

# **Southern California Gas Company Energy Efficiency Annual Report 2009 Results**



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# 2009 ENERGY EFFICIENCY PROGRAM PORTFOLIO SUMMARY

## Executive Summary

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### Overview

Southern California Gas Company's (SoCalGas) 2009 portfolio of programs included local and statewide efforts, city and county partnerships, and competitively bid third party programs. Although SoCalGas' focus was on achieving energy and demand reductions, the 2009 portfolio also included Customer Information/Education and Marketing and Outreach programs.

### Residential Programs

#### Advanced Home Program (AHP)

The AHP paid out incentives in 2009 which totaled more than the previous three years combined. The kWh, kW, and therms saved in 2009 were the single-best year in the history of the program. Even in one of the worst years for building permits in the SoCalGas service territory, the AHP managed to sign-up a record number of units for participation.

#### Home Energy Efficiency Survey (HEES)

For 2009, SoCalGas continued to offer the HEES in the three formats: Mail-in, Online, and In-Home. However, the In-Home HEES was officially discontinued at the end of 2009. SoCalGas exceeded expectations in the number of surveys conducted.

The program resulted in the following completed surveys:

- 664 Mail-In HEES completed
- 15,959 Online HEES completed
- 5979 In-Home HEES completed

#### Multi-family Energy Efficiency Retrofit (MFEER)

SoCalGas' 2009 MFEER Program fell below expected goals due to lower realization rates for the hot water and boiler controllers. As a result, SoCalGas continued its efforts to increase customer and contractor awareness. A large percentage of customers who participated in the program were those that chose to upgrade the hot water distribution systems, specifically boilers, central water heaters, and controllers. Working with a consultant, SoCalGas completed the first draft of a manual designed to improve the quality of central water heater and boiler controller installations. The manual and the associated seminars are targeting contractors participating in

installing the control measures for the program to improve the application of the controller usage.

### **Single Family Home Energy Efficiency Retrofit (SFEER)**

In 2009, SFEER exceeded expectations due to the success of the POS rebates and the distribution of the Energy Efficiency Kits. POS sale transactions were strong with participating POS retailers. Although overall appliance sales were down in 2009, aligning SoCalGas qualifying rebates with minimum Energy Star specifications made it easier for both the retailer and customer to identify appliances that were eligible for the rebate. Additionally, as a result of water rationing campaigns from the local water districts in SoCalGas service territory, requests for Energy Efficiency Kits either through SoCalGas events, joint programs with Southern California Edison (SCE), or municipality programs has also aided to the success of the 2009 SoCalGas SFEER Program.

## **Nonresidential Programs**

### **Statewide Express Efficiency (Express)**

In 2009, Express successfully achieved its goal for the year by keeping focused on replacing existing energy efficient natural gas equipment. The program encouraging customers to move up to higher than standard efficiency models when purchasing additional equipment for their established business. Several changes and enhancements were made to the program to increase participation, including increasing incentives and changing eligibility of high efficiency equipment. Additionally, for customer convenience, SoCalGas added an interactive PDF application for the Express Efficiency Program at [www.SoCalGas.com](http://www.SoCalGas.com).

### **Local Business Energy Efficiency Program (BEEP)**

In 2009, BEEP continued to be a program with significant energy savings results and helped to meet the needs of the commercial and industrial sectors in the SoCalGas service territory. BEEP was on target to meet its therm savings goal as one of the larger contributors to the portfolio.

### **Savings By Design (SBD)**

In 2009, SBD fell slightly short of expectation due to the change of program reporting from committed therm savings to installed therm savings. The lead times for non-residential, commercial, and industrial new construction projects were long due to the design process, the procurement of complicated equipment, permitting, and construction time.

## **Other Energy Efficiency Programs**

### **Codes & Standards**

Screening and prioritization of several topics CASE topics were completed with the final draft reports prepared and readied for presentation to the CEC. These studies were discussed with internal energy efficiency program staff, emerging technologies staff, other IOU's and the CEC.

CASE studies prepared for the 2011 standards for the following pending CEC availability and work load included:

- Hotel Key Card Controls
- Building Envelop Advanced Framing

### **Energy Efficiency Education & Training**

In light of new regulations, legislation, and local ordinances, the ERC Education & Training program aimed to provide the right mix of topics of major concern to customers. Additionally, the outreach efforts to draw customers to the ERC improved with the growth of email and online invitations. The attendance for technical seminars grew in 2009, following the trend of the previous year. Activities included:

- 186 Seminars
- 2 Nate Certification Training Sessions
- 271 Food Service Equipment Demonstrations/Mfg Workshops
- 1 Building Operator Certification (BOC) Level I

### **Delivery Channel Innovation (DCI)**

Enhancement of SoCalGas website continued to promote residential point-of-sale (POS) and mail-in rebates, energy efficiency, and green tips for homes. The combination of advertisements, news releases, advertorials, media, and utilizing resources such as Facebook and Twitter expanded SoCalGas' ability to reach more customers. SoCalGas also participated in over 221 events/trade shows that enabled DCI to distribute approximately 40,000 Energy Efficiency Kits. SoCalGas sponsored the "Change the World, Start with ENERGY STAR" campaign in 2009. SoCalGas co-sponsored this campaign with Southern California Edison (SCE) and Metropolitan Water District (MWD) and presented the ENERGY STAR Home Exhibit at the 2009 Los Angeles County Fair for five days.

On the Non-residential side, DCI continued to market to customers on a segmented basis through collateral materials and via the web. The web has divided the commercial and industrial market into 10 different segments so that customers looking for non-residential energy efficiency information can search by industry or by specific equipment type. Overall, approximately seven (7) pieces of segmented collateral was developed in 2009 for non-residential customers, including program specific collateral for *The Cool Planet* project.

### **Emerging Technologies (ET)**

Continuation of a number of assessments from the prior 2006-2008 program cycle marked much of the activity of the 2009 year as the first half was spent awaiting decisions about the launch of a new cycle. One area that made progress was that of "behavioral change" marketing and normative messaging. SoCalGas began to explore the effectiveness and persistent issues connected with these new programs with a consultant, attempting to alter energy consumption

patterns with information. In addition, the program worked with a manufacturer of a new cold water residential clothes washing detergent. Other key areas of investigation focused on warm mix asphalt, whole house audits (existing residential stock), hot water equipment options for food service, and a variety of other control and process alarm equipment addressing commercial and industrial markets. New water heaters, ozone laundry systems, steam trap alarms, and “liquid pool covers” were among the products under evaluation.

### **Flex Your Power Statewide Marketing**

The *Flex Your Power* brand was discontinued at the end of 2009. The statewide marketing and outreach program will be rebranded.

### **On-Bill Financing (OBF)**

Five OBF Loan Agreements were signed in 2009, totaling approximately \$258,000, representing projects, when completed that will contribute to natural gas savings of approximately 171,000 therms per year.

## **Partnership Programs**

### **Sustainable Communities – Santa Monica Demonstration**

This program was discontinued.

### **Ventura County Regional Energy Alliance (VCREA) Partnership**

During 2009, the partnership circulated six (6) newsletters; conducted six (6) public agency briefings, 19 trainings including four (4) Leadership in Energy and Environmental Design (LEED) Certification trainings for businesses, and two (2) energy efficiency residential design reviews; and participated in 14 community outreach events. Ventura County Partnership continued to emphasize approaches that reduced barriers to participation by providing technical support, project identification, project modeling, technical trainings, leadership briefings, library books and resource tools, website operation, and utility incentive/rebate information. Community events, newsletters, and collateral efforts were executed throughout 2009 to support energy efficiency, green building, carbon reduction, and climate change activities.

### **South Bay Cities Partnership**

The partnership coordinated with West Basin Municipal Water District to leverage resources from Metropolitan Water District’s (MWD) Enhanced Conservation Grant Program. This funneled direct install opportunities to the residential core program to install energy saving and water conservation measures for multi-family residential customers. SBESC signed up approximately 2,264 SoCalGas Energy Efficiency Kits requests in 2009. SBESC conducted nine (9) training workshops for the public sector and businesses, 15 residential trainings, and 109 community outreach events.



### **Bakersfield/Kern County Energy Watch Partnership**

For 2009, the partnership focused on identifying projects in municipal facilities and buildings for the 2010-2012 program cycle. SoCalGas worked with the County and member cities to retrofit municipal properties while integrating new cities joining the partnership.

### **Community Energy Partnership (CEP) – PEAK**

In the first quarter of 2009, demonstration projects for two community-based customers were completed. Both of these projects received a lot of press and praise in their communities. In 2009, CEP conducted a variety of initiatives that delivered both hard energy savings and community-wide education through attendance at community events, community marketing and outreach, and delivery of *Efficiency First!* presentations to targeted audiences. The program also delivered energy efficient products such as compact fluorescent light bulbs, low-flow showerheads, and low-flow faucet aerators at community outreach events.

### **Community Energy Partnership (CEP) – Direct Install**

By using elements of the 2006-2008 program design, CEP generated stream savings in 2009 through a variety of initiatives that delivered energy efficiency products into homes. These initiatives included residential energy efficiency tune-ups, torchiere lamp exchanges, and product distributions of energy efficient technology such as compact florescent light bulbs, low-flow showerheads, and low-flow faucet aerators at community outreach events. The program did not meet the tune up savings goal due to the limited opportunities for direct install measures. This may be partly as a result of saturation since the program has operated in the cities over the last five years. Additional market penetration would drive program costs far beyond cost effective requirements.

### **Los Angeles County Energy Efficiency Collaboration Partnership**

In 2009, the County Partnership completed several boiler retrofits in County facilities. The partnership also started the retro-commissioning of a major hospital, which will be completed in 2010.

### **Retro-commissioning (RCX)**

In 2009, the program was successful in providing comprehensive retro-commissioning service for six (6) shared-customer projects, which addressed both electric and gas energy efficiency optimization opportunities.

### **Palm Desert Partnership Demonstration Program**

Due to suspension of several programs, outreach and marketing continued to be limited during fourth quarter. Although the program is below expected forecast, the partnership has noticed a considerable reduction in overall natural gas consumption in the City.

## **Statewide Partnership Programs**

### **IOU/Community College Partnership**

The partnership continued successful program-wide management efforts, such as regular project status calls with customers, due diligence reviews, and monthly Management Team meetings to conduct the business of the Partnership at the management level. Several representatives from various community college districts across the state were invited to join the Management Team. In 2009, the CCC/IOU Partnership began conducting quarterly Executive Team Meetings to discuss overall program status and policy issues. Also, the partnership began offering incentives for new construction projects, utilizing the existing statewide Savings By Design program as support.

### **CA Department of Corrections and Rehabilitation Collaboration (CDCR)**

The overall program performance exceeded the original statewide energy savings goals for all metrics. In 2009, 11 projects were completed, of which electric savings were achieved at six (6) PG&E sites, three (3) SCE sites, and 1 SDG&E site. Gas savings were achieved at three (3) PG&E sites and one (1) site each for SoCalGas and SDG&E.

### **IOU/UC/CSU Partnership**

The 2009 IOU/UC/CSU Partnership Program continued as an extension of the 2006-2008 Program, as the need for a start-up effort was practically non-existent. Because customer awareness of the program and its offerings had already been established for several years, participation continued to occur at high levels. The partnership continued program-wide management efforts, such as regular project status calls with customers and due diligence reviews, Management Team meetings every three weeks to conduct the business of the Partnership at the management level, and quarterly Executive Team Meetings to discuss overall program status and policy issues. Also, the partnership began offering incentives for new construction projects, utilizing the existing statewide Savings By Design program as support. The partnership also worked with UC Office of the President to help implement and support UC's Strategic Energy Plan which significantly raised UC's contribution to energy savings results in 2009.

## **Third Party Programs**

### **Energy Efficiency Kiosk Program**

This pilot program was completed and closed.

### **Portfolio of the Future (PoF)**

In 2009, PoF continued to identify and evaluate new technologies for development of additional pilot programs and began filtering over 500 technologies in preparation for identifying Tier 1 and Tier 2 potential activities for 2010. In addition, PoF completed the development of a 3-year cycle scan process, scope, and budget. PoF and SoCalGas ET staff have developed and implemented processes for fully integrating PoF into SoCalGas' ET Program to improve

coordination and collaboration with SoCalGas and with other important technology organizations and partners.

### **PACE EE Ethnic Outreach**

Beginning in 2009, PACE Energy Savings Project added the Filipino community to its list of target ethnic groups. In addition, the program extended its outreach efforts beyond Los Angeles County to harder-to-reach areas such as Orange, Riverside, San Bernardino, and Ventura Counties. PACE Energy Savings Project also completed and surpassed a majority of its goals and assigned tasks during the year.

### **Custom Language Energy Outreach (CLEO)**

The program was designed to provide in-language residential efficiency outreach to hard-to-reach, middle to low income, underserved communities with a significant language barrier and language preference. In 2009, the program attempted to reach out to the middle to higher income ethnic customers with a language preference by hosting seminars in the cities of Irvine and Cerritos. The response, however, was not very encouraging as the attendance was slim compared to program attendance at events with customers from lower socioeconomic backgrounds. However, overall, the program exceeded its goals for the number of in language seminars, surveys, community booths, newspaper ads, and radio ads conducted.

### **Alliance Partners Program**

During 2009, the Alliance focused on continuing work on existing initiatives rather than starting anything new in order to assure that it could manage its costs within the authorized amount of the bridge funding agreement. In addition, pilot activities in the affordable housing and sustainable communities sectors were suspended due to economic pressures on the targeted pilot participants – primarily, developers.

### **Resource Action School Target LivingWise Program**

Program design and outreach were tremendously successful, with very high enrollment rates by teachers. Water agency support has continued to be strong, with almost half of the shipments having water funding.

### **California Mfg Tech VeSM Advantage Plus Program**

This program was discontinued.

### **Constant Volume Retrofit Program (CVRP)**

This program was discontinued.

### **Designed for Comfort (DfC)**

This program was discontinued.

### **Gas Cooling Upgrade Program**

During 2009, units up to 100 tons were approved and expanded the market for potential replacements. The program, however, fell short of its annual goal due to conditions such as the decreasing market share for smaller tonnage gas cooling, limited product selection, and uncertain future of gas rates.

### **Comprehensive Manufactured/Mobile Home Program**

Records show that the program year finished below the therm savings goal for the 2009 bridge funding period. This is the first time the program has been under what it was projected to be. The primary contributing factor to the lower than expected results is that fewer cost shared SoCalGas/Southern California Edison (SCE) duct seals were completed due to SCE budget restrictions.

