
2006 Low Income Energy Efficiency Annual Report

- ◆ Summary Report
2005 Results
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2005 Results

May 2006



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Executive Summary

In 2005, SCE continued to provide comprehensive services to eligible low income customers by installing all feasible energy saving measures for each qualified 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 2005 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 2005 continued to ensure that treated

households are assessed upfront to establish eligibility for all available measures under the LIEE program.

In October, 2005, the Commission addressed the potential impacts of anticipated higher natural gas bills on low-income customers during the 2005/2006 winter, resulting from higher gas costs faced by utilities. The Commission explored a full range of actions the utilities, regulators and individual consumers could undertake to reduce the impact of higher costs on California's low income customers.

As a result, the Commission issued Decision 05-10-044, which expanded and accelerated LIEE offerings and activities in ways such as the following:

- SCE received authorization to increase the

number of new refrigerators and compact fluorescent lights (CFLs) placed in qualifying homes.

- The upper income eligibility thresholds for the LIEE and California Alternative Rates for Energy (CARE) programs are increased from 175% to 200% of federal poverty guidelines for all customers.

Among program highlights in 2005, SCE's LIEE program:

- installed 2,571 evaporative coolers;
- weatherized approximately 1,000 homes;
- relamped homes with 146,862 CFLs and 187 outdoor hard-wired CFL fixtures;
- installed 19,905 refrigerators to replace older inefficient models and;
- energy education services were

provided to 67,713
homes through
SCE's LIEE and
SoCalGas' Direct
Assistance (DAP)
programs.

Program Description

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. Effective with Decision 05-10-044 the income-eligibility requirements for SCE's LIEE program now match those for the California Alternative Rates for Energy (CARE) program, both of which are set at 200% of federal poverty guidelines.

SCE strived in 2005 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 2005, SCE contained costs and maximized program funding by entering into competitively bid purchase orders to buy energy-efficient refrigerators and CFLs in bulk. SCE's successful vendor was required to maintain adequate inventory levels to respond to SCE contractor requests.

Assessment for all electric measures and income verification were conducted on the first initial visit to customer homes. SCE continued to train all service providers on the procedures for assessing homes.

Throughout 2005, SCE maintained a commitment to participate in and seek out joint leveraging opportunities with

Low Income Home Energy Assistance Programs (LIHEAP) providers. For example, SCE entered into agreements with LIHEAP providers for the installation of refrigerators in SCE's service territory. These agreements enabled SCE to deliver energy-efficient refrigerators to LIHEAP providers, with installation costs being paid through LIHEAP funds

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 refrigerated air conditioners. SCE's contractors target customers in hot, dry climates where coolers are most effective.

WEATHERIZATION

SCE provides weatherization services to customers with electric-space heating. 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

SCE's contractors provide CFLs 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 100-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 also 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 Community-Based Organizations (CBOs) and private contractors discuss energy efficiency while at customers' homes. Energy efficiency tips on electric appliances are also offered to customers serviced through the SoCalGas DAP program.

REFRIGERATOR REPLACEMENT/ RECYCLING

SCE's contractors replace non energy-efficient refrigerators with energy-efficient models. In order for a landlord-owned unit to qualify for replacement, the landlord must own the refrigerator and the tenant pays the electric bill or if the landlord owns the refrigerator and the tenant does not pay the electric bill, the landlord must make a co-payment of \$175.00. In addition, there are other requirements such as: 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.

**WINDOW/WALL
AIR
CONDITIONERS**

SCE helps low-income customers control summer energy costs by offering new, energy-efficient window/wall air-conditioners.

Installations are targeted to customers who reside in eligible climate zones where temperatures regularly exceed 100 degrees.

2005 Results and Achievements

EVAPORATIVE COOLER INSTALLATION

In 2005, 2,571 evaporative coolers were installed. These installations resulted in an annualized energy savings of 781 MWh.

WEATHERIZATION

In 2005, approximately 1,000 electrically-heated homes were weatherized resulting in net annualized savings of 132 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 146,862 CFLs in customers' homes during 2005. These installations resulted in a net

annualized energy savings of 3,415 MWh.

