
2005 Low Income Energy Efficiency Annual Report

- ◆ Summary Report
2004 Results
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2004 Results

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An EDISON INTERNATIONAL Company

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Executive Summary

In 2004, SCE continued to provide comprehensive services to low income households by installing all feasible energy saving measures for each treated home. As a result, SCE's Low Income Energy Efficiency (LIEE) program continues to provide its participating customers with utility bill savings and additional benefits such as improvements to comfort, health, and safety.

SCE's 2004 program included standard LIEE measures (such as refrigerator replacement, relamping, and evaporative cooler installation), plus new measures adopted by the Commission as part of the Rapid Deployment effort (D.01-05-033) and retained in D.03-11-020 (such as air-conditioner

replacement). SCE in 2004 continued to ensure that treated households are assessed upfront to establish eligibility for all available measures under the LIEE program.

Among program highlights in 2004, SCE's LIEE program:

- installed 1,467 evaporative coolers;
- relamped homes with 117,353 compact fluorescent lamps (CFLs) and hardwired CFL outdoor lighting fixtures;
- weatherized 145 homes;
- provided energy education services to 14,886 homes; and
- installed 15,919 refrigerators to replace older inefficient models

Program Descriptions

SCE's LIEE program provides energy efficiency assistance at no cost to qualified low income customers whose household income meets guidelines established by the Commission. Generally, the income-eligibility requirements for SCE's LIEE program match those for the California Alternative Rates for Energy (CARE) program, which is 175% of federal poverty guidelines. However, for qualified disabled and senior citizens, the income eligibility guidelines are set slightly higher, at 200% of the federal poverty level.

SCE strived in 2004 to deliver the LIEE program efficiently, achieve the Commission's mandate that customers receive all

measures for which they are eligible, and take advantage of opportunities to leverage program resources to maximize the number of customers receiving program services.

In 2004, SCE contained costs and maximized program funding by entering into competitively bid purchase orders to buy energy-efficient refrigerators and CFLs in bulk. These appliances were shipped directly from the manufacturer to SCE's contractors for installation in low income customer homes.

To ensure customers received a comprehensive series of measures in 2004, SCE continued to assess each home for all eligible electric measures in one visit. SCE continued to train all service providers on the

procedures for assessing homes. In an effort to minimize repeat visits to customers' homes, installation contractors delivered other services to qualifying customers such as Relamping and Porch Light Replacement, if feasible.

Throughout 2004, SCE maintained a commitment to participate in and seek out joint leveraging opportunities with community-based organizations (CBOs), faith-based organizations, public housing authorities, Low Income Home Energy Assistance Programs (LIHEAP) providers, ethnic and cultural groups and others. For example, SCE entered into contracts with LIHEAP providers for the installation of refrigerators in SCE's service territory.

These contracts enabled SCE to deliver energy-efficient refrigerators to LIHEAP providers, with installation costs being paid through LIHEAP funds. An added benefit to leveraging with LIHEAP was that SCE customers without a grounded outlet were able to have that outlet grounded through the LIHEAP program and then receive a free refrigerator from SCE. In addition, SCE worked with housing authorities from Riverside, San Bernardino, Tulare, Los Angeles, and Orange counties to coordinate the installation of refrigerators to income-qualified tenants.

SCE developed an outreach plan for California Indian tribes to ensure that Native Americans had access to SCE's low income assistance programs. Aggressive efforts were made to implement the outreach plan to tribes

and nations, including Native American Indians living on and off reservations. The Southern California Indian Center in 2004 continued to advise and assist SCE and Southern California Gas Company (SoCalGas) in the development of outreach methods and communication channels appropriate for targeting Indian tribes with low income program information and services.

EVAPORATIVE COOLERS INSTALLATION

SCE helps qualified low income customers control their summer space cooling costs by offering an evaporative cooler to use in place of their air conditioners. The program targets customers in hot, dry climates where coolers are most effective.

WEATHERIZATION

SCE and SoCalGas entered into an inter-

utility agreement in late 1992, whereby vendors working with SoCalGas provide weatherization services to electrically-heated homes served by SCE within the overlapping SoCalGas service area. One private contractor provides services for SCE customers living in communities not served by SoCalGas. Weatherization services include, but are not limited to: attic insulation, weather-stripping/caulking, low-flow shower heads, electric water heater blankets, and building envelope repair.

RELAMPING

The Relamping program is designed to help low income customers conserve energy and control their lighting costs by offering free CFLs to replace incandescent bulbs. Each CFL provides the same amount of light as an incandescent, but at a lower wattage. A household may

receive as many as five CFLs, to replace 60- to 150-watt incandescent equivalents. In addition, participants receive Energy Education packets which serve to reinforce the energy efficiency message.

ENERGY EDUCATION

Low income customers that receive energy saving LIEE measures receive an Energy Education Resource Guide (English/Spanish) that contains information about SCE's programs, energy saving tips, appliance safety tips, and information on community, state, utility and federal programs that service the low income community. Representatives from CBOs and private contractors provide energy education while at customers' homes.

REFRIGERATOR REPLACEMENT/ RECYCLING

The Refrigerator Replacement program replaces non-energy efficient refrigerators with energy-efficient models. In order to qualify for the program, the customer must own the refrigerator, the unit must be ten years old or older, plugged into a legally grounded three-prong outlet, and the customer must allow SCE to recycle the old refrigerator.

PORCH LIGHT REPLACEMENT

Qualified customers receive one free hardwired CFL porchlight fixture to replace an existing incandescent light based porch light fixture.