### **Laundry Coin-Op Program (CLP)**

This program was discontinued.

### **Domestic Hot Water Control Program**

The program fell short of its annual goal. This shortfall was as a result of a several conditions;

- Transition from programs, thus restarting of marketing efforts;
- Changes in the contract to add/remove various components; and
- Poor economy has many end-use customers in a mode where they will make no decisions until business turns around.

### **EE for Entertainment Centers Program**

This program was discontinued.

### **On Demand Efficiency (ODE) Program**

Overall the ODE program was quite successful. The program has developed a reliable pipeline of program applications by leveraging contact with the pump distributor and ODE plumber network. The program met the goal for installations by September.

### **Smart Controls for Pools and Spas Program**

This program was discontinued.

### **Upstream High Efficiency Gas Water Heater Rebate and High Efficiency Hot Water Distribution Program**

The water heater rebate program exceeded its energy savings goal in 2009 while the boiler controller program fell short of its goal. However, overall, the two combined parts of the program almost met the total savings goals.

### **Energy Challenger Program**

The program completed 32 Energy Challenger assessments in 2009 with small and medium C&I customers. A key to the success of the program has been the short time to complete the assessment.

### **Multi-family Direct Therm Savings Program**

Customers were very receptive to the offer of new energy efficient devices at no cost, including installation. Especially during difficult economic times, property managers and owners were enthusiastic about ways to save on their utility bills. The chrome showerheads and swivel kitchen aerators were a big improvement over the existing devices, so most tenants were thrilled to have new fixtures. The elderly and tenants with children were particularly happy with the hand-held showerhead model.

## Program Descriptions and Strategies

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### SCG 3501 Codes and Standards Narrative

The Southern California Gas Codes and Standards (C&S) Program is a statewide program that promotes upgrades and enhancements in energy efficiency standards and codes. C&S program specifically supports the California Energy Commission's (CEC) periodic updates to the *Title 24 Building Energy Efficiency Standards* and *Title 20 Appliance Efficiency Standards*. Support to the CEC is provided in the form of Codes and Standards Enhancement (CASE) studies, expert testimony, research and analysis during the standards rulemaking process. C&S program managers also attend meetings conducted by American Society of Heating, Refrigerating and Air Conditioning Engineers, (ASHRAE) U.S. Green Building Council (USGBC), U.S. Department of Education (USDOE), and Canadian Standards Association (CSA), as part of monitoring activities of code setting bodies that impact the California standards. The program also supports implementation and compliance with the energy efficiency standards through targeted seminars and training. The program targets all market segments.

The coordination of statewide activities with the other investor-owned utilities (IOU's) was carried out on a regular basis. These activities included coordination meetings, sharing of information, and leveraging limited funds. As a result, duplication of efforts was eliminated, joint CASE studies were pursued, and discussions on compliance improvement plans for building, and appliance standards were undertaken.

Screening and prioritization of several topics CASE topics were completed with the final draft reports prepared and readied for presentation to the CEC. These studies were discussed with internal energy efficiency program staff, emerging technologies staff, other IOU's and the CEC. CASE studies prepared for the 2011 standards for the following pending CEC availability and work load included:

- Hotel Key Card Controls
- Building Envelop Advanced Framing

Work continues on the following CASE studies which should be ready for the 2011 standards, depending on the CEC's work load and availability:

- Commercial Gas Clothes Dryer
- Commercial Gas Convection Ovens
- Commercial Gas Radiant Heaters
- Solar Thermal Pool Heating
- Vented Gas Fire Places (co-fund with PG&E)

- Single Lever Water Faucets
- Prevention of Residential Multi Shower Heads

## **SCG3502 Advanced Home Program Narrative**

The Southern California Gas Company (SoCalGas) Advanced Home Program (AHP) promotes a comprehensive residential new construction concept with a focus on how to reduce carbon emissions through sustainable design and construction. Through a combination of education, design assistance, and financial support, the program works with the building and related industries to exceed compliance with the California *Code of Regulations, Title 24, Part 6, 2005 Building Energy Efficiency Standards for Residential and Nonresidential Buildings (Standards)*, to prepare builders for changes to the *Standards*, and to create future pathways beyond compliance and traditional energy savings objectives. Participation is open to single family, as well as low and high rise multi-family, residential new construction.

The AHP paid out incentives in 2009 which totaled more than the previous three years combined. The kWh, kW, and therms saved in 2009 were the single-best year in the history of the program. Even in one of the worst years for building permits in the SoCalGas service territory, the AHP managed to sign-up a record number of units for participation.

AHP focused on partnership and cooperation for success. The continued collaboration with Southern California Edison's AHP brought in extra therms that would otherwise be left unclaimed. This coordination enabled improved customer support as focus shifted away from a competitive to a cooperative nature. Additionally, SoCalGas' ongoing participation in Building Industry Association (BIA) and case studies continued to bring positive exposure to AHP.

In the next program cycle, SoCalGas will redesign AHP. SoCalGas has gone away from a two-tiered incentive structure and will instead utilize a sliding scale much like the Savings By Design Program. This sliding scale will pay more incentives the better the project achieves in savings over Title 24. This methodology was adopted by the statewide team and is intended to not only capture the most savings possible but also move the market towards the aggressive Big Bold Energy Strategy for Residential New Construction outlined in the California Energy Efficiency Strategic Plan.

## **SCG3503 Energy Efficiency Education & Training Narrative**

Southern California Gas Company's (SoCalGas) Energy Efficiency Education & Training Program is a non-resource program for disseminating energy efficiency practices, applications, and technologies to a variety of market and customer segments through SoCalGas' Energy Resource Center (ERC) and the Food Service Equipment Center (FSEC) in Downey. The goals of the program are to: 1) deliver expert, hands-on interaction with regard to energy efficiency technology and practices among SoCalGas customers; 2) present energy efficiency curriculum to a variety of midstream and upstream market professionals (e.g., architects, designers, engineers, distributors, managers, educators, contractors, and others) for their use in planning, administering and implementing; and 3) promote education and training among the contractors of SoCalGas administered third party and partnership programs that contribute toward

achievement of the SoCalGas energy savings goals. The ERC provides showcases and demonstrations of on-site, hands-on energy efficiency training and exhibitions, in conjunction with seminars and workshops specifically designed to promote information about energy efficiency programs and emerging technologies. A breadth of topics is covered with an expert panel of presenters which help breakdown customer market barriers concerning value, applicability, convenience, and asymmetric product information. The ERC offers an informative experience that can reinforce customer confidence in energy efficiency and influence customers to implement energy efficient measures.

In light of new regulations, legislation, and local ordinances, the ERC Education & Training program aimed to provide the right mix of topics of major concern to customers. Additionally, the outreach efforts to draw customers to the ERC improved with the growth of email and online invitations. The attendance for technical seminars grew in 2009, following the trend of the previous year. Activities included:

- 186 Seminars
- 2 Nate Certification Training Sessions
- 271 Food Service Equipment Demonstrations/Mfg Workshops
- 1 Building Operator Certification (BOC) Level I

The investor-owned energy centers continued to find methods for tracking post-course energy efficiency activity being conducted by attendees. SoCalGas implemented an electronic scantron system (elisten) to convert coded evaluation responses for the purpose of expanded analysis and evaluation of its events. The core resource programs document energy savings based on customer submission of applications and project packages. Thus, the ERC provided courses in residential and commercial construction, industrial plant assessment and process design improvements and information on green technologies, design, materials, and best practices that give customers options for saving energy and costs in projects and business operations. The ERC, along with the other CA-IOWs continued to evaluate models and studies that can validate energy savings that result from implementation of energy seminar and training sessions.

The Education & Training program prepares to grow program offerings, and to explore for future portfolio options into 2010-2012 which will include further investigation of energy savings contributions and green workforce development support. All work will evolve further through the 2010-2012 program period to identify more effective ways to attract and reach attendees, and to evaluate post-course energy efficiency activity for the purpose of measuring impacts.

## **SCG3504 Energy Efficiency Delivery Channel Innovation (DCI) Narrative**

The Southern California Gas Company (SoCalGas) Delivery Channel Innovation (DCI) Program is a local cross-cutting program to support all sectors (Residential, Non-Residential, New Construction, and Third Party Programs) created to increase customer understanding of



SoCalGas' energy efficiency portfolio and make adoption of energy efficiency measures and practices easier.

Enhancement of SoCalGas website continued to promote residential point-of-sale (POS) and mail-in rebates, energy efficiency, and green tips for homes. The combination of advertisements, news releases, advertorials, media, and utilizing resources such as Facebook and Twitter expanded SoCalGas' ability to reach more customers. SoCalGas also participated in over 221 events/trade shows that enabled DCI to distribute approximately 40,000 Energy Efficiency Kits. SoCalGas sponsored the "Change the World, Start with ENERGY STAR" campaign in 2009. SoCalGas co-sponsored this campaign with Southern California Edison (SCE) and Metropolitan Water District (MWD) and presented the ENERGY STAR Home Exhibit at the 2009 Los Angeles County Fair for five days.

On the Non-residential side, DCI continued to market to customers on a segmented basis through collateral materials and via the web. The web has divided the commercial and industrial market into 10 different segments so that customers looking for non-residential energy efficiency information can search by industry or by specific equipment type. Overall, approximately seven (7) pieces of segmented collateral was developed in 2009 for non-residential customers, including program specific collateral for *The Cool Planet* project.

DCI was a local cross-cutting program in 2009. However, in 2010, DCI will not be a stand-alone program because of company reorganization; instead, activities from DCI will be part of the SoCalGas' Communications Department. This change is an effort to streamline company messages beyond energy efficiency. SoCalGas will continue to expand its activities such as: supporting the ENERGY STAR "Change the World" goals; expanding retail partnerships by adding new "big box" retailers offering POS rebates; and continuing to host the annual Energy Efficiency Expo.

## **SCG 3506 Emerging Technologies (ET) Narrative**

Southern California Gas Company's (SoCalGas) Statewide Emerging Technologies (ET) program is a non-resource information/education program that seeks to accelerate the commercial introduction of energy efficient technologies, applications, and analytical tools that are not widely adopted into the California market.

Continuation of a number of assessments from the prior 2006-2008 program cycle marked much of the activity of the 2009 year as the first half was spent awaiting decisions about the launch of a new cycle. One area that made progress was that of "behavioral change" marketing and normative messaging. SoCalGas began to explore the effectiveness and persistent issues connected with these new programs with a consultant, attempting to alter energy consumption patterns with information. In addition, the program worked with a manufacturer of a new cold water residential clothes washing detergent. Other key areas of investigation focused on warm mix asphalt, whole house audits (existing residential stock), hot water equipment options for food service, and a variety of other control and process alarm equipment addressing commercial and industrial markets. New water heaters, ozone laundry systems, steam trap alarms, and "liquid pool covers" were among the products under evaluation.

Efforts to communicate and collaborate with investor-owned utilities (IOU) colleagues continued and will improve through regular ET Coordinating Council meetings throughout the year.

### **SCG3507 Express Efficiency Narrative**

The Southern California Gas Company (SoCalGas) Express Efficiency (Express) Program is an existing statewide rebate program targeting nonresidential customers to encourage adoption of selected energy efficient technologies. SoCalGas' program focuses on replacing existing energy efficient natural gas equipment, and encouraging customers to move up to higher than standard efficiency models when purchasing additional equipment for their established business. Express coordinates its activities with SoCalGas' Account Executives and Commercial and Industrial Service Technicians so as to present energy efficiency program details to SoCalGas customers during the course of their daily interactions..

In 2009, Express successfully achieved its goal for the year by keeping focused on replacing existing energy efficient natural gas equipment. The program encouraging customers to move up to higher than standard efficiency models when purchasing additional equipment for their established business. Several changes and enhancements were made to the program to increase participation, including increasing incentives and changing eligibility of high efficiency equipment. Additionally, for customer convenience, SoCalGas added an interactive PDF application for the Express Efficiency Program at [www.SoCalGas.com](http://www.SoCalGas.com).

SoCalGas will continue to investigate new measures and re-evaluate old measures and work papers to guarantee that the Energy Efficiency Rebates for Business (new 2010 statewide program name) program is running as efficiently as possible and is delivering maximum and accurate therm savings. It will target specific market segments in attempts to accommodate their market needs. SoCalGas will utilize facility benchmarking as a tool to help customers become aware of the efficiency of their commercial building and, in turn, make efforts in becoming more energy efficient. Finally, SoCalGas will continue to develop and refine its Vendor Participation Program, focusing efforts on recruiting, educating, and training vendors and manufacturers on program guidelines.

### **SCG3508 Flex Your Power Statewide Marketing Narrative**

The Flex Your Power statewide energy efficiency marketing and outreach program is an extension of the innovative and historically successful *Flex Your Power* public education and outreach effort initiated by the State of California in 2001. The program works in partnership with investor-owned utilities (IOU's); third parties and businesses; local, state, and federal agencies; water agencies; non-profits; and others with responsibilities for energy and water efficiency.

Strategies implemented in 2009 included advertisements through a variety of mediums (i.e. television, TV partnerships, radio, radio partnerships, outdoor/out-of-home billboards/buses, online and search, ethnic TV, radio, newspaper, website, and email) and outreach to commercial, industrial, governmental, and agricultural sectors via best practice guides, printed materials, and awards.

The *Flex Your Power* brand was discontinued at the end of 2009. The statewide marketing and outreach program will be rebranded.

## **SCG 3509 Home Energy Efficiency Survey Narrative**

The Southern California Gas Company (SoCalGas) Home Energy Efficiency Survey (HEES) program is a statewide residential audit program that provides residential customers the opportunity to participate in a Mail-In, Online, and In-Home energy analysis of their home. The primary intent of the program is to increase customer awareness of energy efficiency opportunities and prompt participation and greater crossover with the energy efficiency rebate programs.

For 2009, SoCalGas continued to offer the HEES in the three formats: Mail-in, Online, and In-Home. However, the In-Home HEES was officially discontinued at the end of 2009. SoCalGas exceeded expectations in the number of surveys conducted.

The program resulted in the following completed surveys:

- 664 Mail-In HEES completed
- 15,959 Online HEES completed
- 5979 In-Home HEES completed

SoCalGas continued to coordinate marketing efforts with Southern California Edison (SCE) resulting in the program having greater efficiencies and exceeded expectations. For example, SoCalGas collaborated on direct mail campaigns with SCE to reach customers. The program offered the installation of Energy Efficiency Kits for customers participating in the In- Home Survey which included a low-flow showerhead, faucet aerators, and a compact fluorescent light bulb. In addition, customers completing the Mail-In or Online survey were sent Energy Efficiency Kits as a reward for completing the survey. The Energy Efficiency Kit promotion proved to be very successful, boosting program results. To improve service to SoCalGas customers outside of SCE's service territory, SoCalGas worked to develop partnerships with municipal utilities to offer HEES to those customers.