ENERGY EDUCATION

SCE's contractors provided Energy Education to 67,713 customers through in-house counseling and Energy Education packets designed to help them lower energy use through simple conservation practices.

REFRIGERATOR REPLACEMENT/ RECYCLING

In 2005, 19,905 energy efficient refrigerators were installed and 19,905 inefficient refrigerators were recycled through SCE's LIEE program. The annualized energy savings of replacing these refrigerators was 14,851 MWh.

PORCH LIGHT REPLACEMENT

In 2005, SCE installed 187 outdoor light fixtures. These installations resulted in an annualized energy savings of 8 MWh.

WINDOW/WALL AIR CONDITIONERS

In 2005, SCE replaced 201 window/wall air conditioners. These installations resulted in an annualized energy savings of 52 MWh.

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.

2005 RESULTS AND ACHIEVEMENTS

With the assistance and oversight of an administrative group consisting of utility

M&E staff, Energy Division, and Division of Ratepayer Advocates (DRA) staff representatives, SCE M&E staff managed the completion of a comprehensive evaluation of the 2002 statewide impact evaluation of the LIEE program. The group provided comments on the draft report, presented the revised draft at public workshops, and approved the final report in June, after which it was posted on the CALMAC website.

Based on lessons learned and recommendations from the 2002 study, the study consultants and the study administrative group requested that more detailed program tracking data be collected during 2005 to provide a stronger basis for the next evaluation. The

consultants monitored the program data collected during 2005, gathered some data from the field, and developed a detailed research plan for evaluating the 2005 program.

In 2005, the SCE M&E group provided support on a number of ongoing matters including completion of the PY2004 Annual Bill Savings Report, which estimates customer bill savings for the 2002 -2004 program. Development of this report was managed by Pacific Gas & Electric Company.

2006 PLANS

During 2006, the detailed research plan for the 2005 program evaluation will be presented in public workshops, revised as necessary, and approved. The consultants will

gather and review 2005 program tracking data and 2004 through September 2006 monthly energy consumption data from the utilities and will then begin the energy savings analyses. The study is scheduled for completion during the first half of 2007.

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.

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

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 program assists in lessening the energy-related hardships experienced by some low income customers. Evaporative coolers, window/wall air conditioner replacements, and weatherization measures increase comfort and help

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

SCE’s contractors provide evaporative coolers in the desert regions of SCE’s service territory. 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 if they could not afford to run their air conditioners. Replacing inefficient or inoperable window/wall air conditioners also helps address energy related hardship. In addition to increasing comfort, weatherization measures, such as the repair of doors and windows, enhances the customers’ physical and mental well-being by reducing exposure to outdoor elements. Repairing doors and windows also increases the customers' sense of home security and safety. SCE's Porch Light program also enhances home security.

Access to Programs Provided By Community-Based Providers

SCE maintains an ongoing relationship with DCSD's Home Energy Assistance Program (HEAP) by providing data for DCSD's California 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 program 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 and private contractors for the delivery of the LIEE program. 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 by May 1, 2006, 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 2005, and thus is not submitting a 2005 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' 2005 weatherization customers received the corresponding electric appliance measures to ensure comprehensive

2006 Low Income Energy Efficiency Annual Report
Table 1 (RRM Table 7.1)
SUMMARY OF COSTS: LOW INCOME
SOUTHERN CALIFORNIA EDISON
(Electric only)

LIEE Programs	2005		2006 Budget
	Budgeted	Recorded	
Energy Efficiency			
- Gas Appliances	\$ -	\$ -	\$ -
- Electric Appliances	20,971,520	17,693,102	21,211,081
- Weatherization	394,450	204,725	432,879
- Outreach & Assessment	2,817,745	1,742,046	2,252,500
- In Home Energy Education	518,400	660,838	397,500
- Education Workshops		-	
Energy Efficiency Total	24,702,115	20,300,710	24,293,960
Training Center	20,000	-	25,000
Inspections	555,000	154,183	393,300
Advertising	15,000	-	121,000
M&E Studies	195,000	17,899	58,000
Regulatory Compliance	70,000	53,432	50,000
Other Administration	1,772,885	2,053,863	2,388,740
Indirect Costs ^[1]		275,886	-
CPUC Energy Division	70,000	40,350	70,000
Shareholder Incentive		-	-
TOTAL COSTS	27,400,000	22,896,323	27,400,000