FURNACE REPAIR/ REPLACEMENT

In an attempt to standardize LIEE program offerings statewide, the CPUC required SCE to

include furnace repair and replacement in its portfolio of low income energy efficiency measures. To qualify, the customer must be a home-owner, reside in SCE's service territory, meet low income guidelines, have electric space heating, and the unit must require repair or replacement at a cost not in excess of \$750.

RAPID DEPLOYMENT MEASURES

As part of the Commission's Rapid Deployment initiative, the Commission authorized several pilot measures, including: replacement of inefficient air conditioners and other space conditioning equipment with high efficiency models, duct sealing and repair, installation of whole house fans, replacement of inefficient or inoperable water heaters with high efficiency units,

installation of set-back thermostats and maintenance of evaporative coolers. SCE was directed to continue to offer and implement these measures in PY2003. In November 2003, the Commission through D.03-11-020 revised the list of eligible measures by narrowing eligibility for some measures, or dropping others altogether such as whole house fans and evaporative cooling maintenance. SCE applied the revised eligibility criteria to Home Assessments performed after the effective date of D.03-11-020.

2004 Results and Achievements

EVAPORATIVE COOLER INSTALLATION

In 2004, 1,467 evaporative coolers were installed. These installations resulted in an annualized energy savings of 418 MWh and a peak load reduction of 2.1 MW.

WEATHERIZATION

In 2004, 145 electrically-heated homes were weatherized resulting in net annualized savings of 20 MWh. Homes were weatherized through SCE's Inter-Utility Cooperative with SoCalGas, and by a private contractor working in areas not jointly serviced by SoCalGas and SCE.

RELAMPING

SCE installed more than 117,133 CFLs in customers' homes during 2004. The program achieved a

net annualized energy savings of 2,591 MWh and a peak load reduction of 1.5 MW.

ENERGY EDUCATION

As part of the Weatherization, Evaporative Cooler Installation, Relamping and Porch Light Replacement programs, approximately 14,886 customers received in-house counseling and Energy Education packets designed to help them lower energy use through simple conservation practices.

REFRIGERATOR REPLACEMENT/ RECYCLING

In 2004, 15,919 energy efficient refrigerators were installed and 15,919 inefficient refrigerators were recycled through SCE's Refrigerator Replacement/ Recycling program.

The annualized energy savings of replacing these refrigerators was 12,045 MWh, and the peak load reduction was 0.6 MW.

PORCH LIGHT REPLACEMENT

In 2004, SCE installed 220 outdoor light fixtures. These installations resulted in an annualized energy savings of 8 MWh.

FURNACE REPAIR/ REPLACEMENT

During the year, SCE weatherized 145 homes with electric space heating. None of these homes met the program criteria for furnace repair or replacement.

Measurement, Evaluation, & Regulatory Oversight

Measurement & Evaluation (M&E) funds and personnel are used to support the development and implementation of studies of the low income population and programs. Studies include: load impact evaluations that estimate the energy savings achieved by the utilities' low income energy efficiency programs, process evaluations that assess opportunities for improvement in program design and delivery, and similar studies as required by the Commission or determined by the utilities to be necessary to develop and implement effective programs.

MEASUREMENT & EVALUATION - 2004 RESULTS AND ACHIEVEMENTS

With the assistance and oversight of an

administrative group consisting of utility M&E staff, Energy Division, and Office of Ratepayer Advocates (ORA) staff representatives, SCE M&E staff managed the comprehensive evaluation of the 2002 statewide impact evaluation of the LIEE program. A draft report was completed in December 2004 and submitted to the study administrative group for review.

In 2004, the M&E group provided support on a number of ongoing matters including completion of the PY2003 Annual Bill Savings Report, which estimates customer bill savings for the 2001 -2003 program.

Development of this report was managed by Pacific Gas & Electric Company.

MEASUREMENT & EVALUATION - 2005 PLANS

The Protocols and Procedures for the Verification of Costs, Benefits, and Shareholder Earnings from Demand-Side Management Programs, require an impact evaluation of the 2004 program. At the request of the study administrative group, SCE submitted a request to the CPUC, which has been granted, to shift the requirement to evaluation of the 2005 program. This will enable the utilities to collect more detailed program data throughout 2005 to feed into a more detailed energy savings analysis.

During 2005, the detailed research plan for this evaluation will be completed, the study consultants will collect and review detailed quarterly

data provided by the utilities, and energy savings analyses will be initiated.

In addition, the M&E group will provide support on a number of ongoing matters including completion of the next Annual Bill Savings Report, development of estimates of LIEE-eligible customers by two-level zip code (zip +2) for use by program managers and contractors, and ad hoc measurement and analysis support as requested.

Other activities related to compliance with Commission rulings related to LIEE standardization, bill savings reporting, developing information for the Low Income Oversight Board, and development of the Low Income Energy Efficiency Annual Report.

REGULATORY OVERSIGHT

Regulatory oversight consists of activities that are undertaken to meet regulatory requirements for reporting program activities. Areas of support included developing responses to data requests, providing comments on workshop proposals and draft decisions, preparation of filings, and monthly reporting of program results.

Energy-Related Hardship

The Reporting Requirements Manual Working Group (RRMWG) previously developed a working definition of the term “energy-related hardship” as it relates to comfort level, employment, safety and security. The definition agreed upon by the RRMWG states that “energy-related hardship” are “adverse impacts on the comfort, health, and safety of low income customers that can be mitigated by access to low income energy efficiency programs and services.”

