

Southern California Edison

**2000 Energy Efficiency Programs
Fourth Quarter Report**

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SUMMARY

In Decision 00-07-017¹, the Commission directed SCE and other utilities to submit quarterly updates on all energy efficiency program activities. In compliance, SCE provides its Fourth Quarter Energy Efficiency Program Report.

¹ Ordering Paragraph No. 91, p. 273.

SOUTHERN CALIFORNIA EDISON ENERGY EFFICIENCY PROGRAMS

Residential Program Area Overview (for detail see A.99-09-049, p. C-4)

Southern California Edison Company's ("SCE") Residential programs promote the use of energy-efficient measures by consumers. The specific programs include: Residential Heating and Cooling, Residential Lighting, and Residential Appliances and Residential Retrofit and Renovation.

Residential Heating & Cooling Systems (for detail see A.99-09-049, p. C-4)

SCE's Residential Heating & Cooling Systems program consists of a comprehensive, coordinated set of strategies focused largely on increasing homeowner awareness of energy efficiency opportunities. Energy and cost savings in this market are achieved through: (1) increased availability and promotion of higher efficiency equipment at the time of equipment replacement by suppliers; (2) reductions in the search costs of customers in the market for efficient replacement equipment; (3) improved equipment sizing and installation practices, particularly for central air conditioners and heat pumps; and (4) ongoing proper operation and maintenance of HVAC systems.

Program Elements:

ELEMENT NAME	ELEMENT ACTIVITY
Residential Audits	See below
CEEREEE	See below
CHEERS	See below
Mass Market Information	See below
Emerging Technologies	See Crosscutting Programs
CTAC/AGTAC Energy Centers	See Crosscutting Programs
Third Party Initiatives	See Crosscutting Programs

Residential Audits (for detail see A.99-09-049, p. C-6)

Program Element Summary

Residential energy surveys take various forms such as do-it-yourself, in-home, or on-line and provide customers with energy-efficient information to help them reduce their energy bills. Activities include, but not be limited to, direct mail, bill messages or inserts, print media advertising, Internet, local governments, phone centers, and ethnic, trade, or community associations.

Element Activities, Accomplishments, Market Progress, & Modifications:

- *Mail-In Energy Audit Program* completed 32,582 audits for a net energy savings of 7,135 MWh and net demand reductions of 1.4 MW.
- *In-Home Energy Audit Program* completed 7,994 audits for net energy savings of 2,726 MWh and net demand reductions of 0.4 MW.
- *Phone Energy Audit Program*, completed 2,399 audits for net energy savings of 506 MWh and net demand reductions of 0.1 MW.
- *Online Energy Survey Program* completed 2,443 audits (Online Home Energy Survey launched in September) for net energy savings of 535.0 MWh.
- SCE developed a series of 20 energy efficiency measures that were customized for a senior mobile home park. The project was developed as a prototype design package that could be transferred to similar mobile home communities.
- PEAK is an in-school program designed to teach students about energy efficiency as part of existing science and mathematics courses, and demonstrate how students can control energy use. Computer software is being developed for the program and testing has begun in a local school district.

<p>Consortium for Energy Efficiency Residential Electric End-Use Efficiency (CEEREEE) (for detail see A.99-09-049, p. C8)</p>
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Program Element Summary

The purpose of the Consortium for Energy Efficiency/Residential Electric End-Use Efficiency (“CEEREEE”) initiative is to increase the acceptance and installation of energy-efficient equipment and devices by traditionally hard-to-reach residential end-users through pre-negotiated volume purchasing arrangements with manufacturers and dealer/distributors.

Element Activity, Accomplishments, Market Progress, & Modifications:

- ENERGY STAR® 15 ft³ refrigerator sales have been 273 for 2000 with 78% (214) of the sales occurring during the 3rd and 4th quarters. The sales figure is an indication of how sensitive the market is to first cost and how important residential refrigerator program rebates are to this sector.
- An ENERGY STAR® 18.5 ft³ refrigerator was added to the volume purchase program in January but 100% of the sales (47) were recorded during the 3rd and 4th quarters, again showing the effect of a rebate program.
- The ENERGY STAR® dishwasher sales have been 74 for 2000 with 70% (52) of the sales occurring during the 4th quarter. These dishwashers will save 19.8 MWh over one year. Demand savings are projected to be .009 MW.
- In October and November, identical advertisements for the ENERGY STAR® refrigerators and dishwasher were placed in 4 apartment association journals with a total circulation of 78,500.
- The high-performance coin-operated clothes washer strategic intervention field verification task at Leisure World Laguna Woods (LWLW) was completed on time and within budget. Our findings indicate that converting all conventional coin-

operated clothes washers to high-performance clothes washers at LWLW has a potential savings in excess of 1,000,000 kWh per year. We project the demand savings from this conversion to be 199 kW. LWLW has been apprised of the opportunity for saving energy and operating costs.

Residential - California Home Energy Efficiency Rating System Program (for detail see A.99-09-049, p. C-11)

Program Element Summary

This program supports the California Home Energy Efficiency Rating System (“CHEERS”), a statewide, nonprofit, home energy rating provider, nationally accredited and approved by the California Energy Commission. Owners of existing homes can obtain a CHEERS rating for a subsidized fee that will evaluate the current energy efficiency of the home. CHEERS will then make recommendations on cost-effective ways to improve the efficiency of the home and can possibly link the homeowner to beneficial financing via an energy-efficient mortgage (“EEM”). CHEERS also performs services in support of residential new construction activities such as verifications for Alternative Calculation Method (“ACM”) and Energy Star Homes.

Element Activity, Accomplishments, Market Progress, & Modifications:

- Performed 320 traditional CHEERS ratings; 2,520 Energy Wizards (in support of the In-Home Audit Program).
- Approximately 80% of CHEERS associated loans have resulted in Energy Efficiency Mortgages.
- In 2000, over 1,000 third party inspections and verifications were conducted in support of new construction program initiatives and activities.
- Eight training sessions were held in 2000 resulting in 65 trained Title 24 consultants and HVAC subcontractors. Training sessions were also held with numerous city building departments (City of Costa Mesa, City of Irvine, San Bernardino). An additional 18 people were trained in 5 sessions performed for 3 lending companies.
- Consumer awareness increased through expanded in-home audit that includes a CHEERS rating.
- Development and support for the implementation of activities related to AB 970.

Mass Market Information (for detail see A.99-09-049, p. C-14)

Program Element Summary

Residential Mass Market Information is an energy efficiency information and education program designed to give customers the power to better manage their home energy costs. The program provides general energy efficiency information to customers.

Element Activity, Accomplishments Market Progress, & Modifications:

- SCE continued to participate in the Statewide Information and Education Committee that focuses on the Residential and Small Commercial Energy Guides. The plan submitted in a previous quarter by the team continues to be implemented with elements added specific to SCE's service territory.
- Awareness of the Residential Energy Guides included a bill insert reaching 3.6 million residential customers, a flyer placed in energy conservation boxes for children reaching 6,000 residential homes including low-income customers, and advertisement on SCE's website with a direct link to order the Energy Guide.
- Outreach to community-based organizations included: Community Action Commission of Santa Barbara County, Center for Employment Training, Commission on Human Concerns, Community Services Department of San Bernardino County, East San Gabriel Valley Consortium (LA Works), Long Beach Community Services Development Corporation, Maravilla Foundation, Proteus, Southern California Indian Center, TELACU, Veterans in Community Service, and Vo Vi Friendship Association. Energy Guides distributed from non-profit outreach totaled 2,000.
- Outreach also included home improvement stores and other retail outlets. This outreach included at least 140 visits of the Energy Star Bus where at least 29,000 customers learned about energy efficiency and were able to obtain a copy of the Energy Guide. Further development of outreach to the retail segment will include the evaluation and pilot implementation of kiosks where the Energy Guide and other energy efficiency information can be displayed.
- Other outreach included Home Shows and other special events such the Long Beach Apartment Owners Association. These types of outreaches totaled 68 visits and more than 28,500 contacts.
- Other delivery channels for distribution included: Phone Centers, trade and ethnic associations and conferences, media personnel for promotional purposes, chambers of commerce's, community events, and other energy efficiency programs.
- Residential Energy Guides distributed during the 4th Quarter: 2,540 English; 2000 Chinese; and 4,300 Spanish. Total for the year is: 4,199 English; 2,002 Chinese; and 4,520 Spanish.

Residential Lighting (for detail see A.99-09-049, p. C-20)

SCE's Residential Lighting program seeks to transform specific components of the market for residential lighting products through a coordinated set of program elements. The program's integrated efforts build consumer awareness and market demand for energy-efficient lighting products by working with the supply side of the product chain to make efficient lighting products more readily available to consumers.

Program Elements:

ELEMENT NAME	ELEMENT ACTIVITY
Residential Lighting	See below
Residential Contractor	See below
Residential Audits	See Residential Heating & Cooling Systems Program
Mass Market Information	See Residential Heating & Cooling Systems Program
CEEREEE	See Residential Heating & Cooling Systems Program
CHEERS	See Residential Heating & Cooling Systems Program
CTAC/AGTAC Energy Centers	See Crosscutting Programs
Third Party Initiatives	See Crosscutting Programs

Residential Lighting (for detail see A.99-09-049, p. C-22)

Program Element Summary

The statewide Residential Lighting Program seeks to transform the market for residential lighting products through a comprehensive set of market interventions that are coordinated statewide. The program focuses on three main areas: (1) enhancing the manufacture and competitive pricing of high quality energy-efficient lighting products; (2) enhancing the distribution and marketing of energy-efficient lighting products through established retail channels to consumers; and (3) building consumer understanding of how to purchase and use energy-efficient lighting products.

Element Activity, Accomplishments, Market Progress, & Modifications:

- Trained 405 sales associates at 73 participating stores
- 40,572 torchieres shipped to stores in SCE's service area
- Manufacturers and retailers participated in 10 cooperative promotional projects to promote ENERGY STAR® qualified lighting products
- Conducted 54 sidewalk lighting sales and in-store promotions
- 51 models of energy-efficient lighting fixtures and 65 models of CFLs were available in retail channels representing a total inventory of 12,236 units available for purchase

Program Element Summary

The Residential Contractor Program (“RCP”) contains two distinct elements. The first element, the Single-Family Element (“SF-RCP”), applies to single-family homes, condominiums, small-attached apartments (e.g., duplex, four-plex) and mobile homes. The second element, the Multifamily Element (“MF-RCP”) applies to apartment/condominium complexes and mobile home park common areas.

Single Family Element. The SF-RCP seeks to promote and facilitate an increase in the application of “whole-system” and “whole-house” approaches to discretionary residential retrofit activities while increasing the market penetration of energy-efficient products and services.

Multifamily Element. The MF-RCP is designed to foster energy efficiency improvements in multifamily buildings by promoting sustaining relationships between apartment building owners/property managers and contractors/energy service companies (“ESCOs”).

Element Activity, Accomplishments, Market Progress, & Modifications:

- RCP-approved contractors in Single Family Element total 316 an increase of 153 above the 1999 baseline of 163.
- Achieved 210% increase (65 new participants) over 1999 baseline of 31 in the number of Single Family Element participating contractors (requires measure(s) installed for at least 5 customers).
- Single Family Element incentives paid/committed over \$3.5 million.
- Multifamily budget fully subscribed, committing \$1.3 million.
- 7 new project sponsors participating in Multifamily Element, achieving a 175% increase in participation over 1999 baseline.
- This year the program has produced energy savings of over 17,910 MWh and 2.99 MW based on paid/committed incentives.
- Customer Participation: Over 26,000 Single Family vouchers and 33 Multifamily applications/130 sites.

Residential Appliances (for detail see A.99-09-049, p. C-40)

SCE’s Residential Appliances program seeks to transform specific components of the market through a comprehensive and coordinated set of market interventions. The program is comprised of upstream and downstream marketing and financial incentives. These efforts will provide consumers who are making planned or emergency replacement appliance purchases with information on the economic and environmental benefits of purchasing energy-efficient equipment. SCE’s program will promote the ENERGY STAR® label, and help consumers identify sources for ENERGY STAR® products.

Program Elements:

ELEMENT NAME	ELEMENT ACTIVITY
Residential Refrigerator Recycling	See below
Residential Appliance	See below
Residential Audits	See Residential Heating & Cooling Systems Program
Mass Market Information	See Residential Heating & Cooling Systems Program
CEEREEE	See Residential Heating & Cooling Systems Program
CHEERS	See Residential Heating & Cooling Systems Program
CTAC/AGTAC Energy Centers	See Crosscutting Programs
Third Party Initiatives	See Crosscutting Programs

Residential Refrigerator Recycling (for detail see A.99-09-049, p. C-42)

Program Element Summary

Residential Retrofit - Appliance Early Retirement and Recycling - educates and provides direct incentives to consumers for eliminating highly inefficient refrigerators and freezers from the market place, and provide marketing assistance to a turnkey service provider.

Element Activity, Accomplishments, Market Progress, & Modifications:

- Recycled 42,029 refrigerators and freezers.
- Achieved 66,952 MWh and 11.7 MW.

Residential Appliance (for detail see A.99-09-049, p. C-44)

Program Element Summary

The statewide Residential Appliance program seeks to transform the market for residential appliances through a comprehensive set of market interventions that are coordinated statewide. The program focuses on the major energy-using appliances in the home: refrigerators; clothes washers; dishwashers; and room air conditioners.

Element Activity, Accomplishments, Market Progress, & Modifications:

- Received 18,739 reservations for clothes washer rebates and paid 5,795 rebates.
- Received 18,494 reservations for refrigerators and paid 4,037 rebates resulting in energy savings of 1,029 MWh and 0.15 MW
- Paid 3,600 dealer incentives for room air conditioners and achieved 1,572 MWh and .695 MW.
- Manufacturers and retailers completed 11 cooperative promotional projects to promote ENERGY STAR® qualified appliances.
- Provided ENERGY STAR® sales training to 182 storefronts and 921 sales associates participated in the program. Point of purchase materials promoting refrigerator rebates was also distributed to participating dealers.
- Advertising and promotional efforts to increase consumer awareness this quarter involved featuring story releases about ENERGY STAR® appliances in the editorial sections of newspapers.

Residential Retrofit & Renovation (for detail see A.99-09-049, p. C-55)

SCE's Residential Retrofit & Renovation program seeks to transform efficiency markets by simultaneously increasing market demand for energy efficiency services, strengthening service capability, and supporting introduction of new energy service products. An integrated program to address this market offers the potential of being more efficient, synergistic and effective than a combination of programs defined by end-users, technologies or intervention strategies.

Program Elements:

ELEMENT NAME	ELEMENT ACTIVITY
Residential Contractor	See Residential Lighting Program
Window/Frame Systems Labeling	See below
HVAC Diagnostics	See Below
Residential Audits	See Residential Heating & Cooling Systems Program
Mass Market Information	See Residential Heating & Cooling Systems Program
CEEREEE	See Residential Heating & Cooling Systems Program
CHEERS	See Residential Heating & Cooling Systems Program
Emerging Technologies	See Crosscutting Programs
CTAC/AGTAC Energy Centers	See Crosscutting Programs
Third Party Initiatives	See Crosscutting Programs

Window/Frame System Labeling (for detail see A.99-09-049, p. C-61)

Program Element Summary

This program provides information to customers concerning the benefits and the value of ENERGY STAR® rated windows through the use of in-store kiosks, educational materials, the Mobile Educational Unit, and knowledgeable sales personnel at the retail level. Program materials are provided by the manufacturers using program funds and their own matching funds. Training is provided by the manufacturer in concert with an implementer chosen by SCE through a competitive bid.

Element Activity, Accomplishments, Market Progress, & Modifications:

- Signed agreements with five manufacturers to provide promotional, advertising, and stocking incentives support for their retail stores and dealerships
- 78 retail stores participated in promoting point-of-purchase displays, end-caps stocking, and front-of-store sales
- Twenty-nine kiosks, 205 banners, and 13,000 brochures were furnished with point-of-purchase materials in retail stores and dealer networks to increase consumer awareness.
- SCE was successful in increasing inventory and stocking levels. As a result, more high efficiency windows were on the floor for customers to purchase.

HVAC Diagnostic Program (Check-Me) (for detail see A.99-09-049, p. C-63)

Program Element Summary

This program offers air conditioning technicians a computer-based system that provides an analysis of the customers air conditioning system and provides immediate feedback of corrective action necessary to bring the system into compliance with specifications. The system analyzes areas that include 1) system leaks, 2) proper airflow across evaporator coils, and 3) correct refrigerant charge level based on line length and diameter. The program also promotes the benefits of this diagnostic procedure to customers.

Element Activity, Accomplishments, Market Progress, & Modifications:

- Trained and certified over 104 HVAC technicians with the use of the CheckMe! Software program.
- Completed 2,566 service runs using the CheckMe! Software.
- SCE promoted the CheckMe! program with a message inside the SCE customer bills from June through October 2000.

Nonresidential Program Area (for detail see A.99-09-049, p. D-4)

Southern California Edison Company's ("SCE") nonresidential programs include: Small Nonresidential Comprehensive Retrofit; Large Nonresidential Comprehensive Retrofit; Nonresidential HVAC Equipment Turnover; Nonresidential Motor Turnover; Nonresidential Process; and Nonresidential Renovation & Remodeling. These programs are designed to: improve the level of retrofit energy-efficient investments in small and large commercial, industrial and agricultural end-users; transform the market new HVAC equipment and replacement motors, increase the level of energy efficiency process overhauls; and increase the level of energy efficiency investment in the nonresidential remodel market.

Small Nonresidential Comprehensive Retrofit (for detail see A.99-09-049, p. D-7)

The Small Nonresidential Comprehensive Retrofit program is designed to increase the level of retrofit efficiency investments among small commercial, industrial, and agricultural end-users. The program's elements target distinct opportunities in the retrofit market arising from predominant end-uses among small users.

Program Elements:

ELEMENT NAME	ELEMENT ACTIVITY
Small C/I Energy Do-It-Yourself Energy Survey	See below
Small/Medium Nonresidential Standard Performance Contract ("SMNSPC")	See below
Small/Medium Energy Management Services	See below
Small Nonresidential Mass Market Info.	See below
Agricultural/Pumping Services	See below
Small/Medium C/I Standard Incentives	See below
Emerging Technologies	See Crosscutting Programs
CTAC / AGTAC Energy Centers	See Crosscutting Programs
Third Party Initiative	See Crosscutting Programs

Small Commercial/Industrial Do-It-Yourself Energy Survey (for detail see A.99-09-049, p. D-9)

Program Element Summary

The Small Commercial/Industrial Do-It-Yourself Energy Survey takes various forms such as hardcopy, on-line, or CD ROM, and provides customers with energy efficiency information to help them reduce their energy bills. The surveys also provide an opportunity to introduce other energy efficiency products and services, such as small commercial/industrial rebates and retail outlets that feature ENERGY STAR[®]-rated products.

Activities, Accomplishment, Market Progress, & Modifications:

- Provided survey reports/ recommendations to approximately 1,566 small business customers as of the end of the fourth quarter.
- Customer survey process plan to measure the recommendation adoption rate has been developed. The plan will be implemented January/February 2001 with results expected by March 2001.

Small/Medium Nonresidential Standard Performance Contract Program ("SMNSPC") (for detail see A.99-09-049, p. D-11)

Program Element Summary

The SMNSPC Program is a statewide, performance-based financial incentive program targeted to small to medium size commercial/industrial customers and the Energy Efficiency Service Provider ("EESP") and mechanical/electrical contractor market. The program is a "standard offer" consisting of payment of a fixed-price incentive by the utility administrator to third-party project sponsors in exchange for measured kilowatt-hour (kWh) energy savings achieved by the installation of an energy efficiency project at a host customer facility.

Activities, Accomplishment, Market Progress, & Modifications:

- At year-end, SCE received 139 Small Business SPC applications, representing 15,234 MWh and demand savings of .76 MW.
- Incentive commitments of \$1,720,988.
- 30 new project sponsors participated in the 2000 SBSPC program
- Premium incentives totaling \$323,080 were offered to projects that are completed by June 1, 2001. This represents a demand savings of 2.25 MW.

Small/Medium Energy Management Services (for detail see A.99-09-049 p. D-14)

Program Element Summary

This program element is designed to augment other utility program elements which serve the nonresidential market by providing special services to serve the "under served" market segment which include minority and women owned businesses. This includes promoting awareness of energy efficiency and its benefits to businesses and to specific customer trade and ethnic associations along with the promoting awareness of utility nonresidential programs to specific customer trade and ethnic association members.

Activities, Accomplishment, Market Progress, & Modifications:

- An additional 85 individual customer contacts for technical support were achieved during the fourth quarter for a total of 437 contacts by year-end.

Small Nonresidential Mass Market Information (for detail see A.99-09-049 p. D-16)
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Program Element Summary

Small Nonresidential Mass Market Information is energy efficiency information and education program designed to give customers the power to better manage their business energy costs. The program provides general energy efficiency information to customers and other market actors through the following intervention strategies: Internet, statewide energy guide, and action plan for distribution, and possibly a statewide mass market communications plan involving radio or print.

Activities, Accomplishment, Market Progress, & Modifications:

- Established internal SCE channels for distribution of the Energy Guides to small business customers. These channels include the following:
 - SCE web site on the Internet, where customers may click on a button which generates an e-mail request in to SCE for the small business Energy Guide;
 - SCE telephone center, whose operators have the capability to immediately send an Energy Guide to a customer in response to various customer inquiry paths including but not limited to questions about saving energy, high bills, generation supply shortages, etc.
- Participated in an internal SCE direct mail small business customer information and education outreach promotion. The effort focused on summertime energy use, the potential for high seasonal energy bills, and using energy more efficiently. Customers were offered the new statewide Energy Guide in all three languages. The offer generated numerous customer requests for the Energy Guides.
- Developed 2000 draft statewide distribution plan for both the small business and residential statewide Energy Guide information and education brochures.
- Distributed a total of 6,093 copies (1,577 English, 4,515 Chinese, and 1 Spanish) of Business Energy Guide.
- Printed 14,000 additional copies of the English Business Energy Guide and 40,000 copies of Energy Tips for Small Businesses.

Agricultural/Pumping Services (for detail see A.99-09-049 p. D-16)

Program Element Summary

The Agricultural/Pumping Services program element is intended to influence water agencies, municipalities, agricultural, and other pumping customers to adopt preventative maintenance practices that should ultimately improve the overall efficiency of their pumping systems. This objective will be accomplished through hydraulic test specialists who provide pump efficiency tests that determine overall plant system efficiency, electrical motor performance, pump hydraulics and water well characteristics.

Activities, Accomplishment, Market Progress, & Modifications:

- Inspected and/or tested 3,629 pumps

- Energy savings of 22,000 MWh
- Contacted over 320 agricultural customers

Nonresidential Small/Medium C/I Standard Incentives (for detail see A.99-09-049 p. D-22)

Program Element Summary

The Nonresidential Small/Medium C/I Standard Incentives program educates and provides direct incentives to Small/Medium Business customers for the elimination of specific highly inefficient electrical products from use in their businesses. This program element also encourages vendors and contractors to increase their marketing activity to these smaller businesses by increasing the potential project cost effectiveness through financial incentives to customers

Activities, Accomplishment, Market Progress, & Modifications:

- Achieved 36,000 MWh of energy savings and demand savings of 7.1 MW.
- Provided \$2,165,500 in rebates to 887 customers for an average of \$2,400 per rebate.

Large Nonresidential Comprehensive Retrofit (for detail see A.99-09-049 p. D-29)

The Large Nonresidential Comprehensive Efficiency Retrofit program is designed to increase the level of retrofit efficiency investments involving large commercial, industrial, and agricultural end-users. An integrated approach combining early replacement and supplemental measures across related end-uses will maximize benefits and minimize costs. The program’s elements target distinct opportunities in the retrofit market arising from predominant commercial, industrial, and agricultural end-uses: HVAC, lighting, motor-drive systems, and process applications. The program includes an array of intervention strategies at critical points in the decision-making process for retrofit efficiency transactions.

Program Elements

ELEMENT NAME	ELEMENT ACTIVITY
Large Nonresidential Standard Performance Contracting	See below
Commercial Energy Efficiency Info. Svcs.	See below
Industrial Energy Efficiency Info. Svcs.	See below
Agricultural/Pumping Services	See Small Nonres. Comp. Retrofit
Emerging Technologies	See Crosscutting Programs
CTAC / AGTAC Energy Centers	See Crosscutting Programs

Large Standard Performance Contracting (for detail see A.99-09-049 p. D-31)

Program Element Summary

The Large Nonresidential Standard Performance Contracting (“LNSPC”) program is a statewide, performance-based financial incentive program targeted to large commercial/industrial customers and the EESP) market. The program is a “standard offer” consisting of payment of a fixed-price incentive by the utility administrator to end users or third-party EESPs in exchange for measured kilowatt-hour (kWh) energy savings achieved by the installation of an energy efficiency project at a host customer facility.

Activities, Accomplishment, Market Progress, & Modifications:

- Implemented 2000 Summer Initiative Peak Reduction Incentive program [9/2000]
- 133 active projects at year-end [out of 146 total applications received]
- Savings estimates: 157,419.6 MWh of energy savings
 32.4 MW of demand savings [19.9 peak MW]
- Incentives reserved: \$14.3 million for energy savings
 \$ 3.0 million for demand savings
 \$17.3 million total
- 25 new Project Sponsors participated in the 2000 program

Commercial Energy Efficiency Information Services (for detail see A.99-09-049 p. D-34)

Program Element Summary

The Commercial Energy Efficiency Information Services (“Commercial EEIS”) program element is designed to produce a permanent change in how commercial customers make decisions about equipment purchases and operational practices. This is accomplished by educating them through direct contact where discussions center around evaluating energy choices.

Activities, Accomplishment, Market Progress, & Modifications:

- Contacted nearly 3,000 commercial customer accounts

Industrial Energy Efficiency Information Services (for detail see A.99-09-049 p. D-36)

Program Element Summary

The Industrial Energy Efficiency Information Services (“Industrial EEIS”) program element is designed to produce a permanent change in how industrial customers make decisions about equipment purchases and operational practices. This program element seeks to alter the industrial customers’ mindset and elevate the importance of educating customers on how to make more informed energy choices.

