

# San Gabriel Valley Energy Efficiency Partnership Program

<b>1. Projected Program Budget</b>	<b>\$ 1,737,709</b>
<b>2. Projected Program Impacts</b>	
MWh	2,701
MW (Summer Peak)	0.84
<b>3. Program Cost Effectiveness</b>	
TRC	1.35
PAC	1.23

## 4. Program Descriptors

Market Sector: Residential, Nonresidential  
 Program Classification: Local  
 Program Status: Revised Existing Partnership)

## 5. Program Statement

The 2006-08 San Gabriel Valley Energy Efficiency Program (SGVEEP) is a new residential and nonresidential partnership between SCE and the Southern California Association of Governments (SCAG). The program will build on the lessons learned from other partnership established in the 2004-05 Energy Efficiency Program cycle and will be supported by the various Chambers of Commerce in the targeted Cities and the San Gabriel Valley Council of Governments (SGVCOG). This Program will build an infrastructure by raising awareness of energy efficiency and by completing targeted retrofit and retro-commissioning projects in city facilities. The targeted cities are: Covina, West Covina, Industry, Glendora, La Verne, San Dimas, Diamond Bar, Walnut, Pomona and Sierra Madre.

The program will provide energy education, retrofit assistance, Retro-Commissioning (RCx) as well as design consultation and energy analysis of new construction and renovation project plans. Analysis of city facilities will be conducted to identify demand reduction projects with ECM alternatives to optimize the energy and environmental performance of a new building design or extensive retrofit project in each of the targeted Cities. In addition, the program will address the Green Building Initiative Executive Order Compliance Assistance and LEED Certification by providing design and management consultation to formulate an action plan and provide assistance to local governments to comply with the Executive Order.

SCE’s objectives for the Local Government Partnerships (LGPs) include:

- Short and Long-term energy savings and demand reduction for Local Government organizations and the communities they serve as well as reduction of greenhouse gas emissions. Jurisdictions will leverage their local infrastructure to “spread the

word” about energy efficiency and deepen the reach of statewide and local EE programs and services.

- An energy efficiency ‘ethic’ resulting from delivery of energy information to the communities, training and education for local government facility managers, energy managers and other staff in the use of ‘best practices’ methodology for identifying and implementing energy efficiency opportunities in their facilities.

The primary objectives of SGVEEP include:

- Provide specialized energy efficiency offerings to San Gabriel Valley local governments, residential and business communities,
- Leverage their communication infrastructure to inform their local communities about the wide variety of energy efficiency and demand reduction offerings available to them and encourage participation;
- Identify opportunities for municipal building retrofits, new construction, commissioning and retro commissioning as well as funnel existing energy programs.

## **6. Program Rationale**

SGVEEP supports the Commission vision, as set forth in Decision 05-01-055, which notes that “current or future partnerships between IOUs and local governments can take advantage of the unique strengths that both parties bring to the table to deliver cost-effective energy efficiency services.” Local government economic redevelopment and similarly designated areas are specifically designed to increase community prosperity and represent a vital source of energy savings across a diverse residential and business market sector that has had lower participation in traditional energy efficiency programs. The customers in the San Gabriel Valley represent significant energy savings and demand reduction potential, as well as potential lost opportunities if not given targeted consideration.

Even with the past successes the cities has achieved to date, large potential remains. Working in partnership with SCE, the cities will be able to build on its past successes, and will achieve immediate long-term peak demand and energy savings through implementation of energy efficiency retrofits.

The Cities also will begin a retro/continuous-commissioning (“RCx”) program, targeting larger City facilities and focusing on hardware and operational improvements to HVAC systems. This effort represents a somewhat new technology approach and is leveraged by the fact that some of the Cities employ state-of-the-art energy management information systems. In the future, this program might initiate a larger, County-wide RCx program, and will achieve both immediate and long-term energy and demand savings through better operation and maintenance of city-owned facilities.

Completing energy retrofit projects within a public entity can be challenging due to the details that must be addressed in order to complete the project. This partnership program will continue to address several of the existing market barriers that have hindered the consistent implementation of energy efficiency projects in the County. These include

lack of financing for energy efficiency improvements, project complexity, and lack of credible information.

## **7. Program Outcomes**

The desired outcomes of this program are:

- Identification of short and long-term energy savings and demand reduction for the Cities in San Gabriel valley. City facilities will have a comprehensive list of energy efficiency projects that can be implemented to reduce operating costs. The Cities will leverage their local infrastructure by spreading the word about energy efficiency and deepen the reach of SCE's portfolio of programs and services.
- Energy Action Plans for Cities that will serve as a roadmap for future energy efficiency projects and funding.
- Implementation of energy efficiency projects in city facilities.
- An energy efficiency "environment" resulting from delivery of energy information to the San Gabriel Valley communities, training and education for local government facility managers, energy managers and other staff in the use of "best practices" methodology for identifying and implementing energy efficiency opportunities in their facilities; and possibly HVAC and other training targeted at refrigeration/HVAC technicians.
- Completion of energy saving projects in the targeted cities that will achieve progress towards the goal of 10% reduction of grid based purchases by the year 2010 and 20% by 2015 in government organizations.