SoCalGas plans to continue its SCE partnership and will work to develop more relations with municipal utilities in Southern California. Furthermore, SoCalGas and SCE plan on working with the program's mutual vendor to improve the HEES survey, as well as adding a Multi-Family property survey. The Multi-Family survey will allow SoCalGas to target a new residential customer segment. The survey will provide savings and efficiency information regarding common areas and provide information regarding available programs.

## **SCG3510 Multi-family Energy Efficiency Retrofit Narrative**

The Southern California Gas Company (SoCalGas) SoCalGas Multi-Family Energy Efficiency Retrofit (MFEER) Program is a statewide program that targets property owners and managers of

multi-family residential dwellings, homeowner's associations, and mobile home park associations. The program encourages property owners and managers to install qualifying energy efficiency products in common areas for residential apartments, mobile home parks, and condominium complexes.

SoCalGas' 2009 MFEER Program fell below expected goals due to lower realization rates for the hot water and boiler controllers. As a result, SoCalGas continued its efforts to increase customer and contractor awareness. A large percentage of customers who participated in the program were those that chose to upgrade the hot water distribution systems, specifically boilers, central water heaters, and controllers. Working with a consultant, SoCalGas completed the first draft of a manual designed to improve the quality of central water heater and boiler controller installations. The manual and the associated seminars are targeting contractors participating in installing the control measures for the program to improve the application of the controller usage.

Additionally, SoCalGas' program staff worked with its engineering group to explore other measures that could yield savings and increase efficiencies for customers. Visits to manufacturer sites were also conducted to further explore the viability of new measures.

In the next program cycle, SoCalGas will work with Southern California Edison (SCE) and a consultant to create a Multi-family Home Energy Efficiency Survey. The survey will target multi-family property owners and managers to provide information regarding energy efficiency in common areas as well as individual units.

## **SCG 3513 Local Business Energy Efficiency Program Narrative**

Southern California Gas Company's (SoCalGas) Local Business Energy Efficiency Program (BEEP) targets all non-residential customers, including commercial, industrial, and agricultural customers. This program consists of five program elements:

- Efficient Equipment Rebate Program
- Process Equipment Replacement Program
- Custom Process Improvement Program
- The "Grant Program"
- The "Recognition Program"

In 2009, BEEP continued to be a program with significant energy savings results and helped to meet the needs of the commercial and industrial sectors in the SoCalGas service territory. BEEP was on target to meet its therm savings goal as one of the larger contributors to the portfolio.

The strategy that was the most successful in producing results was working closely, in a one-on-one basis, with customers to identify opportunities that both produce energy savings and help meet SoCalGas customer's operating needs.

SoCalGas plans to meet the Commission's portfolio goals in the coming year by focusing on the market segments which target all non-residential customers, including commercial, industrial, and agricultural customers. This program will focus on efficient equipment replacement as well as custom process improvements to increase efficiency gains. New construction, utilizing the systems approach, will help to expand the breadth of the calculated program in 2010–2012 and open new avenues.

The elements of BEEP will be part of the new Energy Efficiency Calculated Incentive Program for the 2010-2012 program cycle. The program is designed with multiple program elements to enable the creation of customized energy efficiency solutions for a wide range of customers. Combining the elements into one program also minimizes administrative costs and increases cross-element coordination since the same implementation staff delivers all five elements of this program.

### **SCG3514 On-Bill Financing (OBF) Narrative**

The Southern California Gas Company (SoCalGas) On-Bill Financing (OBF) Program is a local program designed to facilitate the purchase and installation of qualified energy efficiency measures by customers who might otherwise not be able to act given capital, administrative, and time constraints to participation.

Five OBF Loan Agreements were signed in 2009, totaling approximately \$258,000, representing projects, when completed that will contribute to natural gas savings of approximately 171,000 therms per year.

OBF is a non-resource program designed primarily to facilitate the purchase and installation of comprehensive, qualified energy efficiency measures by customers who might otherwise not be able to act given capital constraints or other barriers. Strategies successfully implemented in 2009 to enhance program offerings and encourage program participation included: 1) increasing loan ceiling from \$100,000 to \$250,000 for taxpayer-funded institutional customers and from \$50,000 to \$100,000 for non-institutional customers; 2) eliminating the \$500 or 10% reduction in rebates/incentives, and 3) allowing noncore customers to qualify for OBF.

Plans to increase OBF participation and help to meet Commission's portfolio goals in the coming year include: 1) working closely with Partnership programs to identify and recruit potential taxpayer-funded institutional OBF customers, 2) incorporating OBF outreach efforts with rebate/incentive programs to targeted market segments with the most cost effective energy efficiency projects as well as vendors and/or manufacturers whose energy efficient equipment potentially could qualify for OBF, and 3) beginning collaboration with Southern California Edison (SCE) to develop a process to offer OBF jointly to qualified customers with gas and electric energy efficiency opportunities.

### **SCG 3516 Sustainable Communities – Santa Monica Demonstration Narrative**

Due to the economic environment, the Sustainable Communities Program has not been able to launch any activities beyond planning and was discontinued in 2008

## **SCG 3517 Single Family Home Energy Efficiency Retrofit Narrative**

The Single Family Energy Efficiency Retrofit (SFEER) Program is an existing statewide program designed to help Southern California Gas Company (SoCalGas) residential customers reduce their natural gas energy usage by replacing inefficient appliances with new energy-efficient appliances, weatherizing their homes, and installing measures in the Energy Efficiency Kit; point-of-sale (POS) rebates; customer information, education, marketing, and outreach; and the use of trade allies, manufacturers, retailers, and distributors to deliver information, measures, and rebates.

In 2009, SFEER exceeded expectations due to the success of the POS rebates and the distribution of the Energy Efficiency Kits. POS sale transactions were strong with participating POS retailers. Although overall appliance sales were down in 2009, aligning SoCalGas qualifying rebates with minimum Energy Star specifications made it easier for both the retailer and customer to identify appliances that were eligible for the rebate. Additionally, as a result of water rationing campaigns from the local water districts in SoCalGas service territory, requests for Energy Efficiency Kits either through SoCalGas events, joint programs with Southern California Edison (SCE), or municipality programs has also aided to the success of the 2009 SoCalGas SFEER Program.

SoCalGas will continue to explore opportunities of adding new measures to the existing residential portfolio such as the cold water wash default clothes washer. SoCalGas will also continue to increase POS participation for retailers who carry high efficiency clothes washers, dishwashers, and natural gas water heaters. SoCalGas will continue to work with IOU's and local municipalities to provide opportunities for joint rebates or promotion of the Energy Efficiency Kits.

SoCalGas is also looking to introduce an online application to minimize processing time experienced from existing mail-in applications.

## **SCG3518 Community Colleges/IOU Collaboration Partnership Narrative**

The California Community Colleges/Investor-Owned Utility (CCC/IOU) Collaboration Partnership Program is a unique, statewide program to achieve immediate and long-term energy savings and peak demand reduction within California's higher education system.

The partnership continued successful program-wide management efforts, such as regular project status calls with customers, due diligence reviews, and monthly Management Team meetings to conduct the business of the Partnership at the management level. Several representatives from various community college districts across the state were invited to join the Management Team. In 2009, the CCC/IOU Partnership began conducting quarterly Executive Team Meetings to discuss overall program status and policy issues. Also, the partnership began offering incentives for new construction projects, utilizing the existing statewide Savings By Design program as support.

As 2009 was a difficult year for the California state budget, and the CCC/IOU Partnership serves a state-funded institution, there was an obvious strain on the customer's ability to deliver savings. In addition to extraneous budgetary constraints, community colleges tended to operate without a full time resource devoted to energy use in campus facilities, which made it difficult to prioritize energy efficiency over other facility concerns.

### **SC3519 CA Department of Corrections and Rehabilitation (CDCR) Collaboration Narrative**

The California Department of Corrections and Rehabilitation/Investor-Owned Utility (CDCR/IOU) Energy Efficiency Partnership is a customized statewide energy efficiency program that accomplishes immediate, long-term peak energy and demand savings, and establishes a permanent framework for a sustainable, long-term, comprehensive energy management program at the CDCR institutions served by California's four large IOU's; Pacific Gas and Electric (PG&E), Southern California Edison (SCE), Southern California Gas (SoCalGas), San Diego Gas and Electric (SDG&E).

The overall program performance exceeded the original statewide energy savings goals for all metrics. In 2009, 11 projects were completed, of which electric savings were achieved at six (6) PG&E sites, three (3) SCE sites, and 1 SDG&E site. Gas savings were achieved at three (3) PG&E sites and one (1) site each for SoCalGas and SDG&E.

The partnership's continued use of a dedicated group of Energy Service Companies (ESCO) to provide turnkey installation service remained a successful delivery mechanism. The majority of the savings achieved in 2009 were attributed to ESCO projects. Additionally, the CDCR leveraged incentive funds from recently completed projects to purchase materials for projects that could be installed by site staff. This approach focused on induction lighting technology and leverages both incentive funds to propagate additional energy efficiency projects and leveraged the organic capacity of CDCR electricians to install projects. This approach resulted in an additional three (3) projects completed in 2009, with more planned for 2010 and beyond.

The primary problem encountered with the CDCR/IOU Partnership was the lack of available funding for projects. Due to budget crisis and the subsequent poor credit rating of the state, the lending market for CDCR projects disappeared, and the GS \$Mart program closed. Fortunately, CDCR had secured funding prior to this and projects were executed in 2009, but future funding will present challenges in the near term.

### **SCG3520 IOU/UC/CSU Partnership Narrative**

The Investor-Owned Utility/University of California/California State University (IOU/UC/CSU) Energy Efficiency Partnership is a unique, statewide program to achieve immediate and long-term energy savings and peak demand reduction within California's higher education system. It targets comprehensive energy management at campuses served by California's four IOU's.

The 2009 IOU/UC/CSU Partnership Program continued as an extension of the 2006-2008 Program, as the need for a start-up effort was practically non-existent. Because customer awareness of the program and its offerings had already been established for several years,

participation continued to occur at high levels. The partnership continued program-wide management efforts, such as regular project status calls with customers and due diligence reviews, Management Team meetings every three weeks to conduct the business of the Partnership at the management level, and quarterly Executive Team Meetings to discuss overall program status and policy issues. Also, the partnership began offering incentives for new construction projects, utilizing the existing statewide Savings By Design program as support. The partnership also worked with UC Office of the President to help implement and support UC's Strategic Energy Plan which significantly raised UC's contribution to energy savings results in 2009.

In 2009, the partnership implemented a new online project tracking tool that gave a much deeper and more accurate view into the status of individual projects and the program as a whole. This tool enabled program management to not only view real-time, detailed project schedules, but also to create high level reports that show the overall status of the program.

As 2009 was a difficult year for the California state budget, and the UC/CSU Partnership serves state-funded institutions, there was an obvious strain on the customer's ability to deliver savings. For example, CSU's capital funding allocation was frozen, and as a result, many projects that were expected to deliver savings in 2009 were ordered to stop construction until funding becomes available in 2010.

## **SCG3521 Ventura County Regional Energy Alliance Energy Efficiency Partnership Narrative**

The Ventura County Partnership is an alliance between the Ventura County Regional Energy Alliance (VCREA), Southern California Edison Company (SCE), and Southern California Gas Company (SoCalGas). The program builds on VCREA's progress to date to further develop its core capabilities, to complete the development of its Energy Resource Center capability, and to implement a targeted Public Sector Program of energy savings for public agencies throughout the Ventura County region. This effort utilizes the strengths of the VCREA and its utility partners to jointly overcome identified participation barriers, better serve local needs and hard-to-reach customers, and increase participation among all public agencies and non-profit organizations in the region to advance energy efficiency programs.

During 2009, the partnership circulated six (6) newsletters; conducted six (6) public agency briefings, 19 trainings including four (4) Leadership in Energy and Environmental Design (LEED) Certification trainings for businesses, and two (2) energy efficiency residential design reviews; and participated in 14 community outreach events. Ventura County Partnership continued to emphasize approaches that reduced barriers to participation by providing technical support, project identification, project modeling, technical trainings, leadership briefings, library books and resource tools, website operation, and utility incentive/rebate information. Community events, newsletters, and collateral efforts were executed throughout 2009 to support energy efficiency, green building, carbon reduction, and climate change activities.

Lack of funding for energy savings projects remains to be a major challenge for local governments. The partnership intends to leverage the On-Bill Financing offering wherever possible to increase participation.



## **SCG 3522 South Bay Cities Partnership Narrative**

The South Bay Partnership is a non-resource program that provides an energy resource center, the South Bay Environmental Services Center (SBESC). The program supports 15 local governments of the South Bay and their communities in providing assistance to public agencies, businesses, and local communities on energy project identification and implementation, energy information, training, and education.

The Energy Efficiency Plus (EE+) element of the program continued to provide technical assistance during 2009 to public agencies and businesses. EE+ helped to: identify and implement energy efficiency measures; provide access to statewide and local energy efficiency rebates to realize hard energy savings; and provide information for funding such projects including leveraging access to Federal stimulus funding.

The partnership coordinated with West Basin Municipal Water District to leverage resources from Metropolitan Water District's (MWD) Enhanced Conservation Grant Program. This funneled direct install opportunities to the residential core program to install energy saving and water conservation measures for multi-family residential customers. SBESC signed up approximately 2,264 SoCalGas Energy Efficiency Kits requests in 2009. SBESC conducted nine (9) training workshops for the public sector and businesses, 15 residential trainings, and 109 community outreach events.

The economic downturn impacted significantly on local governments' resources to implement energy efficiency. Tax revenue is down; budgets are cut. Local governments are experiencing budget challenges to implement EE projects.

## **SCG 3523 Bakersfield/Kern County Energy Watch Narrative**

The Bakersfield and Kern County Energy Watch (BKCEW) Partnership has built on the success of the 2004-2005 partnership. This partnership is a unique cooperative effort of Pacific Gas and Electric Company (PG&E), Southern California Edison (SCE), Southern California Gas Company (SoCalGas), the County of Kern, and the City of Bakersfield. Partnership offerings are available to residents, businesses, and municipalities of the City of Bakersfield and Kern County.

