities

Section 1 – Background:
It is helpful if the policy includes context for its adoption. This could include the environmental impact of energy production and use, energy usage trends, State and Federal efforts to reduce greenhouse gas emissions and combat climate change, and the importance of local governments setting an example for their citizens. It should also include any information on existing city policies or programs related to environmental stewardship or energy-efficiency specifically.

Sample Policy Language:
Adopting in title from the California Air Resources Board (CARB), California is the 29th largest emitter of greenhouse gases on the planet, representing about two percent of the worldwide emissions. The production and importation of electricity accounts for approximately 22% of the statewide GHG emissions.

In the State of California, several steps have been taken to reduce our communities' carbon footprint and combat climate change. These efforts include:

- ✓ **AB 32 (Nexus):** This legislation, which was signed into law in 2006, established a goal that the State will reduce greenhouse gas (GHG) emissions to 20% below by 2020. While AB 32 does not set mandatory energy or GHG emission reduction goals for local governments, it does encourage local government to adopt a reduction goal for municipal operations and community emissions that parallel the State commitment to reduce greenhouse gas emissions by approximately 33 percent from current levels by 2020.
- ✓ **California Public Utility Commission's (CPUC) Long Term Energy Efficiency Strategic Plan:** In 2008, the CPUC adopted California's first Long Term Energy Efficiency Strategic Plan which is intended to serve as a roadmap to achieve maximum energy savings across all major groups and sectors in California. This document urges local governments to lead by example by: achieving maximum energy efficiency; reducing GHG emissions; and showcasing promising energy efficiency, DSM and renewable products in their own facilities.

For the past several years, the City recognizes the importance of leading by example in the community and has taken a number of steps to make the City and its municipal operations more sustainable. This includes participating in the San Gabriel Valley Energy Wise Partnership, which is a partnership between the City, the San Gabriel Valley Council of Governments and Southern California Edison aimed at increasing energy efficiency in municipal operations. Additionally, the City has taken the following steps to become a leader in sustainability. Current activities being undertaken by the City:

- ✓ Developing a Green Action Climate Action Plan
- ✓ Incorporating sustainability principles in the City's General Plan

✓ **Joining a City "Green Team"**
 ✓ **Conducting community events that bring attention to sustainability issues**
 ✓ **Signing the US Conference of Mayors Climate Protection Agreement**

In accordance with the aforementioned challenges, goals and activities discussed above, the City aims to reduce our impact municipal energy usage, and thereby our impact on climate change, by considering energy efficiency in all of its procurement activities. This procurement policy lists specific product categories and implementation strategies intended to achieve this goal. This procurement policy is intended to serve as a living document, meant to change with time, experience, introduction of new technologies and needs as the City progresses toward a sustainable future.

Section 2 – Policy Elements:
Implementation activities (i.e. products, equipment and activities covered by policy)
After the general section, the commitment should be further specified by products and services.

Sample Policy Language:
When writing the specific objectives, there are two approaches that can be taken:

- **Option 1:** Be specific but without fixing any quantifiable target. An example of such language would be:
 The City will buy or rent energy-efficient computer equipment.
 This formalizes the city's commitment, but avoids the risk of becoming outdated or becoming infeasible due to unforeseen circumstances. However, the lack of quantifiable indicators could make tracking and monitoring progress more difficult.
- **Option 2 (recommended):** Another option is to establish specific targets which the City can write toward achieving. The level of specificity can vary, as can the inclusion of specifics. Examples of such language include:
 The City will maximize its energy efficiency through its procurement practices as follows:
 - Replace 3% of computer monitors with ENERGY STAR rated equipment by (YEAR)
 - Replace 3% of T-12 lamps with T-8 or lower by (YEAR)
 - Install only insulation and windows that exceed existing regulations (i.e. Title 24 California Green Building Code etc) related to energy efficiency by 3%

Training and Monitoring Activities
Equally important to developing policy objectives related to procurement, is identifying implementation measures to ensure that the policy is incorporated into day-to-day procedures. These measures can be independent of the policy and developed separately. However, including them in the policy document highlights their importance.

Information, communication and training activities
Commitment to the process is necessary from both the "top-down" (e.g. management and city council) as well as from the bottom-up (e.g. staff responsible for implementing the policy). Training and education are critical to building and maintaining that support. Therefore, the policy should include provisions for training sessions and communication/dissemination channels with employees. To maximize accountability, the policy could list specific staff positions that are to be trained. Another critical element of the education campaign is

Informing both suppliers and the public of the City's intended efforts, and this can be included in the procurement policy.

Sample Policy Language:
The City will provide environmental training and awareness training both to its staff and ensure there is effective communication between purchasing officers and individual departments. Additionally, it will develop guidance and training materials that will be made available to all staff.

Also suppliers, especially the local ones, need to be aware of the energy-efficient procurement policy and practices of the local authority, in order to adjust to the new requirements. Information about the City's policy will be distributed through existing communication channels including a newsletter, website, radio, direct City Council's report. The purchasing office will also distribute information on the EE purchasing policy to any existing list of vendors that may be required by the policy.

Monitoring and reviewing process activities
Monitoring and review processes are critical to the success of new policies, such as an EE purchasing policy. These activities allow the City to determine what progress is being made and if the policy is being implemented effectively. In no case would identifying any barriers and opportunities to improve or update the policy in the future. One strategy is to create a working group responsible for monitoring activities and progress on a set basis (i.e. quarterly or annually). This may be the same working group that developed the policy, or it may be a new group.

Sample Policy Language:
A working group will be set up to promote and monitor the implementation of the policy. The working group will be comprised of representatives from the following departments:

- Administration
- Purchasing
- Public Works/Utilities
- Environmental Services

The working group will meet quarterly (annually) and shall prepare an annual report for the City Council on implementation activities completed to date.

Ongoing, scheduled energy auditing is an important step of identifying energy efficiency improvements and is essential to proactively identify opportunities for implementing EE projects.

Sample Policy Language:
The City will implement a program of energy audits to be carried out in existing facilities with priority placed on the facilities with the highest energy usage. A schedule of audits will be included in the annual program update.

Marketing and Outreach Activities

- **Ongoing**
 - SGVEWP Website
 - E-newsletter
 - Awards luncheon
- **2010**
 - HEP workshops
- **2011**
 - Promotion of SCE core programs: HEES, refrigerator/freezer pickups, and direct install
 - Energy Upgrade Contractor Fair
 - Gold Level City recognition