Activities, Accomplishment, Market Progress, & Modifications:

- Contacted over 960 industrial customer accounts

Nonresidential HVAC Equipment Turnover (for detail see A.99-09-049 p. D-42)

The Nonresidential HVAC Turnover program seeks to transform the market for new heating, ventilation, and air-conditioning equipment. As existing equipment nears or reaches the end of its useful life, the program attempts to influence the decision-making process used by buyers and sellers of equipment purchased and installed through the normal replacement cycle. The program seeks to raise the efficiency level of equipment specified and selected by engineers, vendors, and contractors for end-users. Also, the program will attempt to stimulate market adoption of high-efficiency controls, optimal equipment sizing, and high-efficiency operation, and maintenance practices.

Program Elements:

ELEMENT NAME	ELEMENT ACTIVITY
Standard Performance Contracting	See Large Nonres. Comprehensive Retrofit
Industrial Energy Efficiency Info. Svcs.	See Large Nonres. Comprehensive Retrofit
HVAC Contractor Incentive Program	See below
Com'l. Energy Efficiency Info. Svcs.	See Large Nonres. Comprehensive Retrofit
Check Me - Contractor Program	See below
Emerging Technologies	See Crosscutting Programs
CTAC / AGTAC Energy Centers	See Crosscutting Programs

Nonresidential HVAC Contractor Incentive Program for detail see A.99-09-049 p. D-45)

Program Element Summary

The Nonresidential HVAC Contractor Incentive program seeks to transform the market for nonresidential single phase central air conditioners and central heat pump units through an upstream financial incentive strategy for HVAC installation contractors. At the point of the equipment replacement market event, the program focuses on creating a “market pull” condition to increase penetration rates of 12 SEER and above A/C units installed at small and medium nonresidential customer locations.

Activities, Accomplishment, Market Progress, & Modifications:

- Enhanced the program to include qualified HVAC equipment up to 7.5 tons (was 5 tons)
- Completed 3-month (September 15, 2000 to December 15, 2000) pilot program for qualified gas/electric package HVAC units up to 7.5 tons (203 reservations and 136 units installed)
- 18 training sessions were conducted for 167 participants.
- SCE initiated a 3-month pilot program for qualified gas/electric packaged HVAC units (up to 7.5 tons).

- Over 244 incentive reservations were received and 204 incentive claims were paid.
- 339 qualified (12 SEER and above) HVAC units were installed, resulting in an estimated energy savings of 297 MWh and 0.260 MW of demand reductions.

HVAC Diagnostic Program (Check-Me) (for detail see A.99-09-049 p. D-53)
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Program Element Summary

This program offers air conditioning technicians a computer-based system that provides an analysis of the customers air conditioning system and provides immediate feedback of corrective action necessary to bring the system into compliance with specifications. The system analyzes areas that include 1) system leaks, 2) proper air flow across evaporator coils, and 3) correct refrigerant charge level based on line length and diameter. The program also promotes the benefits of this diagnostic procedure to customers.

Element Activity, Accomplishments, Market Progress, & Modifications:

- Trained and certified over 14 HVAC technicians with the use of the CheckMe! Software program.
- Completed 453 service runs using the CheckMe! Software.

Nonresidential Motor Turnover (for detail see A.99-09-049 p. D-83)

The Motor Turnover program targets intervention strategies at manufacturers, distributors, vendors, and end-users to stimulate demand and supply for premium-efficiency motors, pumps, and fans, high-efficiency motor controls, and optimal motor sizing and application. While all nonresidential end-users are eligible, the primary end-user segments are industrial and agricultural.

Program Elements:

PROGRAM ELEMENT(S)	BUDGET
Large Standard Performance Contracting	See Large Nonres. Comprehensive Retrofit
Agricultural/Dairy Incentives	See below
Premium Efficiency Motor Distributor Incentive Program	See below
Comm'l. Energy Efficiency Info. Svcs.	See Large Nonres. Comprehensive Retrofit
Ind. Energy Efficiency Info. Svcs	See Large Nonres. HVAC Equip. Turnover
Agricultural/Pumping Services	See Large Nonres. Comprehensive Retrofit
Emerging Technologies	See Crosscutting Programs
CTAC / AGTAC Energy Centers	See Crosscutting Programs

Agricultural/Dairy Incentives (for detail see A.99-09-049 p. D-61)

Program Element Summary

The Agricultural/Dairy Incentive program element promotes the installation of premium efficiency motors and adjustable speed drives for such uses as irrigation pumping and vacuum milking processes. Direct financial incentives are used to convince customers to consider energy efficiency when replacing or retrofitting their existing equipment. Over time, such incentives can change customers purchasing behavior and ultimately suppliers' stocking practices.

Activities, Accomplishment, Market Progress, & Modifications:

- Energy savings of 4,007 MWh.
- 53 customers committed to the program (23 ASD/motor projects; 29 ASD only projects; and 1 motor only project).
- Continued special promotion of twice the published incentive level for equipment purchased and installed by December 1, 2000.

Premium Efficiency Motor Distributor Incentive Program (for detail see A.99-09-049 p. D-64)

Program Element Summary

The Premium Efficiency Motor Distributor Incentive program is a multi-year market intervention strategy, which seeks to transform the market for premium efficiency three phase electric motors. The program objectives are accomplished mainly through an upstream financial incentive strategy for non-original equipment manufacturer (OEM) motor distribution channel members to encourage stocking of qualifying motors.

Activities, Accomplishment, Market Progress, & Modifications:

- Number of Distributor/ Dealer Site Visits301
- Number of Distributors/ Dealers Enrolled.....65
- Number of Participating Distributors/ Dealers17
- Number of Motors Processed503
- kWh Saved.....390,311
- kW Reduction78

Market Size:

As of 12/31/00, based on our best estimates, Next Step program participating dealer location sites represented about 17% of the motor dealer “location site” universe (360 locations). Grainger, who is expected to join the initiative in 2001, represents another 5%, and the balance of non-participating dealers represents another 78%. We believe that we have the potential to ultimately attract a total of approximately 30% - 40% of the dealer location sites into the program.

Based upon the annual sales data collected in our enrollment process, we believe that the cross section represented by the currently enrolled Next Step dealers may equate to approximately 30-50% of the new motor sales in the SCE service territory. Many dealers will not join the Next Step program simply because they are not a good fit. As an example, perhaps they only sell DC motors, single phase motors, specialized or non-general purpose motors, are an original equipment manufacturer (OEM) that ships out of the area or just will not permit access to sales records under any circumstances.

Market Penetration:

Among motor dealers we have enrolled in the Next Step program, the market penetration of PE motors sold by those dealers in 1999 was approximately 10% of all of motors sold, which were of similar hp size and type to those covered in the program. During the fourth quarter of 2000 the number of qualifying PE motors sold by participating dealers more than doubled from the previous year's baseline. For these dealers, the Next Step program boosted the market penetration for qualifying PE motors for the quarter to approximately 20%.

Market Potential:

We feel that with a sustained effort, premium-efficient motors have the potential of approaching 50% - 60% of the new motor sales market. Many dealers sell single phase motors or motors that are beyond the scope of the Next Step Motor Program. Therefore it is very unlikely that premium-efficient motors will reach 90%+ market penetration.

Nonresidential Process (for detail see A.99-09-049 p. D-76)

This program is designed to increase the level of energy-efficient process overhauls on the part of commercial, industrial, and agricultural users. While the technical opportunities and constraints are distinct among commercial, industrial, and agricultural processes, the intervention strategies targeting barriers to energy-efficient choices are similar in all three elements.

Program Elements:

ELEMENT NAME	ELEMENT ACTIVITY
Large Standard Performance Contracting	See Large Nonres. Comprehensive Retrofit
Ind. Energy Efficiency Info. Svcs	See Large Nonres. HVAC Equip. Turnover
Agricultural/Pumping Services	See Small Nonres. Comprehensive Retrofit
Emerging Technologies	See Crosscutting Programs
CTAC / AGTAC Energy Centers	See Crosscutting Programs

Nonresidential Renovation & Remodeling (for detail see A.99-09-049 p. D-83)

The Commercial Remodeling/Renovation program seeks to increase the level of energy efficiency invested in the nonresidential remodel market. This program emphasizes efficient lighting design incorporating high-efficiency lighting equipment and supplemental controls.

Program Elements:

ELEMENT NAME	ELEMENT ACTIVITY
Savings By Design	See below
Large Standard Performance Contracting	See Large Nonres. Comprehensive Retrofit
Comm. Energy Efficiency Info. Svcs.	See Small Nonres. Comprehensive Retrofit
Emerging Technologies	See Crosscutting Programs
CTAC / AGTAC Energy Centers	See Crosscutting Programs

Savings By Design (for detail see A.99-09-049 p. D-85)

Program Element Summary

Savings By Design is a statewide program designed to transform energy efficiency investment behavior in the commercial remodeling and renovation market. The program seeks to permanently reduce or eliminate transaction costs and other specific market barriers currently limiting widespread adoption of integrated building design techniques and practices that contribute to energy-efficient facilities. Specific program elements address both the large and small commercial remodeling and renovation market segments, specific to “gut-rehabilitation” and tenant improvement projects including the public, private, and speculative construction markets. Delivery strategies utilizing training, education, outreach, and tool development as well as energy centers are integral to the program.

Activities, Accomplishment, Market Progress, & Modifications:

- The Systems Approach incentive rate for Small Business Customers (projects less than 500 kW) was increased to \$0.12/kWh. This "premium" was in effect for all projects submitted through the end of the year.
- The Systems Approach incentive rate for all industrial projects was increased from \$0.03 to \$0.05/kWh in effort to increase program activity.
- Continued to use varied promotional approaches to increase program activity. Examples included:
 - a one page ad developed for targeted trade journals;
 - a Savings By Design brochure insert directed to the renovation and remodeling market;
 - a direct customer mailing to SCE customers.

- The statewide SBD program, rolled-out in June of 1999, continues to be delivered in the service territories of Southern California Edison, San Diego Gas & Electric, and Pacific Gas and Electric Company. By focusing on remodeling or tenant improvement projects, commitments and redemptions for the program through December 31, 2000 were secured by SCE, as quantified below:

PROGRAM APPROACH	PROJECTS (NO.)	INCENTIVES (\$)	LOAD REDUCTION (KW)	ENERGY SAVINGS (KWH)
Design Team	0	0	n/a	n/a
Whole Building	8	287,121	597.0	2,510,040
Systems	65	1,328,959	3,533.6	21,115,489
Total Program	73	1,616,080	4,130.6	23,625,529

See Statewide Programs for further discussion of other activities completed for the Savings By Design program.

New Construction Programs (for detail see A.99-09-049 p. E-3)

New construction programs are developed to increase the energy efficiency of building design, as well as the efficiency of the technologies buildings employ. Prior to construction equipment efficiency for lighting, heating, ventilation, and air-conditioning can be upgraded, with supplemental equipment (primarily controls) or materials (e.g., insulation). Many of these energy efficiency measures become too expensive to install once a structure has been completed. As a result, many of SCE's efforts are directed toward the modify customers behavior during the concept and design phases of construction.

Residential New Construction (for detail see A.99-09-049 p. E-5)

SCE's Residential New Construction program seeks to transform the residential new construction market to one in which consumers demand and the market delivers homes which are substantially more energy-efficient. The program focuses on increasing awareness among key market actors – including consumers, lenders and builders, and third-party builder allies (architects, energy consultants, subcontractors, Title 24 Consultants, and CHEERS raters). The integrated approach to this market includes increased awareness through targeted information on the value of efficient construction, enhancement of skills through education and training, and the creation of an attractive, competitive market for efficient new homes.

Program Elements:

ELEMENT NAME	ELEMENT ACTIVITY
SCE-sponsored ComfortWise sm	See below
Emerging Technologies Showcasing	See Crosscutting Programs
CTAC / AGTAC Energy Centers	See Crosscutting Programs
Third-Party Initiatives	See Crosscutting Programs

Residential New Construction (ComfortWisesm) (for detail see A.99-09-049 p. E-7)

Program Element Summary

Residential New Construction (“RNC”) – is an integrated effort with the long-term goal of transforming the diverse residential new construction market to one in which consumers demand and the home building industry delivers homes which are substantially more energy-efficient. This program element uses a variety of intervention strategies to address the needs of the various market actors within residential new construction. The program will offer improved energy efficiency design practices, inspections, and diagnostic services to residential builders through a third party consultant.

Activities, Accomplishment, Market Progress, & Modifications:

- As of the end of 2000, 5,610 ComfortWise homes have been committed, representing energy savings of nearly 8,000 MWh and a demand reduction of 11.949 MW. These homes are roughly 14% of the projected annual residential new construction activity in SCE's territory.
- Four training sessions held for builders and their subcontractors. These workshop sessions covered Builder Energy Code, proper HVAC equipment selection and duct design.
- Approximately 100 Builder Resource Guides have been distributed to builders.
- In 2000, roughly 6,000 units will exceed T24 by a minimum of 10%, as a result of SCE sponsored ComfortWise, Builder Energy Code Training, and HVAC training.

Commercial New Construction (for detail see A.99-09-049 p. E-18)

The Commercial New Construction (“CNC”) program is designed to transform energy efficiency investment behavior in non-industrial, non-agricultural and nonresidential construction markets. The objective of the CNC program is to increase the energy efficiency of building design, as well as the efficiency of the technologies buildings employ. By integrating interactions between multiple end-uses and efficiency technologies, comprehensive design saves large amounts of energy and capital while improving comfort and productivity. The program’s elements target distinct links in the new construction decision-making chain, reflecting differences in design activities and priorities between large and small buildings.

Program Elements:

ELEMENT NAME	ELEMENT ACTIVITY
Savings By Design	See below
Energy Design Resources	See below
Emerging Technologies Showcasing	See Crosscutting Programs
CTAC / AGTAC Energy Centers	See Crosscutting Programs
Third-Party Initiatives	See Crosscutting Programs

Savings By Design (for detail see A.99-09-049 p. E-21)

Program Element Summary

Savings By Design is a statewide program that encourages high performance commercial building design and construction. This process seeks to permanently reduce the transaction costs associated with developing and evaluating energy-efficient design alternatives. It also seeks to improve the comfort, efficiency, and performance of buildings by promoting an integrated team approach to design.

Activities, Accomplishment, Market Progress, & Modifications:

The statewide SBD program, rolled-out in June of 1999, continues to be delivered in the service territories of Southern California Edison, San Diego Gas & Electric, and Pacific Gas and Electric Company. By focusing on the Whole Building Approach and targeting design professionals as well as building owners, commitments to the program through 12-31-00 were secured by SCE, as quantified below:

PROGRAM APPROACH	PROJECTS (NO.)	INCENTIVES (\$)	LOAD REDUCTION (KW)	ENERGY SAVINGS (KWH)
Design Team	0	0	n/a	n/a
Whole Building	10	1,531,004	3,203.9	11,165,716
Systems	75	1,028,051	4,027.0	17,126,573
Total Program	85	2,559,055	7,230.9	28,292,289

See Statewide Programs for further discussion of other activities completed for the Savings By Design program.

Energy Design Resources (for detail see A.99-09-049, p. E-25)
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Program Element Summary

Energy Design Resources is an integrated package of design tools and information resources that promotes the design and construction of high-performance buildings. These tools are readily available and accessible to designers working in the new construction market and inherently complement the whole building approach strategies of the Savings By Design program. The program provides information resources, software tools, technology transfer, and validation of and peer recognition for designers and developers of exemplary projects that successfully incorporate principles of energy-efficient design

Element Activities, Accomplishment, Market Progress, & Modifications:

- Projects selected by SCE include the continued development of software tools including eQUEST, a user-friendly energy simulation software tool, and Energy eVALUator, a financial analysis tool that simplifies the development of life-cycle costs; five new Design Briefs on various topics, continuation of the Energy Design Resources website, including the EDR Forum and EDR Charette, and the ongoing publication of a quarterly newsletter for six market segments and a semi-weekly e-newsletter targeted at designers.
- Training seminars to educate design professionals and industry decision-makers on the benefits of energy-efficient and integrated design tools and strategies were offered by each participating utility. These seminars were coordinated, where possible, to reduce development costs and conflicting messages. Thirty-six seminars were conducted during the year by SCE and held at various locations throughout the service territory. A total audience of 624 people was reached at these seminars.

Industrial/Agricultural New Construction (for detail see A.99-09-049, p. E-31)

The Industrial and Agricultural New Construction (“IANC”) program is designed to transform energy efficiency investment behavior for process loads in new construction and facility expansion projects. The objective of the IANC program is to optimize the energy efficiency of new and expanded industrial and agricultural process, as well as the facilities where processes are housed. Two separate program elements target process- and facility-related efficiency opportunities and decisions. While the technical opportunities and constraints are distinct, the intervention strategies targeting barriers to energy-efficient choices are similar in both elements. Each element combines specialized technical assistance, integrated design assistance and incentives, and customized financial strategies.

Program Elements:

ELEMENT DESCRIPTION	ELEMENT ACTIVITY
Industrial New Construction Incentives	See below
Savings By Design	See Commercial New Construction
Emerging Technologies Showcasing	See Crosscutting Programs
CTAC / AGTAC Energy Centers	See Crosscutting Programs
Third-Party Initiatives	See Crosscutting Programs

Industrial/Agricultural New Construction Incentives (for detail see A.99-09-049, p. E-33)

Program Element Summary

The IANC program element provides incentives to customers who are installing electric equipment during the construction of a new facility. Eligible measures include all electric equipment where the primary usage can be attributed to process loads. This program element encourages customers to optimize their building’s energy systems during the design phases of a construction project and will provide informational-based tools that will help construction customers evaluate the potential for energy savings.

Activities, Accomplishment, Market Progress, & Modifications:

- The Systems Approach incentive rate for all industrial projects was increased from \$0.03 to \$.05/kWh in effort to increase program activity.
- Commitments to the program through December 31, 2000 were secured by SCE, as quantified below:
 - Energy savings of 3,424.64 MWh.
 - Demand reduction of .114 MW.
 - \$162,686 in incentives committed or redeemed to customer projects.
 - Twelve customer projects committed to the program.

- Six projects were committed that are considered to be underserved. These projects represent 1,401.81 MWh towards the overall program goal.

Codes & Standards Support and Local Government Initiatives (for detail see A.99-09-049, p. E-40)

This integrated program seeks to support market transformation across new construction markets and across communities. It is comprised of program elements that overlap in their focus on governmental process. This process is used as a vehicle for intervention in efficiency markets that support effective implementation of existing energy efficiency codes and standards as well as support their upgrade.

Program Elements:

ELEMENT DESCRIPTION	ELEMENT ACTIVITY
New Construction Codes & Standards	See below
Local Government Initiative	See below
CTAC / AGTAC Energy Centers	See Crosscutting Programs
Third-Party Initiatives	See Crosscutting Programs

Codes & Standards (for detail see A.99-09-049, p. E-42)

Program Element Summary:

The Codes and Standards program element proposes to bring about upgrades in standards and codes, thereby capturing the benefits for society from California’s diverse energy efficiency market transformation efforts. The case for improvements are developed for promising design practices and technologies presented to standards code-setting bodies in a coordinated manner.

Element Activities, Accomplishment, Market Progress, & Modifications:

- The statewide codes and standard team concluded meetings with stakeholders to develop energy efficiency enhancements for the AB 970 Title-24 Building Energy Efficiency Standards. These emergency standards are scheduled for adoption in early 2001.
- Two case study brochures were completed representing residential and large commercial retail market segments. The draft brochures were submitted to the California Energy Commission this year for review and comment.

Local Government Initiative (for detail see A. 99-09-049, p E-45)

Program Element Summary

Assist elected officials and staff at the local government level to develop and implement policies and practices that will institutionalize energy efficiency activities and behaviors that exceed Title 24 requirements.

Activities, Accomplishment, Market Progress, & Modifications:

- As of December 31, 2000 12 cities (Corona, Delano, Highland, Lancaster, Loma Linda, Palmdale, Palm Springs, Rancho Mirage, Riverside County, Ontario, and Rancho Mirage, Santa Barbara, and Ventura) have been successfully recruited to participate in the Local Energy Assistance Program (LEAP).
- The LEAP program achieved nearly 195 MWh in community level actions such as street width/street canopy and orientation. This represents 30% savings over 1999 levels. Additional actionable credit can be attained at the building level.

STATEWIDE AND CROSSCUTTING PROGRAMS

Residential Lighting Program (for detail see A.99-09-049, p. C-22)

Program Element Summary

PG&E, SCE, and SDG&E continue to work together as The California Residential Lighting and Appliance collaborative to operate the statewide residential lighting program. For 2001, goals of the program will include increased efforts on energy savings in conjunction with maintaining existing strides already made under market transform efforts. PG&E, SCE, SoCalGas, and SDG&E are working together to implement programs promoting the sale and accessibility of energy-efficient lighting through the promotion of Energy Star®-qualified products.

In 2000, lighting program strategies included manufacturer incentives, cooperative promotional incentives to retailers and manufacturers, education and outreach to retailers and manufacturers, field services, salesperson training, paid advertising, and other consumer outreach and promotional activities.

Element Activity, Accomplishments, Market Progress, & Modifications:

Torchiere Incentive Program: During 2000, the utilities launched the Torchiere Incentive program, which attracted the participation of 10 lighting manufacturers, a program-wide increase of 233% over the number that participated in the 1999 program. As of December 31, 2000 participating manufacturers submitted invoices for 93,424 torchieres, 61% of the programs annual target of 152,500. Total units invoiced for each service territory are as follows: PG&E: 35,941, SCE: 40,572, and SDG&E: 16,911. Shipments were largest during the second quarter, following with a tapering off during the remainder of 2000. See table below:

Quarterly Torchiere Shipments

Utility	Q1	Q2	Q3	Q4	Total
PG&E	300	19,767	11,181	4,693	35,941
SCE	0	26,058	13,690	824	40,572
SDG&E	0	11,741	4,862	308	16,911

Cooperative Promotional Incentives: During the fourth quarter of 2000 three pending Co-op projects were approved. As of December 31, 2000 there were 10 active Co-op projects involving 5 lighting manufacturers and 6 lighting retailers. The number of retail storefronts covered by the final 10 cooperative promotional projects implemented this year are as follows: PG&E – 100; SCE – 130; SDG&E – 45.

Field Services: In all three service territories field services efforts were implemented, in which the field representatives install point of purchase materials and help to educate the lighting sales associates in these store. Total field visits for the fourth quarter were PG&E – 231; SCE – 369; SDG&E – 125. Total estimated field visits for 2000 are PG&E – 1,040; SCE – 1,430; SDG&E – 375.

Outreach to Retailers and Manufacturers: Outreach to retailers and manufacturers also continued in the fourth quarter. Outreach efforts included expanding and maintaining a database of contacts among lighting manufactures and lighting retailers. The database now includes 700 contacts. During the fourth quarter, the program had over 300 communications with these individuals. As part of this effort, a meeting was held with Wal-Mart to discuss how they could best take advantage of program services.

Salesperson Training: During the fourth quarter, the program completed efforts to conduct salesperson-training classes for participating lighting retailers. As of December 31, 2000, a total of 71 stores and 279 lighting employees had been trained in the PG&E territory, 76 stores and 410 lighting employees in the SCE territory and 32 stores and 148 lighting employees in the SDG&E territory. Annual targets for training are to conduct classes for at least 66 stores and 316 employees in the SCE territory, 67 stores and 263 employees in the PG&E territory, and 140 employees in the SDG&E territory.

Residential Appliance Program (for detail see A.99-09-049, p. C-44)
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Program Element Summary

PG&E, SCE, SoCalGas, and SDG&E continue to work together as The California Residential Lighting and Appliance collaborative to operate the Statewide Residential Appliance program. For 2000, appliance program strategies included: financial incentives, cooperative advertising incentives to retailers and manufacturers, field services, outreach to retailers and manufacturers, training and education and outreach to consumers through a variety of marketing and communications tactics.

Element Activity, Accomplishments, Market Progress, & Modifications:

Financial Incentives: During the fourth quarter of 2000, the following number of clothes washer rebates were paid: PG&E – 7,422; SDG&E – 26 (ended program 9/30/00); and SCE/SCG -- 1,326. Cumulatively through the four quarters of 2000, a total of 30,182 clothes washer rebates were issued and paid to customers. The specific year-end results by utility is as follows: PG&E – 22,344; SDG&E – 2,043; and SCE/SCG -- 5,795. Refrigerator rebates paid during the fourth quarter are as follows: PG&E – 7,696; SDG&E – 2,190; and SCE -- 2,819. The year-end results by utility are as follows: PG&E-11,590; SDG&E-2, 537; and SCE – 4,037. The total of number of refrigerator rebates processed during 2000 was 18,164. During the fourth quarter 289 Clothes Washer SPIF applications were paid in SDG&E and 386 for the entire year. PG&E extended the clothes washer rebate program through December 31, 2000 in lieu of a clothes washer SPIF program. In the fourth quarter the following Room Air Conditioner SPIF applications were paid: PG&E – 78; SCE/SCG – 1,393; and SDG&E – 125. Room Air Conditioner SPIF applications paid throughout 2000 have been as follows: PG&E – 3,507; SCE/SCG – 3,602; and SDG&E – 379.

Cooperative Promotional Incentives: As of December 31, 2000, the cooperative advertising element of the program had received co-op reimbursement requests accounting for \$1,064,163 by retailers and manufacturers. The following is the amount of funds that have been reimbursed by utility service territory as of December 31, 2000.

PG&E – \$543,208, SCE/SCG – \$476,413, and SDG&E – \$44,542. The number of projects by service territory are as follows: PG&E – 36; SCE/SCG – 11; and SDG&E – 14. (Note: Manufacturers and retailers can reserve funds for projects located in different service territories in one proposal, thus the number of projects can be larger than the amount of reservations requests.)