^[1] Not part of program authorized budget for 2005

2006 Low Income Energy Efficiency Annual Report
 Table 2 (RRM Table 7.2)
 SUMMARY OF LIEE PROGRAM EFFECTS
 SOUTHERN CALIFORNIA EDISON
 (Annual Energy Reduction)

	2005 (recorded)	2006 (planned)
mWh	19,240	24,115
mtherm	N/A	N/A

2006 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)

	2005			2006		
	Utility Cost Test	Total Resource Cost Test	Modified Participant Test	Utility Cost Test	Total Resource Cost Test	Modified Participant Test
LIEE programs						
Energy Efficiency	0.69	0.59	0.99	0.71	0.61	0.93

2006 Low Income Energy Efficiency Annual Report
 Table 4 (RRM Table 7.4)
 SUMMARY OF LIEE COST EFFECTIVENESS
 SOUTHERN CALIFORNIA EDISON
 (Net Benefits; \$ Millions)

	2005			2006		
	Utility Cost Test	Total Resource Cost Test	Modified Participant Test	Utility Cost Test	Total Resource Cost Test	Modified Participant Test
LIEE programs						
Energy Efficiency	\$ (6.9752)	\$ (9.3131)	\$ (0.1708)	\$ (7.9192)	\$ (10.6942)	\$ (1.9096)

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 the low-income energy efficiency programs. These tables provide all program costs, including costs expended in 2005.

Program Incentives (Recorded)

These costs represent incentives paid to contractors, including installation and measure costs during 2005 (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 2005 from the 2005 low-income energy efficiency program.

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

Costs represented in the Total Utility Costs column represent 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 program measures. SCE's incremental measure costs for the Low-income Energy Efficiency program equal the total installation and measure costs for installed measures. Thus, for all LIEE program measures, 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 program. The table provides detail of program costs expended in 2005.

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 Total Costs are 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 2005, direct program costs, and the number of dwellings served.

Also, an estimate of the total dwellings that will receive program services in 2006 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 2005, 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 measure, 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 2005; 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 2005 through 2029.

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

The table lists for the 2003, 2004, and 2005 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

2006 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)

	UTILITY COSTS						Incremental Measure Costs
	Program Incentives (Recorded) ^[1]		Admin Costs	Shareholder Incentives	Other Costs ^[2]	Total Utility Costs	
	Actual	Committed					
LIEE programs							
Energy Efficiency	\$ 17,897,827	\$ -	\$ 2,053,863	\$ -	\$ 2,668,747	\$ 22,620,436	\$ 17,859,411

^[1] Expenses related to direct installation

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

2006 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 - 2005			
	Labor	Non-Labor	Contract	Total
Energy Efficiency				
- Gas Appliances	-	-		-
- Electric Appliances			17,693,102	17,693,102
- Weatherization			204,725	204,725
- Outreach & Assessment			1,742,046	1,742,046
- In Home Energy Education			660,838	660,838
- Education Workshops				-
Energy Efficiency Total	-	-	20,300,710	20,300,710
Training Center				-
Inspections			154,183	154,183
Advertising				-
M&E Studies	17,899			17,899
Regulatory Compliance	53,432			53,432
Other Administration	1,625,901	427,962		2,053,863
Indirect Costs	275,886			275,886
Oversight Costs				-
- LIAB Start-up				-
- LIAB PY 2001				-
- LIAB PY 2002				-
- CPUC Energy Division		40,350		40,350
Total Oversight Costs	-	40,350	-	40,350
Shareholder Incentive		-		-
				-
TOTAL COSTS	1,973,118	468,311	20,454,893	22,896,323