SCE’s LIEE programs assist in lessening the energy-related hardships experienced by some low income customers. SCE's Evaporative Cooler and Weatherization programs increase comfort and help customers ease energy-related stress

from inadequate control over ambient climate and temperature due to insufficient energy efficiency measures. The programs provide additional protection from outside elements. Without these programs, customers would have less relief from energy-related stress resulting from ambient climate or temperature especially in extreme temperature regions.

SCE provides evaporative coolers in the desert regions of its service territory through the Evaporative Cooler Installation program. Without evaporative coolers, these customers would be subject to the extreme desert heat unless they operated their air conditioners at much higher cost. The Evaporative Cooler program enhances the physical health of

customers by protecting them from excessive heat they might be subject to if they could not afford to run their air conditioners. In addition to increasing comfort, the repair of doors and windows provided in the Weatherization program enhances the customers’ physical and mental well-being because it reduces exposure to outdoor elements and increases the customers' sense of home security and safety. SCE's Porch Light program also enhances home security.

In addition, the Furnace Repair and Replacement Program contributes to customers’ well-being and comfort by ensuring that a furnace is operable. However, because this program is limited to customers who own their homes and to a maximum expenditure limit of \$750 per home, traditionally this is a small program that reaches a limited number of customers.

Access to Programs Provided By Community-Based Providers

SCE continued to work with the California Department of Community Services and Development (DCSD) on the coordination and integration of resources and benefits between SCE's CARE program and Energy Assistance Fund (EAF) with DCSD's Home Energy Assistance Program (HEAP) and the requirements for reporting the CARE discount on California's LIHEAP Leveraging application. An agreement signed by both parties details the responsibilities of both entities in establishing the coordination of services to SCE's customers.

This agreement places DCSD within compliance of the Department of Health and Human Services'

LIHEAP Leveraging Incentive Program requirements and enables the State of California to claim the CARE discount as a leverage resource. As part of the agreement, both DCSD and SCE agree to the referral of their customers to the other's energy assistance program through written and/or verbal advertising of the programs. The agreement allows SCE to publish the telephone numbers of DCSD programs on SCE program applications and literature, and allows DCSD to include SCE program information on various DCSD literature pieces.

As part of the delivery of SCE's LIEE programs, and other programs they offer, CBOs attempt to identify customer needs that might be met by other CBO

programs. Qualifying customers are referred to these programs. Not all CBOs offer all services to customers. SCE currently contracts with CBOs for the delivery of LIEE programs, not including additional CBOs that perform weatherization services for SCE customers through the Inter-Utility Agreement with SoCalGas in the overlapping service areas. SCE's CBOs offer a variety of low income services in addition to their LIEE service delivery. Examples of such services include senior nutrition and transportation, job training, and health care.

Bill Savings

SCE, PG&E, SDG&E, and SoCalGas have coordinated to produce the Bill Savings estimates that are included in Tables TA 7, TA 8, and TA 9 of this report.

Tables TA 7 and TA 9, use impact estimates from the Impact Evaluation of the 2001 Statewide LIEE Program that was completed in April 2003.

The Bill Savings Report, including any updates to the variables and calculations used in preparing the applicable standard tables in the Technical Appendix for this program area, is being filed separately as a stand-alone document on May 2, 2005, and will include a discussion of variations across utilities.

Shareholder Performance Incentives

The Commission approved the 2001 LIEE shareholder incentive mechanism in Decision 01-06-082 and directed that it remain in place until further order of the Commission.

treatment, SCE did not achieve the minimum performance standard in 2004, and thus is not submitting a 2004 earnings claim.

The 2001 mechanism was based upon the attainment of a minimum performance standard for the LIEE "Big Six" measures. Upon meeting the performance standard, the earnings mechanism calls for program administrators to earn a 2% management fee on all LIEE program expenditures in 2001. Due to the limited opportunities for weatherization measures in SCE's service area, and the need to assure that SoCalGas' 2004 weatherization customers received the corresponding electric appliance measures to ensure comprehensive

2005 Low Income Energy Efficiency Annual Report
Table 1 (RRM Table 7.1)
SUMMARY OF COSTS: LOW INCOME
SOUTHERN CALIFORNIA EDISON
(Electric only)

LIEE Programs	2004		2005 Budget
	Budgeted	Recorded	
Energy Efficiency			
- Gas Appliances	\$ -	\$ -	\$ -
- Electric Appliances	12,313,939	12,467,946	20,971,520
- Weatherization	162,540	22,225	394,450
- Outreach & Assessment	1,204,000	1,409,106	2,817,745
- In Home Energy Education	321,800	206,943	518,400
- Education Workshops		-	
Energy Efficiency Total	14,002,279	14,106,220	24,702,115
Training Center		-	20,000
Inspections	-	173,070	555,000
Advertising			15,000
M&E Studies	195,000	300,661	195,000
Regulatory Compliance	70,000	67,529	70,000
Other Administration	1,825,904	1,317,308	1,772,885
Indirect Costs ^[1]		267,233	-
Oversight Costs		-	
- LIAB Start-up		-	
- LIAB PY 2001		-	
- LIAB PY 2002			
- CPUC Energy Division	70,000	32,877	70,000
Total Oversight Costs	70,000	32,877	70,000
Shareholder Incentive		-	-
TOTAL COSTS	16,163,183	16,264,898	27,400,000

[1] Not part of program authorized budget for 2004

[2] 2005 LIEE program authorized budget

2005 Low Income Energy Efficiency Annual Report
Table 2 (RRM Table 7.2)
SUMMARY OF LIEE PROGRAM EFFECTS
SOUTHERN CALIFORNIA EDISON
(Annual Energy Reduction)