Field Services: In all four service territories, field service efforts were implemented, in which the field representatives distribute of point-of-purchase materials and conduct in-store training relating the benefits associated with ENERGY STAR® qualifying appliances. As of December 31, 2000 the following field visits have been made: PG&E – 3,794; SCE/SCG – 2,393; and SDG&E – 827.

Outreach to Manufacturers and Retailers: As of December 31, 2000, the program is managing a network of appliance retailers totaling 400-plus stores representing 700-plus storefronts throughout California. During the fourth quarter of 2000 the program signed the following number of new retailers: PG&E – 2; SCE/SCG – 7; and SDG&E – 5. Throughout the entire 2000 retailer participation is at the following level in the specified service territory: PG&E – 235; SCE/SCG – 56; and SDG&E – 38. The amounts of storefronts included in the retail participation as of December 2000 are as follows: PG&E – 421; SCE/SCG – 274; and SDG&E – 81. It should be noted that Circuit City no longer sells appliances. This resulted in their being dropped from the program. The following are the number of Circuit City stores that were participating in each service territory: PG&E – 30 stores and 167 salespeople; SCE/SGC-35 stores and 178 salespeople; and SDG&E-10 stores and 50 salespeople. As a result of national retail chain recruitment, Sears has agreed to participate in an in-store-sponsored training, which took place during the month of October. The number of Sears’ salespeople by utility is: PG&E - 348; SCE/SGC - 296; and SDG&E - 88.

Salesperson Training: A salesperson-training curriculum was tested and developed in the third quarter. The milestone goals for training in each utility service territory is as follows:

- PG&E 205 storefronts and 820 salespeople; SCE/SGC 131 storefronts and 551 salespeople; and SDG&E 174 salespeople.
- PG&E 243 storefronts and 1,014 salespeople have been trained; SCE/SGC 182 storefronts and 921 salespeople have been trained; and SDG&E 281 salespeople have been trained. In cooperation with retailers and manufacturers, formal training classes were conducted to train retail sales staff on the features and benefits of ENERGY STAR®-qualified appliances.

Education and Communication Outreach: The objectives of the marketing and communications element of the program include raising the level of ENERGY STAR® and energy-efficiency awareness among consumers, influencing consumer attitudes about energy-efficiency, assisting the decision-making skills among consumers, delivering information and tools to retailers and manufacturers, and supporting the execution of other program elements.

Point-of-Purchase Materials: POP materials are designed to inform consumers and

assist retailers with the identification of ENERGY STAR[®] labeled products, and to aid and influence consumers with their lighting product and appliance buying decisions. POP materials support the execution of other program efforts, particularly those of field staff. In the fourth quarter, approximately 6,500 pieces of program POP were created and distributed throughout California. Breakout by service territory includes PG&E - 3,000 clothes washer rebate cling sticks and SCE/SCG - 3,500 clothes washer cling sticks without rebate.

POP promotional materials were created in October for the Great ENERGY STAR[®] Lighting Change-Out held in PG&E territory. The promotional materials created included: Shelf-talkers (500 printed), Banners (15 printed), ENERGY STAR[®] logo aprons (15 printed), T-shirts (60 printed), Bag-stuffers (three versions printed), event stickers, and a consumer questionnaire card.

Advertising: Advertising messages were designed to raise ENERGY STAR[®] awareness and understanding among consumers, influence consumer attitudes, and improve consumer decision-making skills. In the fourth quarter, radio and print advertisements were placed in media identified as serving our target audience. The radio advertising campaign continued in the fourth quarter in SDG&E and PG&E service territories. An estimated 1,034,500 people were reached by the radio advertising campaign, and an estimated 3,756,000 gross impressions were achieved. Breakout by utility service territory includes: PG&E – 843,000 reach, 3,373,000 gross impressions and SDG&E – 191,500 reach, 383,000 gross impressions.

The paid print lighting campaign continued in PG&E territory and print ads were run in both English and Spanish to support the refrigerator rebate program in SDG&E territory. An estimated 665,000 individuals were reached by the print advertising campaigns, and an estimated 5.1million gross impressions were delivered. Breakout for the print campaign by utility service territory includes: PG&E – 30,700 people reached with 61,000 gross impressions delivered; and SDG&E – 635,000 people reached and 5,078,000 gross impressions delivered.

Print advertising for the Great ENERGY STAR[®] Lighting Change-Out ran in October in PG&E territory, reaching 525,000 readers in our targeted demographic market, and delivering 1.6 million gross impressions.

Editorial Outreach: Program editorial outreach efforts are designed to raise the level of ENERGY STAR[®] and energy-efficiency awareness among consumers, influence consumer attitudes, and improve decision-making skills among consumers. In support of these objectives, two formatted feature story releases (MAT releases) were distributed in October to 900 California publications through a media syndication service, and in the fourth quarter were placed in 10 publications, with a combined circulation of 249,758. In the last two weeks of the fourth quarter, one additional Ask ENERGY STAR[®] MAT release was distributed in PG&E territory, resulting in two placements with a combined circulation of 64,000. The “Be Energy Aware” press kit was released in SDG&E territory, resulting in one placement with 25,000 circulation. Also in the fourth quarter, previously distributed Ask ENERGY STAR[®] columns were placed in 10 publications with a combined circulation of 94,000.

Editorial outreach efforts on behalf of the Great ENERGY STAR[®] Lighting Change-Out promotional campaign resulted in two article placements in print media with 517,286 circulation, interviews with one radio station and five TV stations. The total circulation for all print editorial placements during the fourth quarter of 2000 was 1,014,044. Circulation breakout by utility service territory: PG&E - 689,552 circulation; SCE/SCG - 299,492 circulation; and SDG&E -25,000 circulation.

Promotional Activities: Promotional activities are designed to raise the level of ENERGY STAR[®] and energy-efficiency awareness among consumers, influence consumer attitudes, and improve decision-making skills among consumers. In the fourth quarter, a movie theater promotion began in December on 298 screens in 29 movie theaters throughout PG&E territory. Upon completion of the promotion in January 2001, an estimated 1.6 million people will be reached, creating 4.7 million total gross impressions.

Statewide Residential Energy Guide (for detail see A.99-09-049, p. C-14)

Program Element Summary

Pacific Gas and Electric Company (PG&E), Southern California Edison (SCE), and San Diego Gas & Electric Company (SDG&E) continue to work together, on the Statewide Energy Guide Team to distribute English, Spanish and Chinese Energy Guides to residential customers through a variety of delivery channels. The Residential Energy Guide provides statewide consistency to each utility’s residential customers on energy efficiency information and awareness of appliance practices. The Residential Guide is available in Spanish and Chinese in three service territories. A fourth language, which was investigated in 2000, will be considered along with plans to review, update and distribute existing guides during the first quarter of 2001.

The Statewide Residential Energy Guides are distributed through various channels and energy efficiency programs such as the Statewide Residential Contractor Program.

Element Activity, Accomplishments, Market Progress, & Modifications:

In 2000, the statewide committee expanded distribution efforts in order to maximize the number and types of customer groups that have access to the guide. The following represents distribution during 2000, as well as various distribution approaches which were used by some or all of the utilities:

2000 Statewide Activity

<i>Language</i>	PG&E	SDG&E	SCE	SoCalGas*	TOTAL
<i>English</i>	65,645	10,287	17,001	13,450	106,383
Spanish	2,104	1,824	7,542	1,600	13,070
Chinese	1,175	510	2,551	N/A	4,236
Total	68,924	12,621	27,094	15,050	123,689

PG&E, in response to D.00-07-017 Ordering Paragraph 68, submitted on behalf of SDG&E, SCE, and Southern California Gas Company (SoCalGas) to the CPUC a report on the “Joint Residential and Business Energy Guide Plans” on August 7, 2000. The report describes the coordinated statewide plan to distribute the energy guides.

Statewide Fourth Quarter Distribution Types:

Community Resource Centers
Latino Leadership Councils
Hispanic Chamber of Commerce
Sheriff and Sub-Stations
Multiple Business Councils
Economic Development and Community Centers
Rebate Processing Representatives
Community Outreach Agencies
Trade Shows
Ethnic/Cultural Events/Fairs
District Offices (SDG&E),
Customer Service Telephone Center
Service Center Mail outs
Community Event Booths

Residential Contractor (for detail see A.99-09-049, p. C-27)

Program Element Summary

The 2000 Residential Contractor Program (RCP) was developed to promote a self-sustaining contractor market for energy efficiency services in the residential retrofit, renovation, and remodeling market. The specific objectives addressed by the program are to:

- improve Customers’ awareness and understanding of the benefits associated with energy efficiency;
- promote whole system and whole house approaches to energy efficiency in the residential sector; and
- provide standard incentives for Contractors to help build self-sustaining businesses that provide diagnostic/tune-up procedures and installations of various energy efficiency measures to Customers.

The program has two distinct elements: the Multifamily and Single Family Elements:

Multifamily Element:

- apartment dwelling units
- common areas of apartments and condominium complexes, and

- common areas of mobile home parks.

Single Family Element:

- single family homes
- condominium dwelling units,
- small attached apartments with up to four dwelling units (e.g., duplexes, triplexes, and fourplexes), and mobile homes

Element Activity, Accomplishments, Market Progress, & Modifications:

The RCP was revised based on market feedback from participants and other parties, including findings from a state-level market assessment and evaluation study conducted by Wirtshafter Associates Inc. Modifications to the Single Family Element of the RCP include: increased incentive levels for some measures; requirements of ENERGY STAR[®] compliance for hardwired fixtures and compact fluorescent lamps; and qualification of ENERGY STAR[®] air conditioners in more climate zones. Modifications to the Multifamily Element of the RCP include: increased incentive levels for some measures; bonuses for comprehensiveness and projects in tenant dwelling units; simplified application procedures; calculated savings approach; and accelerated payment schedule.

Each utility rolled out the 2000 version of the Single Family Element of the RCP in its service territory May 1, 2000. The 2000 Multifamily Element of RCP (RCP-MF) was introduced after approval in September 2000.

MF RCP: Statewide combined contractor participation was 33 (SDG&E 10; SoCalGas 9; SCE 9; PG&E 5) in the Multifamily Element of the RCP program during 2000.

All utilities experienced significant increase in the 2000 RCP-SF participation due to program modifications and increased number of contractors. The increased statewide participation in the RCP-SF is summarized below:

	1999	2000
Contractors	265	573
Vouchers	4,637	62,548
Incentives	\$0.7 Million	\$14.2 Million

Large Nonresidential Standard Performance Contract (LNSPC) Program (for detail see A. 00-09-049, p D31)

Program Element Description:

- Performance based program that offers incentives (posted price) to customers or EESPs to install energy-efficient equipment at customer facilities.
- The program targets customers with electric demand greater than 500 kW or annual gas consumption over 250,000 therms.
- Standardized statewide, including incentive levels, procedures, and contracts.
- Incentives are paid over two years based on realized energy savings.
- Utility promotes and administers program with EESPs helping to promote/sell projects.

Update / Current Activities / Market Progress:

- Consistent with the CPUC's Summer Initiative Ruling, incentives for measures with kW savings were added to the program. The incentives are \$100/kW for lighting, \$225/kW for HVAC and \$150/kW for other electric measures.
- Three statewide utility workshops were held during April 2000 to gather public input on the SPC programs. Based on the results of the workshops, the statewide SPC programs were revised.

Small Business Standard Performance Contract (SBSPC) Program (for detail see A. 00-09-049, p D-14)

Program Element Description:

- Similar to LNSPC, with streamlined procedures geared to needs of smaller customers.
- The program targets customers with electric demand equal to or less than 500 kW or annual gas consumption of less than or equal to 250,000 therms.
- Standardized statewide, including incentive levels, procedures, and contracts.
- A third party or EESP must sponsor customer project.
- Incentives are paid over one year based on realized energy savings.

Update / Current Activities / Market progress:

- Consistent with the CPUC's Summer Initiative Ruling, incentives for measures with kW savings were added to the program. The incentives are \$125/kW for lighting, \$250/kW for HVAC and \$175/kW for other electric measures.
- The proposed 2000 changes were presented at three public workshops held on April 3, 10, and 19 in San Francisco, Downey and Stockton, respectively. No objections were received from the public to proceed with the proposed 2000 program.

Express Efficiency Program (for detail see A. 99-09-049, p. D-18)

Program Element Description:

- Provides standard rebates to customers, contractors, and EESPs for the installation of specific energy-efficient equipment.
- Program targets small and medium business customers.
- Statewide program, with differences to reflect different service territory needs.
- Incentive cap of \$25,000 per account.

Update / Current activities / Market progress:

- Per the Summer Initiative Ruling effective September 11, 2000, incentives for measures with kW savings were increased. For customers under 20 kW, incentives were doubled and for customer greater than 20 kW, incentives were increased by 50%.
- At year-end, the statewide Express Efficiency program produced a total of 36,000 MWh and 7.1 MW

Statewide Business Energy Guide (for detail see A.99-09-049, p. C-14 & D-16)

Program Element Description:

- Statewide energy guide provides energy information and education to customers to better manage their business energy costs.
- Provides energy information for office buildings, grocery stores, restaurants, retail outlets and manufacturing facilities.
- Brochure currently available in English, Spanish and Chinese.
- Target markets includes commercial businesses, business trade/vendor shows, Small Business Associations, Chambers of Commerce, building permits and government offices and business on-site surveys conducted by utility representatives.

Update / Current Activities / Market Progress:

- Preliminary results show the utilities have distributed 63,381 Business Energy Guides in 2000. The distribution breakdown by utility is as follows:

Utility	English	Spanish	Chinese	Total
PG&E	9,299	10,031	10,556	29,886
SCE	9,948	602	5,065	15,615
SDG&E	13,442	320	0	13,762
SoCalGas	4,118	0	0	4,118
Total	36,807	10,953	15,621	63,381

- PG&E, in response to D.00-07-017 Ordering Paragraph 68, submitted on behalf of SDG&E, SCE, and SoCalGas to the CPUC a report on the “Joint Residential and Business Energy Guide Plans” on August 7, 2000. The report describes the coordinated statewide plan to distribute the energy guides.

Savings By Design (for detail see A. 99-09-049, p. E-21)

Program Element Summary

- A statewide program implemented by PG&E, SCE, SCG, and SDG&E that encourages high performance commercial building design and construction.
- Seeks to permanently reduce the transaction costs associated with developing and evaluating energy-efficient design alternatives.
- Seeks to improve the comfort, efficiency, and performance of buildings by promoting an integrated team approach to design.
- The Nonresidential Retrofit and Renovation program is also covered under the SBD program although implementation may differ by utility.

Activities, Accomplishment, Market Progress,& Modifications:

- The first annual Savings By Design Energy Efficiency Integration Awards were held with the help and support of The American Institute of Architects California Council (AIACC). Four awards for projects demonstrating energy efficiency and award winning design were recognized at a consolidated ceremony in Long Beach, where other AIACC design awards were presented. Positive feedback from the event sponsors and participants indicates continuing this effort will be very valuable to the success of this energy efficiency program.
- The statewide SBD program was actively promoted at trade association events throughout California during 2000, including the AIACC Desert Practice Conference, where over 500 architects from throughout California participated in educational

sessions and a products trade show where energy efficiency information was made available.

- Support was also provided to local chapters of the American Institute of Architects (AIA), the American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE), Illuminating Engineers Society (IES), the US Green Building Council, and the Building Owners and Managers Association (BOMA).
- CHPS, the new statewide Collaborative for High Performance Schools, saw tremendous growth in the number of interested stakeholders by year-end. The Collaborative, initially formed by the statewide utilities, municipal utilities, and the California Energy Commission, focused on improving the energy- and resource-efficiency of public school facilities. This effort has been successful in combining and integrating programs and efforts of the participating organizations to bring attention to the benefits of high performance schools by designing schools that teach and encourage better learning environments.
- Utility participants in CHPS include PG&E, SDG&E, SCE, SCG and two municipalities: Los Angeles Department of Water and Power (LADWP), and the Sacramento Municipal Utility District (SMUD).
- Non-utility members are the Natural Resources Defense Council (NRDC) the California Energy Commission (CEC), the California Integrated Waste Management Board, the Division of the State Architect, the Department of Education (DOE), and the Department of Public School Construction.
- CHPS participated in two very successful Sustainable Buildings Industries Council conferences which were held in October 2000; one targeting school officials, and one directed to school designers.

Energy Design Resources (for detail see A.99-09-049, p. E-25)
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Program Element Summary

- The Energy Design Resources (EDR) program became a statewide effort in 2000, supported by PG&E, SCE, and SDG&E.
- EDR provides an integrated package of design tools and information resources that promote the design and construction of high-performance buildings.
- These tools are readily available and accessible at no charge to the design and construction industry on a statewide basis.
- A website is utilized to offer additional interactive resources and provide downloadable tools.
- EDR complements the Whole Building Approach strategies of the Savings By Design program.

- EDR provides validation of and peer recognition for designers and developers of exemplary projects that successfully incorporate principles of energy-efficient design.

Element Activities, Accomplishment, Market Progress, & Modifications:

- 14 new Design Briefs providing comprehensive overviews of specific energy efficiency systems applicable to new construction were completed.
- Bi-weekly electronic newsletters covering energy efficiency and its role in designing a new building were e-mailed to designers, architects, builders and other interested parties.
- Four quarterly newsletters were issued to owners and facility decision-makers of six different building types (e.g. schools, health care, retail, office, governmental, manufacturing).
- Training seminars on EDR design tools were offered in each of the service territories of the three participating utilities.
- Six on-line training modules on energy efficiency processes and technologies were developed and made available on the program web-site.
- Web-site activity:
 - There have been 16,000 successful hits.
 - More than 3,000 Mbytes of data was downloaded from the website; 50% for eQUEST, 11% for eVALUator, and 4% for SkyCalc.

<p>Codes & Standards (for detail see A.99-09-049, p. E-42)</p>

Program Element Summary

- Codes and Standards works to bring about upgrades in standards and codes, thereby capturing the benefits for society from California’s diverse energy efficiency market transformation efforts.
- Case for improvements are developed for promising design practices and technologies and then presented to standards and code setting bodies in a coordinated manner.

Activities, Accomplishment, Market Progress, & Modifications:

- The statewide utilities actively participated in the emergency AB 970 by attending CEC workshops and other related meetings, and by contributing standards enhancement proposals and studies.
- The following Codes And Standards Enhancement (CASE) studies were submitted to the California Energy Commission: LED Exit Signs, Dry-Type Transformers, Nonresidential Cool Roofs, Lighting Controls, and Time Dependent Valuation.

Energy Centers Statewide Program (for detail see A.99-09-049, p. F-9)

Program Element Summary

Three of the state’s investor owned utilities, PG&E, SCE, and SCG operate Energy Centers. Unified by the common goal of educating their customers about energy-efficient business solutions, the utilities’ jointly developed plans to increase cooperation among the utility energy centers. This plan addressed three potential areas for working together collaboratively to build on a statewide program. These are: (A) seminar/program coordination; (B) a web based energy efficiency library; and (C) a partnership program with independent third parties and/or state agencies.

Energy Centers use training, outreach, education, and tool development to support delivery of statewide programs. Energy Centers are uniquely suited to address peak demand reduction and promote energy savings directly by offering programs designed specifically for that purpose.

Activities, Accomplishment, Market Progress, & Modifications:

- **Seminar/Program Coordination:** The centers recognized that, through regional collaboration, the opportunity exists to develop a more comprehensive set of energy efficiency conferences/seminars that would reflect the expertise and experience from a diverse group of contributors statewide. Such a comprehensive conference/seminar set would also ensure a more consistent message and may accelerate change in the marketplace.

To that end, each of the utilities selected a class to sponsor. A schedule was established for delivery of all three classes at each of the utilities. No additional classes were held during the remainder of the year.

CLASS/UTILITY SPONSOR	LOCATION	DATE
Daylighting for Architects/SCE	SCE	March 23, 2000
	SoCalGas	May 11, 2000
	PG&E	September 21, 2000
Glass Class /(PG&E)	SCE	April 27, 2000
	SoCalGas	September 14, 2000
	PG&E	March 22, 2000
U.S. Green Building Council/(SoCalGas)	SCE	December 6, 2000
	SoCalGas	June 11, 2000
•	• PG&E	• October 26, 2000

- **Web-Based Energy Efficiency Library:** The Energy Centers saw this as a centralized and comprehensive online information library that could serve as an electronic information hub on all aspects of energy efficiency.

Through a collaborative effort, an independent contractor was hired to construct a site named “energyefficiencycenter.com.” The site, which was implemented on April 17, 2000, provides users with links to the energy centers as well as links to a number of associations, organizations, and government agencies where information on energy efficiency can be found. The links are categorized to assist the users, and a search engine (which will be further enhanced) will also help guide users to the information they seek.

- **Partnership Program with Third Parties and/or State Agencies:** It was stated in the filing that, “obviously, there are many potential options for a collaborative effort that would not only involve Energy Centers, but other key market actors as well. This potential element will require further investigation.”

Use of the USGBC Class in Element A demonstrates the benefits of a partnership with this organization. Through this effort, information on this valuable program is made available to customers statewide.

USGBC was the only joint partnership, however CTAC and AGTAC partnered with over 30 other organizations throughout 2000 to offer energy efficiency services to customers.

The Energy Centers will also further investigate how partnerships can be utilized to enhance the web site and its content. This effort is still under development.

Crosscutting Programs (for detail see A. 99-09-049, p F-3)

Included within Southern California Edison's programs are various activities that help support each of the 14 programs. These activities include Energy Centers, Emerging Technologies, and Third-Party Initiatives.

Emerging Technologies (for detail see A. 99-09-049, p F-5)

Program Element Summary

The Emerging Technologies activities focus on demonstrating energy efficiency options not widely adopted by various market actors. The program makes detailed designs of efficiency options and their performance information widely available.

Element Activity, Accomplishments, Market Progress, & Modifications:

- Twenty emerging technology showcase agreements were signed in the fourth quarter with a total of thirty-one agreements signed year to date.
- One paper on emerging technology showcases was submitted to an international technical society and to be presented in their winter conference.

Energy Centers - CTAC, AGTAC (for detail see A. 99-09-049, p F-5)

Program Element Summary

SCE possesses two distinct energy centers. The *Customer Technology Application Center*, which opened in 1990, is located central to the metropolitan Los Angeles County and Orange County regions. The *Agricultural Technology Application Center* opened in 1996 and is located in the heart of the northern agricultural region of SCE service territory, the San Joaquin Valley. The centers are dedicated to the transfer of technology to the market place, including energy-efficient technologies. The ultimate purpose of these facilities is to increase market demand for and thereby market adoption of energy-efficient measures. This purpose is supported by the following *Joint Utilities' Objectives*:

- Provide cost efficiencies in the delivery of energy efficiency information to interested parties.
- Enhance public access to energy efficiency information.

The goal of the centers is to intervene in the market place to enhance the diffusion of energy-efficient technologies.

Activities, Accomplishment, Market Progress, & Modifications:

Customer Technology Application Center (CTAC) -

- CTAC set performance goals to increase EE activities by 10% over 1999 actuals. The following shows actual numbers through December 2000.

	1999 ACTUAL	2000 GOAL	YTD
Seminars	36	40	57
Seminar Attendance	660	800	1,019
Upstream Market Classes	5	9	10
EE Consultations	1,112	1,200	1,001
EE brochures	24,000	26,400	32,884

- The final market baseline study was received in September.
- The final market transformation study on the effectiveness of 1999 activities was also received in September.
- Phase 1 of a study to determine the feasibility of satellite energy centers was completed, with the draft report due after the first of the year. Phase 1 surveys for the general interest of target market actors and what follow up information will be required to determine satellite center feasibility.

CTAC/AGTAC milestones were established based on two elements of proposed statewide energy center activities. These joint activities were done in conjunction with the Pacific Energy Center (PG&E) and the Energy Resource Center (SoCalGas).

- **Seminar/Program Coordination:** SCE completed all three of its proposed seminars.
- **Web-Based Energy Efficiency Library:** SCE introduced the web site “energyefficiencycenter.com,” on April 17, 2000.

The Agricultural Technology Application Center (AGTAC) –

AGTAC set performance goals to increase EE activities by 10% over 1999 actual. The following shows actual numbers through December 2000.

	1999 ACTUAL	2000 GOAL	YTD
Seminars	18	20	20
Seminar Attendance	528	581	679
EE Technical Demonstrations	505	556	751
EE Brochures	11,868	13,055	14,301

NOTES: Seven classes presented to 414 elementary students within the rural county of Tulare were included in the seminar attendance and count.

- On September 12, 2000, an AGTAC market baseline survey was completed.
- A market transformation study on the effectiveness of 1999 activities was also completed on September 12, 2000.
- Phase 1 of a study to determine the feasibility of satellite energy centers was completed, with the draft report due after the first of the year. Phase 1 surveys for the

general interest of target market actors and what follow up information will be required to determine satellite center feasibility.

Third Party Initiatives (for detail see A. 99-09-049, p. F-30)

The Third Party Initiatives (“TPI”) program provides an open-ended opportunity for external parties to design and implement innovative projects with a clear market transformation orientation, with funding support from the utility-administered portfolio of programs.

Element Activity, Accomplishments, Market Progress, & Modifications:

Residential Sector Projects

1. Time of Sale Home Inspection Energy Audit Program

This project trains professional home inspectors and subsidizes their delivery of a comprehensive energy audit in conjunction with the existing residential home inspection. 1,831 of the 3,000 contracted energy efficiency inspections were delivered in the fourth quarter resulting in a total of 3,537 audits by year’s end. This project is being coordinated with Southern California Gas Company.

2. Factoring Energy Efficiency into Real Estate Appraisals

The project is designed to factor energy considerations into home appraisals and residential property valuation. This will be accomplished by developing and implementing an outreach and training program for professional residential appraisers in the SCE service territory and working with several appraisal associations. Final design of Appraiser training course was submitted to the Appraisal Institute for formal review and approval of this curriculum. As of the end of the year, there continued to be significant delays in completing the review to obtain full approval for nationwide appraisers continuing education credit. In the meantime, it is anticipated that “spot-approval” for use in Southern California will be granted.

