FUTURE OF CITIES IN INLAND SOUTHERN CALIFORNIA

A Quest for Sustainability

Utilities Role in Securing a Sustainable Future

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Overview

Local Government Partnerships

Energy Efficiency & Assistance Programs

On Bill Financing

Other Programs/Technology:
- NGV/Compression Services Tariff
- Renewable Natural Gas/Biogas Conditioning Services
- Distributed Generation
Local Government Partnerships

Local Government Partnerships: Goal is to increase energy efficiency in municipal facilities, provide programs and services to local communities that can help them reduce both operating costs and greenhouse gas emission levels through energy-efficiency.

SoCalGas has 22 Local Government Partnerships throughout Southern California. (All joint with SCE, and 3 with PGE)

There are 8 Local Government Partnerships in the Inland Region

- City of Beaumont
- City of Redlands
- Coachella Valley Association of Governments (CVAG)
- Community Energy Partnership (Moreno Valley/Corona/San Bernardino)
- County of Riverside
- County of San Bernardino
- San Bernardino Association of Governments (SANBAG)-Adding 2015
- San Gabriel Valley Council of Governments (SGVCOG)
- Western Riverside Council of Governments (WRCOG)
Partnerships Overview
Key Program Elements

Government & Institutional
- EE Retrofits
- Retro-Commissioning (RCx)
- Benchmarking
- Program Admin & Engineering Support
- On-Bill Financing

Strategic Plan
- Code Compliance Support
- Reach Code Support
- Guiding Documents Support
- Funding Sources
- Peer-to-Peer Support
- Technical assistance

Program Coordination
- Outreach & Education
- 3rd Party Program coordination
- New Construction
- Emerging Technologies
- Training programs
- Energy Upgrade and CSI- Thermal
California Long Term EE Strategic Plan

Adopted in 2008

Roadmap to achieving maximum energy savings in the state between 2009 and 2020, and beyond.

Four “Big Bold strategies”

➢ All new residential construction will be zero net energy by 2020
➢ All new commercial construction will be zero net energy by 2030
➢ The Heating, Ventilation and Air Conditioning (HVAC) industry will be shaped to deliver maximum performance HVAC systems.
➢ All eligible low-income customers will have an opportunity to participate in the LIEE program and will be provided cost-effective energy efficiency energy efficiency measures in their residences by 2020.

CLTEESP: Local Government

LOCAL GOVERNMENT CHAPTER

Vision:
By 2020, California’s local governments will be leaders in using energy efficiency to reduce energy use and global warming emissions both in their own facilities and throughout their communities.

GOALS

1. Local governments lead adoption and implementation of “reach” codes stronger than Title 24, on both mandatory basis and voluntary bases.

   At least 5 percent of California’s local governments (representing at least 5 percent of CA total population) each year adopt “reach” codes.

   By 2020, the majority of local governments have adopted incentives or mandates to achieve above-code levels of energy efficiency (or DSM) in their communities, or have led statewide adoption of these higher codes.

2. Strong support from local governments for energy code compliance enforcement.

   The current rate of non-compliance with codes and standards is halved by 2012, halved again by 2016, and there is full compliance by 2020.

3. Local governments lead by example with their own facilities and energy usage practices.

   The energy usage footprint of local government buildings is 20% below 2003 levels by 2015 and 20 percent below 1990 levels by 2020.

4. Local governments lead their communities with innovative programs for energy efficiency, sustainability and climate change.

   By 2015, 50 percent of local governments have adopted energy efficiency/sustainability/climate change action plans for their communities and 100 percent by 2020, with implementation and tracking of achievements.

5. Local government energy efficiency expertise becomes widespread and typical.

   By 2020, 100 percent of local governments have in-house capabilities devoted to achieving all cost-effective energy efficiency in their facilities and stimulating the same throughout the communities.
SEEC is a collaborative between three statewide nonprofits organizations and California’s four investor-owned utilities.

SEEC provides free technical trainings and resources to help local government representatives conduct greenhouse gas inventories, set GHG reduction targets and forecasts, develop climate action plans, and select appropriate climate and energy initiatives.

Host venues for peer-to-peer networking and provided recognition to local governments and agencies that reduce greenhouse gas emissions and energy use.

http://californiaseec.org/
Energy Efficiency Programs: Rebates

» The Southern California Gas Company (SoCalGas ®) 2013-2015 Energy Efficiency programs are designed to help Residential and Business customers save energy, save money and help the environment.

» These Statewide Energy-Efficiency programs are funded by California utility customers through the Public Purpose Program Surcharge (PPPS) found on your utility bill. They are administered by the state’s investor-owned utilities, under the auspices of the California Public Utilities Commission.

» The following Utilities participate in these programs:
  - Southern California Gas Company
  - Southern California Edison ® (electric utility) - SCE
  - Pacific Gas and Electric ® (electric and gas utility) - PG&E
  - San Diego Gas and Electric ® (electric and gas utility) - SDG&E

» Always check with water providers and/ or your local municipal-owned utilities for additional rebates on energy-efficiency and conservation.
Municipal & Commercial Programs: Energy-Efficiency Incentives

Incentives:
Program encourages local governments and businesses to move forward with comprehensive energy efficiency projects and process improvements not represented by our rebate program.