	2004 (recorded)	2005 (planned)
mWh	15,287	24,596
mtherm	N/A	N/A

2005 Low Income Energy Efficiency Annual Report
 Table 3 (RRM Table 7.3)
 SUMMARY OF LIEE COST EFFECTIVENESS
 SOUTHERN CALIFORNIA EDISON
 (Ratio of Benefits Over Costs)

	2004			2005		
	Utility Cost Test	Total Resource Cost Test	Modified Participant Test	Utility Cost Test	Total Resource Cost Test	Modified Participant Test
LIEE programs						
Energy Efficiency	0.82	0.63	1.05	0.73	0.59	0.98

2005 Low Income Energy Efficiency Annual Report
 Table 4 (RRM Table 7.4)
 SUMMARY OF LIEE COST EFFECTIVENESS
 SOUTHERN CALIFORNIA EDISON
 (Net Benefits; \$Mill)

LIEE programs	2004			2005		
	Utility Cost Test	Total Resource Cost Test	Modified Participant Test	Utility Cost Test	Total Resource Cost Test	Modified Participant Test
Energy Efficiency	\$ (2.888)	\$ (5.899)	\$ 0.786	\$ (7.411)	\$ (11.099)	\$ (0.451)

Technical Appendix

This section contains narrative that documents and explains the data shown for Tables TA 1 through TA 9.

Table TA 1 Program Cost Estimates Used for Cost-Effectiveness - Low-Income Energy Efficiency

This table documents those costs used in determining the cost-effectiveness of low-income energy efficiency programs. These tables provide all program costs, including costs expended in 2004.

Program Incentives (Recorded)

These costs represent incentives paid to contractors, including installation and measure costs during 2004 (Actual).

Program Administrative Costs (Recorded)

These costs include expenditures directly charged for SCE and contract labor associated with program administrative costs.

Shareholder Incentives

Costs represented in the Shareholder Incentives column are those relating to the performance awards earned during 2004 from the 2004 low-income energy efficiency programs.

Other Costs

Costs for non-incentive and non-administrative activities include energy education, printing of materials, regulatory, legal, indirect costs, CPUC Energy Division staffing, and Cool Centers.

Total Utility Costs

The sum of the Program Incentives (Actual and Committed) columns, Program Administrative Costs column, Shareholder Incentives, and Other Costs.

Incremental Measure Costs (Net)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. These ratios are 1.0 for all Low-income Energy Efficiency programs. SCE's incremental measure costs for the Low-income Energy Efficiency programs equal the total installation and measure costs for installed measures. Thus, for all LIEE programs, incremental measure costs are equal to the incentive costs.

Table TA 2 Program Cost Elements - Low-income Energy Efficiency

This table documents the breakdown of costs of the low-income energy efficiency programs. The table provides detail of program costs expended in 2004.

Labor Costs

Any internal direct (administrative and/or implementation) costs (indirect costs are a separate line item), burdened by overhead, that represents person hours.

Non-Labor Costs

All direct internal (administrative and/or implementation) costs (indirect costs are given as a separate line item) not covered under labor, such as printing of materials.

Contract Labor Costs

All outsourced costs (administrative and/or implementation). Contract costs do not need to be further broken out by labor/non-labor. This category includes agency employees and outsourced inspection contractors.

Total Costs

The sum of the aforementioned utility costs - Labor, Non-labor, and Contract costs.

Table TA 3 Program Detail by Housing Type and Heating Source - Low-income Energy Efficiency

The table provides, by housing type and heating source, the MWh savings for program year 2004, direct program costs, and the number of dwellings served.

Also, an estimate of the total dwellings that will receive program services in 2005 is provided.

Table TA 4 Program Detail by Measure - Low-income Energy Efficiency

The table provides, by measure grouping, the MWh savings for program year 2004, direct program costs, and the number of dwellings served. Also, for specific measures within the measure groupings, the number of dwellings receiving service is provided.

Table TA 5 Installation Costs of LIEE Program Installation Contractors - Low-income Energy Efficiency

The table provides, by measure grouping, the units installed, dwelling served and costs by contractor type (either CBO or WMDVBE, or private, i.e., neither CBO nor WMDVBE).

Table TA 6 Percentage of Dwellings Served By Contractor Classification (Last Year) - Low-income Energy Efficiency

The table provides by program, the percentage of dwellings completed by each contractor (CBO or Non-CBO) and indicates whether each contractor is WMDVBE certified.

Table TA 7 Lifecycle Bill Savings - Last Year - SCE - Low-income Energy Efficiency

The table indicates by measure, the number of measures installed, per measure electric kWh savings, gas therm savings, effective useful life, and Total Measure Lifecycle Bill Savings in dollars. The last two rows indicate the number of homes served by the program in 2004, and the life cycle bill savings in dollars per home.

**Table TA 8 Energy Rates Used for Bill Savings
Calculations - SCE - Low-income Energy
Efficiency**

The table lists the energy rates used for bill savings calculations stated as \$/kWh for years from 2004 through 2028.