3. LivingWise® Program (National Energy Foundation)

On February 9, 2000, Energy Efficiency awarded a third-party initiative to the National Energy Foundation to implement the LivingWise® Program delivered through 6,000 kids in 6th grade school classes. The Program features a blend of classroom learning activities and hands-on audit information and energy efficiency installation projects that students complete in their homes with parental assistance.

All 6,000 energy conservation kits were delivered in the 3rd and 4th quarter to 75 different schools in SCE’s service territory with over 85% going to schools in rural areas. Through this program, SCE promoted other energy efficiency programs as well, such as the Refrigerator Recycling Program, low-income programs, and the Statewide Energy Guide. Additionally, a unique aspect of this program included high school students participating in the Green Schools program (another T.P.I.) who administered the LivingWise®

program to elementary students. This program has been well received by all participating in the program.

Measurement and Evaluation has begun evaluating the LivingWise® program and expects to complete its evaluation in Summer 2001. The Schools participating include: all rural districts, Rosemead, Long Beach, Sonrise Christian, and Hacienda/La Puente.

Nonresidential Sector Projects

1. Green Schools (Alliance to Save Energy)

On February 4, 2000, Energy Efficiency also awarded a third-party initiative to the Alliance to Save Energy to implement a Green Schools program to local schools and communities within SCE's service territory.

Green Schools program is two-fold: to reduce energy costs in schools, and to educate students and their families about energy and the link between efficiency, the environment, and finances. It is a comprehensive and long-term approach to school efficiency, bringing together the facilities, instructional, and administrative staff in a cooperative effort to improve education, using energy as a tool.

School districts participating in this pilot program are: Charter Oak, and Hacienda/La Puente, and Bassett. In addition, the East San Gabriel Valley Regional Occupational Program (ROP), supporting 17 high schools, will also participate. Implementation of the program began in Fall, 2000. Training sessions for teachers, facility managers, and other appropriate personnel took place in July and October.

An aspect of the program includes "STEM" training where students learned how to conduct energy audits of their schools. Eight to twenty-five students in each high school and ROP received this training, audited their schools for energy savings, produced a report of recommendations, and will present their findings to their respective school boards.

The ROP involvement is unique in that it:

- helps at-risk students through the ROP program,
- promotes energy efficiency in schools and homes through trained and motivated students,
- involves students building an energy-efficient home with support from city and business partners.

2. Calculator for Identifying Energy Savings Opportunities in Process Applications for Small- and Medium-Sized Enterprises

This project develops a software tool that managers of small- and medium-sized enterprises can use to identify energy-efficient process technologies with attractive paybacks. Solutions for process water applications are the focus of this pilot phase. The first membrane unit has been installed and tested at a controller components manufacturing plant and used to concentrate waste cutting oil. A second membrane system is being investigated for applications with other groups of customers. The customer is investigating having a unit installed. The calculator has been developed and is currently under review. In addition, the internet layout of the calculator has been developed.

New Construction Sector Projects

1. Transforming Residential Energy Efficiency Markets Through Local Governments and Communities

This project provides The Community Energy Efficiency Program (CEEP), a complete energy efficiency program for residential new construction that can be tailored by local governments to meet their own local mandates that go beyond increased energy efficiency. BII met with great success in 2000 with the CEEP program. After reaching more than 400 local building officials, BII successfully helped start fourteen new local government-supported energy efficiency programs, of which eight key local jurisdictions are directly attributable to support from SCE. Those jurisdictions include: Corona, Hemet, Lake Elsinore, Los Angeles County, Orange County, Rancho Cucamonga, San Bernardino, and Temecula.

2. Methodology and Training for Streamlined Commissioning of Commercial Buildings

Through this project, HVAC design firms and HVAC design engineers will be equipped with the information, procedures, and technologies that they can use to market simplified building commissioning services as part of the process for constructing new commercial buildings. Progress to Date: Development of the Performance Assurance methodology has been completed along with the training curriculum. The training curriculum has been completed, and potential party participants have been identified.

3. Energy Efficiency and Cost Estimating Tools for the Nonresidential Buildings Sector Decision Maker

This project aims to provide owners, designers, and other decision makers with web-based and PC-based energy and cost estimating capabilities that are easily accessed and used. The goal is to facilitate better decision making relative to energy efficiency and cost, when designing, building, or purchasing non-residential buildings. This is being accomplished by developing enhancements to the eQUEST simulation tool. The AutoCAD link is 90% complete and the HVAC Sizing feature is 20% complete.

Program Summary Tables

**Southern California Edison
2000 Energy Efficiency Program Budget - Year-end
Table 1
(\$ in millions)**

Program	1999 Recorded Expenses	2000 Authorized Budget	Year-end ^[1]		Total Actual + Committed	2001 Proposed Budget
			Actual 12/31/2000	Commitments 12/31/2000		
Residential Programs						
Heating and Cooling Systems						
Energy Use Profile Audit	\$ 0.717	\$ 0.450	\$ 0.421	\$ 0.000	\$ 0.421	\$ 0.200
In-Home Audit	0.659	0.325	0.319	-	0.319	0.200
On-Line Audit	-	0.175	0.163	-	0.163	0.075
Residential Appliance Direct Rebate	0.445	-	-	-	-	-
Consortium for Energy Eff, Res Electric End-Use (CEEREEE)	0.074	0.075	0.066	-	0.066	0.100
Calif Home Energy Eff Rating System (CHEERS)	0.038	0.100	0.080	0.019	0.099	0.130
Mass Market Information	0.071	0.050	0.042	0.000	0.043	0.413
Emerging Technologies	-	0.500	0.218	0.282	0.500	0.300
Energy Centers - CTAC/AGTAC	0.060	0.073	0.071	-	0.071	0.172
Sub Total	2.064	1.748	1.380	0.302	1.682	1.590
Residential Lighting						
Energy Use Profile Audit	0.223	0.310	0.286	-	0.286	0.100
In-Home Audit	0.180	0.235	0.230	-	0.230	0.100
On-Line Audit	-	0.115	0.105	-	0.105	0.060
Residential Contractor (Statewide)	-	0.600	0.179	0.421	0.600	-
Retail Initiative Lighting (Statewide)	1.661	3.059	2.114	0.863	2.977	2.450
Consortium for Energy Eff, Res Electric End-Use (CEEREEE)	0.173	0.175	0.155	-	0.155	0.175
Calif Home Energy Eff Rating System (CHEERS)	0.038	0.100	0.080	0.019	0.099	0.155
Mass Market Information	0.071	0.050	0.042	0.000	0.043	0.463
Energy Centers - CTAC/AGTAC	0.080	0.142	0.140	-	0.140	0.144
Sub Total	2.426	4.786	3.331	1.304	4.636	3.647
Residential Appliances						
Energy Use Profile Audit	0.143	0.190	0.184	-	0.184	0.100
In-Home Audit	0.136	0.115	0.114	-	0.114	0.100
On-Line Audit	-	0.085	0.083	-	0.083	0.015
Residential Appliance Direct Rebate	3.549	1.800	1.053	0.747	1.800	1.440
Residential Spare Refrigerator Recycling	8.954	7.130	7.020	-	7.020	7.640
Retail Initiative Major Appliance Labeling (Statewide)	3.598	3.761	3.182	0.476	3.658	6.625
Consortium for Energy Eff, Res Electric End-Use (CEEREEE)	0.173	0.450	0.398	-	0.398	0.360
Calif Home Energy Eff Rating System (CHEERS)	0.038	0.045	0.036	0.009	0.045	0.080
Mass Market Information	0.071	0.050	0.042	0.000	0.043	0.313
Energy Centers - CTAC/AGTAC	0.076	0.106	0.105	-	0.105	0.103
Sub Total	16.738	13.732	12.216	1.232	13.448	10.776
Residential Retrofit & Renovation						
Energy Use Profile Audit	0.558	0.400	0.341	-	0.341	0.300
In-Home Audit	0.450	0.400	0.388	-	0.388	0.300
On-Line Audit	-	0.100	0.076	-	0.076	0.150
Residential Contractor (Statewide)	1.942	5.040	1.503	3.537	5.040	8.518
Retail Initiative Window/Frame System Labeling	0.238	0.775	0.463	-	0.463	-
HVAC Diagnostic Program (Check-Me)	0.151	0.125	0.114	0.004	0.118	-
Consortium for Energy Eff, Res Electric End-Use (CEEREEE)	0.074	0.075	0.066	-	0.066	0.110
Calif Home Energy Eff Rating System (CHEERS)	0.038	0.075	0.060	0.015	0.075	0.060
Mass Market Information (Statewide)	0.071	0.050	0.042	0.000	0.043	0.313
Emerging Technologies	0.408	0.200	0.087	0.113	0.200	0.480
Energy Centers - CTAC/AGTAC	0.081	0.103	0.101	-	0.101	0.103
Sub Total	4.011	7.343	3.242	3.669	6.911	10.334
TPI Administration/Solicitation Process	-	1.003	0.671	0.332	1.003	1.600
General Support Activities	1.307	1.201	0.784	-	0.784	1.019
Residential Subtotal	\$ 26.546	\$ 29.813	\$ 21.625	\$ 6.839	\$ 28.464	\$ 28.964

^[1] Preliminary results, final results will be reported by SCE in its Annual Energy Efficiency Report.

Southern California Edison
2000 Energy Efficiency Program Budget - Year-end
Table 1 (Cont'd)
(\$ in millions)

Program	1999 Recorded Expenses	2000 Authorized Budget	Year-end ^[1]		Total Actual + Committed	2001 Proposed Budget
			Actual 09/30/2000	Commitments 09/30/2000		
Nonresidential Programs						
Large Nonresidential Comprehensive Retrofit						
Large SPC (Statewide)	10.933	7.525	0.782	6.743	7.525	4.475
Large Commercial Informational Services	0.074	0.150	0.093	0.057	0.150	0.066
Large Industrial Informational Services	-	0.150	0.095	0.055	0.150	0.070
Agricultural/Pumping Services	0.962	1.165	1.065	-	1.065	1.058
Emerging Technologies	0.308	0.400	0.096	-	0.096	0.200
Energy Centers - CTAC/AGTAC	0.458	0.507	0.479	-	0.479	0.513
Sub Total	12.734	9.897	2.610	6.855	9.465	6.382
Small Nonresidential Comprehensive Retrofit						
Small SPC (Statewide)	1.169	2.380	0.704	1.676	2.380	2.500
Small Business Energy Use Surveys	0.342	0.575	0.511	0.003	0.515	0.350
Small business Energy Management Services	0.343	0.600	0.592	-	0.592	0.350
Small Business Incentives (Statewide)	3.239	3.070	1.620	1.450	3.070	6.733
Small Business Space Rental Upgrade	-	-	-	-	-	0.500
Mass Market Information (Statewide)	0.141	0.150	0.114	0.029	0.142	0.540
Agricultural/Pumping Services	0.577	0.540	0.494	-	0.494	0.536
Emerging Technologies	0.144	0.350	0.084	-	0.084	0.200
Energy Centers - CTAC/AGTAC	0.307	0.339	0.320	-	0.320	0.333
Sub Total	6.263	8.004	4.439	3.158	7.597	12.042
Nonresidential HVAC Turnover						
Large SPC (Statewide)	4.422	3.932	0.409	3.523	3.932	4.800
Large Commercial Informational Services	0.074	0.275	0.171	0.104	0.275	0.130
Large Industrial Informational Services	0.071	0.275	0.174	0.101	0.275	0.080
Upstream HVAC	-	0.890	0.645	0.129	0.774	0.250
HVAC Diagnostic Program (Check-Me)	-	0.150	0.112	0.004	0.116	-
Emerging Technologies	0.471	0.200	0.048	-	0.048	0.100
Energy Centers - CTAC/AGTAC	0.172	0.191	0.180	-	0.180	0.290
Sub Total	5.210	5.913	1.739	3.862	5.601	5.650
Motor Turnover						
Large SPC (Statewide)	0.447	0.500	0.052	0.448	0.500	1.200
Large Commercial Informational Services	0.076	0.050	0.031	0.019	0.050	0.034
Large Industrial Informational Services	0.076	0.050	0.032	0.018	0.050	0.020
Agricultural/Pumping Services	0.289	0.240	0.220	-	0.220	0.262
Upstream Motors	-	0.790	0.732	0.010	0.742	0.500
Agricultural Energy Efficiency Incentives	0.331	0.280	0.273	0.007	0.280	-
Emerging Technologies	0.161	0.100	0.024	-	0.024	0.070
Energy Centers - CTAC/AGTAC	0.120	0.133	0.126	-	0.126	0.135
Sub Total	1.501	2.143	1.488	0.503	1.991	2.221
Nonresidential Process Overhaul						
Large SPC (Statewide)	2.545	2.700	0.281	2.419	2.700	1.200
Large Industrial Informational Services	0.179	0.335	0.212	0.124	0.335	0.080
Agricultural/Pumping Services	0.096	0.280	0.256	-	0.256	0.244
Emerging Technologies	0.432	0.200	0.048	-	0.048	0.080
Energy Centers - CTAC/AGTAC	0.160	0.173	0.163	-	0.163	0.170
Sub Total	3.412	3.688	0.959	2.543	3.502	1.774
Commercial Remodeling Renovation						
Large SPC (Statewide)	2.324	1.000	0.104	0.896	1.000	1.575
Large Commercial Informational Services	0.074	0.250	0.155	0.095	0.250	0.120
Large Industrial Informational Services	-	-	-	-	-	0.100
Savings By Design	-	2.000	0.295	1.705	2.000	1.700
Emerging Technologies	0.956	0.825	0.198	-	0.198	0.900
Energy Centers - CTAC/AGTAC	0.359	0.482	0.456	-	0.456	0.485
Sub Total	3.713	4.557	1.208	2.696	3.903	4.880
TPI Administration/Solicitation Process	-	0.442	0.097	0.345	0.442	1.000
General Support Activities	1.867	1.846	1.343	-	1.343	1.487
Nonresidential Subtotal	\$ 34.700	\$ 36.488	\$ 13.883	\$ 19.962	\$ 33.845	\$ 35.436

2000 Energy Efficiency Program Budget - Year-end
Table 1 (Cont'd)
(\$ in millions)

Program	1999 Recorded Expenses	2000 Authorized Budget	Year-end ⁽¹⁾		Total Actual + Committed	2001 Proposed Budget
			Actual 09/30/2000	Commitments 09/30/2000		
New Construction Programs						
Residential New Construction						
SCE - sponsored Comfortwise sm	1.702	3.200	2.515	0.685	3.200	4.580
HVAC Diagnostics	0.069	-	-	-	-	-
Emerging Technologies	0.160	0.200	0.057	0.143	0.200	0.170
Energy Centers - CTAC/AGTAC	0.070	0.135	0.128	-	0.128	0.136
Sub Total	2.001	3.535	2.700	0.828	3.528	4.886
Commercial New Construction						
Energy Design Resources	1.054	1.300	0.801	0.499	1.300	1.200
Savings By Design (statewide)	2.193	2.827	0.823	2.004	2.827	4.500
Emerging Technologies	0.982	0.725	0.238	0.487	0.725	0.600
Energy Centers - CTAC/AGTAC	0.054	0.111	0.077	-	0.077	0.108
Sub Total	4.283	4.962	1.939	2.989	4.928	6.408
Industrial and Agricultural New Construction						
Energy Efficiency Incentives	0.817	0.971	0.299	0.180	0.479	-
Savings By Design (statewide)	0.588	0.500	0.146	0.354	0.500	0.800
Emerging Technologies	0.500	0.200	0.066	0.134	0.200	0.200
Energy Centers - CTAC/AGTAC	0.026	0.085	0.060	-	0.060	0.084
Sub Total	1.931	1.756	0.570	0.669	1.239	1.084
New Construction Codes & Standards Support and Local Government Initiatives						
Energy Design Resources	0.100	-	-	-	-	-
Local Government Initiatives	0.832	0.700	0.683	-	0.683	0.400
Emerging Technologies	0.075	0.700	0.230	0.470	0.700	0.700
Energy Centers - CTAC/AGTAC	0.011	0.047	0.033	-	0.033	0.047
Sub Total	1.018	1.447	0.946	0.470	1.416	1.147
TPI Administration/Solicitation Process	-	0.802	0.511	0.291	0.802	1.400
General Support Activities	0.562	0.397	0.338	-	0.338	0.544
New Construction Subtotal	\$ 9.796	\$ 12.899	\$ 7.003	\$ 5.247	\$ 12.251	\$ 15.469
TOTALS	\$ 71.041	\$ 79.200	\$ 42.511	\$ 32.048	\$ 74.560	\$ 79.869

**Southern California Edison
2000 Energy Efficiency Program Energy & Demand Reductions - Year-end
Table 2**

Program	1999			2000 Reduction Year-end (12/31/00)			2001		
	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)
Residential Programs									
<i>Heating and Cooling Systems</i>									
Energy Use Profile Audit	4,516.5	0.887		1,783.8	0.350		1,058.0	0.506	
In-Home Audit (onsite)	1,144.9	0.150		681.5	0.100		803.6	0.174	
In-Home Audit (phone)	286.2	0.037		126.5	0.025		88.2	0.019	
On-Line Audit				133.8	-		308.6	0.148	
Sub Total	5,947.6	1.074		2,725.5	0.475		2,258.4	0.846	
<i>Residential Lighting</i>									
Energy Use Profile Audit	1,373.9	0.270		1,427.0	0.280		529.0	0.253	
In-Home Audit (onsite)	348.3	0.046		545.2	0.080		401.8	0.087	
In-Home Audit (phone)	87.1	0.011		101.2	0.020		44.1	0.010	
On-Line Audit				107.0	-		246.9	0.118	
Upstream Lighting Program (Statewide)				9,940.1			8,329.5	-	
Residential Contractor (Statewide)				1,905.3	0.318				
Sub Total	1,809.2	0.327		14,025.9	0.698		9,551.3	0.467	
<i>Residential Appliances</i>									
Energy Use Profile Audit	914.9	0.180		356.8	0.070		529.0	0.253	
In-Home Audit (onsite)	231.9	0.030		136.3	0.020		401.8	0.087	
In-Home Audit (phone)	58.0	0.008		25.3	0.005		44.1	0.010	
On-Line Audit				26.8	-		61.7	0.030	
Residential Appliance Direct Rebate	15,393.1	1.818		2,601.0	0.845		4,700.9	7.350	
Residential Spare Refrigerator Recycling	65,240.2	15.095		66,952.0	11.700		43,707.6	6.690	
Upstream Appliance Program (Statewide)				1,572.5	0.695				
Consortium for EE Res. Electric End-Use Effic (CEEREEE)				19.8	0.009				
Sub Total	81,838.0	17.1		71,690.4	13.344		49,445.1	14.418	
<i>Residential Retrofit & Renovation</i>									
Energy Use Profile Audit	3,434.7	0.674		3,567.5	0.700		1,587.0	0.759	
In-Home Audit (onsite)	870.6	0.114		1,363.0	0.200		1,205.4	0.260	
In-Home Audit (phone)	217.7	0.029		253.0	0.050		132.3	0.029	
On-Line Audit				267.5			617.2	0.295	
Residential Contractor (Statewide)	6,787.4	0.802		16,004.7	2.672		20,840.0	2.195	
Sub Total	11,310.5	1.619		21,455.7	3.622		24,381.9	3.538	
Residential Subtotal	100,905.4	20.150		109,897.4	18.139		85,636.6	19.269	

Program	1999			2000 Reduction Year-end (12/31/00)			2001		
	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)
Nonresidential Programs									
<i>Large Nonresidential Comprehensive Retrofit</i>									
Large SPC (Statewide)	111,198.7	20.502		75,658.3	15.572		9,917.3	1.499	
Agricultural/Pumping Services	11,266.7	3.364		5,340.0			6,795.1	1.977	
Sub Total	122,465.4	23.867		80,998.4	15.572		16,712.4	3.476	
<i>Small Nonresidential Comprehensive Retrofit</i>									
Small SPC (Statewide)	9,372.3	1.154		15,234.2	3.010		3,198.5	0.338	
Small Business Incentives (Statewide)	61,040.9	14.435		36,000.0	7.100		72,516.5	10.617	
Small Business Survey & Services							582.6	0.233	
Agricultural/Pumping Services	6,760.0	2.019		11,520.7			3,442.5	1.002	
Sub Total	77,173.2	17.607		62,754.9	10.110		79,740.1	12.190	
<i>Nonresidential HVAC Turnover</i>									
Upstream HVAC	43,607.3	8.040		296.5	0.260		131.6	0.034	
Large SPC (Statewide)				39,533.4	8.137		10,637.6	1.607	
Sub Total	43,607.3	8.040		39,829.9	8.397		10,769.2	1.642	
<i>Motor Turnover</i>									
Large SPC (Statewide)	4,360.7	0.804		5,027.1	1.035		2,659.4	0.402	
Agricultural/Pumping Services	3,380.0	1.009		2,373.4			1,682.7	0.490	
Upstream Motors				390.3	0.078		544.2	0.050	
Agricultural Energy Efficiency Incentives	7,006.3	0.479		4,007.3					
Sub Total	14,747.0	2.293		11,798.1	1.113		4,886.3	0.941	
<i>Nonresidential Process Overhaul</i>									
Large SPC (Statewide)	26,164.4	4.824		27,146.5	5.587		2,659.4	0.402	
Agricultural/Pumping Services	1,126.7	0.336		2,765.9			1,567.1	0.456	
Sub Total	27,291.1	5.161		29,912.5	5.587		4,226.5	0.858	
<i>Commercial Remodeling Renovation</i>									
Large SPC (Statewide)	25,614.9	4.723		10,054.3	2.069		3,490.5	0.527	
Savings By Design				23,625.5	4.131		11,500.8	1.710	
Sub Total	25,614.9	4.723		33,679.8	6.200		14,991.2	2.237	
Nonresidential Subtotal	310,898.9	61.690		258,973.5	46.979		131,325.8	21.344	

Program	1999			2000 Reduction Year-end (12/31/00)			2001		
	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)
New Construction Programs									
<i>Residential New Construction</i>									
SCE - sponsored Comfortwise sm				7,999.9	11.949		1,254.9	0.675	
Sub Total	-	-		7,999.9	11.949		1,254.9	0.675	
<i>Commercial New Construction</i>									
Savings By Design (statewide)	31,031.4	6.941		24,040.0	6.144		15,714.2	3.121	
Sub Total	31,031.4	6.941		24,040.0	6.144		15,714.2	3.121	
<i>Industrial and Agricultural New Construction</i>									
Energy Efficiency Incentives	11,377.2	0.563		3,424.6	0.114				
Savings By Design (statewide)	8,312.8	1.860		4,252.3	1.087		5,333.7	0.555	
Sub Total	19,690.0	2.422		7,676.9	1.200		5,333.7	0.555	
<i>New Construction Codes & Standards Support and Local</i>									
Local Government Initiatives				194.7			8,300.6	2.924	
New Construction Subtotal	50,721.4	9.364		39,911.5	19.294		30,603.3	7.274	
TOTALS	462,525.7	91.204		408,782.3	84.411		247,565.7	47.887	

3-Year Statewide and Cross-Cutting Program Budget/Expenditure Table
Table 3 – Statewide Totals

(\$ in millions)

Program	Statewide Totals						
	1999 Budget	1999 Recorded	2000 Budget	2000 Actual	2000 Committed	2000 Recorded	2001 Budget ¹
Residential Contractor Program (RCP)	10.073	3.545	28.019	10.870	6.358	17.228	34.149
Single Family RCP	-	-	-	-	-	-	-
Multi-Family RCP	-	-	-	-	-	-	-
Upstream Lighting Program	12.400	13.880	16.469	8.685	5.167	13.852	14.494
Upstream Appliance Program	12.066	34.338	29.071	13.770	7.065	20.836	11.569
Statewide Residential Energy Guide	0.952	0.769	1.506	2.539	2.313	4.852	1.835
Large SPC Program	123.500	73.476	88.600	5.221	35.590	40.811	64.851
Small SPC Program	17.200	8.669	20.568	1.326	3.076	4.402	15.269
Express Efficiency Program	25.492	26.751	28.445	13.477	3.838	17.315	39.676
Statewide Business Energy Guide	0.300	0.429	4.672	0.550	0.029	0.578	1.072
Savings By Design Program	9.914	7.003	27.969	4.251	9.106	13.357	34.060
Energy Design Resources Program	3.200	2.919	6.580	1.638	1.215	2.853	6.899
Codes and Standards Support Effort	0.350	0.349	3.485	0.879	1.054	1.933	5.748
Emerging Technologies	14.674	12.776	24.421	8.458	5.163	13.620	19.684
Energy Centers	4.208	4.068	19.362	5.038	(1.000)	4.038	10.366
Statewide Program Total	234.329	188.973	299.167	76.703	78.973	155.676	259.672

Note:

¹ The PY2001 program budget and forecast energy savings adjustments will be updated in the PY 2001 First Quarter Report to comply with D.01-01-060.

3-Year Statewide and Cross-Cutting Program Budget/Expenditure Table
Table 3a – SDG&E

(\$ in millions)

Program	SDG&E						
	1999 Budget	1999 Recorded	2000 Budget	2000 Actual	2000 Committed	2000 Recorded	2001 Budget ²
Residential Contractor Program (RCP)	3.000	-	3.080	-	-	-	4.724
Single Family RCP		1.013		-	2.282	2.282	
Multi-Family RCP		0.417		-	1.042	1.042	
Upstream Lighting Program	7.200	7.742	9.486	2.308	2.308	4.616	7.972
Upstream Appliance Program	6.533	17.538	15.049	1.059	1.059	2.119	5.947
Statewide Residential Energy Guide	0.602	0.431	0.856	2.311	2.311	4.621	0.953
Large SPC Program	66.900	39.071	46.700	0.068	0.068	0.135	33.157
Small SPC Program	9.400	4.597	11.368	-	-	-	8.553
Express Efficiency Program	13.746	14.620	13.747	-	-	-	21.838
Statewide Business Energy Guide ¹	0.150	0.215	2.311	-	-	-	0.561
Savings By Design Program	5.607	4.222	15.010	-	-	-	19.105
Energy Design Resources Program	2.050	1.765	3.493	-	-	-	3.712
Codes and Standards Support Effort	0.275	0.274	1.855	-	-	-	2.999
Emerging Technologies	7.337	6.388	11.953	3.648	3.648	7.296	10.142
Energy Centers	2.104	2.034	12.258	(2.000)	(1.000)	(3.000)	5.183
SDG&E Program Total	124.904	100.326	147.166	7.394	11.717	19.111	124.846

Notes:

¹ SDG&E Energy Guide budget was incorporated in the Small Nonresidential Comprehensive Retrofit Information budget in PY'99 and PY'00.