## **8. Program Strategy**

The overall program strategy is to partner with SCAG, to inform, identify, and implement sustainable energy efficiency activities. SGVEEP will leverage the strengths of each of the partners to cost effectively deliver energy and demand savings. SGVEEP will provide a comprehensive list of energy efficiency activities from outreach to implementation. Commissioning and other energy savings activities will be coordinated with the SCE teams providing those specific services.

General strategies for SGVEEP will include:

Energy Efficiency Retrofits: SGVEEP will coordinate implementation of energy efficiency retrofits in City facilities. Incentives will be provided for the identified retrofit projects. The primary purpose of the incentives will be to offset the projects costs and address the financial barriers that face the Cities. The level of incentives will be a function of the City needs and the cost effectiveness of the program.

Energy Information: SGVEEP will provide government, businesses and residents with information on energy efficiency programs and services, demand response, and self-generation, programs. In addition, statewide and national energy marketing campaigns will feature in program materials that will be developed.

Energy Efficiency Training: Energy code training and other energy efficiency training targeted facility planners in the targeted cities. Training will include Building Operator

Certification (BOC) training and will be targeted to building professionals and other training that will target, energy managers and local government facility managers. Three training workshops will be coordinated every year.

Energy Audits and Project Identification: Services will be provided to support local government investments in energy efficiency retrofits, renovation, new construction and monitoring based continuous commissioning (MBCx) and retro commissioning (RCx) of city facilities. Specialized assistance will also be available through the relevant energy efficiency programs, for example Savings By Design, where applicable.

Green Building Initiative Executive Order Compliance: SGVEEP will assist targeted cities in Leadership in Energy and Environmental Design (LEED) certification and implementing the Governor's Executive Order S-20-04, The Green Building Action Plan, as requested in the public process.

Energy Efficiency Outreach and Community Activities: SGVEEP will leverage the targeted city's unique communications and outreach infrastructure to promote energy efficiency programs. SGVEEP will develop and distribute a total of four brochures through the program cycle. In addition, SGVEEP will coordinate and complete participation in four community events through the program cycle. These events will be coordinated between the partners.

## **9. Program Objectives**

Specific program objectives for the activities within SGVEEP include:

Activity 1 Complete comprehensive city facility energy efficiency project identification analysis in targeted City facilities. SGVEEP will complete comprehensive audits in targeted cities within San Gabriel Valley. Complete audit reports will be provided. These audit reports will contain technical and financial analysis of the projects identified.

Activity 2 Develop Energy Action Plans (EAPs) – Energy Action Plans will be completed for targeted cities in San Gabriel Valley. The EAPs will contain long range energy efficiency options for the Cities. Demand response and self generation strategies will also be briefly discussed. EAPs will be provided to the targeted cities in electronic and hard copy format.

Activity 3 Coordinate implementation of the recommended energy efficiency projects in the City facilities. The program will conduct project start up activities, perform the audits, get customer agreement, provide technical assistance, select sub contractors for installation with the Cities, and coordinate implementation of the retrofits.

Activity 4 Commissioning and Retro Commissioning targeted to three Cities. Commissioning opportunities will be discussed with the targeted cities and scope of these activities will be developed. Implementation will be coordinated with the SCE Commissioning team.

Activity 5 Coordinate three energy management workshops per year for public agency facility managers. This would be day long energy efficiency training workshops for public agency facility managers. In addition to educating public agency facility managers about energy issues, this program will provide an opportunity for reviewing energy efficiency projects implemented by other government entities. These workshops may be coordinated with the Building Operator Certification (BOC) program.

Activity 6 Coordinate direct install efforts for small businesses in the targeted Cities. SGVEEP will market the SCE Direct Install Program by working closely with the targeted cities and chambers of commerce. The primary purpose of this activity will be to obtain the City approval for the direct install efforts and hence provide credibility to the process. Small businesses in a City typically trust a direct installation effort when the City has approved the program.

Activity 7 General awareness campaign targeting residents and businesses to increase awareness of energy efficiency programs and of the importance of energy conservation in maintaining a healthy environment, reducing costs, and creating other economic benefits. SGVEEP will develop and distribute four brochures through the program cycle. These brochures will be distributed utilizing local networks and organizations. Outreach events will further generate awareness and drive participation in energy programs offering low cost/no cost products, services and financial incentives. SGVEEP will participate in four community events through the program cycle. Booths will be set up in these community events to distribute information about energy efficiency. These booths will include representatives from the partnership to answer questions.

## **10. Program Implementation**

All Partners will participate equally in program development and the establishment of goals, deliverables and milestones for the program and share commitment to achievement of program goals.

SCE will identify a Partnership Representative on a full- or part-time basis, who will be the single point of contact between the SVEEP and the IOU Program Managers. SVEEP will work with the member cities to designate Energy Champions for respective cities, for example the facility planning manager.

Energy efficiency training workshops for each of the partnering Cities will be developed in close coordination with the Facility Planning staff. The workshops will be coordinated with other similar SCE programs. Three workshops will be coordinated each year for a total of six workshops through the program cycle. Four brochures will be developed and distributed. SGVEEP will participate in four community events through the program cycle. All these events will be coordinated between each of the partners.