**Table TA 9 Bill Savings - SCE - Low-income Energy
Efficiency**

The table lists for the 2002, 2003, and 2004 program years the program costs, program life cycle bill savings in dollars, bill savings over cost ratio, and per home average life cycle bill savings

2005 Low Income Energy Efficiency Annual Report
 Table TA 1 (RRM Table TA 7.1)
 LIEE PROGRAM COST ESTIMATES USED FOR COST-EFFECTIVENESS
 SOUTHERN CALIFORNIA EDISON
 (Electric Only)

LIEE programs	UTILITY COSTS						Incremental Measure Costs
	Program Incentives (Recorded) ^[1]		Admin Costs	Shareholder Incentives	Other Costs ^[2]	Total Utility Costs	
	Actual	Committed					
Energy Efficiency	\$12,470,171	\$ -	\$ 1,317,308	\$ -	\$ 2,190,186	\$15,977,665	\$ 12,486,000

^[1] Expenses related to direct installation

^[2] including cost for Outreach & Assessment, Inspection, Energy Education, M&E, Regulatory Support, LIOB and CPUC staffing cost

2005 Low Income Energy Efficiency Annual Report
Table TA 2 (RRM Table TA 7.2)
LIEE COST ELEMENTS
SOUTHERN CALIFORNIA EDISON
(Electric only)

LIEE Programs	Expenditures Recorded by Cost Element - 2004			
	Labor	Non-Labor	Contract	Total
Energy Efficiency				
- Gas Appliances	-	-		-
- Electric Appliances			12,467,946	12,467,946
- Weatherization			22,225	22,225
- Outreach & Assessment			1,409,106	1,409,106
- In Home Energy Education			206,943	206,943
- Education Workshops				-
Energy Efficiency Total	-	-	14,106,220	14,106,220
Training Center				-
Inspections			173,070	173,070
Advertising				-
M&E Studies	300,661			300,661
Regulatory Compliance	67,529			67,529
Other Administration	1,020,821	296,486		1,317,308
Indirect Costs	267,233			267,233
Oversight Costs				-
- LIAB Start-up				-
- LIAB PY 2001				-
- LIAB PY 2002				-
- CPUC Energy Division		32,877		32,877
Total Oversight Costs	-	32,877	-	32,877
Shareholder Incentive		-		-
				-
TOTAL COSTS	1,656,244	329,363	14,279,290	16,264,898

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Table TA3 (RRM Table TA 7.3)
PROGRAM DETAIL BY HOUSING TYPE AND HEATING SOURCE
SOUTHERN CALIFORNIA EDISON

	Energy Saved and Program Costs			Number of Dwellings		
	2004 (mWh)	2004 (mTherm*)	2004 Expenses [1]	2004 (Planned)	2004 (Actual)	2005 (Planned)
Gas Heat – Own						
Single Family						
Multi Family						
Mobile Home						
Sub Total Dwellings Served						
Gas Heat – Rent						
Single Family						
Multi Family						
Mobile Home						
Sub Total Dwellings Served						
Electric Heat – Own						
Single Family	5,999,183		\$ 6,411,513		13,670	
Multi Family	99,455		\$ 125,715		2,470	
Mobile Home	1,081,440		\$ 1,480,871		256	
Sub Total Dwellings Served	7,180,078		\$ 8,018,099		16,396	
Electric Heat – Rent						
Single Family	5,496,945		\$ 5,060,823		11,558	
Multi Family	2,459,677		\$ 2,739,173		369	
Mobile Home	150,251		\$ 179,570		9,025	
Sub Total Dwellings Served	8,106,873		\$ 7,979,566		20,952	
TOTAL DWELLINGS SERVED	15,286,951		\$ 15,997,665		37,348	

* millions of Therms

[1] - excluding indirect program costs

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Table TA 4 (RRM Table TA 7.4)
PROGRAM DETAIL BY MEASURE
SOUTHERN CALIFORNIA EDISON

	Energy Saved and Program Costs 2004			Number of Dwellings Served 2004
	(mWh)	(mTherm)	Expenses	Actual Dwellings Served
Furnaces Gas				
Repair				
Replacement				
Total Furnaces Gas				
Infiltration & Space Conditioning				
Weatherization Savings (Table TA				145
Caulking	0		933	
Weatherstripping	3		9,502	
Duct Repair ^[1]				
Cover Plate Gaskets	1		2,595	
Covers	0		1,750	
Minor Home Repairs	1		3,232	
Glass Replacements	-			
Wall Repair (exterior)	-			
Door Repair	-			
Door Replacement	-			
Threshold Installed	-			
Attic Ventilation	-		-	
Attic Insulation	1		577	
Attic Access Weatherstripping	-		-	
HVAC Air Filter Replacement	-		-	
Total Infiltration & Space Conditioning	6		18,590	
Water Heating Savings				
Water Heater Blanket	2		533	
Low Flow Showerhead	8		2,408	
Water Heater Pipe Wrap	0		113	
Faucet Aerators	4		2,529	
Total Water Heating Savings	14		5,584	
Minor Home Repairs (other than	-			
Miscellaneous Measures	-		146	
Evaporative Cooler Installation	418		1,158,115	1,467
Evaporative Cooler Maintenance	15		23,461	277
Duct Testing & Sealing	1		42,036	332
T-Stat	4		46,916	377
Window AC	51		161,918	202
Central AC	133		1,151,500	457
Water Heater Replacement	3		11,648	22
Refrigerator Replacement	12,045		9,355,049	15,919
Porch Light Fixture	8		21,690	207
Compact Fluorescents (includes porch lights)	2,591		1,143,326	25,581
Energy Education				
Outreach & Assessment ^[2]			1,861,584	31,325
In-Home Education			421,966	14,886
Education Workshops			-	-
Total Energy Education	-		2,283,550	31,325

* millions of Therms

[1] - Savings for Minor Home Repair measure

[2] - included operating cost for and Assessment/Implementation/Qualification cost for Weatherization program, excluded Indirect Cost, Inspection, CPUC, Regulatory and M&E costs

2005 Low Income Energy Efficiency Annual Report
 Table TA 5 (RRM Table 7.5)
 INSTALLATION COSTS OF LIEE PROGRAM INSTALLATION CONTRACTORS
 SOUTHERN CALIFORNIA EDISON