² The PY2001 program budget and forecast energy savings adjustments will be updated in the PY 2001 First Quarter Report to comply with D.01-01-060.

3-Year Statewide and Cross-Cutting Program Budget/Expenditure Table

Table 3b – PG&E

(\$ in millions)

Program	PG&E						
	1999 Budget	1999 Recorded	2000 Budget	2000 Actual	2000 Committed	2000 Recorded	2001 Budget ⁴
Residential Contractor Program (RCP) ³	-	-	14.457	4.356	2.400	6.756	14.746
Single Family RCP	-	-	-	-	-	-	-
Multi-Family RCP	-	-	-	-	-	-	-
Upstream Lighting Program	3.200	4.478	4.783	4.264	1.996	6.260	4.072
Upstream Appliance Program	1.200	12.722	9.666	8.952	5.530	14.482	4.361
Statewide Residential Energy Guide	-	-	0.400	0.060	-	0.060	0.350
Large SPC Program	32.800	13.735	20.300	3.526	21.493	25.019	18.444
Small SPC Program ¹	5.700	2.903	5.700	0.622	1.400	2.022	4.216
Express Efficiency Program	8.396	8.892	11.200	10.612	2.388	13.000	12.858
Statewide Business Energy Guide	-	-	2.161	0.436	-	0.436	0.211
Savings By Design Program	-	-	9.180	2.936	5.043	7.979	7.047
Energy Design Resources Program	-	-	1.887	0.837	0.716	1.553	1.987
Codes and Standards Support Effort	-	-	1.015	0.616	0.584	1.200	1.730
Emerging Technologies ²	-	-	7.334	2.059	0.355	2.414	3.527
Energy Centers ²	-	-	2.800	3.054	-	3.054	0.263
Statewide Program Total	51.296	42.730	90.883	42.330	41.905	84.235	59.066

Notes:

¹ PG&E includes accounting error adjustments in the fourth quarter.

² PG&E considers these as "cross cutting" strategies.

³ Due to late approval of Multi-Family RCP in 2000, PG&E did not track 2000 expenditures separately for Single Family and Multi-Family RCP.

⁴ The PY2001 program budget and forecast energy savings adjustments will be updated in the PY 2001 First Quarter Report to comply with D.01-01-060.

3-Year Statewide and Cross-Cutting Program Budget/Expenditure Table
Table 3c - SCE

(\$ in millions)

Program	Southern California Edison						
	1999 Budget	1999 Recorded	2000 Budget ¹	2000 Actual	2000 Committed	2000 Recorded	2001 Budget ²
Residential Contractor Program (RCP)	2.600	1.942	4.040	1.682	3.958	5.640	8.378
Single Family RCP	-	-	-	-	-	-	-
Multi-Family RCP	-	-	-	-	-	-	-
Upstream Lighting Program	2.000	1.661	2.200	2.114	0.863	2.977	2.450
Upstream Appliance Program	3.820	3.598	3.820	3.182	0.476	3.658	0.725
Statewide Residential Energy Guide	0.350	0.283	0.200	0.168	0.002	0.170	0.250
Large SPC Program	23.800	20.671	21.600	1.627	14.030	15.657	13.250
Small SPC Program	2.100	1.169	3.500	0.704	1.676	2.380	2.500
Express Efficiency Program	3.350	3.239	1.950	1.620	1.450	3.070	4.433
Statewide Business Energy Guide ¹	0.150	0.141	0.150	0.114	0.029	0.142	0.300
Savings By Design Program	4.307	2.781	3.700	1.264	4.063	5.327	6.700
Energy Design Resources Program	1.150	1.154	1.200	0.801	0.499	1.300	1.200
Codes and Standards Support Effort	0.075	0.075	0.400	0.230	0.470	0.700	0.700
Emerging Technologies	4.622	4.522	2.850	1.163	1.159	2.322	3.300
Energy Centers	2.104	2.034	2.573	2.438	-	2.438	2.823
Statewide Program Total	50.428	43.270	48.183	17.107	28.674	45.782	47.009

Notes:

¹ SCE's Authorized Budget does not include fundshifts made during 2000.

² The PY2001 program budget and forecast energy savings adjustments will be updated in the PY 2001 First Quarter Report to comply with D.01-01-060.

3-Year Statewide and Cross-Cutting Program Budget/Expenditure Table
Table 3d – So Cal Gas

(\$ in millions)

Program	Southern California Gas						
	1999 Budget	1999 Recorded	2000 Budget	2000 Actual	2000 Committed	2000 Recorded	2001 Budget ⁶
Residential Contractor Program (RCP) ¹	4.473	1.603	6.442	4.832	-	4.832	6.301
Single Family RCP	-	-	-	-	-	-	-
Multi-Family RCP	-	-	-	-	-	-	-
Upstream Lighting Program	-	-	n/a	n/a	-	-	-
Upstream Appliance Program	0.513	0.479	0.536	0.577	-	0.577	0.536
Statewide Residential Energy Guide ²	-	0.055	0.050	-	-	-	0.282
Large SPC Program	-	-	n/a	n/a	-	-	-
Small SPC Program	-	-	n/a	n/a	-	-	-
Express Efficiency Program	-	-	1.548	1.245	-	1.245	0.547
Statewide Business Energy Guide ³	-	0.074	0.050	-	-	-	-
Savings By Design Program	-	-	0.079	0.051	-	0.051	1.208
Energy Design Resources Program	-	-	n/a	n/a	-	-	-
Codes and Standards Support Effort	-	-	0.215	0.033	-	0.033	0.319
Emerging Technologies ⁴	2.715	1.866	2.284	1.588	-	1.588	2.715
Energy Centers ⁵	-	-	1.731	1.546	-	1.546	2.097
Statewide Program Total	7.701	4.077	12.935	9.872	-	9.872	14.005

Notes:

- ¹ The RCP budget was increased by \$2 million in Q3/2000
- ² The Residential Energy Guide efforts were not separately budgeted for in PY1999 or PY2000. Printing occurred in 1999. Distribution was handled through a variety of programs in PY2000.
- ³ The Business Energy Guide efforts were not separately budgeted for in PY1999 or PY2000. Printing occurred in 1999. Distribution was handled through a variety of programs in PY2000. PY2001 efforts are budgeted through the Statewide Residential Energy Guide element.
- ⁴ Emerging Technologies PY2000 budget was reduced by \$1 million in Q3 to support the RCP budget increase.
- ⁵ Energy Center costs were allocated among a number of programs in PY1999 and cannot be separated. The PY2000 budget and results are representative of PY1999 budget and results.
- ⁶ The PY2001 program budget and forecast energy savings adjustments will be updated in the PY 2001 First Quarter Report to comply with D.01-01-060.

3-Year Energy and Load Savings - Statewide and Cross-Cutting Programs Net Energy Savings

Table 4 – Statewide Totals

Program	Statewide								
	1999			2000			2001 ¹		
	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)
Residential Contractor Program (RCP)	10,320	2	486,026	20,441	3	0	48,047	14	2,871,891
Single Family RCP	0	0	0	6,053	3	1,500,028	0	0	0
Multi-Family RCP	0	0	0	3,874	0	1,635,774	0	0	0
Upstream Lighting Program	28,891	13	0	20,199	0	0	31,213	2	0
Upstream Appliance Program	9,264	1	348	9,303	2	564,386	1,647	0	477,434
Statewide Residential Energy Guide	0	0	0	0	0	0	0	0	0
Large SPC Program	276,948	46	2,279,364	311,300	47	6,124,576	95,455	18	1,503,310
Small SPC Program	16,947	2	14,134	29,700	5	96,054	11,047	2	220,000
Express Efficiency Program	185,197	35	26,016	232,194	35	375,308	167,727	24	246,718
Statewide Business Energy Guide	0	0	0	0	0	0	0	0	0
Savings By Design Program	58,366	14	17,458	64,107	20	191,192	78,769	25	362,913
Energy Design Resources Program	0	0	0	0	0	0	0	0	0
Codes and Standards Support Effort	0	0	0	0	0	0	0	0	0
Emerging Technologies	0	0	0	0	0	0	163	0	0
Energy Centers	0	0	0	0	0	0	0	0	0
Statewide Program Total	585,934	112.6206	2,823,346	697,172	115.4454	10,487,319	434,068	85.2932	5,682,266

Note:

¹ The PY2001 program budget and forecast energy savings adjustments will be updated in the PY 2001 First Quarter Report to comply with D.01-01-060.

**3-Year Energy and Load Savings - Statewide and Cross-Cutting Programs Net Energy Savings
Table 4a - SDG&E**

Program	SDG&E								
	1999			2000			2001 ¹		
	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)
Residential Contractor Program (RCP)	250	0.0000	53,539				9,093	0.4677	939,254
Single Family RCP				2,923	0.0003	184,290			
Multi-Family RCP				3,874	0.2184	335,774			
Upstream Lighting Program	0	0.0000	0	1,445	0.0000	0	12,488	1.2331	0
Upstream Appliance Program	0	0.0000	0	0	0.0000	0	219	0.0162	38,534
Statewide Residential Energy Guide	0	0.0000	0	0	0.0000	0	0	0.0000	0
Large SPC Program	39,527	3.5500	765,364	45,744	4.6250	763,876	7,658	0.7224	529,435
Small SPC Program	2,425	0.3100	14,134	3,790	0.4410	6,504	2,033	0.3082	0
Express Efficiency Program	30,471	5.8100	16	11,508	2.8610	3	29,987	3.5100	0
Statewide Business Energy Guide	0	0.0000	0	0	0.0000	0	0	0.0000	0
Savings By Design Program	19,022	5.1300	17,458	15,427	3.8740	190,152	24,431	5.4783	291,600
Energy Design Resources Program	0	0.0000	0	0	0.0000	0	0	0.0000	0
Codes and Standards Support Effort	0	0.0000	0	0	0.0000	0	0	0.0000	0
Emerging Technologies	0	0.0000	0	0	0.0000	0	163	0.0884	0
Energy Centers	0	0.0000	0	0	0.0000	0	0	0.0000	0
SDG&E Program Total	91,695	14.8000	850,511	84,711	12.0197	1,480,600	86,072	11.8243	1,798,823

Note:

¹ The PY2001 program budget and forecast energy savings adjustments will be updated in the PY 2001 First Quarter Report to comply with D.01-01-060.

**3-Year Energy and Load Savings - Statewide and Cross-Cutting Programs Net Energy Savings
Table 4b - PG&E**

Program	PG&E ¹								
	1999			2000			2001 ³		
	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)
Residential Contractor Program (RCP)	1,506	1.0450	230,342				15,007	10.8000	1,929,400
Single Family RCP				3,130	3.4	714,559			
Multi-Family RCP				0	0.0	0			
Upstream Lighting Program	28,891	12.9100	0	8,814	0.4	0	10,395	0.5090	0
Upstream Appliance Program	9,264	1.2400	348	7,731	1.1	274,386	904	0.1840	438,900
Statewide Residential Energy Guide	0	0.0000	0	0	0.0	0	0	0.0000	0
Large SPC Program	26,475	3.1400	1,514,000	108,136	10.3	5,360,700	58,433	13.0000	973,875
Small SPC Program	5,150	0.4000	0	10,676	1.2	89,550	5,815	1.0000	220,000
Express Efficiency Program	93,685	15.0000	26,000	184,686	25.1	11,305	65,224	10.0000	9,700
Statewide Business Energy Guide	0	0.0000	0	0	0.0	0	0	0.0000	0
Savings By Design Program	0	0.0000	0	20,161	8.5	0	27,700	15.0000	36,375
Energy Design Resources Program	0	0.0000	0	0	0.0	0	0	0.0000	0
Codes and Standards Support Effort	0	0.0000	0	0	0.0	0	0	0.0000	0
Emerging Technologies ²	0	0.0000	0	0	0.0	0	0	0.0000	0
Energy Centers ²	0	0.0000	0	0	0.0	0	0	0.0000	0
PG&E Program Total	164,971	33.7350	1,770,690	343,334	50.0000	6,450,500	183,478	50.4930	3,608,250

Notes:

¹ PG&E energy reductions include actual and expected energy savings on commitments thru 12/31/2000.

² PG&E considers these as "cross cutting" strategies.

³ The PY2001 program budget and forecast energy savings adjustments will be updated in the PY 2001 First Quarter Report to comply with D.01-01-060.

3-Year Energy and Load Savings - Statewide and Cross-Cutting Programs Net Energy Savings Table 4c - SCE

Program	Southern California Edison								
	1999			2000			2001 ³		
	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW) ^[2]	Gas (Therms)
Residential Contractor Program (RCP)	6,787	0.8025	0	17,910	2.9900	0	20,840	2.1954	0
Single Family RCP									
Multi-Family RCP									
Upstream Lighting Program	0	0.0000	0	9,940	0.0000	0	8,330	0.0000	0
Upstream Appliance Program ¹	0	0.0000	0	1,572	0.6948	0	524	0.2312	0
Statewide Residential Energy Guide	0	0.0000	0	0	0.0000	0	0	0.0000	0
Large SPC Program	210,946	38.8934	0	157,420	32.4000	0	29,364	4.4373	0
Small SPC Program	9,372	1.1537	0	15,234	3.0100	0	3,199	0.3379	0
Express Efficiency Program	61,041	14.4350	0	36,000	7.1000	0	72,516	10.6175	0
Statewide Business Energy Guide	0	0.0000	0	0	0.0000	0	0	0.0000	0
Savings By Design Program	39,344	8.8010	0	28,292	7.2309	0	21,048	3.6758	0
Energy Design Resources Program			0	0	0.0000	0	0	0.0000	0
Codes and Standards Support Effort			0	0	0.0000	0	0	0.0000	0
Emerging Technologies			0	0	0.0000	0	0	0.0000	0
Energy Centers			0	0	0.0000	0	0	0.0000	0
SoCal Edison Program Total	327,491	64.0856	0	266,369	53.4257	0	155,821	21.4949	0

Notes:

¹ SCE Statewide Appliance Program also includes downstream incentives.

² On-Peak Capacity Savings.

³ The PY2001 program budget and forecast energy savings adjustments will be updated in the PY 2001 First Quarter Report to comply with D.01-01-060.

**3-Year Energy and Load Savings - Statewide and Cross-Cutting Programs Net Energy Savings
Table 4d - So Cal Gas**

Program	Southern California Gas								
	1999			2000			2001 ⁸		
	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)	Energy (MWH)	Demand (MW)	Gas (Therms)
Residential Contractor Program (RCP) ¹	1,777	n/a	202,145	2,531			3,107	0.4810	3,237
Single Family RCP						601,179			
Multi-Family RCP						1,300,000			
Upstream Lighting Program	0	0.0000	0	n/a	n/a	n/a	0	0.0000	0
Upstream Appliance Program ²	n/a	n/a	n/a	0	0.0000	290,000	n/a	n/a	n/a
Statewide Residential Energy Guide ³	n/a	n/a	n/a	0	0.0000	0	n/a	n/a	n/a
Large SPC Program	0	0.0000	0	n/a	n/a	n/a	0	0.0000	0
Small SPC Program	0	0.0000	0	n/a	n/a	n/a	0	0.0000	0
Express Efficiency Program	0	0.0000	0	0	0.0000	364,000	0	0.0000	237,018
Statewide Business Energy Guide ³	n/a	n/a	n/a	0	0.0000	0	n/a	n/a	n/a
Savings By Design Program	0	0.0000	0	227		1,040	5,590	1.0000	34,938
Energy Design Resources Program	0	0.0000	0	n/a	n/a	n/a	0	0.0000	0
Codes and Standards Support Effort ⁴	n/a	n/a	n/a	0	0.0000	0	n/a	n/a	n/a
Emerging Technologies ⁵	n/a	n/a	n/a	0	0.0000	0	n/a	n/a	n/a
Energy Centers ⁶	n/a	n/a	n/a	0	0.0000	0	n/a	n/a	n/a
SoCal Gas Program Total	1,777	0.0000	202,145	2,758	0.0000	2,556,219	8,697	1.4810	275,193

Notes:

- ¹ The RCP demand (MW) savings were not estimated for PY1999 and PY2000.
- ² The Upstream Appliance Program has not savings estimates for PY2001 since the direct rebates for high efficiency clothes washers may not be offered.
- ³ SoCalGas does not have energy savings estimates for its Residential and Business Energy Guide efforts.
- ⁴ SoCalGas does not have savings estimates for its Codes and Standards Support efforts.
- ⁵ SoCalGas does not have savings estimates for its Emerging Technologies efforts.
- ⁶ SoCalGas does not have savings estimates for its Energy Center efforts.
- ⁷ SoCalGas did not head up any statewide studies.
- ⁸ The PY2001 program budget and forecast energy savings adjustments will be updated in the PY 2001 First Quarter Report to comply with D.01-01-060.

**Summer 2000 Energy Efficiency Initiatives Budget & Expenditures – Year-end
Table 5**

Program	2000/2001 Authorized Budget	YTD			
		Actual Incentives 12/31/2000	Commitments 12/31/2000	Total Actual + Committed	Utility Administrative Costs 12/31/2000
Beat The Heat	\$ 250,000	\$ -	\$ -	\$ -	\$ 865
Residential Refrigerator Recycling	1,200,000	1,200,000	-	1,200,000	31,330
Pool Efficiency Program	3,000,000	-	277,840	277,840	65,144
Campus Energy Efficiency Programs	3,500,000	1,750,000	(93,460)	1,656,540	1,886
Residential Hard To Reach	2,600,000	-	2,080,000	2,080,000	9,350
LED Traffic Signal Rebate Program	7,500,000	-	7,500,000	7,500,000	13,374
COPE	1,500,000	-	1,500,000	1,500,000	156
TPI Solicitation Process	1,700,000	3,960	1,696,040	1,700,000	9,342
Total	\$ 21,250,000	\$ 2,953,960	\$ 12,960,420	\$ 15,914,380	\$ 131,447

Note: Express Efficiency & Standard Performance Contract Programs expenditures are documented under Statewide table 3.

MARKET ASSESSMENT & EVALUATION

Southern California Edison Company Statewide and Utility-Level Evaluation Projects

Study Area	Project ID	Project Title	Project Description	Project Objective (or milestone addressed for utility-level studies)	Lead Utility	Contact (Project/Area Manager)	Budget	Project Status	Expected Date of Completed Report
<i>Statewide Studies PY 1999</i>									
NON-RESIDENTIAL	SW022	PY 1999 Large Nonresidential Standard Performance Contracting (LNRSPC)	Process and Impact study of Statewide 1999 LNRSPC	Recommendations for program improvements for PY2001 and estimate of net energy and demand impacts.	SCE	Pierre Landry	\$ 300,000	Draft Reporting	01/12/2001
GENERAL PURPOSE	SW030	Market Share Tracking (1999)	Establish market share baseline for various types of high-efficiency residential measures and track movement of market share over time	To monitor the changing level of energy-efficient market shares for various targeted end use measure	SCE	Richard Pulliam	\$ 515,000	Completed	10/20/2000
<i>Total PY1999</i>							\$ 815,000		

**Statewide Studies PY
2000**

NEW CON- STRUCTION	SW015	NRNC Market Characteristics & Program Activities Tracking	Describe NRNC mkt and track changes over time so that NRNC activities can adapt and prioritize efforts to meet needs of diverse segments. Track activity and penetration of the statewide NRNC program, Savings By Design (SBD).	Develop standardized reports on characteristics of NRNC mkt (construction value & volume, bldg types, owner types, design team characteristics, etc), and present quarterly summary reports.	SCE	Douglas Mahone	\$ 421,000	Data Collection	02/10/2001
NEW CON- STRUCTION	SW016	NRNC Building Efficiency and Program Process Assessment	Data developed on ongoing basis. Quantify whole bldg and end use savings and efficiencies of both SBD part & nonpart bldgs. Collect process data (attitudes, practices) re the Statewide Savings By Design Program by interviewing active program participants as they go through program process. Results will provide immediate feedback to program mgrs and policy makers.	1) Conduct detailed onsite surveys and build DOE-2 models of ea bldg in the sample. Calculate energy savings by end use for whole bldgs. Develop quantifiable info on changes in bldg efficiency attributable to Savings By Design program. 2) Establish an early baseline of program part attitudes & response to Program. Data will be gathered regularly to track changes over time.	SCE	Douglas Mahone	\$ 640,000	Data Collection	02/15/2001
NEW CON- STRUCTION	SW018	NR Codes & Standards	Review and explain C&S statewide program work targeted at Title 24 upgrades in 2001 and 2004.	1) Summarize on-going nonresidential codes and standards work, 2) Highlight linkages with other MT program activities that could feed into C&S area, 3) Project C&S program effects.	SCE	Douglas Mahone	\$ 45,000	Pre-RFP	10/30/2001

NEW CONSTRUCTION	SW019	Relocatable Classrooms	Baseline study and program review of existing pilot program. Market characterization and review of program potential.	1) Characterize market and current actors, 2) Estimate market size and energy savings potential statewide, 3) Review current pilot program findings and successes.	SCE	Douglas Mahone	\$ 75,000	Cancelled	-
NON RESIDENTIAL	SW023	Market Research on Large Nonresidential Customer Wants and Needs	Unique effort to identify the needs and wants of large customers in specific industry segments	Input for program design	SCE	Pierre Landry	\$ 180,000	Draft Reporting	01/30/2001
NON RESIDENTIAL	SW024	Market Research on the Decision to Become an Energy Efficiency Service Provider (EESP)	Interviews with EESPs and non EESPs	Performance Contracting performance improvement by bringing in new EESP players	SCE	Pierre Landry	\$ 70,000	Data Collection	03/31/2001
NON RESIDENTIAL	SW025	Success Stories of Business to Business Services	Project has been rolled into SW024 for completion and reporting. It is an investigation into the business of providing business services.	Develop business strategies for EESPs in California	SCE	Pierre Landry	\$ -	Pre-RFP	12/02/2000
NON RESIDENTIAL	SW026	Evaluation of PY2000 Nonresidential SPC Program	Process evaluation with estimates of eventual program impacts	Recommendations for program improvements and estimates of net energy impacts	SCE	Pierre Landry	\$ 250,000	RFP out	06/30/2001
NON RESIDENTIAL	SW027	Evaluation of PY2000 C/I Energy Efficiency Information Program	Statewide process and impact evaluation for C&I EE Information Programs	1) Determine accomplishment of program objectives. 2) Estimate program net behavioral impact.	SCE	Pierre Landry	\$ 150,000	Pre-RFP	06/30/2001

GENERAL PURPOSE	SW031	Market Share Tracking (2000)	Establish market share baseline for various types of high-efficiency residential measures and track movement of market share over time	To monitor the changing level of energy-efficient market shares for various targeted end use measure	SCE	Richard Pulliam	\$ 477,225	Data Collection	08/30/2001
RESIDENTIAL	SW032	Statewide Study of Customer Remodeling Decisions	Customer decision making study; remodeling scope and components considered; consumer's decision making process including awareness of options and sources of information; reasons for considering remodeling project; importance of various attributes in the decisions including first cost, project features (energy efficiency), installation practices, contractors, subcontractors, etc.	Developing a profile of homeowners in CA who plan to or have recently remodeled and developing segmentation. Look at key drivers and see how they affect decision making. Identify barriers to choices of EE, key information, and delivery channels for remodeling.	SCE	Shahana Samiullah	\$ 240,000	Analysis	03/01/2001
RESIDENTIAL	SW033	Process Evaluation of PY 2000 Residential Contracting Program (RCP)	Examine the procedures and processes used to promote and implement the Statewide RPC program and make recommendations for improving procedures and processes.	Document how PY2000 programs were designed & intended to achieve sustainable changes in the mkt in Year 2000. Characterize how they did work. Develop program recommendations to improve future RCP.	SCE	Shahana Samiullah	\$ 110,000	Analysis	03/30/2001
Sub-Total PY2000							#####		

Utility-level Studies PY 2000

GENERAL PURPOSE	US108	Nonresidential Customer Classification Coding Project	Assigns SIC and NAICS codes for all nonresidential customer accounts	Accurate SIC and NAICS codes for all nonresidential customers. Develop and refine software system for analysis.	SCE	Michael Redding	\$ 120,000	Data Collection	No Report Planned
GENERAL PURPOSE	US109	Weather Data System Project	Gather, store, and provide access to weather data from the 24 SCE weather stations.	Provide historical and current weather data for energy efficiency analyses.	SCE	Michael Redding	\$ 130,000	Data Collection	No Report Planned
RESIDENTIAL	US110	Residential Refrigeration Performance Milestone	Identify total and energy-efficient retailer floor stock of refrigerators in SCE territory.	Determine change in proportion of energy-efficient refrigerator floor stock.	SCE	Shahana Samiullah	\$ 30,000	Data Collection	04/01/2001
RESIDENTIAL	US111	Residential Window Performance Milestone	Identify inventory and Energy Star rated inventory and stocking levels	Determine % change in floor stock of Energy Star rated windows	SCE	Shahana Samiullah	\$ 30,000	Data Collection	04/01/2001
RESIDENTIAL	US112	Residential Energy-efficient Window Awareness Study	Exit survey of retail window customers	Determine changes in customer awareness of high performance windows due to visit at store.	SCE	Marian Brown	\$ 25,000	Pre-RFP	05/01/2001
RESIDENTIAL	US114	New Home Energy Efficiency Milestone Report	Gather data on total new single family homes permitted during 2000 and the number exceeding Title 24 by 10% or more.	Identify proportions of new single family homes exceeding Title 24 by 10% or more.	SCE	Marian Brown	\$ 50,000	Pre-RFP	05/01/2001
RESIDENTIAL	US118	Marketing Training for Residential New Construction Sales Agents	Pre- and post- training testing of builder sales agents on marketing energy-efficient features in new construction.	To determine increases in builder staff awareness of opportunities to market energy efficiency.	SCE	Marian Brown	\$ 5,000	Analysis	05/01/2001
NON RESIDENTIAL	US115	Small Commercial Do-It-Yourself	Evaluate how many measures are implemented, baseline levels, and customer	To establish baseline estimates of customer adoption rate, and to establish customer expectations.	SCE	Angela Jones	\$ 37,760	Between Phases	03/23/2001