2006 Low Income Energy Efficiency Annual Report
 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		
	2005 (mWh)	2005 (mTherm*)	2005 Expenses [1]	2005 (Planned)	2005 (Actual)	2006 (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	6,669,304		\$ 7,781,791		12,940	
Multi Family	102,788		\$ 170,906		223	
Mobile Home	1,229,490		\$ 1,576,150		2,462	
Sub Total Dwellings Served	8,001,582		\$ 9,528,847		15,625	
Electric Heat – Rent						
Single Family	6,446,810		\$ 6,819,365		10,298	
Multi Family	4,579,232		\$ 6,001,260		10,117	
Mobile Home	212,136		\$ 270,964		380	
Sub Total Dwellings Served	11,238,178		\$ 13,091,589		20,795	
TOTAL DWELLINGS SERVED	19,239,760		\$ 22,620,436		36,420	

* millions of Therms

[1] - excluding indirect program costs

2006 Low Income Energy Efficiency Annual Report
Table TA 4 (RRM Table TA 7.4)
PROGRAM DETAIL BY MEASURE
SOUTHERN CALIFORNIA EDISON

	Energy Saved and Program Costs 2005			Number of Dwellings Served 2005
	(mWh)	(mTherm)	Expenses	Actual Dwellings Served
Furnaces Gas				
Repair				
Replacement				
Total Furnaces Gas				
Infiltration & Space Conditioning				
Weatherization Savigns (Table TA 4A)				
Caulking	0		\$ 2,214	82
Weatherstripping	2		\$ 64,080	710
Duct Repair ⁽¹⁾	-			0
Cover Plate Gaskets	3		\$ 24,494	864
Covers	1		\$ 2,940	58
Minor Home Repairs	6		\$ 60,565	560
Glass Replacements				0
Wall Repair (exterior)				0
Door Repair				0
Door Replacement				0
Threshold Installed				0
Attic Ventilation				0
Attic Insulation	0		\$ 2,852	4
Attic Access Weatherstripping	0		\$ 126	3
HVAC Air Filter Replacement				0
Total Infiltration & Space Conditioning	13		\$ 157,271	
Water Heating Savings				
Water Heater Blanket	16		\$ 6,210	157
Low Flow Showerhead	56		\$ 26,834	765
Water Heater Pipe Wrap	1		\$ 504	15
Faucet Aerators	47		\$ 25,759	913
Total Water Heating Savings	119		\$ 59,307	
Minor Home Repairs (other than above)	-			0
Miscellaneous Measures	-		\$ 2,152	68
Evaporative Cooler Installation	781		\$ 2,030,026	2,571
Evaporative Cooler Maintenance	0		\$ 507	6
Duct Testing & Sealing	-		\$ -	0
T-Stat	-		\$ -	0
Window AC	52		\$ 153,638	198
Central AC	-		\$ -	0
Water Heater Replacement	-		\$ -	0
Refrigerator Replacement	14,851		\$ 14,501,037	19,905
Porch Light Fixture	8		\$ 21,682	187
Compact Fluorescents (includes porch lights)	3,415		\$ 1,773,042	31,077
Energy Education				
Outreach & Assessment ⁽²⁾	-		\$ 2,273,271	36,420
In-Home Education	-		\$ 1,648,504	67,713
Education Workshops	-			-
Total Energy Education	-		\$ 3,921,775	

* 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

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 Table TA 5 (RRM Table 7.5)
 INSTALLATION COSTS OF LIEE PROGRAM INSTALLATION CONTRACTORS
 SOUTHERN CALIFORNIA EDISON