Qualifying projects include:
- Equipment replacement
- Process improvement
- New construction utilizing the Systems Approach
- Savings By Design

Energy Efficiency Calculated Incentive Programs (EECIP):
EECIP offers financial incentives and recognition awards for a variety of energy-saving projects. The incentive is based on yearly therm savings. The more therms you save, the greater your incentive.

Calculated incentives are awarded as follows:
- Incentives are paid at $1.00 per therm saved, up to $1,000,000 per project, and up to $2,000,000 per premise per year
- or 50% of the project cost. (Partnerships have an 80% cap)
California Alternate Rates for Energy (CARE)
The CARE program provides a 20% discount on the monthly gas bill for eligible households. In addition, for those who qualify, and are approved within 90 days of starting new gas service will also receive a $15 discount on the Service Establishment Charge.

Energy Savings Assistance Program
SoCalGas offers no-cost energy-saving home improvements and furnace repair or replacement services for income-qualified renters and homeowners.

Gas Assistance Fund (GAF)
Is a voluntary effort to help customers respond to financial emergencies. This program is supported by generous donations from employees, shareholders and customers. Gas rates are not affected by the funds matched by the company.

Medical Baseline
If someone in your household has a life-threatening illness, is seriously disabled, or requires more heat in the winter due to a serious health condition, you may qualify for an additional 0.822 therms per day, billed at our lowest baseline rate.
Services and Resources:

Energy Resource Center:
Take advantage of the many seminars and training opportunities at the Energy Resource Center, located in Downey. The ERC offers a variety of technical training for customers, and many seminars at no-cost.

The Food Service Equipment Test Center is the largest facility of its kind in the United States. The center provides customers with a total energy efficiency experience including: over 130 pieces of foodservice equipment, equipment demonstrations, training, and valuable rebate information.

Other customer services:
- On-site Energy Assessments
- Online Energy Challenger Survey
- Flue gas analysis for your boilers (limit one per year)

For a seminar calendar of events go to socalgas.com/innovation/fsec or call 562-803-7323
Project:
- Must qualify for a utility rebate/incentive program (commercial, industrial, taxpayer-funded, and non-owner occupied Multifamily housing).
- Non-Public Purpose Program (PPP) ratepayer-funded sustainable revolving loan pool of $3.5M.
- Loan term is tied to the payback period of the project.
- Customers can receive both an OBF loan and a rebate or an incentive.

Credit:
- Applicant’s account must be in good standing.
- Applicant must be a customer of the utility (active account) for at least 24 months in the same business, with at least 12 months of energy usage data at the current location.

Other Requirements:
- Energy audit; pre-/post-inspection.
- Loan is non-transferable.
- Loan Default will result in Meter shut-off.

http://www.socalgas.com/for-your-business/rebates/zero-interest.shtml
Financing Options:
On-Bill Financing

Loan Benefits:
- 0% interest, unsecured, non-transferable.
- Energy savings of project covers the loan installment.
- Monthly loan payment is included on the utility bill.

Loan Amounts:
- $5,000 to $100,000 per meter for NON-INSTUTIONAL customers.
- $5,000 to $250,000 per meter for INSTITUTIONAL customers (taxpayer-funded institutions such as counties, cities, school districts, etc.)
- Eligible State of California accounts may qualify for up to $1,000,000.

Loan Term:
- Loan term is tied back to the payback period; 10 years or useful equipment life (whichever is shorter) for local government institutions, including State of California accounts.
- Five years or useful equipment life (whichever is shorter) for all other businesses.
Natural Gas as a Transportation Fuel

» Vehicles are among the largest sources of both NOx and GHG emissions in California

» LA Metro (By switching to CNG, Metro has reduced cancer-causing particulates from the bus fleet by 98 percent, carbon monoxide by 80 percent and greenhouse gases by about 150 tons per day.)

» Offering Compression Services Tariff to facilitate development of NGV market by proving natural gas at higher pressure to enable fueling
Heavy Duty Truck Emissions Important to Reach Ozone and GHG Goals

GHG Emissions (Thousand Short Tons per Day)
NOx Emissions (Short Tons per Day)

Harbor Craft
Off-Road Equipment
Ocean Going Vessel
Aircraft
Rail
Heavy Duty Truck
Light-Duty and Medium-Duty Vehicle

Notes:
1. NOx emissions were obtained from 2012 AQMP
2. GHG emissions were extracted from the CARB Vision Model.
3. Aircraft GHG emissions are not included because basin-specific aircraft GHG emissions are not available in the CARB Vision Model.
Biogas

» Renewable Natural Gas/Biogas will help lower the greenhouse gas profile of all natural gas uses
  ▪ Agricultural waste
  ▪ Wastewater treatment facilities
  ▪ Landfills

» Offering Biogas Conditioning Services Tariff to facilitate development of renewable natural gas market by providing a means to clean biogas so it can be injected into our pipelines
Distributed Generation

» Federal/State Policies support Combined Heat and Power (CHP)

» CHP benefits
  ▪ Reduced GHG and polluting emissions
  ▪ Reduced peak demand
  ▪ Reduced energy costs for customers

» Application in front of CPUC for Distributed Energy Resource Tariff to facilitate more efficient use of heat and power.
Economic Sustainability

» Three pillars of sustainability: Environment, Social and Economic

» Natural gas offers immediate solutions at a lower cost
Resources:

The following resources are also available:

- Partnership Program Managers
- Account Executives
- Gas Service Technicians
- Public Affairs Managers

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