		Energy Survey Study	expectations.							
NON RESIDENTIAL	US116	Evaluation of SCE's Emerging Technology Showcase Program	Two phase evaluation of the emerging technology program. Phase one estimates baseline levels of awareness, attitudes, knowledge and behavior, Phase 2 is devoted to measuring changes in baseline estimates along with any near term market effects.	1) measure baseline awareness of targeted emerging technologies, 2) develop a program theory, hypotheses, and indicators of market effects, 3) measure changes in awareness and any near term market effects of those directly exposed to showcases.	SCE	Angela Jones	\$ 150,000	Between Phases	05/01/2002	
NON RESIDENTIAL	US117	Evaluation of SCE's Technology Applications Centers (CTAC & AgTAC)	Market effects and baseline awareness study of CTAC and AgTAC	1) conduct market effects study of CTAC & AgTAC, 2) complete basic process evaluation, 3) conduct a baseline study to assess customer awareness of CTAC and AgTAC.	SCE	Angela Jones	\$ 130,000	Completed	09/11/2000	
NON RESIDENTIAL	US113	Nonresidential HVAC Diagnostic Contractor Survey	Report on contractor technician training and use of HVAC diagnostic tool (CHECKMe!)	Identify the increased number of technicians trained and using the tool.	SCE	Marian Brown	\$ 15,000	Pre-RFP	05/01/2001	
							Sub-Total PY2000	\$ 722,760		
							Total PY2000	#####		

Statewide Studies

PY 2001

RESIDENTIAL	SW48	Statewide Residential Needs Assessment Study	This study was sought by some stakeholders and ordered by the Administrative Law Judge on October 25, 2000. The overall research objective is to assess the needs of residential customers, with a particular focus on hard-to-reach customers, as they relate to greater program participation and adoption of energy efficiency measures. Additionally, the intent is to develop outreach strategies and program design features to foster program participation and measure adoption. The proposed study will specially focus on hard-to-reach residential customer segments defined as multi-family housing; tenants; limited-English speaking customers; moderate-income customers; and rural customers.	1. Provide in a single summary study a variety of information on the needs of the residential customer segments, with a particular focus on the segments identified as hard-to-reach: multi-family housing; tenants; limited-English speaking customers; moderate income customers; and rural customers; 2. Use the information gathered to suggest outreach strategies and program design features to foster greater program participation among hard-to-reach customer groups to promote the residential programs; and 3. Use the needs information to suggest program design features that can increase customer adoption of measures promoted through the residential programs.	SCE	Shahana Samiullah	\$ 100,000	RFP out	04/27/2001
Total PY2001 \$ 100,000									

Pacific Gas & Electric Company
Statewide and Utility-Level Evaluation Projects

Study Area	Project ID	Project Title	Project Description	Project Objective (or milestone addressed for utility-level studies)	Lead Utility	Contact (Project/Area Manager)	Budget	Project Status	Expected Date of Completed Report
Statewide Studies									
PY 1999									
NEW CON- STRUCTION	SW007	MA&E Efforts in Support of Residential New Construction Programs - 1999	Project provides baseline data on energy efficiency measure saturatioins in new homes and evaluates the 1999 RNC Programs.	Provide information that will ID relevant and desired features that should be adopted in the statewide RNC programs, and to assess effectiveness (via indicators) of current (and potentially new) programs in promoting mkt transformation.	PG&E	Mary Kay Gobris	\$ 105,000	Completed	08/04/2000
NEW CON- STRUCTION	SW011	MA&E Study in Support of Codes & Standards	The Statewide Codes and Standards Study will assess strategies for improving the construction industry's effectiveness in installing energy efficiency measures commonly used to achieve compliance with California's Title 24. It will focus particular attention on building commissioning (in the nonresidential sector), diagnostics (in the	1) This study should assess strategies for improving the construction industry's effectiveness in installing energy efficiency measures commonly used to achieve compliance with California's Title 24. It should focus particular attention on building commissioning (in the NR sector), diagnostics (in the RES sector), third party inspections, and linkages between construction quality and liability insurance concerns. 2) This study should	PG&E	Mary Dimit	\$ 294,615	Completed	08/31/2000

			residential sector), third party inspections, and linkages between construction quality and liability insurance concerns. This study will also assess how utilities, either informally or through formal PGC-funded programs, can more effectively influence the standards development and implementation process by promoting consensus for incorporation of industry best practices in the standards. In doing so, this study will document how the codes and standards process can work synergistically with PGC-funded programs to achieve stated program objectives.	assess how utilities, either informally or through formal PGC-funded programs, can more effectively influence the standards development and implementation process by promoting consensus for incorporation of industry best practices in the standards. In doing so, this study should document how the codes and standards process can work synergistically with PCG-funded programs to achieve stated program objectives.						
NON RESIDENTIAL	SW035	1999 Small/Medium Nonresidential Evaluation	Market assessment, baseline, and process evaluation of the 1999 small and medium NR programs statewide. Workshops will also be done with this project.	To evaluate the 1999 programs and Input to design 2000 programs	PG&E	Mary O'Drain	\$ 428,470	Completed	12/31/2000	
NON RESIDENTIAL	SW040	Development of new method for forecasting and estimation of benefits from market effects	Development of new method for forecasting and estimation of benefits from market effects	To compare and contrast measurement of load impact programs verses market transformation programs	PG&E	Chris Ann Dickerson	\$ 415,000	Final Reporting	01/31/2001	
							Total PY1999	#####		

Statewide Studies

PY 2000

NON RESIDENTIAL	SW021	Statewide Industrial Sector Study	1) Existing utility records, program tracking databases and recent evaluations will be used to characterize industrial customers by SIC2 code, energy use, end-use, location, size, history of participation in energy efficiency programs, etc. 2) Search for patterns of success in the industrial mkt sector and identify whether lessons learned can be applied in areas where improvement is currently needed. 3) Work closely with project/area mgrs responsible for other nonres statewide MA&E activities to ensure adequate attention paid to industrial information needs.	1) Detect and analyze patterns related to industrial sector energy efficiency. 2) Instances of successfully transformed industrial markets will be identified and studied on a case-by-case basis. Primary focus is on demonstration projects and partnerships with integrated energy efficiency/waste reduction/water savings, etc. 3) Track activity specifically related to industrial mkt sector using data from current, ongoing nonres MA&E efforts. A series of industrial-specific MA&E activity reports will be presented as a result of this research.	PG&E	Rafael Friedmann	\$ 200,000	Data Collection	04/01/2001
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NEW CON- STRUCTION	SW028	Investigate Builder Compliance to Title 24	This study will provide a baseline for residential new construction practices. The purpose of this study is to determine the barriers to builders not complying with Title 24, the differences between builders who do not comply and builders who exceed Title 24. This study will attempt to determine kinds of incentives are needed to encourage builders to meet Energy Star standards. It will attempt to determine how the July 1999 changes to Title 24 impact builder practices.	Identify proportion of builders who are not complying and to characterize them in terms of noncompliance; demographically (ie climate zone, type of homes built, measure installed, etc.).	PG&E	Mary Kay Gobris	\$ 350,000	Analysis	04/15/2001
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NEW CON- STRUCTION	SW029	Market Effects Tracking of Residential New Construction	This study will examine the impact that each utilities RNC program has on customer awareness of energy efficiency options, builders practices in promoting and implementing greater than Title 24 standards for RNC, Realtors promotion of energy efficient RNC, and how lenders and appraisers consider energy efficiency in the lending and appraisal processes. This is a two year study with comparisons to prior years results. The study for the 2000 program will begin in the first quarter of 2001 and will end by July/Aug 2001. There will be similar dates for the 2001 program.	Provide information that will ID relevant and desired features that should be adopted in the statewide RNC programs, and to assess effectiveness (via indicators) of current (and potentially new) programs in promoting mkt transformation.	PG&E	Mary Kay Gobris	\$ 275,000	Analysis	08/01/2001
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NON RESIDENTIAL	SW039	Studies of Small/ Medium Nonresidential Program Elements	1) Focus on the other numerous smaller program elements included in the utilities' nonres portfolios. 2) Continue to study, evaluate & support program interventions in sm nonres mkt. Incl analysis of mkt effects attributable to pre-2000 programs, and process eval & near-term mkt effect analysis of PY2000 programs. 3) Further research & modeling of factors predictive of energy-related attitudes, knowledge and behaviors in the small and medium non-res mkts will be conducted.	Provide initial or updated feedback on programs or intervention strategies not covered in Project SW041. One or more individual or combined mkt assessment and eval studies will be conducted focusing on energy audits, website tools, energy centers, modeling. 2) a) Provide updated info on end-user & supply-side actor energy effic attitudes & practices; b) process eval feedback on py2000 program interventions; and c) updated analysis of mkt effects of sm nonres program interventions (pre-2000 & py2000). 3) Improve understanding of sub-segment differences in efficiency related attitudes, barriers, and practices among nonres customers. Depending on final scope, results of analyses conducted will be used to ID key leverage points by sub-mkt	PG&E	Chris Ann Dickerson	\$ 847,500	Contract under negotiation	09/30/2001
							Total PY2000	#####	
Utility-level Studies PY 2000 - There are no MA&E utility specific studies occurring in PY2000									
Statewide Studies PY 2001									
RESIDENTIAL	SW049	Summer Initiative Pool Pump Program Evaluation	Market characterization, baseline, and post impact evaluation of the program.	To assess the peak impacts of the pool pumps program.	PG&E	Valerie Richardson	TBD	RFP out	12/30/2001
							Total PY2001	\$ -	

California Energy Commission

Statewide Evaluation Projects and Data Collection Activities

Study Area	Project ID	Project Title	Project Description	Project Objective (or milestone addressed for utility-level studies)	Lead Utility	Contact (Project/Area Manager)	Budget*	Project Status	Expected Date of Completed Report
Statewide Studies									
PY 1999									
GENERAL PURPOSE	SW020	Nonresidential Market Share Tracking	Tracking of nonresidential market decision factors and energy-efficient equipment	Looking for adoption of energy-efficient practices	CEC	Adrienne Kandel	\$ 1,010,000	Data Collection	06/12/2002
GENERAL PURPOSE	SW046	DEER Update	To update the residential and commercial measure cost portion of the database and energy savings and peak demand reductions data for the residential sector only.	To update the data needed for measure cost effectiveness evaluation.	CEC	Carol Collins	\$ 350,000	Data Collection	08/01/2001
						Total PY1999	#####		
Statewide Studies									
PY 2000									
NON RESIDENTIAL	SW012	Literature Review of Existing Research.	Review CADMAC and other studies that overlap with nonresidential remodeling and renovation	Determine what information is available, where it is, and fill in gaps on nonresidential remodeling and renovation	CEC	Sylvia Bender	\$ 50,000	Analysis	03/30/2001
NON RESIDENTIAL	SW013	Nonresidential Remodeling and Renovation Study	Market characterization of the NR remodeling and renovation sector	Broad characterization of the nonresidential remodeling and renovation market	CEC	Sylvia Bender	\$ 200,000	Data Collection	07/01/2001

GENERAL PURPOSE	SW044	California CEUS	The California CEUS will be the Commission's primary commercial building end-use research effort. It will: 1) Development of energy end-use estimates and end-use load profiles by commercial market segment 2) Development of end-use saturation estimates as input into the Commission end-use forecasting models 3) Development of a commercial market segment end-use disaggregation modeling system for use in conducting building energy demand analysis	The scope of this project is to 1) design a representative sample of commercial buildings and collect the required characteristic data, 2) construct calibrated engineering simulation models for individual buildings that are surveyed, and 3) organize the engineering simulation models in a batch environment for performing energy demand analysis	CEC	Mark Ciminelli	\$ 1,800,000	Project Initiation - Project start date of 2/15/01 possible	09/15/2003
RESIDENTIAL	SW047	Residential Appliance Saturation Survey	A survey of residential dwellings to collect appliance saturation and usage patterns.	Main objectives are 1) description of household demographics, 2) appliance saturations, and 3) electricity consumption (kWh and kW).	CEC	Glen Sharp	\$ 1,900,000	Project Initiation - contract to begin 2/15/01	06/30/2003
						Total PY2000	#####		

**Statewide Studies
PY 2001**

NON RESIDENTIAL	SW014	Phase Two Nonresidential Remodeling and Renovation Study	Potentially this will be the project description: 4 specific mkts with substantial unmet potential will be selected. Avail info will be augmented with focus groups to characterize these mkts in depth with respect to mkt actors, motivations & barriers to adoption of economic EE technologies. The project will also assess whole bldg & end use energy savings and efficiencies of gut rehabs & shell completions. Gather attitudes & barriers specific to R&R mkt, cross-ck results w/ bldg surveys and DOE-2 simulations. Lastly, this project will gather specific info on opportunities to promote mkt transformation in the mkt of gas appliances. Examine opportunities for a systematic approach to mkt transformation surrounding event of R&R rather than appliance-based approach.	Direction of this study will depend on results of Phase one (SW013). At this point, this project probably will not occur.	CEC	Sylvia Bender	\$ 100,000	Pre-RFP	12/30/2002	
							Total PY2001 \$ 100,000			

Southern California Gas Company Statewide and Utility-Level Evaluation Projects

Study Area	Project ID	Project Title	Project Description	Project Objective (or milestone addressed for utility-level studies)	Lead Utility	Contact (Project/Area Manager)	Budget	Project Status	Expected Date of Completed Report
Utility-level Studies PY 2000									
RESIDENTIAL	US118	Marketing Training for Residential New Construction Sales Agents	Pre- and post- training testing of builder sales agents on marketing energy-efficient features in new construction.	To determine increases in builder staff awareness of opportunities to market energy efficiency.	SCE	Marian Brown	\$ 5,000	Analysis	05/01/2001

RESIDENTIAL	SW48	Statewide Residential Needs Assessment Study	This study was sought by some stakeholders and ordered by the Administrative Law Judge on October 25, 2000. The overall research objective is to assess the needs of residential customers, with a particular focus on hard-to-reach customers, as they relate to greater program participation and adoption of energy efficiency measures. Additionally, the intent is to develop outreach strategies and program design features to foster program participation and measure adoption. The proposed study will specially focus on hard-to-reach residential customer segments defined as multi-family housing; tenants; limited-English speaking customers; moderate-income customers; and rural customers.	1. Provide in a single summary study a variety of information on the needs of the residential customer segments, with a particular focus on the segments identified as hard-to-reach: multi-family housing; tenants; limited-English speaking customers; moderate income customers; and rural customers; 2. Use the information gathered to suggest outreach strategies and program design features to foster greater program participation among hard-to-reach customer groups to promote the residential programs; and 3. Use the needs information to suggest program design features that can increase customer adoption of measures promoted through the residential programs.	SCE	Shahana Samiullah	\$ 100,000	RFP out	04/27/2001
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NON RESIDENTIAL	US095	Advanced Water Heating Systems	Gather information and collect data to develop estimates of change in the market share of high efficiency water heaters in the small (core) nonresidential market.	The objective of this study is four-fold: 1) to establish the baseline inventory of the market share of nonresidential water heaters in existence in SCG's service territory, 2) to establish the existing ratio of high efficiency (i.e., greater than Title 24 standard) water heaters sold relative to the standard efficiency units, 3) to develop an estimate of the change in the ratio of high efficiency water heaters sold relative to the standard efficiency units upon implementation of the Advanced Water Heater Program Element of SCG's Small Nonresidential Comprehensive Retrofit Program, and 4) with respect to nonresidential water heater applications, determining existing market barriers to adoption of high efficiency water heater designs.	SCG	Kevin Gerrity	\$ 40,000	Completed	12/31/2000
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NON RESIDENTIAL	US096	Advanced Water Heaters and Space Heat Boilers		The objective of this study is four-fold: 1) to establish the baseline inventory of the market share of nonresidential space heat boilers in existence in SCG's service territory, 2) to establish the existing ratio of high efficiency (i.e., greater than Title 24 standard) space heat boilers sold relative to the standard efficiency units, 3) to develop an estimate of the change in the ratio of high efficiency space heat boilers sold relative to the standard efficiency units upon implementation of the Space Conditioning Efficiency Improvement Program Element of SCG's Small Nonresidential Comprehensive Retrofit Program, and 4) with respect to nonresidential space heat boiler applications, determining existing market barriers to adoption of high efficiency space heat boiler designs.	SCG	Kevin Gerrity	\$ 40,000		Cancelled
NON RESIDENTIAL	US097	Catalytic Infrared Heater Study		Performance milestones changed and benchmark changed and have waited on this proposal for acceptance of these changes.	SCG	Kevin Gerrity	\$ 40,000		Cancelled
NEW CON-STRUCTION	US098	Energy Advantage Home Market Effects Study		0 Program re-designed and obviated the need for this study.	SCG	Craig Tyler	\$ 140,000	Cancelled	01/00/1900
RESIDENTIAL	US099	Residential Contractors Program Market Effects		0 This is being done in conjunction with SCE.	SCG	Craig Tyler	\$ 70,000	Cancelled	05/01/2001

		Study								
						<i>Total PY2000</i>	\$ 435,000			

San Diego Gas and Electric Statewide and Utility-Level Evaluation Projects

Study Area	Project ID	Project Title	Project Description	Project Objective (or milestone addressed for utility-level studies)	Lead Utility	Contact (Project/Area Manager)	Budget	Project Status	Expected Date of Completed Report
Statewide Studies									
PY 2000									
RESIDENTIAL	SW010	Implementation of Phase 3 of the Round II Statewide Lighting & Appliance Study	Complete market effects studies that evaluate progress of these programs towards market transformation.	1) Collect pertinent data to track mkt indicators identified in Study Phase 1. 2) Assess mkt effects of energy efficiency programs by: documenting changes, estimating & quantifying hypothesized mkt effects through data collection, linking mkt effects	SDG&E	Rob Rubin	\$ 250,000	Data Collection	05/01/2001
						Sub-Total	\$ 250,000		
PY2000									
Utility-level Studies PY 2000									
NEW CON- STRUCTION	US106	Market Assessment Study for Commercial New Construction Program - Whole Building Approach	Follow-up survey and analysis	Perform a market assessment and determine the number of design professionals that demonstrate key concepts of the training.	SDG&E	Kevin McKinley	\$ 50,000	Data Collection	05/01/2001
NEW CON- STRUCTION	US107	Market Assessment Study for Commercial New Construction	Cancelled in lieu of statewide study (SW015)	Perform a market assessment and determine the ratio of floor space (committed or planned) that exceeds Title 24 standards by 5% or more.	SDG&E	Kevin McKinley	\$ 125,000	Cancelled	

		Program - >5% over Title 24 Market Share							
NON RESIDENTIAL	US102	Evaluation of Large Nonresidential Comprehensive Retrofit Program - Seminar	Follow-up survey and analysis	Perform a market assessment and determine the number of seminar attendees that indicate a willingness to adopt energy-efficient measures and techniques.	SDG&E	Andrew Sickles	\$ 50,000	Data Collection	05/01/2001
NON RESIDENTIAL	US103	Evaluation of Small Nonresidential Comprehensive Retrofit Program - High Efficiency Clothes Washer	Follow up survey and analysis	Perform a market assessment and determine the saturation of commercial high efficient clothes washers.	SDG&E	Andrew Sickles	\$ 50,000	Analysis	05/01/2001
NON RESIDENTIAL	US104	Evaluation of Nonresidential HVAC Turnover Program	Follow up survey and analysis	Perform a market assessment and determine the ratio of high efficiency HVAC units stocked relative to standard efficiency units.	SDG&E	Andrew Sickles	\$ 70,000	Analysis	05/01/2001
NON RESIDENTIAL	US105	Evaluation of Nonresidential Motor Turnover Program	Follow-up survey and analysis	Perform a market assessment and determine the market share (sales) of CEE rated motors	SDG&E	Andrew Sickles	\$ 70,000	Analysis	05/01/2001
RESIDENTIAL	US090	Energy-efficient Mortgages	Get a set number of customers to apply for an energy-efficient mortgage	Count the number of applications for a home energy rating	SDG&E	Rob Rubin	\$ 70,000	Data Collection	05/01/2001
RESIDENTIAL	US091	Multi-family Property Owners Performance Contracting	Identify those who offer performance contracting to multi-family property owners/property managers	Count number of contractors offering performance contracting to this group	SDG&E	Rob Rubin	\$ 10,000	Data Collection	05/01/2001

RESIDENTIAL	US092	RCP Contractor Training	Contractors are trained in duct testing / whole system approach	Measure the number of contractors who complete training / demonstrate required skills by December, 2000	SDG&E	Rob Rubin	\$ 85,000	Data Collection	05/01/2001
RESIDENTIAL	US093	HVAC Contractor Training	Train contractors to properly use Manuals J & S	Measure the number of contractors who use Manual J & S correctly and compare to the 1999 Baseline.	SDG&E	Rob Rubin	\$ 50,000	Data Collection	05/01/2001
RESIDENTIAL	US094	Residential Cross-Cutting	Measure the increase of customers who implement of those who receive information	Measure the increase of customers who implement of those who receive information	SDG&E	Rob Rubin	\$ 50,000	Data Collection	05/01/2001
RESIDENTIAL	US119	Evaluation of Residential Lighting Fixture Manufacturers Program	Initial and follow-up surveys and analysis	Perform a market assessment and determine if there has been an increase in the number of fixture manufacturers offering energy-efficient products	SDG&E	Rob Rubin	\$ 30,000	Data Collection	05/01/2001
RESIDENTIAL	US120	Evaluation of Residential Lighting Sales Associates Programs	Initial and follow-up surveys and analysis	Perform a market assessment and determine if there has been an increase in the number of lighting sales associates who are knowledgeable and aware of energy-efficient lighting products, and the methods to convey information to customers	SDG&E	Rob Rubin	\$ 25,000	Data Collection	05/01/2001
RESIDENTIAL	US121	Evaluation of Residential Appliances Program	Initial and follow-up surveys and analysis	Perform a market assessment and determine if there has been an increase in the floor stock of qualifying Energy Star appliances	SDG&E	Rob Rubin	\$ 25,000	Data Collection	05/01/2001
RESIDENTIAL	US122	Evaluation of Residential Refrigerator Program	Initial and follow-up surveys and analysis	Perform a market assessment and determine if there has been an increase in the floor stock of qualifying Energy Star 2001 DOE compliant refrigerators	SDG&E	Rob Rubin	\$ 25,000	Data Collection	05/01/2001

RESIDENTIAL	US123	Evaluation of Residential Appliance Sales Associates Program	Initial and follow-up surveys and analysis	Perform a market assessment and determine if there has been an increase in the number of appliance sales associates who are knowledgeable and aware of energy-efficient appliances	SDG&E	Rob Rubin	\$ 25,000	Data Collection	05/01/2001	
							Sub-Total PY2000	\$ 810,000		
							Total PY2000	\$ 1,060,000		

Count of Statewide Studies by Entity and Status - 1999, 2000, and 2001 Funding

Utility	Pre-RFP	RFP out	Project Initiation	Data Collection	Analysis	Draft Reporting	Final Reporting	Workshop	Completed	Cancelled	Total
CEC	1		2	3	1						7
PG&E		2		1	2		1		3		9
SCE	2	2		4	2	2			1	1	14
SDG&E				1							1
SoCalGas											0
Total	3	4	2	9	5	2	1	0	4	1	31

Count of Utility Specific Studies by Utility and Status - 1999 & 2000 Funding

Utility	Pre-RFP	RFP out	Project Initiation	Data Collection	Analysis	Draft Reporting	Final Reporting	Workshop	Completed	Cancelled	Total
PG&E											0
SCE*	3			4	1				1		9
SDG&E				12	3					1	16
SoCalGas	1			2					2	2	7
Total	4	0	0	18	4	0	0	0	3	3	32

*There are two studies currently in a hiatus between phases that are not shown in this table.

2000 - 2001 Statewide Projects - Rev. 1/22/01
*Types of Evaluations within the Ongoing Statewide Projects**

Study Area	Baseline	Compliance	Impact	Market Assessment and/or Characterization	Market Effects	Market Tracking	Other Type of Project	Planning and Scoping	Process	Open
2001 Summer Initiative	1		1	1						
Project is cross cutting of current areas	1			2			3			
RESIDENTIAL										
Residential Retrofit, Renovation, and HVAC				1					1	
Residential Lighting and Appliance					1					
Residential Market Share Tracking	1					1				
NONRESIDENTIAL										
Large Nonresidential Retrofit and Turnover			3	3					3	
Small Nonresidential Retrofit and Turnover	1			1					1	

Nonresidential Remodeling and Renovation				3				1		
Nonresidential Market Share Tracking						1				
Industrial	1			1		1				
NEW CONSTRUCTION										
Nonresidential New Construction			1	1		1		1	1	
Residential New Construction	1	1		2						
Industrial/Agricultural New Construction										
Codes and Standards Support and Local Government Initiatives										
All Areas	6	1	5	15	1	4	3	2	6	0

*One project can be put into more than one evaluation type, therefore the numbers shown here are greater than the actual number of evaluations.