## **11. Customer Description**

This Program will primarily targets City facilities within the targeted cities of Pomona, Covina, West Covina, San Dimas, Glendora, La Verne, Diamond Bar, Industry, Walnut and Sierra Madre. Facility Managers for each of the City Facilities will also be a target audience for this Program. Outreach activities will be targeted to the communities being served by these cities.

## **12. Customer Interface**

In the case of cities, Partnership personnel will initiate person to person contact with appropriate city staff or elected officials. Customers benefiting from Partnership through ‘funneling’ efforts will be subject to the customer interface feature of the respective program.

Facility planners will be the primary customer interface for the audit and the retrofit component of the program. All outreach activities will be coordinated with the economic development and communications departments of the Cities. All training workshops will be coordinated with the City Manager’s office to ensure that there is appropriate representation from each City.

## **13. Energy Measures and Program Activities**

List of energy measures for SGVEEP are included in the E3 calculator. All the activities within the program are discussed in the Implementation section.

### **13.1. Measures Information**

Lighting, HVAC, refrigeration, and other comprehensive measures will be utilized by SGVEEP. All measures that are being utilized in SGVEEP are included in the E3 calculator.

### **13.2. Energy Savings and Demand Reduction Level Data**

Energy and Demand reduction data for the measures is included in the E3 calculator.

### **13.3. Non-energy Activities**

SGVEEP has the following activities that do not directly contribute energy and demand savings:

Complete comprehensive city facility energy efficiency project identification analysis in targeted City facilities. These comprehensive audits will provide recommendations on completion of energy efficiency projects. Cities will be an integral part of these audits to ensure that these are positioned as “Project Identification” efforts – Cities will be expected to assist with implementation of the identified projects. The objective will be to maximize the conversion of these City facility audits into energy efficiency projects. Demand response and self generation projects will also be identified.

Energy Action Plans (EAPs) for each of the partnering Cities – Energy action plans will be developed for each of the partnering Cities. These plans will ensure that the Cities allocate funds for longer cycle projects in the future. These plans will identify short term and long term energy efficiency projects. Brief summaries of self generation and demand

response strategies will also be presented. These plans will be developed in close coordination with the facility planners for the City facilities.

Energy Workshops – The Program will coordinate three energy workshops per year for the facility planners – a total of six through the program cycle. The primary purpose of these workshops will be to update and train the facility planners on the latest demand reduction strategies and also share best practices. Tours of green buildings will be coordinate to facilitate ideas for new projects. These workshops may be coordinated with the Building Operator Certification (BOC) training program.

#### **13.4. Subcontractor Activities**

The Partnership will coordinate with various organizations and competitively select subcontractors to help deliver various program elements. Intergy Corporation was selected as the primary facilitator for the current 2004-2005 Pomona Partnership Program and may be selected to continue assisting with the expanded 2006-2008 San Gabriel Valley Energy Efficiency Program. Other subcontractors may be utilized, as needed, to implement specific tasks within the program.

#### **13.5. Quality Assurance and Evaluation Activities**

A program representative will visit each completed installation site, with the visit expected to be within 15-30 days of the installation completion. The representative will have a list of the actual measures installed and will complete a verification report checklist. The representative also will confirm the type and approximate quantity of qualified energy efficient measures installed and will confirm that they are operational. In addition, the representative will visually check for problems such as missing light covers, exposed wiring, hazardous conditions, etc. The verification checklist will be completed and discrepancies will be noted. All discrepancies will be entered into the program-tracking database, and a corrective action work order will be issued to the subcontractor. Any installation issues that arise from the inspection will be noted; corrective action will be taken within ten working days. Issues and corrective action will be noted in the program's database and reports.

##### **13.5.1. Expected Number/Percent of Inspections**

SGVEEP plans to inspect 100% of the retrofit projects in City facilities.

#### **13.6. Marketing Activities**

SGVEEP will coordinate general awareness campaigns targeting residents and businesses to increase awareness of energy efficiency programs and of the importance of energy conservation in maintaining a healthy environment, reducing costs, and creating other economic benefits. Outreach events will further generate awareness and drive participation in energy programs offering low cost/no cost products, services and financial incentives. Event sponsors could include SCE, City, local community-based organizations, businesses, schools and others.

SGVEEP will utilize information and outreach materials available from existing programs. Existing marketing materials will be customized and/or co-branded for

distribution to San Gabriel Valley city residents and businesses. Distribution will be achieved through local networks and organizations.

SGVEEP will also participate in community events in the San Gabriel valley. Booths will be set up in these community events to distribute information about energy efficiency. These booths will include representatives from the Partnership to answer any questions about energy efficiency.

The Partnership will also engage in community events designed to increase participating in other local and statewide energy efficiency programs. The Government Energy Action Resources program will provide templates and other marketing materials to facilitate marketing and promotion of community 'sweeps' and other outreach events.

#### **14. Program Changes**

The PIP for this Partnership has been developed for this Compliance Filing.