For 2009, the partnership focused on identifying projects in municipal facilities and buildings for the 2010-2012 program cycle. SoCalGas worked with the County and member cities to retrofit municipal properties while integrating new cities joining the partnership.

While retrofit projects and retro-commissioning projects were identified and initially approved to move forward, the County, and Cities opted to wait for Energy Efficiency and Conservation Block (EECGB) funding to move forward. As a result, most projects were delayed into 2010 and beyond.

## **SCG3524 Community Energy Partnership – PEAK Narrative**

The Community Energy Partnership (CEP) Program delivers sustainable energy efficiency services to communities across Southern California. The CEP currently includes seven partner

cities: Brea, Corona, Irvine, Moreno Valley, San Bernardino, Santa Clarita, and Santa Monica; two investor-owned utility (IOU) partners: Southern California Edison (SCE) and Southern California Gas Company (SoCalGas); and The Energy Coalition as a facilitating partner. This program provides education which takes place through various channels including energy rallies, demonstration projects, outreach at community events, and PEAK Student Energy Actions. PEAK Student Energy Actions is an educational program that empowers students, through real-world applications, to effectively manage their energy future. The foundational concept behind PEAK is that in order to truly empower students to manage energy use, they must understand the entire energy equation—from the science of how energy is created to the environmental impact of generating electricity to the energy bills of a family. Students learn to value energy and to promote sustainable energy use in their homes, schools, and in the community through the use of four PEAK Student Energy Actions:

- Plugging into new and efficient technologies;
- Shrinking use through conservation;
- Shifting use off peak hours; and
- Exploring renewable energy.

In the first quarter of 2009, demonstration projects for two community-based customers were completed. Both of these projects received a lot of press and praise in their communities. In 2009, CEP conducted a variety of initiatives that delivered both hard energy savings and community-wide education through attendance at community events, marketing, outreach, and delivery of *Efficiency First!* presentations to targeted audiences. The program also delivered energy efficient products such as compact fluorescent light bulbs, low-flow showerheads, and low-flow faucet aerators at community outreach events.

One barrier encountered by this program is that the school district curriculum schedule is not aligned with EE Program Cycle. This poses challenges in PEAK implementation and reporting in line with EE Program. Opportunity to enhance PEAK curriculum design exists to improve PEAK implementation.

### **SCG3525 Community Energy Partnership – Direct Install Narrative**

The Community Energy Partnership (CEP) Program that delivers sustainable energy efficiency services to communities across Southern California. The CEP currently includes seven Partner Cities: Brea, Corona, Irvine, Moreno Valley, San Bernardino, Santa Clarita, and Santa Monica; two Utility Partners: Southern California Edison (SCE) and Southern California Gas Company (SoCalGas); and The Energy Coalition as a Facilitating Partner. The Partner Cities, Utility Partners, and The Energy Coalition work in collaboration to deliver cross-cutting energy savings and create awareness about energy efficiency among multiple market segments, including municipal, residential, and non-residential. The CEP program is purposefully broad and continually evolving to capture opportunities to build relationships between the utility partners and the partner cities in order to improve delivery of energy services to end-users.

By using elements of the 2006-2008 program design, CEP generated stream savings in 2009 through a variety of initiatives that delivered energy efficiency products into homes. These

initiatives included residential energy efficiency tune-ups, torchiere lamp exchanges, and product distributions of energy efficient technology such as compact florescent light bulbs, low-flow showerheads, and low-flow faucet aerators at community outreach events. The program did not meet the tune up savings goal due to the limited opportunities for direct install measures. This may be partly as a result of saturation since the program has operated in the cities over the last five years. Additional market penetration would drive program costs far beyond cost effective requirements.

While in this transition period, the CEP is also prepared for the new 2010-2012 funding cycle, which will include an emphasis on energy efficiency retrofit projects of municipal facilities, activities that support the California Long Term Energy Efficiency Strategic Plan, and coordination of utility core programs to Partner City communities.

### **SCG3527 Los Angeles County Energy Efficiency Partnership Narrative**

The 2009 County of Los Angeles (County) Energy Efficiency Partnership was a continuation of the successful partnership implemented in 2006-2008. The partnership team consists of the County of Los Angeles Internal Services Division (LAC/ISD) and the Investor-Owned Utilities (IOU's): Southern California Edison (SCE) and Southern California Gas Company (SoCalGas). The partners applied the lessons learned from its previous project implementation experience, as well as from other existing, successful partnership programs.

In 2009, the County Partnership completed several boiler retrofits in County facilities. The partnership also started the retro-commissioning of a major hospital, which will be completed in 2010.

Due to the complex nature of completing retro-commissioning in large medical facilities, therm savings which were anticipated to occur in 2009 will be realized in 2010.

### **SCG3528 Retro-commissioning (RCx) Narrative**

The Retro-commissioning (RCx) Program is a unique energy efficiency effort aimed at cost-effective energy savings. The program is designed to expand building system optimization and RCx capabilities in the joint Southern California Edison (SCE) and Southern California Gas (SoCalGas) service territories with program features that directly address market barriers, as well as to ensure the persistence of the program benefits. These objectives are met through: the development of building and owner/operator candidate screening protocols; use of specific building system optimization and RCx protocols; building operator and commissioning provider training; and building operation tracking systems. Additional management tools will be used to keep the project on schedule and to assist with program and project budgeting. Furthermore, to effectively market the program services, the program will leverage existing relationships among building owners, participation in other SoCalGas retrofit programs, participants in the Building Operator Certification (BOC) program, and local governments.

In 2009, the program was successful in providing comprehensive retro-commissioning service for six (6) shared-customer projects, which addressed both electric and gas energy efficiency optimization opportunities.

To address this issue, a proposed solution that included standardizing energy savings calculation methodologies, ensuring consistent analysis of buildings systems and equipment, and creating a tiered protocol for calculating energy savings. The goal is to successfully implement these recommendations to not only increase retention of service providers, but to also reduce overall program cost and improve the consistency and efficiency of program delivery.

Planned program changes for the 2010-2012 program cycle will incorporate the use of new simplified pre-calculations developed by engineers from both SCE and SoCalGas to implement a standardized methodology for calculating energy savings for low-impact energy-saving measures. The purpose of this undertaking is to minimize the time-consuming custom calculations previously done by service providers. A collaborative statewide IOU effort to create common calculation tools will enhance the delivery of RCx services to customers.

### **SCG3529 Energy Efficiency Kiosk Pilot Program Narrative**

The Energy Efficiency Kiosk Pilot Program was completed and closed. This program was a pilot program designed to install 20 kiosks at banks or lending institutions, as well as four static (non-kiosk) displays. All deliverables were completed by the end of 2008 when the program ended.

### **SCG 3530 Portfolio of the Future (PoF) Narrative**

The Portfolio of the Future (PoF) is a non-resource program aimed at filling the gap between existing technology offerings (i.e., measures) in Southern California Gas' (SoCalGas) portfolio and new, emerging technologies. PoF identifies and evaluates emerging natural gas efficiency technologies and new business models to identify candidate natural gas applications in all sectors (agricultural and urban - residential, commercial, industrial and institutional) for possible inclusion in SoCalGas' portfolio. Technologies and new business models are evaluated through a screening process that includes a detailed set of weighted criteria developed by PoF in conjunction with SoCalGas' Emerging Technology (ET) staff. High potential opportunities are jointly selected by SoCalGas' ET and PoF. Detailed work plans are then developed for each technology that passes the screening process and is deemed "program ready" or "near program ready." Selected technologies and new business models may go through demonstration testing, field study and evaluation, market assessments, and other forms of technology support and vetting to test their readiness. Those that are deemed program ready are then documented for inclusion in SoCalGas' portfolio as new gas efficiency technologies/measures.

In 2009, PoF continued to identify and evaluate new technologies for development of additional pilot programs and began filtering over 500 technologies in preparation for identifying Tier 1 and Tier 2 potential activities for 2010. In addition, PoF completed the development of a 3-year cycle scan process, scope, and budget.

PoF and SoCalGas ET staff have developed and implemented processes for fully integrating PoF into SoCalGas' ET Program to improve coordination and collaboration with SoCalGas and with other important technology organizations and partners.

Several barriers/concerns were encountered that have become part of lessons learned and process improvements for future years. In particular: (1) The amount of time for recruiting and

implementing demonstration or field testing was longer than expected. Several demonstration site partners needed to vet their participation with higher management which delayed project start-up. In other cases, it took longer than expected for corporate partners to work with PoF, even when their senior management had already agreed to participate in the project. Also, several partners changed their minds mid-stream about participating in technology demonstrations, requiring PoF to search for new partners. (2) Many technology suppliers were difficult to work with for various reasons: some were too small or too R&D oriented, and others did not understand the importance of proving the benefits of their technology to SoCalGas and the market.

### **SCG3531 PACE Energy Efficiency Ethnic Outreach Narrative**

PACE's Energy Efficiency Ethnic Outreach Program (PACE Energy Savings Project) actively promotes energy efficiency programs of Southern California Gas Company (SoCalGas) among its ethnic minority communities and customers. These communities have historically exhibited low participation rates due in part to language and cultural barriers. To mediate this, PACE conducts in language ethnic outreach among residential, multi-family, and small businesses that belong to the Chinese, Korean, Vietnamese, and Hispanic communities. PACE assists qualified SoCalGas customers in completing the online or paper Home Energy and Water Efficiency Survey (HEES), explaining simple ways to reduce energy use, providing information about available residential and small business rebate, and promoting other energy efficiency seminars, workshops and training conducted at the utility's Energy Resource Center (ERC).

Beginning in 2009, PACE Energy Savings Project added the Filipino community to its list of target ethnic groups. In addition, the program extended its outreach efforts beyond Los Angeles County to harder-to-reach areas such as Orange, Riverside, San Bernardino, and Ventura Counties. PACE Energy Savings Project also completed and surpassed a majority of its goals and assigned tasks during the year.

PACE Energy Savings Project completed and surpassed a majority of its goals and assigned tasks during the year:

- Assisted customers in completing 3,630 paper (101%) and 803 online surveys (100%);
- Distributed 5,000 Energy Efficiency Kits (100%) to 4,500 single family residential customers and 500 multi-family residential customers;
- Signed up 5,000 (100%) customers to participate in energy savings programs;
- Participated in 43 ethnic community events (287%) to bring energy efficiency information to target ethnic customers;
- Signed up a total of 1,325 target small business owners and/or managers to participate in rebate and other energy-efficiency programs;
- Conducted outreach activities for 500 (100%) foodservice owners and operators (100%) to promote energy efficiency practices in the kitchen, as well as encourage participation in seminars, workshops and other training conducted at the ERC;

- Featured in two ethnic television shows and two newspaper publications (100%).

The program's success can be attributed directly to PACE fielding outreach specialists that:

- Presented the information directly to the members of the target community, facilitating access to the programs by participating in ethnic community events. By making the information accessible to community members in events and social, trade, religious or educational gatherings, the program increased the opportunities of these under-participating customers to learn about the program benefits;
- Conducted presentations in the native ethnic language that the target community members are comfortable in;
- Coordinated with formal and informal leaders of the community, which lent credibility to the outreach activities.

### **SCG3532 Custom Language Efficiency Outreach (CLEO) Narrative**

The Custom Language Efficiency Outreach (CLEO) Program is a non-resource, residential energy efficiency program that is a local, highly-targeted program which targets hard-to-reach, Vietnamese, Indian, Chinese, and Korean Southern California Edison (SCE) and Southern California Gas Company (SoCalGas) residential customer. The program markets SCE and SoCalGas energy efficiency programs, education, and training using local ethnic media (radio and newspapers), business organizations, and community events. The program's marketing efforts garner interest for and lead to participation in CLEO seminars and energy audits. CLEO targets joint SCE and SoCalGas customers in the areas of Los Angeles, San Bernardino, and Orange Counties with higher demographics of Asian customers.

The program was designed to provide in-language residential efficiency outreach to hard-to-reach, middle to low income, underserved communities with a significant language barrier and language preference. In 2009, the program attempted to reach out to the middle to higher income ethnic customers with a language preference by hosting seminars in the cities of Irvine and Cerritos. The response, however, was not very encouraging as the attendance was slim compared to program attendance at events with customers from lower socioeconomic backgrounds. However, overall, the program exceeded its goals for the number of in language seminars, surveys, community booths, newspaper ads, and radio ads conducted.

CLEO's community outreach built on its success in the Chinese community to expand its target population to Indian, Vietnamese and Korean customers. CLEO also extended the program to churches, senior centers, after- hour language and local elementary schools, and green efficiency partnerships with local cities. This has ensured a well rounded community program with a residential efficiency outreach serving the hard to reach, underserved communities with a significant language barrier and language preference. CLEO's Vietnamese, Indian, Chinese, and Korean staff have built significant relationships with community leaders, city mayors, council members, local media, adult day-care centers, and community centers.

### **SCG3533 Alliance Partners Program Narrative**

The Alliance Partners Programs, also known as the California Sustainability Alliance (Alliance) Program, is designed to increase and accelerate adoption of energy efficiency by packaging it with complementary "sustainability" measures. The scope includes multiple projects and programs, all dedicated towards (1) advancing and promulgating the body of sustainability best practices, tools and techniques; (2) leveraging the collective resources of all partners -- both public and private; local, state and federal; and (3) developing educational and outreach materials to widely disseminate the body of emerging and existing best practices.

During 2009, the Alliance focused on continuing work on existing initiatives rather than starting anything new in order to assure that it could manage its costs within the authorized amount of the bridge funding agreement. In addition, pilot activities in the affordable housing and sustainable communities sectors were suspended due to economic pressures on the targeted pilot participants – primarily, developers.

During 2009, the Alliance continued to build the sustainability value proposition through its Sustainability Showcase. Awards were presented in February 2009 to three organizations that displayed sustainability leadership, exemplified through market leading policies, programs and practices. In fall 2009, the Alliance called for nominations for its 2010 Sustainability Showcase. As a result of that competitive process, seven organizations were selected for inclusion in the Alliance's web-based Showcase.

Most of the Alliance's activities during 2009 were focused on marketing, education, and outreach. Consequently, there was no particular implementation barriers encountered last year, except for the bridge funding budgetary constraints that required that the Alliance defer starting up any new activities.

In general, however, there are many barriers to adoption of energy efficiency and sustainability – the Alliance's primary goal is to overcome these barriers to achieve market transformation. While some barriers are financial, many are related to other factors such as long-standing and deeply-rooted opinions, perspectives, and institutional barriers. Barriers to sustainability adoption encountered by California's local governments were documented in the Alliance's 2009 local government surveys.