Project Type	MA&E Study Area	Project Number
Baseline	IND	SW021
	RMST	SW031
	RNC	SW028
	SI	SW049
	SNR	SW039
	XCUT	SW044
Compliance	RNC	SW028
Impact	LNR	SW022
	LNR	SW026
	LNR	SW027
	NRNC	SW016
	SI	SW049
Market Assessment and/or Characterization	IND	SW021
	LNR	SW023
	LNR	SW024
	LNR	SW025
	NRNC	SW015
	NRRR	SW012
	NRRR	SW013
	NRRR	SW014
	RNC	SW028

Project Type	MA&E Study Area	Project Number
Market Tracking	IND	SW021
	NRMST	SW020
	NRNC	SW015
	RMST	SW031
Other Type of Project	XCUT	SW040
	XCUT	SW046
	XCUT	SW047
Planning and Scoping	NRNC	SW018
	NRRR	SW012
Process	LNR	SW022
	LNR	SW026
	LNR	SW027
	NRNC	SW016
	RRR	SW033
	SNR	SW039

	RNC	SW029
	RRR	SW032
	SI	SW049
	SNR	SW039
	XCUT	SW044
	XCUT	SW48
Market Effects	RLA	SW010

Study Area	Project ID	Project Name	2001				2002				
			Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
PG&E - PY 1999											
NEW CONSTRUCTION	SW007	MA&E Efforts in Support of Residential New Construction Programs - 1999	◆ 8/4								
NEW CONSTRUCTION	SW011	MA&E Study in Support of Codes & Standards	◆ 8/31								
NONRESIDENTIAL	SW035	1999 Small/Medium Nonresidential Evaluation	◆ 12/31								
NONRESIDENTIAL	SW040	Development of new method for forecasting and estimation of benefits from market effects	◆ 1/31								
PG&E - PY 2000											
NEW CONSTRUCTION	SW028	Investigate Builder Compliance to Title 24	◆ 4/15								
NEW CONSTRUCTION	SW029	Market Effects Tracking of Residential New Construction	◆ 8/1								
NONRESIDENTIAL	SW021	Statewide Industrial Sector Study	◆ 4/1								
NONRESIDENTIAL	SW039	Studies of Small/Medium Nonresidential Program Elements	◆ 9/30								
PG&E - PY 2001			◆ 12/31								
RESIDENTIAL	SW049	Summer Initiative Pool Pump Program Evaluation	◆ 12/31								
SCE - PY 1999											
GENERAL PURPOSE	SW030	Market Share Tracking (1999)	◆ 10/30								
NONRESIDENTIAL	SW022	PY 1999 Large Nonresidential Standard Performance Contracting (LNRSPC)	◆ 1/12								

Study Area	Project ID	Project Name	2001				2002											
			Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3							
SCE - PY 2000																		
GENERAL PURPOSE	SW031	Market Share Tracking (2000)																
NEW CONSTRUCTION	SW015	NRNCMarket Characteristics & Program Activities Tracking																
NEW CONSTRUCTION	SW016	NRNCBuilding Efficiency and Program Process Assessment																
NEW CONSTRUCTION	SW018	NR Codes & Standards																
NONRESIDENTIAL	SW023	Market Research on Large Nonresidential Customer Wants and Needs																
NONRESIDENTIAL	SW024	Market Research on the Decision to Become an Energy Efficiency Service Provider (EESP)																
NONRESIDENTIAL	SW025	Success Stories of Business to Business Services																
NONRESIDENTIAL	SW026	Evaluation of PY2000Nonresidential SPC Program																
NONRESIDENTIAL	SW027	Evaluation of PY2000C/I Energy Efficiency Information Program																
NONRESIDENTIAL	US113	Nonresidential HVACDiagnostic Contractor Survey																
NONRESIDENTIAL	US115	SmallCommercialDo-It-Yourself Energy Survey Study																
NONRESIDENTIAL	US116	Evaluation of SCE's Emerging Technology Showcase Program																
NONRESIDENTIAL	US117	Evaluation of SCE's Technology Applications Centers (CTAC & AgTAC)																
RESIDENTIAL	SW032	Statewide Study of Customer Remodeling Decisions																
RESIDENTIAL	SW033	Process Evaluation of PY2000Residential Contracting Program (RCP)																
RESIDENTIAL	US110	Residential Refrigeration Performance Milestone																
RESIDENTIAL	US111	Residential Window Performance Milestone																
RESIDENTIAL	US112	Residential Energy Efficient Window Awareness Study																
RESIDENTIAL	US114	New Home Energy Efficiency Milestone Report																
RESIDENTIAL	US118	Marketing Training for Residential New Construction Sales Agents																

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Study Area	Project ID	Project Name	2001				2002			
			Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
SCE - PY 2001			◆ 4/27							
RESIDENTIAL	SW048	Statewide Residential Needs Study	◆ 4/27							
SCG - PY 2000			▾							
GENERAL PURPOSE	US101	Third Party Local Government Initiatives Evaluation	◆ 5/1							
NONRESIDENTIAL	US095	Advanced Water Heating Systems	◆ 12/31							
NONRESIDENTIAL	US096	Advanced Water Heaters and Space Heat Boilers	◆ 12/31							
NONRESIDENTIAL	US097	Catalytic Infrared Heater Study	◆ 6/30							
RESIDENTIAL	US100	Residential Upstream Water Heater Market Effects Study	◆ 5/1							
SDG&E - PY 2000			▾							
NEW CONSTRUCTION	US106	Market Assessment Study for Commercial New Construction Program - Awareness	◆ 5/1							
NONRESIDENTIAL	US102	Evaluation of Large Nonresidential Comprehensive Retrofit Program - Seminar	◆ 5/1							
NONRESIDENTIAL	US103	Evaluation of Small Nonresidential Comprehensive Retrofit Program - High Efficient Clothes Washer	◆ 5/1							
NONRESIDENTIAL	US104	Evaluation of Nonresidential HVAC Turnover Program	◆ 5/1							
NONRESIDENTIAL	US105	Evaluation of Nonresidential Motor Turnover Program	◆ 5/1							
RESIDENTIAL	SW010	Implementation of Phase 3 of the Round II Statewide Lighting & Appliance Study	◆ 5/1							
RESIDENTIAL	US090	Energy Efficient Mortgages	◆ 5/1							
RESIDENTIAL	US091	Multi-family Property Owners Performance Contracting	◆ 5/1							
RESIDENTIAL	US092	RCPC Contractor Training	◆ 5/1							
RESIDENTIAL	US093	HVAC Contractor Training	◆ 5/1							
RESIDENTIAL	US094	Residential Cross-Cutting	◆ 5/1							
RESIDENTIAL	US119	Residential Lighting Fixture Manufacturers Program	◆ 5/1							

Study Area	Project ID	Project Name	2001				2002				200		
			Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1		
RESIDENTIAL	US120	Residential Lighting Fixture Sales Associates Program	◆ 5/1										
RESIDENTIAL	US121	Residential Appliances Program	◆ 5/1										
RESIDENTIAL	US122	Residential Refrigerator Program	◆ 5/1										
RESIDENTIAL	US123	Residential Appliance Sales Associates Program	◆ 5/1										
CEC - PY 1999													
GENERAL PURPOSE	SW020	Nonresidential Market Share Tracking	◆ 6/12										
GENERAL PURPOSE	SW046	DEER Update	◆ 8/1										
CEC - PY 2000													
NONRESIDENTIAL	SW012	Literature Review of Existing Research	◆ 3/30										
NONRESIDENTIAL	SW013	Nonresidential Remodeling and Renovation Study	◆ 7/1										
GENERAL PURPOSE	SW044	California CEUS											
RESIDENTIAL	SW047	Residential Appliance Saturation Survey											
CEC - PY 2001			◆ 12										
NONRESIDENTIAL	SW014	Phase Two Nonresidential Remodeling and Renovation Study	◆ 12/										

Two dates for the CEC do not show up due to restrictions in software:

SW044 has an estimated completion date of 9/15/03

SW047 has an estimated completion date of 12/31/02

COMPLIANCE ISSUES

Summary

Decision 00-07-017 and subsequent Commission rulings set forth a number of compliance issues that SCE is required to address as part of the quarterly reporting of energy efficiency activities. The following section addresses each of the Commission directives in which SCE is directed to respond.

Decision 00-07-017 - Quarterly Reporting Requirements

Ordering Paragraph 21:

For the RCP, the utilities shall establish a structured, periodic public process, such as workshops, meetings, and focus groups, to receive input and feedback from interested stakeholders, including third party providers and customers, a minimum of twice annually in each service territory. At least one public workshop shall be held in each service territory prior to filing the PY 2001 applications. They shall publicize and distribute proposed program changes prior to the information meetings, distribute adopted program changes to meeting participants and other interested stakeholders as they are made, and report on the process and results of the public forums in the Quarterly Reports. The public input sessions should be widely publicized.

Response:

In response to Ordering Paragraph 21, prior to filing 2001 applications, two public utility sponsored workshops were convened and held on October 4, and October 24, 2000. In 2001, at least two input/feedback sessions (meetings, workshops and/or focus groups) will be held (date/event dependent) with third party providers, interested stakeholders, contractors and customers.

A complete workshop report entitled Joint Utility-Sponsored (Southern California Edison/Southern California Gas Co.) Residential Energy Efficiency Public Workshop, October 4, 2000, Final Report (Ordering Paragraphs 17, 18, 21, 35, 89), was developed and published on October 16, 2000. A second workshop report Southern California Edison 2001 Energy Efficiency Program Plans Public Workshop, October 24, 2000, was developed and published on October 31, 2000.

Ordering Paragraph 29:

The utilities shall report on the statewide lighting and appliance programs in each of the Quarterly Reports and, beginning in PY 2001, shall endeavor, if feasible, to have the third party statewide contractor process rebates for Edison and SoCalGas.

Response:

SCE report on the statewide lighting and appliance program activities is presented in the statewide section of this report.

Ordering Paragraph 33:

PG&E and Edison shall continue their school-based education programs for PY 2001 and SDG&E and SoCalGas shall conduct pilot tests of these school-based programs in their service territories for PY 2001. The utilities shall monitor the effectiveness of the programs and the changes in awareness and behaviors attributable to the programs and report the results in the Quarterly Reports and in an evaluation report to be submitted to the Energy Division by December 1, 2001. The utilities shall explore the feasibility of a future statewide school-based education strategy using PG&E's and Edison's programs as models.

Response:

In response to Ordering Paragraph 33, SCE provides the following summary of activity associated with the school-based program offerings:

- SCE is currently offering both of its school-based education programs, Green Schools and LivingWise for 2000.
- Green Schools trained teachers, maintenance personnel and administrators from three school districts (k-12), as well as representatives from a Regional Occupational Program (ROP), which supports 19 school districts. Additionally, training took place for several high school students to become energy auditors at their school sites. Historically, students from the ROP build a home each year to learn construction trades. The home is then sold by a local city for profit. This year, for the first time because of SCE's Green Schools' involvement, the students will build an energy-efficient home.
- On February 9, 2000, Energy Efficiency awarded a third-party initiative to the National Energy Foundation to implement the LivingWise® Program delivered through 6,000 kids in 6th grade school classes. The Program features a blend of classroom learning activities and hands-on audit information and energy efficiency installation projects that students complete in their homes with parental assistance.

All 6,000 energy conservation kits were delivered in the 3rd and 4th quarter to 75 different schools in SCE's service territory with over 85% going to schools in rural areas. Through this program, SCE promoted other energy efficiency programs as well, such as the Refrigerator Recycling Program, low-income programs, and the Statewide Energy Guide. Additionally, a unique aspect of this program included high school students participating in the Green Schools program who administered the LivingWise® program to elementary students. This program has been well received by all participating in the program.

Measurement and Evaluation has begun evaluating the LivingWise® program and expects to complete its evaluation in Summer 2001. The Schools participating include: all rural districts, Rosemead, Long Beach, Sonrise Christian, and Hacienda/La Puente.

On February 4, 2000, SCE awarded a third-party initiative to the Alliance to Save Energy to implement a Green Schools program to local schools and communities within SCE's service territory.

Green Schools program is two-fold: to reduce energy costs in schools, and to educate students and their families about energy and the link between efficiency, the environment, and finances. It is a comprehensive and long-term approach to school efficiency, bringing together the facilities, instructional and administrative staff in a cooperative effort to improve education, using energy as a tool.

School districts participating in this pilot program are: Charter Oak, and Hacienda/La Puente, and Bassett. In addition, the East San Gabriel Valley Regional Occupational Program (ROP), supporting 17 high schools, will also participate. Implementation of the program began in Fall, 2000. Training sessions for teachers, facility managers, and other appropriate personnel took place in July and October.

An aspect of the program includes "STEM" training where students learned how to conduct energy audits of their schools. Eight to twenty-five students in each high school and ROP received this training, audited their schools for energy savings, produced a report of recommendations, and will present their findings to their respective school boards.

The ROP involvement is unique in that it:

- helps at-risk students through the ROP program;
 - promotes energy efficiency in schools and homes through trained and motivated students; and
 - involves students building an energy-efficient home with support from city and business partners.
-
- PEAK is a curriculum designed to teach students electrical energy efficiency strategies that can be used in homes and schools. Students learn practical math and science principles behind electricity then, through computer simulation, create and measure energy efficiency actions. Lessons also focus on the importance of saving energy during peak demand periods. An integral part of this program involves a "shared savings" component where students implement energy efficiency at home and parents agree to share any savings associated with bill reductions resulting from their actions. Software has been developed, and students in a public and private school district are currently testing the program and its curriculum.

Ordering Paragraph 37:

In the residential area, the utilities shall offer targeted solicitations to increase provision of energy efficiency services to under-served communities and customer groups already known or identified and include new targeted efforts in the PY 2001 applications, fully explaining the nature of the solicitations and rationale for choosing these efforts. Progress should be reported in the Quarterly Reports.

Response:

For 2001, SCE plans to offer targeted solicitations to hard to reach customers under each for the four program areas. Under the HVAC program, communications will be targeted to rural and non-English speaking customers; technologies will be targeted to moderate income and mobile home customer groups; and the rural, all-electric market will be targeted through AC distributor incentives. SCE will widely promote Residential Audits to increase participation from moderate-income customers and local governments. The Residential Energy Efficiency Procurement Program will target multifamily and landlords for volume purchasing of energy-efficient lighting and appliances. Mass Market Information will distribute Spanish and Chinese energy guides statewide and will print an additional language (Korean) for 2001. Residential Lighting will target rural customers and rural distribution channels. Also, Residential Lighting and Appliances will implement educational and outreach activities in non-English languages to increase purchases of Energy Star® qualified products. Refrigerator Recycling will develop a mechanism to offer incentives to multifamily owners and landlords to increase program participation. The Energy Efficiency Line continues to provide Spanish language translation services. SCE plans to report the progress of these types of programs directed at the under-served residential market in the 2001 Quarterly Reports.

Ordering Paragraph 42:

The utilities shall continue efforts to design and implement program elements and intervention strategies to better serve the needs of smaller (small and medium) nonresidential customers and include a special progress report on these efforts as part of their PY 2000 and PY 2001 Quarterly Reports.

Response:

The following activities are a result of SCE targeting the smaller nonresidential customer group:

- Made 47 presentations to trade and ethnic associations and 352 individual customer contacts for technical support of energy efficiency.
- Express Efficiency advertisements and program materials available in English, Spanish, Korean, and Chinese, and African American focus newspapers.
- Promoted Express Efficiency and Enhanced Express Efficiency. Total contacts with 154 vendors.
- Direct Mail program information to 200,000 small business (less than 600,000 kWh annual usage and less than 4 accounts) customers and 170,000 customers with annual usage greater than 600,000 but less than 500 kW.

- Held program promotional give-away to encourage implementation of recommendations made in Small Business Energy Use Survey. Received response from approximately 25% of program participants solicited.

Ordering Paragraph 50:

The utilities shall report funds spent and committed in the Quarterly Reports. The reports shall break out spent and committed funds and shall be provided by the fourteen programs as well as by strategy. The PY 2001 program applications shall show three years of comparison data.

Response:

See 2000 year-to-date budget and expenditure tables within this report. The tables provide spent and committed funds by the fourteen programs as well as by strategy for the first three quarters of 2000.

Ordering Paragraph 61:

The utilities shall convene a public process to obtain input into program structure, design, and implementation of both the Large and Small SPC programs, and proposed revisions to the programs, a minimum of twice a year in each service territory. The utilities shall conduct at least one such session prior to filing the PY 2001 applications, focusing on the issues raised by interested stakeholders to date, including the application process, paperwork, and M&V requirements, and considering the modification of corporate parent caps in accordance with our prior direction. The utilities shall report on these sessions, including the process used, the agreements reached, and the remaining areas of disagreement in the Quarterly Reports and in the PY 2001 program application.

Response:

As directed by Ordering Paragraph 61, on October 5, 2000, the utilities convened a public process (public workshop) with interested stakeholders to obtain input into program structure, design, and implementation of both the Large and Small SPC programs, and proposed revisions to the program, a minimum of twice a year in each service territory. The results of the first workshop are contained in the Joint Utility Sponsored (Southern California Edison/Southern California Gas Co.) Nonresidential Energy Efficiency Public Workshop, October 5, 2000 Final Report (Ordering Paragraphs 46, 61, 65, 89), October 16, 2000. The utilities propose the following changes to improve the Large and Small SPC programs. Generally, these changes focus on streamlining the application process, reducing paperwork and M&V requirements, and modification to corporate parent caps. Potential SPC program changes under consideration are summarized below:

- Combine both the large and Small SPC programs into one SPC program having less complex administrative requirements.
- Where estimated energy savings incentives are less than or equal to \$100k, offer to all customer classes, a simplified M&V approach using calculated savings for lighting, packaged HVAC, small boilers and VSD's measures.

- Employ a simple 1-2 page energy savings performance contract for projects saving estimated energy savings incentives less than or equal to \$100k and where the M&V calculated savings approach is pursued.
- Shorten M&V period to 12 months after project installation, except those measures where calculated savings are used. For projects employing calculated savings, M&V period will be reduced to 6 months following project installation.
 - Offer assistance with planning (estimated baseline information though post measurement) for all program participants with estimated energy savings incentives less than \$50k.
 - Simplify SPC Agreements and reduce paperwork (Goal: reduce present 18 page Agreement to approximately 5 pages where incentives are \$100k or more, and approximately 2 pages where incentives are less than \$100k); Continue Summer Initiative (“SI”) kW bonus through the end of 2001.
 - Offer load management financial incentives where energy savings can be demonstrated. Revise downward kWh incentive levels for projects employing calculated savings (by 15-20%).
 - Offer participation incentives to program participants doing multiple measures.
 - Offer bonus for multi-year participants to keep interest in saving energy through performance contracting.
 - Offer special financial incentives for emerging technology with proven track record for achieving sustainable energy savings. Utilities should define what is not an emerging technology.
 - Provide information regarding public and private third party financing sources for projects done under SPC.
 - Allow Small Business to “self-sponsor” their own projects under SPC.

Ordering Paragraph 64:

The utilities shall 1) rename the program from Commercial Remodeling and Renovation to Nonresidential Remodeling and Renovation to clarify that the program is not limited solely to commercial buildings; 2) jointly develop, and use in their Quarterly Reports, a common definition for Nonresidential Remodeling and Renovation activities—including, at a minimum, remodeling, renovation, rehabilitation, and tenant change, assess the magnitude of these activities, and monitor them; 3) monitor the effectiveness of the programs, in a coordinated fashion with other nonresidential new construction and retrofit activities, and modify program elements and intervention strategies, as needed, to ensure gaps do not emerge as a result of program eligibility criteria that do not allow projects to participate, which are neither new construction nor retrofit. The program shall ensure that remodeling and renovation includes all time-dependent remodeling and renovation activities, not solely those that trigger compliance with the State’s Title 24 building codes, or that consist of a two-system change out as Edison proposes.

Response:

SCE administers the Nonresidential Remodeling and Renovation terminology as directed by this OP. On October 2, 2000, utilities submitted a compliance filing on the Nonresidential Remodeling and Renovation program after providing draft text of the report to the service list for comments. The 2000 strategies for Remodeling and Renovation address all time-dependent remodeling and renovation activities including: activities such as facility renovation, remodeling, alteration, rehabilitation, modernization, broad-scope and first-time tenant improvement, tenant and system change and equipment replacement. Because the preceding phrases have specific meaning to some stakeholders and are used interchangeably by others, this definition is intended to include the broadest range of construction activities and customer classes within the program area. The appropriate intervention strategy will be determined by: 1) the motivation for the project; 2) the project implementer; and 3) the applicability and method of energy code compliance inclusive of those occupancies and processes which do not trigger Title 24. All nonresidential time-dependent remodeling and renovation activities are eligible to participate in this program via the appropriate intervention strategy.

Ordering Paragraph 66:

For nonresidential programs, the utilities shall continue to consider program offerings and increased funding for activities that benefit under-served markets and market segments. For PY 2001, the utilities, together with interested stakeholders, shall 1) develop common working definitions specifically for market segments consisting of smaller nonresidential customers and under-served market events such as remodeling and renovation; 2) assess the size and characteristics of those market segments, including remodeling, renovation, rehabilitation, and tenant change markets; 3) begin monitoring the availability and delivery of program services and participation using these definitions and report the results in the PY 2001 applications; and 4) offer new targeted solicitations to increase provision of energy efficiency services to under-served markets and market segments already known or identified and include new targeted efforts, fully explaining the nature of the solicitations and rationale for choosing these efforts, and reporting progress in the Quarterly Reports. The results of the needs assessment and monitoring shall be reported in the PY 2001 applications.

Response:

For 2001, the utilities have conferred about developing a common operational definition of the under-served market segments required by the October 25 ALJ ruling. Since the data required for most of these individual classes is not available in the customer billing and program files of the utilities, it was necessary to deduce the ALJ's intent and to find proxy variables that could represent that intent as best as possible. This was made somewhat easier by the fact that there is substantial overlap among several of the classes listed in the ALJ definition. Tracking each of these classes separately (had data been available) would have involved double or triple counting of many customers. The utilities do not have data on number of employees of their customers, whether the customer owns or rents their space, whether the customer location is part of a strip mall.

Guesswork would have been involved in identifying “mom and pop” stores or convenience stores by SIC code.

The three-class definition the utilities have developed is as follows:

- customers with maximum electricity demand of 20 kW or less;
- customers with three or fewer accounts;
- customers in the rural zip codes defined for the residential sector.

Businesses with fewer than 10 employees, business in strip malls, “mom and pop” stores and convenience stores are all likely to fall within the 20 kW electricity demand group. Tenants are likeliest to fall in that group or secondarily in the group with three or fewer accounts. The three-account group is primarily intended to represent the single-location or small local chain customers. The rural zip codes capture the rural customers. Fundamentally, the hard-to-reach groups are being defined as low-usage customers, single or few-site customers, and rural customers.

SCE will plan to monitor 2001 program participation by these same groups.

For 2001, SCE has developed a new pilot program specifically aimed at leased facilities and renovation/remodeling events. The program is fully responsive to this Ordering Paragraph.

Funding for renovation/remodeling activity has been increased. In addition, SCE is proposing new outreach activities in 2001 to enhance customer knowledge of and access to its programs. SCE will work with local government officials and local organizations, including local Chambers of Commerce and a variety of other small business-related associations. SCE will provide information about energy efficiency programs at association meetings and in association publications. They will brief local government officials who work with local businesses to provide referrals to SCE programs. Some of these officials may have particularly good access to customers beginning renovation and remodeling projects. SCE’s will place a particular emphasis on work with ethnic and language-based business associations. SCE will provide a status on these 2001 activities in the 2001 quarterly reports.

Ordering Paragraph 68:

Within 30 days after the effective date of this decision, the utilities shall jointly submit a report to the Energy Division setting forth a coordinated plan for 1) notice of availability; and 2) distribution of the Residential and Business Energy Guides. The plan shall include both a statewide component for publicizing the availability of the Energy Guides, in English, Spanish, and Chinese, and local components for publicizing the availability of the Guides in all three languages and for distributing the Guides. The local component shall include plans for working with Community Based Organizations (CBOs) in publicizing and distributing the Guides and for distributing the Guides through home improvement stores and other appropriate distribution points. The utilities’ plan shall provide for implementation as soon as the program is approved. The

utilities shall include both descriptions of actions taken to publicize and distribute the Guides and the results of its actions in the Quarterly Reports.

Response:

Pacific Gas and Electric Company, Southern California Edison, Southern California Gas, and San Diego Gas & Electric Company have continued working together on the Statewide Energy Guide Team to distribute the Residential and Business Energy Guides to residential and business customers through a variety of delivery channels. The purpose of the two Energy Guides is to provide statewide consistency in energy efficiency information and awareness of appliances/equipment, measures, practices and resources to each utility's residential and small to medium business customers.

Both Energy Guides are now available in Spanish and Chinese, and are being provided to residential and business customers. The Team is also working on the selection of a fourth language into which both Energy Guides may be translated for our hard-to-reach customers. The target markets for the Statewide Residential Energy Guide are all residential customers. Delivery channels included: phone centers, home/trade shows and fairs, energy centers, other energy efficiency program activities, Residential Contractor Program, and community-based organizations. Additional effort will be made to include the Residential Guide in vendor locations participating in the Statewide Lighting and Appliance Program. Store policies may govern whether such information would be allowed in their locations for distribution.

The target markets for the Business Energy Guide are: commercial businesses, business trade/vendor shows, Small Business Associations, Chamber of Commerce, building permit and government offices, and business on-site surveys conducted by utility representatives. A direct mailing to new businesses was also conducted.

Update/Current Activities/Market Progress

Residential Energy Guides distributed during the 4th Quarter: 2,540 English; 2000 Chinese; and 4,300 Spanish. Total for the year is: 4,199 English; 2,002 Chinese; and 4,520 Spanish. For the small nonresidential customer, SCE distributed a total of 6,093 copies (1,577 English, 4,515 Chinese, and 1 Spanish) of Business Energy Guide.