	Unit of Measure	CBOW/MD/VE			Non-CBOW/MD/VE			Total		
		Units Installed	Dwellings	Costs	Units Installed	Dwellings	Costs	Units Installed	Dwellings	Costs
Dwellings	Each									
Furnaces										
Repair - Gas	Each									
Replacement - Gas	Each									
Repair - Electric	Each									
Replacement - Electric	Each									
Infiltration & Space Conditioning										
Caulking	Home	48	48	\$ 492	-	-	\$ -	48	48	\$ 492
Weatherstripping	Each	144	144	\$ 8,179	-	-	\$ -	144	144	\$ 8,179
Duct Repair	Home	-	-	\$ -	-	-	\$ -	-	-	#DIV/0!
Cover Plates/Gaskets	Home	153	132	\$ 1,363	-	-	\$ -	153	132	\$ 1,363
Evaporative Cooler/Air Cond. Covers	Each	47	46	\$ 1,328	-	-	\$ -	47	46	\$ 1,328
Window Replacements	Each	-	-	\$ -	-	-	\$ -	-	-	#DIV/0!
Glass Replacements	Sq. Ft.	-	-	\$ -	-	-	\$ -	-	-	#DIV/0!
Wall Repair (exterior)	Home	1	1	\$ 31	-	-	\$ -	1	1	\$ 31
Door Repair	Each	-	-	\$ -	-	-	\$ -	-	-	#DIV/0!
Door Replacement	Each	9	9	\$ 771	-	-	\$ -	9	9	\$ 771
Threshold Installed	Each	-	-	\$ -	-	-	\$ -	-	-	#DIV/0!
Attic Ventilation	Home	1	1	\$ 568	-	-	\$ -	1	1	\$ 568
Attic Insulation	Home	-	-	\$ -	-	-	\$ -	-	-	#DIV/0!
Attic Access Weatherstripping	Each	-	-	\$ -	-	-	\$ -	-	-	#DIV/0!
HVAC Air Filter Replacement	Each	-	-	\$ -	-	-	\$ -	-	-	#DIV/0!
Water Heating Savings										
Water Heater Blanket	Each	22	18	\$ 368	-	-	\$ -	22	18	\$ 368
Low Flow Showerhead	Each	108	93	\$ 1,563	-	-	\$ -	108	93	\$ 1,563
Water Heater Pipe Wrap	Home	5	5	\$ 68	-	-	\$ -	5	5	\$ 68
Faucet Aerators	Each	269	133	\$ 1,307	-	-	\$ -	269	133	\$ 1,307
Minor Home Repairs (other than above)	Home	44	44	\$ 2,026	-	-	\$ -	44	44	\$ 2,026
Miscellaneous Measures										
Evaporative Cooler Installation	Each	1,169	1,169	\$ 905,975	298	298	\$ 230,950	1,467	1,467	\$ 1,136,925
Evaporative Cooler Maintenance	Each	175	175	\$ 12,250	103	102	\$ 7,210	278	277	\$ 19,460
Duct Testing and Cooling	Each	275	275	\$ 28,000	56	56	\$ 9,240	331	331	\$ 37,240
T-Stat	Each	283	283	\$ 31,130	94	94	\$ 10,340	377	377	\$ 41,470
Window AC	Each	137	135	\$ 102,750	75	67	\$ 56,250	212	202	\$ 159,000
Central AC	Each	285	285	\$ 796,000	173	172	\$ 388,899	458	457	\$ 1,144,899
Water Heater Replacement	Each	22	22	\$ 11,330	-	-	\$ -	22	22	\$ 11,330
Refrigerator Replacement	Each	14,760	14,760	\$2,571,835	1,159	1,159	\$ 202,825	15,919	15,919	\$ 2,774,660
Compact Fluorescents (inc. porchlites)	Each	100,901	21,488	\$ 420,938	16,452	4,093	\$ 66,274	117,353	25,581	\$ 487,212
Outreach Education Administration ^[2]	Home	24,247	24,247	\$1,292,454	6,988	6,988	\$ 327,684	31,235	31,235	\$ 1,620,138

^[1] Included installation that completed by LIHEAP contractors

^[2] Assessment, implementation and qualification fee for WX program

2005 Low Income Energy Efficiency Annual Report

TABLE TA 6 (RRM Table TA 7.6)

PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2004)

SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
Central A/C				
	CBO Participants			
		Subtotal	0%	
	Non-CBO Participants	Service Provider 1	21%	
		Service Provider 2	48%	Yes
		Service Provider 3	17%	
		Service Provider 4	14%	Yes
		Subtotal	100%	
Evaporative Cooler Installation				
	CBO Participants	Service Provider 1	7%	
		Service Provider 2	13%	
		Service Provider 3	13%	
		Service Provider 4	36%	
		Service Provider 5	1%	
		Subtotal	70%	
	Non-CBO Participants	Service Provider 1	3%	
		Service Provider 2	15%	
		Service Provider 3	3%	
		Service Provider 4	10%	Yes
		Subtotal	30%	

2005 Low Income Energy Efficiency Annual Report

TABLE TA 6 (RRM Table TA 7.6)

PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2004)

SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
Evaporative Cooler Maintenance				
	CBO Participants	Service Provider 1	12%	
		Service Provider 2	27%	
		Service Provider 3	16%	
		Service Provider 4	1%	
		Subtotal	56%	
	Non-CBO Participants	Service Provider 1	2%	
		Service Provider 2	35%	
		Service Provider 3	7%	Yes
		Subtotal	44%	
Duct Testing & Sealing				
	Non-CBO Participants	Service Provider 1	17%	
		Service Provider 2	66%	Yes
		Service Provider 3	17%	Yes
		Subtotal	100%	