### **SCG3534 Resource Action School Target LivingWise Narrative**

The School Targeted LivingWise™ (LivingWise™) Program is a residential savings and education program delivered through sixth grade classes. LivingWise™ combines classroom learning with home retrofit and audit projects completed by students and parents.

Program design and outreach were tremendously successful, with very high enrollment rates by teachers. Water agency support has continued to be strong, with almost half of the shipments having water funding.

Agreements were finalized in the first quarter, and the program was then rolled out to schools. The delay was a hindrance, as water agency co-sponsors were forced to wait for the energy utility funding to become available. Overall, the higher water agency participation requirements

and goals were a challenge to program rollout. A combination of the program launch delays (from finalizing the bridge funding) and economic factors had the biggest impact.

### **SGC3535 California Mfg Tech VeSM Advantage Plus Narrative**

The VeSM Advantage Plus™ Program was discontinued. This program did not meet its therm savings goals, even after re-evaluating their marketing strategy several times. The high turnover in program management also contributed to the decision not to renew this program.

### **SCG3536 Constant Volume Retrofit Program Narrative**

The Constant Volume Retrofit Program (CVRP) Program was discontinued because the contractor pulled out of this extremely specialized program. In addition, the potential for therm savings was limited and, therefore, resulted in this program ending at the close of 2008.

### **SCG3537 Designed for Comfort Narrative (DfC) Narrative**

The Designed for Comfort (DfC) Program was discontinued. This was a cofunded program between Southern California Edison (SCE) and Southern California Gas (SoCalGas). The program was unable to meet its target energy goal and was not going to be renewed by SCE in the same format. As a result, SoCalGas chose not to pursue an extension of the multi-family retrofit program on its own.

### **SCG3538 Gas Cooling Upgrade Narrative**

Gas cooling units are installed in homes and small businesses throughout the Southern California Gas (SoCalGas) service territory. These units are old and may fail soon, so customers are entering the market and may replace the units. The Gas Cooling Upgrade Program works to ensure the replacement of these old existing units and transition to new, high efficiency gas air conditioning equipment instead of alternative technologies.

During 2009, units up to 100 tons were approved and expanded the market for potential replacements. The program, however, fell short of its annual goal due to conditions such as the decreasing market share for smaller tonnage gas cooling, limited product selection, and uncertain future of gas rates.

### **SCG3539 Comprehensive Manufactured/Mobile Home Narrative**

The Comprehensive Manufactured/Mobile Home Program is designed to provide energy efficient gas measures on a comprehensive basis to manufactured and mobile home customers in the Southern California Gas (SoCalGas) service territory. These energy efficient gas measures include duct test and seal, pipe wrap, faucet aerators and low flow showerheads.

Records show that the program year finished below the therm savings goal for the 2009 bridge funding period. This is the first time the program has been under what it was projected to be. The primary contributing factor to the lower than expected results is that fewer cost shared SoCalGas/Southern California Edison (SCE) duct seals were completed due to SCE budget restrictions.



The marketing and outreach personnel diversified their efforts to personally canvass mobile home parks door to door to increase program interest and saturation. Many customers were able to schedule their appointments for installation directly from these personal one-on-one meetings as well as at the neighborhood meetings.

### **SCG3540 Laundry Coin-op Program (CLP) Narrative**

The Laundry Coin-Op Program (CLP) was discontinued because it fell short of both its original and revised goals. The market barriers identified were not overcome nor were there any further marketing plans identified to do so. The contractor also failed to provide any usable data to the engineering group.

### **SCG3542 Savings By Design Narrative**

The Southern California Gas Company (SoCalGas) Savings By Design (SBD) is a program in the non-residential new construction market sector. It is available statewide with common rules and criteria and is a continuation of the successful statewide Savings By Design program existing since 1999. The program promotes integrated design and emphasizes early design involvement by offering building owners and their design teams a wide range of services including education, design assistance, and owner incentives, as well as design team incentives.

In 2009, SBD fell slightly short of expectation due to the change of program reporting from committed therm savings to installed therm savings. The lead times for non-residential, commercial, and industrial new construction projects were long due to the design process, the procurement of complicated equipment, permitting, and construction time.

The strategy that was the most successful in producing results was that of utilizing the systems approach of the SBD program to target customer projects.

SoCalGas plans to meet the Commission's goals in the coming year by offering the Systems Approach of new construction as part of the Agricultural, Commercial, and Industrial Calculated programs. The Whole Building approach will continue to be offered in the statewide Savings By Design Program.

### **SCG3543 Palm Desert Partnership Demonstration Narrative**

The Palm Desert Partnership Demonstration Program is a fully resourced energy efficiency program with its own unique set of measures, incentive amounts, and goals. This program seeks to achieve maximum energy savings through combined efforts of the City of Palm Desert (City), The Energy Coalition, Southern California Edison (SCE), and Southern California Gas Company (SoCalGas). Aggressive goals of 30% reduction in energy usage and demand have been established. In addition to these quantifiable goals, the purpose of this partnership is to establish a model for other communities to replicate.

Some highlights for the Palm Desert Partnership for 2009 were:

- The City’s Energy Loan Program was funded at modest levels in 2009 and has proven that significantly more funding is required to support customer investments in new equipment in order to achieve the 30% goals.
- The innovative method for delivering energy efficiency the “one-stop-shop” pool pump program, marketed as “Go with the Flow,” continued to be one of the most effective programs of Partnership and natural gas pool heaters will be included into the program in 2010.
- SCE and SoCalGas launched a 12-month innovative pilot behavior energy campaign with OPOWER, formerly Positive Energy. This new approach to creating energy savings constitutes a major and innovative campaign. Over 30,000 residents received monthly or quarterly Home Energy Reports.
- The Partnership continued its product innovation in conducting three new product tests: liquid pool covers, LED landscape/pathway lighting for HOA’s, and energy efficiency Eneron Turbo Pots for restaurants.

As a result of the City of Palm Desert Energy Loan Program, there were 115 loan applicants who received \$3.4 million in energy loan funding. Energy improvements were comprised of 49 solar projects, 78 HVAC upgrades, 11 window replacement retrofits, 6 cool roof projects, 27 natural gas furnace replacements, 5 water heater retrofits, and 2 pool heaters. Additionally, these customers participated in the Partnerships Set to Save Rebate programs.

The partnership continued to suspend some program activities while negotiations with new contractors were developed. This has had a direct impact on the natural gas results including energy surveys, the direct install program, and the launch of the pool heater into the “one-stop-shop” program. There was a backlog of customer orders created as a result of the program which will be addressed in 2010. Due to suspension of several programs, outreach and marketing continued to be limited during fourth quarter. Although the program is below expected forecast, the partnership has noticed a considerable reduction in overall natural gas consumption in the City.

### **SCG3544 Domestic Hot Water Control Program Narrative**

The Domestic Hot Water Control Program offers the installation of monitored hot water controls to hotels and motels allowing the customer, contractor or utility representative access to a web generated report that identifies energy savings or malfunctions.

The program started the year with an extension of its 2006–2008 contract, then a new contract via the bridge funding extension. The program fell short of its annual goal due to conditions such as changes to the contract and the poor economy.

The program found the most success when approaching a client’s entire portfolio of properties because the opportunity is greater for the customer and the results are far more significant. Additionally, customers try to standardize on vendors and services across their portfolio. This approach allows them to continue to have a corporate standard.

The program continues to struggle with targeting the right contacts. The contractor would like to be able to gain support from SoCalGas Account Executives (AE), but the relationships that the AE's have with the customer are typically not with the key decision makers for this type of program. The contractor will continue to work with SoCalGas to try and improve the customer interaction with key stakeholders.

### **SCG3545 EE for Entertainment Centers Narrative**

The EE for Entertainment Centers Program, a co-funded program between Southern California Edison (SCE) and Southern California Gas (SoCalGas) was discontinued. Although there were various contacts and installations, fewer than expected therm savings materialized, resulting in the closure of this program.

### **SCG3546 On Demand Efficiency Narrative**

The On Demand Efficiency (ODE) program offered through Southern California Gas Company (SoCalGas) is designed and implemented by the Contractor. ODE addresses a significant energy efficiency opportunity in multi-family properties with central domestic hot water (CDHW) systems. CDHW systems commonly have no controls and the pump continuously circulates hot water through the recirculation loop, even during periods of no hot water usage, constantly losing heat to the surrounding environment. The ODE program provides an incentive for the installation of a demand control on the hot water system that allows the pump to turn on only when there is hot water demand and the water in the loop is not already hot enough to serve the demand. Through the program, the Contractor works with a vendor of demand control pumps to train plumbers on how to install demand pumps, market them to their clients, and provide high quality installations.

Overall the ODE program was quite successful. The program has developed a reliable pipeline of program applications by leveraging contact with the pump distributor and ODE plumber network. The program met the goal for installations by September.

One of the main successes for the 2009 program year was the training of five additional plumbing companies to install demand pumps. The training is implemented by the pump distributors and includes an instruction manual, a checklist to fill out for each installation, and onsite support for as many installations as it takes until the plumber feels comfortable to do installations on their own. In addition to a successful training plan, having ODE certified plumbers adds another dimension to the program by the referrals they give. In 2009, plumbers referred approximately 43% of the total installations.

Another significant success for the ODE program was the completion of monitoring 23 sites for gas savings. The protocol involved monitoring the temperature of hot water supply and hot water return lines, pump run times, and gas usage on all monitored sites, and water flow and ambient temperature on a subset of sites.

There were few, if any, implementation barriers or problems encountered. One of the main issues is that there were more applications than funding for the program. Most people were satisfied to be put on a waiting list for next year.

## **SCG3547 Smart Controls for Pools and Spas Narrative**

The Smart Controls for Pools and Spas Program was discontinued. This program was a pilot program in a collaborative effort with the Emerging Technology (ET) staff. Based on the program results during 2008, the ET team chose not to renew the pilot program.

## **SCG3548 Upstream High Efficiency Gas Water Heater Rebate and High Efficiency Hot Water Distribution Narrative**

The Upstream High Efficiency Gas Water Heater Rebate and High Efficiency Hot Water Distribution Program is a two-pronged program. The first provides upstream rebates to distributors of gas water heaters. The distributor receives a fixed rebate amount for each high-efficiency gas water heater that is sold. The rebate is split between the distributor and the purchaser, with the distributor receiving one-third of the incentive and the purchaser receiving two-thirds.

The second provides free, energy-saving boiler controllers to multi-family housing facilities and the facility shares the cost of installation. The contractor is responsible for program management, marketing, installation (if the customer does not have a designated installer), and program inspection. The program is available to residential multi-family facilities that receive natural gas service from SoCalGas.

The water heater rebate program exceeded its energy savings goal in 2009 while the boiler controller program fell short of its goal. However, overall, the two combined parts of the program almost met the total savings goals.

The success of the water heater rebate program comes from the relationships that had previously been formed with the distributors. In the past statewide distributors of high efficiency water heaters have been part of other similar types of incentive programs. These organizations were more than willing to participate in the 2009 program in Southern California because of the reliability of payment and ease of reporting provided.

The water heater rebate program, however, struck a major barrier when the economy started to decline as many homeowners did not have the money to spend on replacing their water heaters.

The success of the boiler controller program comes primarily from marketing effectiveness. The program was mainly marketed on two fronts. The most effective by far was through the boiler service company. While earlier it was thought that this was not a good channel, once the service companies that were familiar with the technology were located, using their relationships with the property management companies as leverage, the program was able to reach many more boilers than projected. The other successful channel utilized was marketing directly to the property management companies themselves. This channel required more leg work and persistence, but was able to reach many more boilers than other channels explored.

The boiler controller program got off to a very slow start because of the extensive marketing requirements. It took some time to locate the industry players that could propel the program. Many boiler service companies were skeptical of the technology and would not join the effort in approaching their property management company customers. Furthermore, most entities were

not interested until the heating season began. Once they saw their gas bills, the impetus to save energy became more real.

### **SCG3549 Energy Challenger Narrative**

The Energy Challenger Program is a non-resource program that provides small and medium commercial and industrial (C&I) customers with an on-line assessment/audit solution delivered through Southern California Gas's (SoCalGas) website. In approximately 10 minutes, the customer is provided with a customized plan consisting of practical steps to reduce their energy use and costs including:

- A prioritized action plan for reducing their energy costs;
- Links to SoCalGas' rebates and services for energy savings; and
- Benchmarking of the business' energy management practices.

The program marketing activities were conducted by SoCalGas to engage businesses in the program. The online assessment has been customized for SoCalGas' service territory and rebates.

The program completed 32 Energy Challenger assessments in 2009 with small and medium C&I customers. A key to the success of the program has been the short time to complete the assessment.

Program experienced slow customer uptake during 2009 due to delays in re-commencing marketing activities by SoCalGas (marketing for the program was conducted by SoCalGas).

### **SCG3550 Multi-family Direct Therm Savings Narrative**

The Multi-family Direct Therm Savings Program (marketed as "Energy Smart") targets owners and managers of multi-unit residential properties such as apartment buildings, off-campus housing, senior housing, and mobile home parks. The program encourages participation by providing energy efficient products and installation at no cost to the end use customer. The energy-efficient products include: low flow showerheads (1.5 gpm), low flow kitchen aerators (1.5 gpm), low flow bathroom aerators (1.0 gpm), and water heater pipe wrap (R value 2.7). In addition to products and installation, the Energy Smart Program provides an assessment of gas appliances at the site along with recommendations for repair or replacement. Marketing activities focus primarily on apartment building owners and managers.

Customers were very receptive to the offer of new energy efficient devices at no cost, including installation. Especially during difficult economic times, property managers and owners were enthusiastic about ways to save on their utility bills. The chrome showerheads and swivel kitchen aerators were a big improvement over the existing devices, so most tenants were thrilled to have new fixtures. The elderly and tenants with children were particularly happy with the hand-held showerhead model.

Early in 2009, the Energy Smart Program began to offer Saturday appointments, by request. For mobile home parks and condominiums, where the individual units are owned rather than rented, the Program implemented a process for the owners to sign an Authorization Letter in advance of the appointment to allow access to the unit.

The biggest implementation challenge was access to the decision maker for the site, particularly with large properties where there are several layers of management the company must work through. There were also issues with the communication between the property owner who agreed to participate and the on-site manager. Oftentimes, the owner would forget to inform the manager at the apartment complex so when it came time to schedule the appointment, the on-site manager would not be familiar with the Program.