Ordering Paragraph 70:

The utilities shall continue coordination of the energy centers for PY 2000 and PY 2001, with particular emphasis on eliminating duplication. For PY 2001, the utilities shall prepare a plan for the accelerated commercialization of all products (especially software and design tools) developed at or through the centers and to distribute these products in a timely manner. Edison and SoCalGas shall take all reasonable efforts to ensure fuel-and-administrator-neutrality in the messages conveyed by the centers, and, for PY 2001, shall explore joint operation of their energy centers or conducting activities jointly at all centers. Edison and SoCalGas shall report on their efforts in the PY 2001 applications. The utilities shall report on the activities undertaken to coordinate the Energy Centers in the Quarterly Reports, specifically identifying actions taken to implement the directions

set forth herein. For PY 2001, the utilities shall consider REECH's proposal for placing in home improvement centers and hardware stores, and in the PY 2001 applications, report the reasons such activities have or have not been implemented.

Response:

A description of coordination activities are detailed in the energy centers program results within this report. In summary, three of the state's investor owned utilities, SCE, PG&E, and SoCalGas, operate energy centers. Throughout 2000, the centers have worked jointly to achieve key objectives.

The energy centers continue to be unified by the common goal of educating their customers about energy-efficient business solutions, and to share many operational and philosophical similarities. The collaboration centers around two areas: (1) seminar/program coordination, and (2) a web based energy efficiency library.

- **Seminar/Program Coordination:** SCE completed all three of its proposed seminars.
- **Web-Based Energy Efficiency Library:** SCE introduced the web site "energyefficiencycenter.com," on April 17, 2000.

Ordering Paragraph 71:

PG&E, Edison, and SDG&E shall take action to develop general and targeted TPI solicitations for the remainder of PY 2000, and, if appropriate, pursue additional solicitations. The utilities shall report on the actions taken in their Fourth Quarter Reports. For PY 2001, the utilities shall propose increased budgets, identifying proposed solicitations and budgets, an implementation plan, and timeline. The applications shall also demonstrate a plan for publicizing targeted and general solicitations for PY 2001 start.

Response:

In 2000, SCE was soon after directed to issue a Request for Proposals for new energy efficiency projects with a focus on Summer 2001 peak load reduction, to be initiated in 2000. SCE has now awarded \$1.7 million to four bidders, and work on these projects has begun. A summary of this solicitation is presented in the Summer Initiative section within this report.

Ordering Paragraph 75:

For the rest of PY 2000 and for PY 2001, the utilities shall monitor their TPI solicitations and report in the Quarterly Reports any experience they have with the reluctance of third parties to participate in the TPI program because of our treatment of intellectual property.

Response:

SCE has not experienced any reluctance from third parties to the participator of the TPI solicitation process due to the treatment of intellectual properties.

Ordering Paragraph 88:

The utilities shall jointly with interested stakeholders develop a schedule for a regular public input process, including workshops, meetings, and focus groups, and to do so in a manner that ensures timely input before decisions are made and feedback after decisions are finalized. The utilities shall report on the process and the results of the workshops, meetings, and focus groups in the Quarterly Reports. The Energy Division shall work with the utilities and interested stakeholders to develop a process for coordinating utility-sponsored sessions with Commission-sponsored workshops and for quickly reviewing and approving program revisions agreed upon in utility-sponsored sessions.

Response:

Consistent with the consensus arrived at during a December 1, 2000 workshop, SCE working with the other utilities and the Commission's Energy Division will follow the program meeting schedule issued below:

- There will be three meetings held during 2001. The first will occur on April 1, 2001 and will summarize the results from the previous year. The second will occur June 1, 2001 and will cover the 1st quarter results. The third meeting will occur September 1, 2001 and cover the results of the 2nd quarter.
- The meetings will be joint meetings covering all utility results.
- The Energy Division will coordinate with the utilities on the agenda for these meetings.
- The meetings will alternate between Northern and Southern California.

There will also be a series of parallel program planning meetings and events that are not represented in the abovementioned schedule.

Ordering Paragraph 91:

The utilities shall file Quarterly Program and Expenditure Reports with the Energy Division and serve the Reports on the service list for this proceeding. The Reports shall be filed as soon as possible but no later than six (6) weeks after the close of each quarter and shall contain:

- a. The information and data provided for PY 1999;*
- b. Participation activity, budgets, and expenditures, including commitments, for 1) the 14 programs and all elements and strategies thereunder; 2) all statewide programs, broken down by the 14 programs and all elements and strategies thereunder; and 3) all cross-cutting measures broken down by the 14 programs and all elements and strategies thereunder;*
- c. Expenditures shall be itemized, at minimum, to show what the money was spent on, e.g., vouchers redeemed, workshops and training, promotional activities;*
- d. Tables shall be provided showing expenditures by customer class code, as described earlier;*
- e. A status update on all programs, program activities, program elements, and statewide MA&E studies, an update on statewide coordination activities, an*

update on market progress, and an update on all actions the utilities have been directed to take in this decision; and
f. Joint summary tables showing the requested data for the statewide programs.

The utilities shall meet and confer prior to filing the Quarterly Reports and shall adopt a common format. After receipt of the Quarterly Reports, the Energy Division shall develop and conduct a public process for review of the Reports.

Response:

After discussion with each other and the Energy Division on the content and format of the Quarterly Report and compliance with Ordering Paragraph 91, SCE submits this 4th Quarter Report on the 2000 energy efficiency programs.

**ADMINISTRATIVE LAW JUDGE'S RULING GIVING DIRECTION FOR
PROGRAM YEAR 2001 PLANNING**

Dated: October 25, 2000

Direction: Applicable to only the 2001 energy efficiency compliance application filed November 15, 2000 and the 3rd quarter report submitted to the Commission on December 1, 2000.

RULING ON COST EFFECTIVENESS ISSUES FOR PY 2001 PROGRAMS

Dated: October 25, 2000

Direction (pp.22-23):

The utilities should perform the saturation analysis as new data is obtained and, for all measures, at least annually, which should be reflected in the applicable Quarterly Reports and the Annual Report. The utilities should update the saturation data in each quarterly report and the Annual Report.

Response:

SCE filed its saturation analysis in SCE's 2001 energy efficiency program application (A.00-11-043). No new data was obtained during the fourth quarter.

**ASSIGNED COMMISSIONERS' RULING ON IMPLEMENTATION OF PUBLIC
UTILITIES CODE SECTION 399.15(b)**

Dated: October 17, 2000

Direction: None

***ADMINISTRATIVE LAW JUDGE'S RULING ON SUMMER 2000 ENERGY
EFFICIENCY INITIATIVE ISSUES RELATED TO IMPLEMENTATION OF THE
HARD TO REACH PROGRAM***

Dated: October 12, 2000

Direction: None

RULING ON SOCALGAS' AND EDISON'S REQUESTS TO SHIFT FUNDS

Dated: September 29, 2000

Direction: Applicable to only the 2001 annual energy efficiency report to be filed May 1, 2001 and the 3rd quarter report submitted to the Commission on December 1, 2000.

***RULING ON SUMMER 2000 ENERGY EFFICIENCY INITIATIVE ISSUES
RELATED TO THIRD-PARTY PROGRAM IMPLEMENTATION***

Dated: September 22, 2000

Direction: None.

ADMINISTRATIVE LAW JUDGE'S RULING CONCERNING COST-EFFECTIVENESS INPUTS FOR PROGRAM YEAR 2001 PLANNING

Dated: September 14, 2000

Direction: None.

RULING ON SUMMER 2000 ENERGY EFFICIENCY INITIATIVE

Dated: September 7, 2000

Direction (p.7):

Op 4 - Administrative costs incurred by the utilities, if any, shall come from program funds outside the \$67 million reserved for the Summer Initiative. The utilities shall separately track the administrative costs incurred for each and every Summer Initiative Program and report on those costs in all reports to the Commission, including quarterly progress reports and the annual reports. The reports shall provide a detailed breakdown of costs incurred.

Response:

SCE's administrative costs incurred in support of the Summer Initiative is detailed in the Program Results section within this report.

**RULING OF ASSIGNED COMMISSIONERS AND ADMINISTRATIVE LAW
JUDGE ON SUMMER 2000 ENERGY EFFICIENCY INITIATIVE**

Dated: August 21, 2000

Direction (p.7):

OP 13 - The utilities shall track and report on the progress of Summer Initiative programs in all reports to the Commission, including quarterly progress reports.

Response:

The progress of SCE's Summer Initiative is presented in the Summer Initiative section contained within this report.

**ADMINISTRATIVE LAW JUDGE'S RULING ON SCHEDULE AND PROCESS
FOR SUMMER 2000 ENERGY EFFICIENCY INITIATIVE**

Dated: July 28, 2000

Direction: None.

ADMINISTRATIVE LAW JUDGE'S RULING SCHEDULING WORKSHOP AND ORDERING THE FILING OF PRE-WORKSHOP STATEMENTS

Dated: July 11, 2000

Direction (Attachment A, p.3):

9. For the RCP, the utilities shall establish a structured, periodic public process, such as workshops, meetings, and focus groups, to receive input and feedback from interested stakeholders, including third party providers and customers, a minimum of twice annually in each service territory. At least one public workshop shall be held in each service territory prior to filing the PY 2001 applications. They shall publicize and distribute proposed program changes prior to the information meetings, distribute adopted program changes to meeting participants and other interested stakeholders as they are made, and report on the process and results of the public forums in the Quarterly Reports. The public input sessions should be widely publicized. (OP 21)

Response:

See SCE's Response to Ordering Paragraph 21 presented earlier in this section.

Direction (Attachment A, p.7):

21. The utilities shall convene a public process to obtain input into program structure, design, and implementation of both the Large and Small SPC programs, and proposed revisions to the programs, a minimum of twice a year in each service territory. The utilities shall conduct at least one such session prior to filing the PY 2001 applications, focusing on the issues raised by interested stakeholders to date, including the application process, paperwork, and M&V requirements, and considering the modification of corporate parent caps in accordance with our prior direction. The utilities shall report on these sessions, including the process used, the agreements reached, and the remaining areas of disagreement in the Quarterly Reports and in the PY 2001 program application. (OP 61)

Response:

See SCE's Response to Ordering Paragraph 61 presented earlier in this section.

Direction (Attachment A, pp.7-8):

22. The utilities shall 1) rename the program from Commercial Remodeling and Renovation to Nonresidential Remodeling and Renovation to clarify that the program is not limited solely to commercial buildings; 2) jointly develop, and use in their Quarterly Reports, a common definition for Nonresidential Remodeling and Renovation activities—including, at a minimum, remodeling, renovation, rehabilitation, and tenant change, assess the magnitude of these activities, and monitor them; 3) monitor the effectiveness of the programs, in a coordinated fashion with other nonresidential new construction and retrofit activities, and modify program elements and intervention strategies, as needed, to

ensure gaps do not emerge as a result of program eligibility criteria that do not allow projects to participate, which are neither new construction nor retrofit. The program shall ensure that remodeling and renovation includes all time-dependent remodeling and renovation activities, not solely those that trigger compliance with the State's Title 24 building codes, or that consist of a two-system change out as Edison proposes. (OP 64)

Response:

See SCE's Response to Ordering Paragraph 64 presented earlier in this section.

Direction:

OP 24 - For nonresidential programs, the utilities shall continue to consider program offerings and increased funding for activities that benefit under-served markets and market segments. For PY 2001, the utilities, together with interested stakeholders, shall 1) develop common working definitions specifically for market segments consisting of smaller nonresidential customers and under-served market events such as remodeling and renovation; 2) assess the size and characteristics of those market segments, including remodeling, renovation, rehabilitation, and tenant change markets; 3) begin monitoring the availability and delivery of program services and participation using these definitions and report the results in the PY 2001 applications; and 4) offer new targeted solicitations to increase provision of energy efficiency services to under-served markets and market segments already known or identified and include new targeted efforts, fully explaining the nature of the solicitations and rationale for choosing these efforts, and reporting progress in the Quarterly Reports. The results of the needs assessment and monitoring shall be reported in the PY 2001 applications. (OP 66)

Response:

See SCE's Response to Ordering Paragraph 66 presented earlier in this section.

Direction (Attachment A, p. 11):

30. The utilities shall jointly with interested stakeholders develop a schedule for a regular public input process, including workshops, meetings, and focus groups, and to do so in a manner that ensures timely input before decisions are made and feedback after decisions are finalized. The utilities shall report on the process and the results of the workshops, meetings, and focus groups in the Quarterly Reports. The Energy Division shall work with the utilities and interested stakeholders to develop a process for coordinating utility-sponsored sessions with Commission-sponsored workshops and for quickly reviewing and approving program revisions agreed upon in utility-sponsored sessions.(OP88)

Response:

See SCE's Response to Ordering Paragraph 88 presented earlier in this section.

Direction (Attachment A, pp.11-12):

32. The utilities shall file Quarterly Program and Expenditure Reports with the Energy Division and serve the Reports on the service list for this proceeding. The Reports shall

be filed as soon as possible but no later than six (6) weeks after the close of each quarter and shall contain:

- a. The information and data provided for PY 1999;*
- b. Participation activity, budgets, and expenditures, including commitments, for 1) the 14 programs and all elements and strategies thereunder; 2) all statewide programs, broken down by the 14 programs and all elements and strategies thereunder; and 3) all cross-cutting measures broken down by the 14 programs and all elements and strategies thereunder;*
- c. Expenditures shall be itemized, at minimum, to show what the money was spent on, e.g., vouchers redeemed, workshops and training, promotional activities;*
- d. Tables shall be provided showing expenditures by customer class code, as described earlier;*
- e. A status update on all programs, program activities, program elements, and statewide MA&E studies, an update on statewide coordination activities, an update on market progress, and an update on all actions the utilities have been directed to take in this decision; and*
- f. Joint summary tables showing the requested data for the statewide programs.*

The utilities shall meet and confer prior to filing the Quarterly Reports and shall adopt a common format. After receipt of the Quarterly Reports, the Energy Division shall develop and conduct a public process for review of the Reports. (OP 91)

Response:

See SCE's Response to Ordering Paragraph 91 presented earlier in this section.

SUMMER INITIATIVE

SCE provides updates below of those Summer 2000 Initiative programs that were authorized on a utility-specific basis, or where SCE was designated as the lead administrator.

Refrigerator Recycling Program - Appliance Recycling Centers of America (ARCA)

Program Element Summary

In the August 21, 2000 Ruling of Assigned Commissioners and Administrative Law Judge on Summer 2000 Energy Efficiency Initiative, the Commission directed SCE to contract with the Appliance Centers of America (ARCA) to implement a Residential Refrigerator Recycling Program in the service territories of SDG&E and PG&E. In this Ruling, the Commission directed SCE to administer the program for SDG&E and PG&E for purposes of streamlining administration and oversight since SCE already works with ARCA on SCE's existing program.

The Residential Refrigerator Recycling Program targets residential customers in SCE, SDG&E, and PG&E's service territories and provides a cash incentive to customers for recycling their old, inefficient refrigerators or freezers. ARCA picks up the old appliance from the customer's home at no charge and recycles it in an environmentally safe manner. The old appliances are taken to a staging area where they are later trucked to ARCA's recycling facility located in Compton, California.

Element Activity, Accomplishments, Market Progress and Modifications

During the 3rd Quarter, a contract was signed between ARCA and SCE to collect and recycle over 40,000 refrigerator/freezers from the three service territories from September 2000 through December 2001. In the 4th Quarter, a co-funding agreement to establish arrangements for the transfer of funds from SDG&E and PG&E to SCE for the Summer Initiative Statewide Recycling Program was created and signed by both SDG&E and PG&E. By December 31, 2000, the SI recycling program had been completed in SCE's service territory. In October 2000, advertising for the SI recycling program began in SDG&E's service territory. Advertising will begin in PG&E's service area starting in January 2001. It is expected that number of units will significantly increase soon thereafter. The following are the results of this SI as of December 31, 2000.

Progress through 4th Quarter

	Unit Goal	Actual Units	Pending Units	Total Units	% of Units	MWh	MW
SCE	8,813	8,813	0	8,813	100.0	14,039	2.4
SDG&E	12,812	1,849	189	2,038	16.0	3,246	0.6
PG&E	23,489	29	62	91	0.1	46	0.0
Totals	45,114	10,691	251	10,942	116	17,331	3.0

Pool Efficiency Program

Program Element Summary

The residential Pool Efficiency Program was “piloted” in the summer of 2000 by PG&E, SCE, and SDG&E, as a comprehensive swimming pool intervention strategy, designed as a rapid response to reduce demand and energy usage of residential pool pumps. The pool Efficiency program incorporates both pool pump efficiency and time-of-day controls for an integrated approach to pool electricity use.

The program was designed to offer residential pool owners, who are receiving service on a non-time-of-use tariff, financial incentives for the purchase and installation of high efficiency pool pumps and the re-set of pool pump timers to run during summer off-peak hours. The program also includes an informational element to help build consumer awareness of energy consumption with pools. Market objectives include:

- Reduction of peak demand by encouraging the operation of pool pumps during off peak hours.
- Reduction in electricity consumption by encouraging the replacement of pool pumps or motors with more energy-efficient units.
- Increase in the consumer awareness of swimming pool efficiencies through an educational campaign directed at end users of pools.

Activities, Accomplishment, Market Progress, & Modifications

In 2000, PG&E, SCE and SDG&E began development of a coordinated program implementation strategy that includes a pilot to test marketing approaches, common assumptions, and program design criteria. The three utilities worked together to develop qualification criteria for high efficiency pool pumps and appropriate incentive levels for pool pump replacements and off-peak operation.

SCE-specific results include the following:

- Established a link on SCE’s home page (www.sce.com) to promote the program
- Established a web-based sign-up for the timer and pump elements of the program.
 - As of December 31, 2000 there were 751 online sign-ups for the timer element and 187 online sign-ups for the pump/motor element of the program.
- Established an automated 24-hour phone hotline for the sign-up of both elements of the program.
 - As of December 31, 2000, there were 2,019 phone sign-ups for the timer element and 1,369 phone sign-ups for the pump/motor element of the program.
- Included a bill insert in the October billing cycle to promote the program.

As of December 31, 2000, customers have committed to reduce peak demand by 3.60 MW in 2001. The specific program results are provided below:

Elements	Unit Goal	Actual Units	Pending Units	Total Units	% of Goal
Pool Timer	40,000	0	2,019	2,019	5
Pool Pump	10,000	0	1,369	1,369	14
Totals	50,000	0	3,388	3,388	19

Third Party Initiative Program

Program Element Summary

SCE’s Summer Initiative third party initiative (SI TPI) is designed to solicit innovative strategies and technologies from the marketplace. The significant difference for this solicitation, compared to traditional TPI solicitations, is the focus on bidders to identify peak demand reductions rather than energy savings. For the SI TPI, bidders were asked to submit bids of no more than \$850,000, with the total award amount for all projects to be \$1,700,000. Selection criteria included:

cost-effectiveness;

- achieving peak demand reductions by June, 2001;
- innovative approaches and reaching under-served markets;
- feasibility of proposal and capability and experience of the project team.

Activities, Accomplishment, Market Progress, & Modifications:

Over 80 entities were notified directly by SCE of the opportunity to bid on this program, by e-mail or telephone, starting in late August. Those interested in receiving the Request for Proposals (RFP) were asked to reply with their full contact information. On September 11, 2000, the RFP was sent to all entities that had requested it up to that date. As additional entities requested the RFP, they also were sent a copy. In the end, 36 copies of the RFP were sent.

By the due date of September 29, 2000, 19 proposals had been received. Of these, 5 were oriented to the residential sector and 14 to the nonresidential sector. SCE informed vendors that winning bidders would be notified no later than October 20, 2000. SCE’s schedule met the requirements of the Administrative Law Judge’s “Ruling on Summer 2000 Energy Efficiency Initiative” of September 7, 2000.

The following are year-end results of the TPI solicitation:

- \$1,700,000 committed to various TPIs
- 3,479 MWh of energy savings and 2.30 peak demand reduction are forecasted from the selected TPIs
- 11 MWh of actual energy savings were realized during 2000

LED Traffic Signal Rebate Program

Program Element Summary

The LED Traffic Signal Rebate Program is a statewide program designed to encourage public agencies to replace incandescent traffic signals with efficient light emitting diode (LED) versions. The program provides incentives for the following LED traffic signals:

- Red ball and arrow
- Green ball and arrow
- Amber flashing beacon
- Pedestrian hand
- Pedestrian hand/person combination

The program is designed to achieve demand reductions by June 2001; therefore, incentives of up to 100 percent of the hardware cost (installation cost and sales tax are the responsibility of the participant) will be offered for signals installed by this time. For signals installed after June 2001, incentives are reduced by 50 percent. Incentives are provided for hardwired fixtures only (as available) and must meet the maximum power demand ratings set forth by the program requirements.

Activities, Accomplishment, Market Progress, & Modifications

The three utilities held a number of planning meetings to coordinate this statewide offering. During this planning phase, discussions were also held with various stakeholders including cities and vendors to solicit ideas on incentive pricing, product availability, etc.

Per the schedule set by the Commission, the program was developed and introduced on September 11, 2000. Customer reservation forms were available as of this date. The first reservation was received on September 21, 2000. Program brochures and application materials were being developed through September 30, 2000. As a result of SCE's aggressive outreach during September 2000, the program was fully committed by October 2000. By mid-December 2000, the cities of Westminster and Fountain Valley had completed the retrofitting of all their traffic signals.

As part of SCE's 2001 program proposal, SCE plans to continue the LED-Traffic Signal program in coordination with a similar program offered through the California Energy Commission.

The year-end results are summarized below:

- Total Incentive Budget Committed: \$7,500,000 (100% percent of total authorized budget)
- Total Energy Savings: 37,927 MWh
- Total Demand Reductions: 8.20 MW

Campus Energy Efficiency Project – UC and CSU

Program Element Summary

The Campus Energy Efficiency Project provides a directed incentive for energy demand reduction projects at two campuses in SCE territory. The two campuses are California State University Long Beach (CSULB) and California State Polytechnic University Pomona (Cal Poly). (California State University Dominguez Hills originally proposed a project for this program but has since withdrawn.) CSULB is conducting lighting retrofit projects at several campus buildings for a projected demand reduction of 1,647 kW and energy savings of 3,692,664 kWh. Cal Poly is installing a thermal energy storage system and making modifications to their HVAC system campus for a projected demand reduction of 1,480 kW and energy savings 3,934,713 kWh.

The \$3.5 million incentive budget allocated to this program is split between the two campuses based on the projected energy savings. Incentives through this program will be paid to the respective campuses in increments of 50 percent up front, 40 percent at project completion and 10 percent upon delivery of a final project report. The final report will be used to report the results of the project and will include such information as project costs and actual per unit demand and energy savings.

Activities, Accomplishment, Market Progress, & Modifications

By the end of October 2000, contract negotiations were completed and SCE and the two campus signed contracts. By the first week of September, 50 percent of the incentives funds were sent to both campuses. Also, in September 2000, Cal Poly Pomona notified SCE that it was near completion of its thermal energy storage project with an expected completion date of mid-January. In mid-December 2000, CSULB notified SCE that it was no longer going to fund its portion of its Summer Initiative project and would return the up front incentives funds back to SCE. SCE will utilize these unspent funds in support of the 2001 energy efficiency program portfolio.

Hard to Reach Program

Program Element Summary:

- The program seeks to achieve peak demand savings through the installation of energy efficiency measures at multifamily apartment complexes, mobile home parks, and condominium complexes.
- Offers incentives (posted prices) for a wide variety of measures including: Energy Star lighting equipment, Energy Star refrigerators, Energy Star clothes washers, Energy Star dishwashers, HVAC equipment, thermal shell measures, water heaters, and water flow restrictors.
- Standardized statewide, including incentive levels, procedures, and contracts. The program is open to all project sponsors that have the appropriate licenses, bonding, certification, and insurance to perform the required work.

- Utility administers program; project sponsors identify and sell individual projects based upon an approved marketing plan.

Update / Current Activities / Market Progress:

- As of September 25, 2000, the utilities had filed and served a draft program design, including program manual, for the Hard to Reach Summer Initiative Program.
- Based upon concerns regarding implementation issues associated with the initial program design the ALJ ordered that the utilities not accept applications until implementation issues are resolved. This triggered a reworking of the initially proposed program design.
- The program was redesigned based upon guidance from the Commission (Administrative Law Judge’s Ruling on Summer 2000 Energy Efficiency Initiative Issues Related to Implementation of the Hard to Reach Program) and was open for applications on November 8, 2000. The \$11.8 million in program funds were almost fully subscribed as of December 31, 2000. The first reports on installation will be provided to SCE by March 2001.

Beat the Heat:

Program Element Summary:

- Statewide program targets commercial and industrial users of halogen torchiere lamps and encourages them to replace those lamps with ENERGY STAR[®] models that save energy and demand, improve building comfort, and eliminate fire danger.
- Program also provides for recycling of halogen torchieres that are replaced.
- Ecos Consulting will provide this program in the service territories of PG&E, SCE and SDG&E. SDG&E will manage the contract with Ecos Consulting.

Update / Current activities / Market progress:

- As the program administrator, SDG&E successfully completed contract negotiations with Ecos on behalf of PG&E and SCE. A contract with Ecos Consulting was signed on September 11, 2000.
- The research phase that involves characterizing the market and testing the hypotheses about the high incidence of halogen torchiere lighting in commercial spaces was completed. Research identified approximately 1,200 torchieres and thirteen potential participants. Survey results also showed torchieres appear to be concentrated in fewer quantities and at smaller companies than was originally believed. The Ecos Program team is exploring a revised program design to effectively reach this market.
- An initial order of 3,840 replacement torchieres is currently warehoused at an Ecos Consulting facility in southern California.

- As of year-end 2000, no torchieres have been exchanged and/or returned.

COPE:

Program Element Summary:

Under direction from the Commission under Decision 00-07-017, Pacific Gas and Electric Company contracted with COPE (the California Oil Producers Electric Cooperative) for peak demand reduction in for the summer of 2001. Under the contract, \$4,000,000 in funding is provided for COPE to run an incentive program for its members in the PG&E and SCE service territories. The program will focus on measures known to reduce peak demand: the contracted MW reduction is 4.6.

Update / Current activities / Market progress:

The contract was executed on September 18, 2000. COPE has developed a detailed program design, and it has been approved by PG&E. PG&E was invoiced and paid \$125,000 for the first deliverable, the program design, in late December.