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TABLE TA 6 (RRM Table TA 7.6)

PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2004)

SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
Home Assessment				
	CBO Participants	Service Provider 1	4%	
		Service Provider 2	0%	
		Service Provider 3	2%	
		Service Provider 4	2%	
		Service Provider 5	12%	
		Service Provider 6	1%	
		Service Provider 7	1%	
		Service Provider 8	38%	
		Service Provider 9	6%	
		Service Provider 10	5%	
		Subtotal	71%	
	Non-CBO Participants	Service Provider 1	4%	
		Service Provider 2	15%	
		Service Provider 3	2%	Yes
		Service Provider 4	4%	Yes
		Service Provider 5	2%	
		Service Provider 6	1%	
		Subtotal	29%	

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TABLE TA 6 (RRM Table TA 7.6)

PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2004)

SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
In Home Energy Education				
	CBO Participants	Service Provider 1	1%	
		Service Provider 2	4%	
		Service Provider 3	4%	
		Service Provider 4	7%	
		Service Provider 5	2%	
		Service Provider 6	34%	
		Service Provider 7	13%	
		Subtotal	66%	
	Non-CBO Participants	Service Provider 1	7%	
		Service Provider 2	1%	Yes
		Service Provider 3	13%	
		Service Provider 4	8%	Yes
		Service Provider 5	5%	
		Subtotal	34%	
Porch Light Fixture with CFL				
	CBO Participants	Service Provider 1	0%	
		Service Provider 2	12%	
		Service Provider 3	48%	
		Service Provider 4	21%	
		Service Provider 5	2%	
		Subtotal	84%	
	Non-CBO Participants	Service Provider 1	2%	
		Service Provider 2	14%	Yes
		Subtotal	16%	

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TABLE TA 6 (RRM Table TA 7.6)

PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2004)

SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
Programmable Thermostat				
	Non-CBO Participants	Service Provider 1	25%	
		Service Provider 2	58%	Yes
		Service Provider 3	17%	Yes
		Subtotal	100%	
Refrigerator Replacement				
	CBO Participants	Service Provider 1	1%	
		Service Provider 2	3%	
		Service Provider 3	12%	
		Service Provider 4	50%	
		Service Provider 5	0%	
		Service Provider 6	9%	
		Service Provider 7	2%	
		Subtotal	77%	
	Non-CBO Participants	Service Provider 1	7%	
		Service Provider 2	4%	Yes
		Service Provider 3	11%	Yes
		Subtotal	23%	

2005 Low Income Energy Efficiency Annual Report

TABLE TA 6 (RRM Table TA 7.6)

PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2004)

SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
Relamping (Indoor & Outdoor)				
	CBO Participants	Service Provider 1	1/40	
		Service Provider 2	2/75	
		Service Provider 3	1/43	
		Service Provider 4	6/47	
		Service Provider 5	1/30	
		Service Provider 6	38/87	
		Service Provider 7	7/99	
		Service Provider 8	1/53	
		Subtotal	76%	
	Non-CBO Participants	Service Provider 1	0%	
		Service Provider 2	5%	
		Service Provider 3	8%	
		Service Provider 4	1%	Yes
		Service Provider 5	6%	Yes
		Service Provider 6	3%	
		Service Provider 7	0%	
		Subtotal	24%	
Room Air Conditioner				
	CBO Participants	Service Provider 1	1%	
		Service Provider 2	4%	
		Service Provider 3	22%	
		Service Provider 4	22%	
		Service Provider 5	6%	
		Subtotal	55%	
	Non-CBO Participants	Service Provider 1	9%	
		Service Provider 2	22%	
		Service Provider 3	2%	Yes
		Service Provider 4	9%	Yes
		Subtotal	43%	

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TABLE TA 6 (RRM Table TA 7.6)

PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2004)

SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
Water Heater Replacement				
	CBO Participants	Service Provider 1	5%	
		Service Provider 2	9%	
		Subtotal	14%	
	Non-CBO Participants	Service Provider 1	68%	Yes
		Service Provider 2	18%	Yes
		Subtotal	86%	
Weatherization				
	CBO Participants	Service Provider 1	34%	
		Service Provider 2	4%	
		Service Provider 3	1%	
		Service Provider 4	12%	
		Subtotal	51%	
	Non-CBO Participants	Service Provider 1	35%	Yes
		Service Provider 2	14%	Yes
		Subtotal	49%	

2005 Low Income Energy Efficiency Annual Report
 TABLE TA 7.7 (RRM Table 7.7)
 LIFE CYCLE BILL SAVINGS (2004)
 SOUTHERN CALIFORNIA EDISON