## **SECTION 1 ENERGY SAVINGS**

The purpose of this table is to report the annual impacts of the Energy Efficiency portfolio of programs implemented by SoCalGas for the 2009 program year. The annual impacts are reported for each year of the program cycle beginning in 2006 in terms of annual and lifecycle energy savings in natural gas savings in MMth (million therms). The report shows annual savings ("Installed Savings") that reflect installed savings, not including commitments. The values in the Installed Savings column include savings from the Low-Income Energy Efficiency Program and pre- 2006 Codes and Standards advocacy work (LIEE and C&S savings are broken out as separate line items in Table 8 - Savings by End-Use).

Table 1

<i>Electricity and Natural Gas Savings and Demand Reduction (Gross)</i>					
Annual Results	Installed Savings	CPUC Adopted in D. 04-09-060 Goal (Year)	% of Goals (Year)	% of 3-year Goals (Portfolio)	Balance
<i>2009 Energy Savings (GWh) – Annual</i>	-				
	SCG	-			
<i>2010 Energy Savings (GWh) – Annual</i>	-				
	SCG	-			
<i>2011 Energy Savings (GWh) – Annual</i>	-				
	SCG	-			
<b>TOTAL Energy Savings (GWh) - Annual</b>		-			
<i>2009 Energy Savings (GWh) – Lifecycle</i>	-				
	SCG	-			
<i>2010 Energy Savings (GWh) – Lifecycle</i>	-				
	SCG	-			
<i>2011 Energy Savings (GWh) – Lifecycle</i>	-				
	SCG	-			
<b>TOTAL Energy Savings (GWh) – Lifecycle</b>		-			
<i>2009 Natural Gas Savings (MMth) – Annual</i>	24		81%	22%	
	SCG	24	164%	42%	
<i>2010 Natural Gas Savings (MMth) – Annual</i>	-				
	SCG	-			
<i>2011 Natural Gas Savings (MMth) – Annual</i>	-				
	SCG	-			
<b>TOTAL Natural Gas Savings (MMth) – Annual</b>		24	22%	22%	
<i>2009 Natural Gas Savings (MMth) – Lifecycle</i>	284				
	SCG	284			
<i>2010 Natural Gas Savings (MMth) – Lifecycle</i>	-				
	SCG	-			
<i>2011 Natural Gas Savings (MMth) – Lifecycle</i>	-				
	SCG	-			
<b>TOTAL Natural Gas Savings (MMth) – Lifecycle</b>		284			
<i>2009 Peak Demand savings (MW)</i>	-				
	SCG	-			
<i>2010 Peak Demand savings (MW)</i>	-				
	SCG	-			
<i>2011 Peak Demand savings (MW)</i>	-				
	SCG	-			
<b>TOTAL Peak Demand savings (MW)</b>		-			



## **SECTION 2 EMISSION REDUCTIONS**

The purpose of this table is to report the annual incremental environmental impacts of the Energy Efficiency portfolio (for both electricity and natural gas) of programs implemented by SoCalGas during the 2009 program year. Parties agreed that the impacts should be in terms of annual and lifecycle tons of CO<sub>2</sub>, NO<sub>X</sub>, SO<sub>X</sub>, and PM<sub>10</sub> avoided and should come from the E3 calculator.

Table 2

<i>Environmental Impacts(Gross)</i>								
Annual Results	Annual tons of CO2 avoided	Lifecycle tons of CO2 avoided	Annual tons of NOx avoided	Lifecycle tons of NOx avoided	Annual tons of SOx avoided <sup>1</sup>	Lifecycle tons of SOx avoided <sup>1</sup>	Annual tons of PM10 avoided	Lifecycle tons of PM10 avoided
<i>2009 Portfolio Targets</i>								
<b>2009 Total</b>	<b>134,545</b>	<b>1,605,976</b>	<b>126</b>	<b>1,466</b>	-	-	<b>0</b>	<b>2</b>
SCG	134,545	1,605,976	126	1,466	-	-	0	2
<b>2010 Total</b>	-	-	-	-	-	-	-	-
SCG								
<b>2011 Total</b>	-	-	-	-	-	-	-	-
SCG								
<b>Total for 3-year Portfolio</b>	<b>134,545</b>	<b>1,605,976</b>	<b>126</b>	<b>1,466</b>	-	-	<b>0</b>	<b>2</b>
Footnote 1: The avoided SOX reductions are not calculated in the E3 calculator. It was determined by E3 that none of the IOUs uses coal power on the margin and the energy efficiency savings have impact on the margin only. This is the basis for the E3 analysis as reviewed by all interested parties and approved by the Commission.								

## **SECTION 3 EXPENDITURES**

The purpose of this table is to report the annual costs expended by SoCalGas in implementing the 2009 Energy Efficiency portfolio. The report shows the “Total Portfolio Expenditures” broken out into Administrative Costs, Marketing/Advertising/Outreach Costs, and Direct Implementation Costs for the entire portfolio; the next two sets of expenditures represent sub-components of the portfolio already included in the Total Portfolio Expenditures totals: 1. Total Competitive Bid Program Expenditures (sub-component of portfolio), and 2. Total Partnerships (sub-component of portfolio). The last component is “Total EM&V” (separate from portfolio) expenditures will be reported for the IOU and Joint Staff.

Table 3

2009 Expenditures

	2009 Bridge Funding Budget	Cumulative Annual Expenditures	Percent of Portfolio Budget (3-yr)	Percent of Total Annual Expenditures
<b>Summary of Portfolio Expenditures</b>				
<b>Total Portfolio Expenditures</b>				
Administrative Costs		8,911,039	11.13%	19.72%
Marketing/ Advertising/ Outreach Costs		6,257,571	7.82%	13.85%
Direct Implementation Costs		30,028,668	37.52%	66.44%
<b>Total Portfolio Expenditures</b>	<b>\$ 80,034,037</b>	<b>45,197,278</b>	<b>56.47%</b>	<b>100.00%</b>
<i>Total Competitive Bid Program Expenditures (sub-component of portfolio)</i>				
Administrative Costs		(781,648)	-1%	-2%
Marketing/ Advertising/ Outreach Costs		798,478	1%	2%
Direct Implementation Costs		8,473,813	11%	19%
<b>Total Competitive Bid Program Expenditures</b>		<b>8,490,643</b>	<b>10.61%</b>	<b>18.79%</b>
<i>Total Partnership Program Expenditures (sub-component of portfolio)</i>				
Administrative Costs		1,406,762	2%	3%
Marketing/ Advertising/ Outreach Costs		108,160	0%	0%
Direct Implementation Costs		1,241,661	2%	3%
<b>Total Partnership Program Expenditures</b>		<b>2,756,583</b>	<b>3.44%</b>	<b>6.10%</b>
<b>Total EM&amp;V Expenditures (separate from portfolio)</b>				
EMV IOU	\$ 1,600,680	399,787	24.98%	10%
EMV JOINT STAFF	\$ 4,802,040	3,442,651	71.69%	90%
<b>Total EM&amp;V Expenditures</b>	<b>\$ 6,402,720</b>	<b>3,842,438</b>	<b>60.01%</b>	<b>100.00%</b>

## **SECTION 4 COST EFFECTIVENESS**

The purpose of this table is to provide an annual update on the cost effectiveness of the portfolio of programs being implemented in the 2009 program year. The targets above are at the portfolio level, so an annual average is used in order to compare the current annual estimates of cost effectiveness with the cost effectiveness levels that were estimated at the time the portfolios were adopted. The report includes the SoCalGas results and goals.

Table 4

Cost Effectiveness (Net)

Annual Results	Total Cost to Billpayers (TRC)	Total Savings to Billpayers (TRC)	Net Benefits to Billpayers (TRC)	TRC Ratio	Total PAC Cost	PAC Ratio	PAC Cost per kW Saved (\$/kW) <sup>1</sup>	PAC Cost per kWh Saved (\$/kWh)	PAC Cost per therm Saved (\$/therm)
<b>TARGETS</b>									
Average per year									
SCG	\$ 79,343,181	\$ 93,365,613	\$ 14,022,432	1.18	\$ 48,386,723	1.93	N/A	N/A	\$0.41 /therm
<b>[Utility] TOTAL</b>	<b>\$ 79,343,181</b>	<b>\$ 93,365,613</b>	<b>\$ 14,022,432</b>	<b>1.18</b>	<b>\$ 48,386,723</b>	<b>1.93</b>			

Footnote 1: The adopted avoided cost methodology does not provide information to provide a meaningful value for PAC Cost per kW. The adopted avoided cost methodology created kWh costs values that vary for each hour of the year that includes kW generation capacity costs. The current PAC Cost per kWh includes all ratepayer financial costs incurred in producing electric savings. The same costs would have to be reallocated if a PAC Cost per kW were presented. Additionally, the current approved calculator does not have the capability to calculate discounted kW, nor is it clear whether an annualized cost per kW or total cost per kW is more useful.

## **SECTION 5**

### **BILL PAYER IMPACTS**

The purpose of this table is to report the annual impact of the energy efficiency activities on customer bills relative to the level without the energy efficiency programs, as required by Rule X.3 of the Energy Efficiency Policy Manual version 3, adopted in D.05-04-051.

Table 5

*Ratepayer Impacts*

<b>2009 - 2011</b>	<b>Electric Average Rate (Res and Non-Res) \$/kwh</b>	<b>Gas Average Rate (Core and Non-Core) \$/therm</b>	<b>Average First Year Bill Savings (\$)</b>	<b>Average Lifecycle Bill Savings (\$)</b>
PGE	\$0.128	\$0.479		
SCE				
SDGE				
SCG	NA	\$0.444	\$ 10,736,807	\$ 126,070,637
<b>[Utility] Average</b>				



## **SECTION 6 GREEN BUILDING INITIATIVE**

The purpose of this table is to record the amount of savings attributable to California's 2009 Energy Efficiency portfolio that contribute to meeting the Governor's Green Building Initiative Goal of reducing energy use in state-owned buildings by 20 per cent by 2015 (with a 2003 baseline). Expenditures are for program activities that contribute towards GBI goals. Annual GWH, MW, and Million therms are cumulative net values.

## Table 6

**Table 6**  
**Green Building Initiative**

2009	Expenditures	GWH			MW			MMth		
		Goal	Annual	% of Goal	Goal	Annual	% of Goal	Goal	Annual	% of Goal
SCG	\$ 7,886							0.025462		#DIV/0!
[Utility]										

## **SECTION 7**

# **SHAREHOLDER PERFORMANCE INCENTIVES**

The tables for the 2009 shareholder performance incentive have not yet been determined by the Commission. Therefore, there is no information presented in this report.

## **SECTION 8 SAVINGS BY END-USE**

The purpose of this table is to show annual portfolio savings by Residential and Non-Residential end-uses and those savings attributable to the LIEE program, the Codes and Standards pre-2006 advocacy work,

Table 8

**Table 8:**  
*Annual Savings By End-Use 2009*

	GWH	% of Total	MW	% of Total	MMTh = 1,000,000	
					therms	% of Total
<b>Residential</b>	-				5	20.24%
Appliances					0	1.46%
Consumer Electronics					-	0.00%
Cooking Appliances					-	0.00%
HVAC					1	2.31%
Lighting					-	0.00%
Pool Pump					-	0.00%
Refrigeration					-	0.00%
Water Heating					3	12.86%
Other					1	3.61%
<b>Nonresidential</b>	-				16	64.17%
HVAC					1	2.08%
Lighting					-	0.00%
Office					-	0.00%
Process					12	50.52%
Refrigeration					-	0.00%
Other					3	11.58%
<b>Low Income Energy Efficiency</b>					1	5.90%
<b>Codes &amp; Standardss Energy Savings</b>					2	9.69%
<b>SOCALGAS ANNUAL PORTFOLIO SAVINGS</b>	-				24	100.00%

## **SECTION 9 COMMITMENTS**

The purpose of this table is to allow the utilities to report commitments for both the near term (installed savings will be produced within the 2009 program year and long term (commitments entered into during the current program cycle but which are not expected to produce installed savings until after December 2009). This information will be useful for the Commission's resource planning purposes by enabling program activities to be linked to a particular funding cycle.

Table 9

**Commitments**

Commitments Made in the Past Year with Expected Impelmentation by December 2009				
2009	Committed Funds \$	Expected Energy Savings		
		GWH	MW	MMth
<b>SCG Total</b>	N/A	N/A	N/A	N/A
Commitments Made in the Past Year with Expected Impelmentation <i>after</i> December 2009				
2009	Committed Funds \$	Expected Energy Savings		
		GWH	MW	MMth
<b>SCG Total</b>	N/A	N/A	N/A	N/A

## **Appendix – Updated Monthly and Quarterly Report**

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**Southern California Gas Company**  
**2009 Monthly Energy Efficiency Program Data Report**  
 Report Month: December 2009 Revision 5 as of May 31, 2010  
 Table 1.1 - Monthly Summary Table

Program ID	Program Name	Program Changes	Budget & Expenditures (\$)						Gas Savings (Gross Annual Therms)				
			Adopted Program Budget (3 - Yr)	Program Operating Budget (3 - Yr)	Program Expenditures (Inception-To-Date)	Program Expenditures (Report Month)	Total Commitments (Inception-to-Date)	Program Projected (Compliance Filing)	Installed Savings (Inception-To-Date)	Installed Savings (Report Month)	Total Commitments (Inception-to-Date)		
SG33533	3P Alliance Partners Program (Calif Sustainability)		\$ 973,411.00	\$ 973,411.00	\$ 936,925.97	\$ -	\$ -	-	-	-	-	-	-
SG33532	3P Custom Language Efficiency Outreach Program		\$ 320,202.00	\$ 320,202.00	\$ 215,412.33	\$ -	\$ -	-	-	-	-	-	-
SG33536	3P CVRP		\$ -	\$ -	\$ 20.13	\$ -	\$ -	-	-	-	-	-	-
SG33537	3P Designed for Comfort		\$ -	\$ -	\$ 41,940.29	\$ -	\$ -	-	-	-	-	-	-
SG33529	3P Energy Efficiency Kiosk Pilot Program		\$ -	\$ -	\$ (1,176.33)	\$ -	\$ -	-	-	-	-	-	-
SG33538	3P Gas Cooling Upgrade		\$ 353,411.00	\$ 353,411.00	\$ 171,564.35	\$ -	\$ -	-	-	-	-	-	-
SG33540	3P Laundry Coin-op Program		\$ -	\$ -	\$ (1,542,038.14)	\$ -	\$ -	-	-	-	-	-	-
SG33534	3P LivingWise		\$ 703,411.00	\$ 703,411.00	\$ 569,694.49	\$ -	\$ -	-	-	-	-	-	-
SG33539	3P Manufactured Mobile Home Program		\$ 2,654,341.00	\$ 2,654,341.00	\$ 2,444,681.71	\$ -	\$ -	-	-	-	-	-	-
SG33531	3P PACE Energy Efficient Ethnic Outreach Program		\$ 1,153,411.00	\$ 1,153,411.00	\$ 1,116,648.57	\$ -	\$ -	-	-	-	-	-	-
SG33530	3P Portfolio of the Future		\$ 973,411.00	\$ 973,411.00	\$ 935,143.99	\$ -	\$ -	-	-	-	-	-	-
SG33535	3P VESM Advantage		\$ -	\$ -	\$ (33,849.62)	\$ -	\$ -	-	-	-	-	-	-
SG33545	3P EDC Domestic Hot Water		\$ 1,052,340.00	\$ 1,052,340.00	\$ 377,312.73	\$ -	\$ -	-	-	-	-	-	-
SG33544	3P Demand Based Ventilation Program		\$ -	\$ -	\$ 103,305.00	\$ -	\$ -	-	-	-	-	-	-
SG33546	3P Benchmarking Group - Advanced Water Heater Technology		\$ 1,191,533.00	\$ 1,191,533.00	\$ 680,460.19	\$ -	\$ -	-	-	-	-	-	-
SG33547	3P Energy Efficient Smart Controls for Comm Pools & Spas		\$ -	\$ -	\$ (47,301.80)	\$ -	\$ -	-	-	-	-	-	-
SG33548	3P Upstream HE-Efficiency Water Heater Rebates		\$ 525,533.00	\$ 525,533.00	\$ 470,064.28	\$ -	\$ -	-	-	-	-	-	-
SG33549	3P Envrma - Energy Challenger		\$ 127,011.00	\$ 127,011.00	\$ 51,015.98	\$ -	\$ -	-	-	-	-	-	-
SG33550	3P Multifamily Direct Therim Savings		\$ 2,177,611.00	\$ 2,177,611.00	\$ 2,000,816.53	\$ -	\$ -	-	-	-	-	-	-
SG33523	BKP4-Bakersfield Kern Partnership		\$ 205,200.00	\$ 205,200.00	\$ 25,776.00	\$ 3.38	\$ -	-	-	-	-	-	-
SG33518	CCP4-IOU/Community College Partnership		\$ 794,804.00	\$ 794,804.00	\$ 484,921.91	\$ 63.59	\$ -	-	-	-	-	-	-
SG33519	CDC4-CA Department of Corrections Partnership		\$ 1,920,000.00	\$ 1,920,000.00	\$ 119,458.97	\$ 112.08	\$ -	-	-	-	-	-	-
SG33501	CS4-Codes & Standards Program		\$ 696,966.00	\$ 696,966.00	\$ 297,332.54	\$ 38.99	\$ -	-	-	-	-	-	-
SG33526	CW44-California Urban Water Conservation Council		\$ -	\$ -	\$ (209,344)	\$ (0.03)	\$ -	-	-	-	-	-	-
SG33525	EC4-Energy Coalition - Direct Install		\$ 132,000.00	\$ 132,000.00	\$ 57,632.76	\$ 7.56	\$ -	-	-	-	-	-	-
SG33524	EC5-Energy Coalition - Peak		\$ 448,920.00	\$ 448,920.00	\$ 399,925.52	\$ (7,115.71)	\$ -	-	-	-	-	-	-
SG33502	EE4-Advanced Home Program		\$ 2,065,775.00	\$ 3,415,775.00	\$ 2,970,024.20	\$ 389.45	\$ -	-	-	-	-	-	-
SG33503	EET4-Education & Training Program		\$ 3,708,780.00	\$ 3,708,780.00	\$ 3,236,028.40	\$ 2,145.13	\$ -	-	-	-	-	-	-
SG33504	EMQ4-Energy Efficiency Delivery Channel Innovation Prog		\$ 3,142,436.00	\$ 3,142,436.00	\$ 1,590,987.25	\$ (16,042.83)	\$ -	-	-	-	-	-	-
SG33506	ETP4-Emerging Tech Program		\$ 1,207,411.00	\$ 1,207,411.00	\$ 1,216,530.35	\$ 342.67	\$ -	-	-	-	-	-	-
SG33507	EXP4-Express Efficiency Rebate Program		\$ 12,187,803.00	\$ 12,187,803.00	\$ 3,736,883.93	\$ (11,032.40)	\$ -	-	-	-	-	-	-
SG33508	FYP4-Statewide Marketing & Outreach		\$ 178,854.00	\$ 1,733,854.00	\$ 1,978,193.41	\$ -	\$ -	-	-	-	-	-	-
SG33509	HE54-Home Energy Efficiency Survey		\$ 973,829.00	\$ 973,829.00	\$ 991,504.46	\$ (3,907.06)	\$ -	-	-	-	-	-	-
SG33527	LAP4-Los Angeles County Partnership		\$ 584,884.32	\$ 584,884.32	\$ 74,270.01	\$ 9.74	\$ -	-	-	-	-	-	-
SG33510	MFR6-Savings By Design SCG SCE Program		\$ 1,716,731.00	\$ 1,716,731.00	\$ 842,359.69	\$ (6,198.38)	\$ -	-	-	-	-	-	-
SG33512	NIW6-Savings By Design SCG SCE Program		\$ 2,543,761.00	\$ 2,693,761.00	\$ 2,077,325.68	\$ 272.40	\$ -	-	-	-	-	-	-
SG33513	NIRF4-Local Business Energy Efficiency Program		\$ 19,109,314.00	\$ 17,594,314.00	\$ 7,055,275.75	\$ (922.78)	\$ -	-	-	-	-	-	-
SG33514	OBF4-On-Bill Financing for Energy Efficiency Equipment		\$ 1,346,104.45	\$ 1,346,104.45	\$ 446,955.42	\$ (178.17)	\$ -	-	-	-	-	-	-
SG33528	RCX4-RCX Partnership with SCE		\$ 954,852.84	\$ 954,852.84	\$ 213,349.54	\$ 27.98	\$ -	-	-	-	-	-	-
SG33522	SBP4-South Bay Partnership		\$ 140,400.00	\$ 140,400.00	\$ 110,089.58	\$ 527.49	\$ -	-	-	-	-	-	-
SG33516	SCD4-Sustainable Communities Demo/City of Santa Monica		\$ 958,770.60	\$ 958,770.60	\$ -	\$ -	\$ -	-	-	-	-	-	-
SG33517	SFR4-Home Efficiency Rebate Program		\$ 8,651,215.00	\$ 8,651,215.00	\$ 7,510,648.62	\$ (7,440.09)	\$ -	-	-	-	-	-	-
SG33520	UCP4-IOU/CSU Partnership		\$ 1,140,000.00	\$ 1,140,000.00	\$ 376,573.70	\$ 49.38	\$ -	-	-	-	-	-	-
SG33521	VCP4-Ventura County Partnership		\$ 159,600.00	\$ 159,600.00	\$ 149,915.91	\$ 19.66	\$ -	-	-	-	-	-	-
SG33543	Palm Desert Partnership		\$ 1,320,000.00	\$ 1,320,000.00	\$ 744,878.26	\$ 148.86	\$ -	-	-	-	-	-	-
LIEE	LIEE Programs		\$ 80,034,037.21	\$ 80,034,037.21	\$ 45,197,278.19	\$ (48,678.80)	\$ -	-	-	-	-	-	-
	<b>Total Portfolio</b>												

**Notes:**

Please note that the December Monthly Report is unaudited and will be updated with the subsequent quarterly report .

During 2009, SoCalGas' monthly reports were produced using the 2006-2008 cost-effectiveness and load impact assumptions. As of June 30, 2009 there were a total of 82 unique measures with activity in 2009. For these measures, SoCalGas has updated all of the net-to-gross (NTG), effective useful life (EUL), measure cost and Therm savings values with the available DEER 2008 Update data.

Since relative few gas measures were included in the 2008 DEER Update, most of the savings impact was from NTG changes. As a result of these updates, the cumulative 2009 savings ending July 31, as shown in the monthly report to the CPUC, are less than the cumulative 2009 monthly report savings ending June 30, 2009. The differences are significant. Where the June 30<sup>th</sup> net Therm savings were 10.9 MM Therms the July 31<sup>st</sup> values are 9.4 net MM Therms (a difference of 1.5 MM Therms).

**Southern California Gas Company**  
**2006-2008 Portfolio Summary Report**  
 Report Month: December 2009 Revision 3 as of May 31, 2010

Table 1.2: Portfolio Costs

Approved Portfolio Budget (3-Yr. Cumulative)	\$ 80,024,037.21
Portfolio Expenditures (Inception-To-Date)	\$ 45,197,278.10
Portfolio Expenditures (Report Month)	\$ (48,678.80)
Portfolio Commitments (Inception-To-Date)	\$ -

Table 1.3: Portfolio Impacts - Monthly

Portfolio Installed kW (Report Month)	-
Portfolio Installed kWh (Report Month)	-
Portfolio Installed Therms (Report Month)	3,067,273
Total Portfolio kW Commitments (Inception-To-Date)	-
Total Portfolio kWh Commitments (Inception-To-Date)	-
Total Portfolio Therms Commitments (Inception-To-Date)	-

Table 1.4: Portfolio Impacts - Annual

	Annual Goals (D.04-09-060)			Annual Program Administrators Projections (Compliance Filing or as Revised)			Installed Savings (Annual, Year-to-Date)			Installed Savings (% of Annual Goals)		
	2009	2010	2011	2009	2010	2011	2009	2010	2011	2009	2010	2011
Gross Summer Peak kW												
Gross Annual kWh												
Gross Annual Therms							24,161,720					

Table 1.5: Portfolio Impacts - Cumulative

	Cumulative Goals (D.04-09-060)			Cumulative Program Administrators Projections (Compliance Filing or as Revised)			Installed Savings (Cumulative, Inception-to-Date)			Installed Savings (% of Cumulative Goals)		
	2009	2010	2011	2009	2010	2011	2009	2010	2011	2009	2010	2011
Gross Summer Peak kW												
Gross Annual kWh												
Gross Annual Therms							24,161,720					

Table 1.6: Portfolio Impacts - Aggregated End Use

	Gross Annual kWh (Cumulative)	Gross Annual Smr Peak kW (Cumulative)	Gross Annual Therms (Cumulative)
<b>Residential</b>			4,889,990
Appliances			352,448
Consumer Electronics			
Cooking Appliances			558,579
HVAC			
Lighting			
Pool Pump			
Refrigeration			
Water Heating			3,107,424
Other			871,599
<b>Nonresidential</b>			15,505,531
HVAC			502,119
Lighting			
Other			
Process			12,206,934
Refrigeration			
Other			2,796,478
<b>Low Income Energy Efficiency Codes &amp; Standards Energy Efficiency</b>			1,426,199
<b>Total Portfolio</b>			2,340,000
			24,161,720

Table 1.7: Portfolio Impacts - Market Sector

	Gross Annual kWh (Cumulative)	Gross Annual Smr Peak kW (Cumulative)	Gross Annual Therms (Cumulative)
<b>Residential</b>			4,889,990
Single Family			2,376,390
Multi Family			2,405,395
Mobile Home			106,205
<b>Nonresidential</b>			15,505,531
Commercial			11,965,277
Industrial			3,349,204
Agricultural			191,050
<b>Low Income Energy Efficiency Codes &amp; Standards Energy Efficiency</b>			1,426,199
<b>Total Portfolio</b>			2,340,000
			24,161,720

**Southern California Gas Company  
2006-2008 Energy Efficiency Portfolio Benefit/Cost Metrics Report  
Quarter Ending December 2009 - Revised as of May 31, 2010**

**Table 1: Quarterly Energy Efficiency Portfolio Results**

	Inception-To-Date
Total Cost to Billpayers (TRC)	\$ 79,343,181
Total Savings to Billpayers (TRC)	\$ 93,365,613
Net Benefits to Billpayers (TRC)	\$ 14,022,432
TRC Ratio	1.18
PAC Ratio	1.93
PAC Cost per kWh Saved (Cents/kWh)	0.13 cents/kWh
PAC Cost per therm Saved (\$/therm)	\$0.41 /therm



















Southern California Gas Company  
 2006-2008 Energy Efficiency Expenditures Report  
 Quarter Ending December 2009 - Revised as of May 31, 2010