Measure Description	Number Installed		Per Measure Electric Impact (kWh)		EUL (Yrs)	Total Measure Life Cycle Bill Savings (\$)
	SH	AC	SH	AC		
Energy Efficiency Measures						
Attic Insulation MF	-	-	-	-	25	\$ -
Attic Insulation SF	1	1	266.17	515.12	25	\$ 1,174
Caulking MF	23	7	7.23	0.96	5	\$ 80
Caulking MH	4	3	11.35	2.45	5	\$ 24
Caulking SF	21	8	9.92	2.36	5	\$ 105
Central AC MF	-	17	-	56.06	18	\$ 1,188
Central AC MH	-	123	-	415.65	18	\$ 63,726
Central AC SF	-	317	-	250.84	18	\$ 99,117
CFL (Indoor) MF	-	21,754	-	16.40	8	\$ 245,880
CFL (Indoor) MH	-	8,009	-	16.40	8	\$ 90,524
CFL (Indoor) SF	-	83,459	-	23.70	8	\$ 1,363,206
CFL (Outdoor) MF	-	710	-	16.40	8	\$ 8,025
CFL (Outdoor) MH	-	156	-	16.40	8	\$ 1,763
CFL (Outdoor) SF	-	1,809	-	23.70	8	\$ 29,548
Duct Sealing MF	5	5	0.37	17.50	25	\$ 134
Duct Sealing SF	52	52	10.78	7.37	25	\$ 1,419
Evaporative Cooler Cover MF	44	-	8.94	-	3	\$ 114
Evaporative Cooler Cover SF	2	-	11.20	-	3	\$ 7
Evaporative Cooler Installation MF	-	23	-	83.68	15	\$ 2,130
Evaporative Cooler Installation MH	-	190	-	370.76	15	\$ 77,969
Evaporative Cooler Installation SF	-	1,254	-	311.07	15	\$ 431,749
Evaporative Cooler Maintenance MF	-	61	-	62.60	4	\$ 1,444
Evaporative Cooler Maintenance MH	-	87	-	59.67	4	\$ 1,963
Evaporative Cooler Maintenance SF	-	129	-	46.50	4	\$ 2,268
Faucet Aerator MF	-	85	-	26.50	5	\$ 1,040
Faucet Aerator MH	-	6	-	26.50	5	\$ 73
Faucet Aerator SF	-	42	-	43.40	5	\$ 842
Low Flow Showerhead MF	-	57	-	66.60	10	\$ 3,126
Low Flow Showerhead MH	-	2	-	66.60	10	\$ 110
Low Flow Showerhead SF	-	36	-	108.70	10	\$ 3,222
Minor Home Repair MF	26	14	24.96	9.92	10	\$ 649
Minor Home Repair SF	19	6	30.92	11.79	10	\$ 542
Porchlight Fixture MF	-	12	-	24.20	5	\$ 134
Porchlight Fixture MH	-	12	-	24.20	5	\$ 134
Porchlight Fixture SF	-	183	-	35.60	5	\$ 3,008
Programmable Thermostat MF	13	13	3.37	3.26	12	\$ 81
Programmable Thermostat MH	119	119	4.44	5.03	12	\$ 1,065
Programmable Thermostat SF	245	245	5.74	6.62	12	\$ 2,861
Refrigerator Replacement MF	-	3,254	-	665.10	15	\$ 2,395,405
Refrigerator Replacement MH	-	1,431	-	665.10	15	\$ 1,053,419
Refrigerator Replacement SF	-	11,234	-	794.80	15	\$ 9,882,500
Room AC MF	-	16	-	133.27	15	\$ 2,360
Room AC MH	-	50	-	337.74	15	\$ 18,691
Room AC SF	-	136	-	205.64	15	\$ 30,954
Switch Plate Gasket MF	82	82	3.38	(0.05)	15	\$ 302
Switch Plate Gasket MH	5	5	5.62	0.18	15	\$ 32
Switch Plate Gasket SF	45	45	5.62	0.18	15	\$ 289
Water Heater Blanket MF	-	6	-	88.50	5	\$ 245
Water Heater Blanket MH	-	1	-	88.50	5	\$ 41
Water Heater Blanket SF	-	11	-	145.30	5	\$ 738
Water Heater Pipe Wrap MF	-	-	-	35.40	15	\$ -
Water Heater Pipe Wrap MH	-	-	-	35.40	15	\$ -
Water Heater Pipe Wrap SF	-	5	-	58.10	15	\$ 322
Water Heater Replacement MF	-	2	-	118.00	13	\$ 236
Water Heater Replacement MH	-	8	-	193.23	13	\$ 1,548
Water Heater Replacement SF	-	12	-	193.23	13	\$ 2,323
Weatherstripping MF	88	59	15.47	1.87	5	\$ 679
Weatherstripping MH	6	5	12.34	2.89	5	\$ 41
Weatherstripping SF	50	26	18.98	5.99	5	\$ 510
Total Bill Savings for All Measures In Program Year						\$ 15,831,079

Total Number of Homes Served by the Program during Program Year 37,348

Life Cycle Bill Savings Per Home \$ 423.88

2005 Low Income Energy Efficiency Annual Report		
TABLE TA 8 (RRM Table TA 7.8)		
ENERGY RATES USED FOR BILL SAVINGS CALCULATIONS		
SOUTHERN CALIFORNIA EDISON		
Year	\$/kWh	\$/Therm
2004	0.1209	
2005	0.1245	
2006	0.1283	
2007	0.1321	
2008	0.1361	
2009	0.1402	
2010	0.1444	
2011	0.1487	
2012	0.1532	
2013	0.1577	
2014	0.1625	
2015	0.1674	
2016	0.1724	
2017	0.1775	
2018	0.1829	
2019	0.1884	
2020	0.1940	
2021	0.1998	
2022	0.2058	
2023	0.2120	
2024	0.2184	
2025	0.2249	
2026	0.2317	
2027	0.2386	
2028	0.2458	

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 TABLE TA 9 (RRM Table TA 7.9)
 BILL SAVINGS
 SOUTHERN CALIFORNIA EDISON

Program Year	Program Costs	Program Lifecycle Bill Savings	Program Bill Savings/ Cost Ratio	Per Home Average Lifecycle Bill Savings
2002	\$ 13,971,543	\$ 13,095,830	0.94	\$ 441.16
2003	\$ 18,664,181	\$ 18,580,684	1.00	\$ 550.83
2004	\$ 15,997,665	\$ 15,831,079	1.00	\$ 423.88