Table 3: Quarterly Program Expenditures

Program ID/Program Name	2009 Bridge Funding Budget	2009 Bridge Funding Operating Budget	Administrative Costs	Marketing/Advertising/Outreach Costs	Direct Implementation Costs	Total Expenditures
SCG3533 3P Alliance Partners Program	\$ 973,411.00	\$ 973,411.00	\$ 35,282.99	\$ 13,453.43	\$ 888,189.55	\$ 936,925.97
SCG3532 3P Custom Language Efficiency Outreach Program	\$ 320,202.00	\$ 320,202.00	\$ 56,467.39	\$ 109,704.14	\$ 49,240.80	\$ 215,412.33
SCG3536 3P CVRP	\$ -	\$ -	\$ (114.12)	\$ -	\$ 134.25	\$ 20.13
SCG3537 3P Designed for Comfort	\$ -	\$ -	\$ (968.67)	\$ 60,699.65	\$ (17,790.69)	\$ 41,940.29
SCG3529 3P Energy Efficiency Kiosk Pilot Program	\$ -	\$ -	\$ 11.47	\$ (1,187.80)	\$ -	\$ (1,176.33)
SCG3538 3P Gas Cooling Upgrade	\$ 353,411.00	\$ 353,411.00	\$ 38,841.83	\$ 7,235.51	\$ 16,535.00	\$ 171,564.35
SCG3540 3P Laundry Coin-op Program	\$ -	\$ -	\$ (1,568,571.14)	\$ -	\$ -	\$ (1,542,036.14)
SCG3534 3P LivingWise	\$ 703,411.00	\$ 703,411.00	\$ 48,288.47	\$ 5,921.45	\$ 515,484.57	\$ 569,694.49
SCG3539 3P Manufactured Mobile Home Program	\$ 2,654,341.00	\$ 2,654,341.00	\$ 44,109.67	\$ 3,947.58	\$ 2,396,624.46	\$ 2,444,681.71
SCG3531 3P PACE Energy Efficient Ethnic Outreach Program	\$ 1,153,411.00	\$ 1,153,411.00	\$ 36,992.88	\$ 374,902.23	\$ 702,753.46	\$ 1,116,648.57
SCG3530 3P Portfolio of the Future	\$ 973,411.00	\$ 973,411.00	\$ 33,997.50	\$ (99,713.00)	\$ 1,000,859.49	\$ 935,143.99
SCG3535 3P VESM Advantage	\$ -	\$ -	\$ (33,890.39)	\$ 40.77	\$ -	\$ (33,849.62)
SCG3544 3P EDC Domestic Hot Water Controls	\$ 1,052,340.00	\$ 1,052,340.00	\$ 218,887.75	\$ -	\$ 158,424.98	\$ 377,312.73
SCG3545 3P Demand Based Ventilation Program	\$ -	\$ -	\$ -	\$ -	\$ 103,305.00	\$ 103,305.00
SCG3546 3P Benningfield Group - Advanced Water Heater Technology	\$ 1,191,533.00	\$ 1,191,533.00	\$ 190,618.72	\$ 91,131.90	\$ 398,709.57	\$ 680,460.19
SCG3547 3P Energy Efficient Smart Controls for Comm Pools & Spas	\$ -	\$ -	\$ (14,506.68)	\$ 779.77	\$ (33,574.89)	\$ (47,301.80)
SCG3548 3P Upstream Hi-Efficiency Water Heater Rebates	\$ 525,533.00	\$ 525,533.00	\$ 92,149.52	\$ 74,181.25	\$ 303,733.51	\$ 470,064.28
SCG3550 3P Multifamily Direct Therm Savings	\$ 2,177,611.00	\$ 2,177,611.00	\$ 20,290.12	\$ 157,381.37	\$ 1,823,145.04	\$ 2,000,816.53
SCG3549 3P Envinta Energy Challenger	\$ 127,011.00	\$ 127,011.00	\$ 8,464.57	\$ -	\$ 42,551.41	\$ 51,015.98
SCG3508 FYP4-Statewide Marketing & Outreach	\$ 1,718,854.00	\$ 1,733,854.00	\$ -	\$ 1,978,193.41	\$ -	\$ 1,978,193.41
SCG3523 BKP4-Bakerfield Kem Partnership	\$ 205,200.00	\$ 205,200.00	\$ 26,425.00	\$ 1,000.00	\$ (1,649.00)	\$ 25,776.00
SCG3518 CCP4-IOU/Community College Partnership	\$ 794,804.00	\$ 794,804.00	\$ 176,617.17	\$ 4,442.35	\$ 303,862.40	\$ 484,921.91
SCG3519 CDC4-CA Department of Corrections Partnership	\$ 1,920,000.00	\$ 1,920,000.00	\$ 39,036.84	\$ 968.06	\$ 79,454.07	\$ 119,458.97
SCG3501 CS4-Codes & Standards Program	\$ 696,966.00	\$ 696,966.00	\$ 56,392.71	\$ -	\$ 240,939.83	\$ 297,332.54
SCG3526 CUW4-California Urban Water Conservation Council	\$ -	\$ -	\$ (209.34)	\$ -	\$ -	\$ (209.34)
SCG3525 EC4-Energy Coalition - Direct Install	\$ 132,000.00	\$ 132,000.00	\$ 29,851.55	\$ 1,292.08	\$ 26,489.13	\$ 57,632.76
SCG3524 EC5-Energy Coalition - Peak	\$ 448,920.00	\$ 448,920.00	\$ 271,614.34	\$ (44,246.88)	\$ 172,558.06	\$ 399,925.52
SCG3502 EED4-Advanced Home Program	\$ 2,085,775.00	\$ 3,415,775.00	\$ 658,836.07	\$ 178,655.13	\$ 2,132,533.01	\$ 2,970,024.20
SCG3503 EET4-Education & Training Program	\$ 3,708,780.00	\$ 3,708,780.00	\$ 854,063.71	\$ 518.96	\$ 2,381,445.74	\$ 3,236,028.40
SCG3504 EMO4-Energy Efficiency Delivery Channel Innovation Program	\$ 3,142,436.00	\$ 3,142,436.00	\$ 247,149.72	\$ 927,642.88	\$ 416,194.65	\$ 1,590,987.25
SCG3506 ETP4-Emerging Tech Program	\$ 1,207,411.00	\$ 1,207,411.00	\$ 582,517.93	\$ (4,665.92)	\$ 638,678.34	\$ 1,216,530.35
SCG3507 EXP4-Express Efficiency Rebate Program	\$ 12,187,803.00	\$ 12,187,803.00	\$ 1,477,831.72	\$ 1,156,974.61	\$ 1,102,077.60	\$ 3,736,883.93
SCG3509 HES4-Home Energy Efficiency Survey	\$ 973,829.00	\$ 973,829.00	\$ 217,150.67	\$ 61,927.44	\$ 712,426.35	\$ 991,504.46
SCG3527 LAP4-Los Angeles County partnership	\$ 584,884.32	\$ 584,884.32	\$ 62,923.05	\$ 1,000.00	\$ 10,346.96	\$ 74,270.01
SCG3510 MFR4-Multi-Family Rebate Program	\$ 1,716,731.00	\$ 1,716,731.00	\$ 295,399.31	\$ 64,458.95	\$ 482,501.43	\$ 842,359.69
SCG3542 NEW4-Savings By Design SCG SCE Program	\$ 2,543,761.00	\$ 2,693,761.00	\$ 269,863.73	\$ 93,419.93	\$ 1,714,042.03	\$ 2,077,325.68
SCG3513 NRF4-Local Business Energy Efficiency Program	\$ 19,109,314.00	\$ 17,594,314.00	\$ 1,828,933.36	\$ 101,318.82	\$ 5,125,023.57	\$ 7,055,275.75
SCG3514 OBF4-On-Bill Financing for Energy Efficiency Equipment	\$ 1,346,104.45	\$ 1,346,104.45	\$ 443,723.42	\$ 3,235.00	\$ -	\$ 446,956.42
SCG3528 RCX4-RCX Partnership with SCE	\$ 954,852.84	\$ 954,852.84	\$ 45,739.46	\$ -	\$ 167,615.08	\$ 213,349.54
SCG3543 Palm Desert Partnership Program	\$ 1,320,000.00	\$ 1,320,000.00	\$ 276,569.11	\$ 92,918.59	\$ 375,390.56	\$ 744,878.26
SCG3522 SBP4-South Bay Partnership	\$ 140,400.00	\$ 140,400.00	\$ 50,770.28	\$ 8,775.91	\$ 50,543.40	\$ 110,089.58
SCG3516 SCD4-Sustainable Communities Demo/City of Santa Monica	\$ 988,770.60	\$ 988,770.60	\$ -	\$ -	\$ -	\$ -
SCG3517 SFR4-Home Efficiency Rebate Program	\$ 8,651,215.00	\$ 8,651,215.00	\$ 1,354,063.29	\$ 789,253.73	\$ 5,367,331.60	\$ 7,510,648.62
SCG3520 UCP4-IOU/UC/CSU Partnership	\$ 1,140,000.00	\$ 1,140,000.00	\$ 370,146.39	\$ 3,862.03	\$ 2,565.28	\$ 376,573.70
SCG3521 VCP4-Ventura County Partnership	\$ 159,600.00	\$ 159,600.00	\$ 57,282.76	\$ 38,147.76	\$ 54,485.40	\$ 149,915.91
<b>Total Portfolio</b>	<b>\$ 80,034,037.21</b>	<b>\$ 80,034,037.21</b>	<b>\$ 8,911,039.12</b>	<b>\$ 6,257,571.08</b>	<b>\$ 30,028,667.99</b>	<b>\$ 45,197,278.19</b>

**Southern California Gas Company  
2006-2008 Green Building Initiative (GBI) Report  
Southern California Gas Company  
Quarter Ending December 2009 - Revised as of May 31, 2010**

Table 4.1: GBI Goal and Results

	Expenditures (\$)	Summer Peak (kW, net) kW Installed	Energy Savings (kWh, net) kWh Installed	Gas Savings (Net Annual Therms) Therms Installed
<b>State Buildings Only</b>				
Quarterly Totals	\$0			25,462
Current Program Cycle	\$0			25,462
Total Since Inception	\$2,046,998			1,444,863
2009 Utility Target				
2009 Utility Target: % Fulfilled	#DIV/0!			#DIV/0!
<b>Commercial Buildings Only</b>				
Quarterly Totals	\$1,063,481			85,086
Current Program Cycle	\$1,068,506			1,546,477
Total Since Inception	\$11,799,704			29,402,590
2009 Utility Target				
2009 Utility Target: % Fulfilled	#DIV/0!			#DIV/0!
<b>Other Public Buildings Only</b>				
Quarterly Totals	\$79,152			0
Current Program Cycle	\$79,152			97,962
Total Since Inception	\$2,512,313			2,630,277
2009 Utility Target				
2009 Utility Target: % Fulfilled	#DIV/0!			#DIV/0!
<b>Commercial &amp; Institutional</b>				
Quarterly Totals	\$1,142,633			110,548
Current Program Cycle	\$1,147,658			1,669,900
Total Since Inception	\$16,359,015			33,477,730
2009 Utility Target				
2009 Utility Target: % Fulfilled	#DIV/0!			#DIV/0!

**Southern California Gas Company  
2006-2008 Green Building Initiative (GBI) Report  
Southern California Gas Company  
Quarter Ending December 2009 - Revised as of May 31, 2010**

Table 4.2: GBI Results by NAICS Code

	Square Footage		Summer Peak (kW, net)		Energy Savings (kWh, net)		Gas Savings (Net Annual Therms)	
	Total Installed (inception to date)	Total Installed (Report Quarter)	Total Installed (inception to date)	Total Installed (Report Quarter)	Total Installed (inception to date)	Total Installed (Report Quarter)	Total Installed (inception to date)	Total Installed (Report Quarter)
<b>Commercial &amp; Institutional Buildings</b>								
Nonresidential								
42	-	-	-	-	-	-	250,341	-
44	-	-	-	-	-	-	397,193	-
45	-	-	-	-	-	-	55,808	-
49	-	-	-	-	-	-	151,799	-
51	-	-	-	-	-	-	49,696	-
52	-	-	-	-	-	-	9,810	-
53	-	-	-	-	-	-	113,159	-
54	-	-	-	-	-	-	565,277	-
55	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	3,202,873	33,013
61	-	-	-	-	-	-	3,522,836	-
62	-	-	-	-	-	-	515,935	-
71	-	-	-	-	-	-	175,259	-
72	-	-	-	-	-	-	1,649,474	77,535
81	-	-	-	-	-	-	21,692,831	-
92	-	-	-	-	-	-	1,125,437	-
<b>Total</b>							<b>33,477,730</b>	<b>110,548</b>

Table 4.3: GBI Results by End Use Classification

	Square Footage		Summer Peak (kW, net)		Energy Savings (kWh, net)		Gas Savings (Net Annual Therms)	
	Total Installed (inception to date)	Total Installed (Report Quarter)	Total Installed (inception to date)	Total Installed (Report Quarter)	Total Installed (inception to date)	Total Installed (Report Quarter)	Total Installed (inception to date)	Total Installed (Report Quarter)
<b>Nonresidential</b>								
HVAC	-	-	-	-	-	-	3,051,101	-
Lighting	-	-	-	-	-	-	-	-
Office	-	-	-	-	-	-	-	-
Process	-	-	-	-	-	-	25,839,630	-
Refrigeration	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	4,586,999	110,548
<b>Total</b>							<b>33,477,730</b>	<b>110,548</b>

**Southern California Gas Company  
2006-2008 Energy Efficiency EM&V Expenditures Report  
Quarter Ending December 2009 - Revised as of May 31, 2010**

Table 3: Quarterly EM&V Expenditures

SCG EM&V Budget (3 - Yr)		Budgets			Inception-to-Date Expenditures			Report Quarter Expenditures										
		Staff EM&V Budget (3 - Yr)	Total EM&V Budget (3 - Yr)	IOU EM&V Expenditures (Inception-To-Date)	Staff EM&V Expenditures (Inception-To-Date)	Total EM&V Expenditures (Inception-To-Date)	IOU EM&V Expenditures (Report Quarter)	Staff EM&V Expenditures (Report Quarter)	Total EM&V Expenditures (Report Quarter)									
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	14,979	\$	36,897	\$	51,876	\$	14,979	\$	36,897	\$	51,876	1st Q 2006
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	30,677	\$	62,869	\$	93,546	\$	15,698	\$	25,972	\$	41,670	2nd Q 2006
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	55,826	\$	95,377	\$	151,203	\$	25,150	\$	32,508	\$	57,657	3rd Q 2006
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	86,281	\$	103,325	\$	189,606	\$	30,455	\$	7,949	\$	38,403	4th Q 2006
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	123,728	\$	147,216	\$	270,944	\$	37,447	\$	43,890	\$	81,338	1st Q 2007
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	164,940	\$	170,142	\$	335,082	\$	41,212	\$	22,926	\$	64,137	2nd Q 2007
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	276,634	\$	232,650	\$	509,285	\$	111,694	\$	62,508	\$	174,203	3rd Q 2007
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	756,648	\$	398,511	\$	1,155,159	\$	480,014	\$	165,861	\$	645,874	4th Q 2007
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	975,304	\$	488,898	\$	1,464,202	\$	218,656	\$	90,387	\$	309,043	1st Q 2008
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	1,268,286	\$	853,766	\$	2,122,052	\$	292,982	\$	364,868	\$	657,851	2nd Q 2008
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	1,452,891	\$	1,313,922	\$	2,766,814	\$	184,605	\$	460,156	\$	644,761	3rd Q 2008
\$	3,661,275	\$	9,779,754	\$	13,441,029	\$	1,556,713	\$	1,764,926	\$	3,321,639	\$	103,822	\$	451,004	\$	554,825	4th Q 2008
\$	5,261,955	\$	14,581,794	\$	19,843,749	\$	1,669,429	\$	2,295,028	\$	3,964,457	\$	112,716	\$	530,102	\$	642,818	1st Q 2009
\$	5,261,955	\$	14,581,794	\$	19,843,749	\$	1,748,755	\$	3,148,383	\$	4,897,138	\$	79,325	\$	853,355	\$	932,681	2nd Q 2009
\$	5,261,955	\$	14,581,794	\$	19,843,749	\$	1,853,614	\$	4,103,793	\$	5,957,408	\$	104,860	\$	955,410	\$	1,060,270	3rd Q 2009
\$	5,261,955	\$	14,581,794	\$	19,843,749	\$	1,956,500	\$	5,207,577	\$	7,164,077	\$	102,886	\$	1,103,784	\$	1,206,670	4th Q 2009

NOTE: Add Bridge Funding EM&V for 2009