	Unit of Measure	CBOWMDVBE			Non-CBOWMDVBE			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	54	54	\$ 429	28	28	\$ 214	82	82	\$ 643
Weatherstripping	Each	370	370	\$ 21,337	340	340	\$ 29,134	710	710	\$ 50,471
Minor Home Repair	Home	283	283	\$ 19,275	277	277	\$ 30,561	560	560	\$ 49,836
Cover Plates/Gaskets	Home	799	570	\$ 3,854	433	294	\$ 4,086	1,232	864	\$ 7,940
Evaporative Cooler/Air Cond. Covers	Each	25	24	\$ 706	40	34	\$ 1,123	65	58	\$ 1,829
Window Replacements	Each	-	-	\$	-	-	\$	-	-	\$
Glass Replacements	Sq. Ft.	-	-	\$	-	-	\$	-	-	\$
Wall Repair (exterior)	Home	-	-	\$	-	-	\$	-	-	\$
Door Repair	Each	-	-	\$	-	-	\$	-	-	\$
Door Replacement	Each	-	-	\$	-	-	\$	-	-	\$
Threshold Installed	Each	-	-	\$	-	-	\$	-	-	\$
Attic Ventilation	Home	-	-	\$	-	-	\$	-	-	\$
Attic Insulation	Home	2	2	\$ 1,600	2	2	\$ 1,176	4	4	\$ 2,776
Attic Access Weatherstripping	Each	1	1	\$ 23	2	2	\$ 46	3	3	\$ 69
HVAC Air Filter Replacement	Each	-	-	\$	-	-	\$	-	-	\$
Water Heating Savings										
Water Heater Blanket	Each	16	16	\$ 718	146	141	\$ 2,389	162	157	\$ 3,107
Low Flow Showerhead	Each	627	588	\$ 9,590	189	177	\$ 2,510	816	765	\$ 12,101
Water Heater Pipe Wrap	Home	7	7	\$ 101	8	8	\$ 116	15	15	\$ 217
Faucet Aerators	Each	1,127	601	\$ 5,635	571	312	\$ 2,632	1,698	913	\$ 8,267
Minor Home Repairs (other than above)	Home	-	-	\$	-	-	\$	-	-	\$
Miscellaneous Measures										
Evaporative Cooler Installation	Each	45	42	\$ 680	28	26	\$ 26	73	68	\$ 680
Evaporative Cooler Maintenance	Each	2,177	2,177	\$ 1,687,175	394	394	\$ 305,350	2,571	2,571	\$ 1,992,525
Duct Testing and Cooling	Each	-	-	\$	-	6	\$ 6	420	6	\$ 6
T-Stat	Each	-	-	\$	-	-	\$	-	-	\$
Window AC	Each	165	164	\$ 123,750	36	34	\$ 27,000	201	198	\$ 150,750
Central AC	Each	-	-	\$	-	-	\$	-	-	\$
Water Heater Replacement	Each	-	-	\$	-	-	\$	-	-	\$
Refrigerator Replacement ^[1]	Each	18,275	18,275	\$ 3,115,525	1,630	1,630	\$ 285,250	19,905	19,905	\$ 3,400,775
Compact Fluorescents (inc. porchlights)	Each	103,613	22,205	\$ 432,357	43,249	9,059	\$ 173,209	146,862	31,264	\$ 605,566
Home Assessment	Home	26,176	26,176	\$ 1,275,851	10,244	10,244	\$ 472,905	36,420	36,420	\$ 1,748,756
Outreach Education Administration ^[2]	Home	11,477	11,477	\$ 175,705	56,236	56,236	\$ 369,960	67,713	67,713	\$ 545,665

[1] Included installation that completed by LIHEAP contractors
 [2] Included implementation and qualification fee for WX program

2006 Low Income Energy Efficiency Annual Report
 TABLE TA 6 (RRM Table TA 7.6)
 PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2005)
 SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
Evaporative Cooler Installation				
	CBO Participants	Service Provider 1	8%	
		Service Provider 2	12%	
		Service Provider 3	6%	
		Service Provider 4	27%	
		Service Provider 5	0%	
		Subtotal	53%	
	Non-CBO Participants	Service Provider 1	15%	
		Service Provider 2	0%	
		Service Provider 3	32%	Yes
		Subtotal	47%	
Evaporative Cooler Maintenance				
	CBO Participants	Service Provider 1	100%	
		Subtotal	100%	
	Non-CBO Participants	N/A	0%	
		Subtotal	0%	
Home Assessment				
	CBO Participants	Service Provider 1	3%	
		Service Provider 2	1%	
		Service Provider 3	8%	
		Service Provider 4	1%	
		Service Provider 5	1%	
		Service Provider 6	33%	
		Service Provider 7	9%	
		Service Provider 8	2%	
		Service Provider 9	8%	
		Subtotal	65%	
	Non-CBO Participants	Service Provider 1	7%	
		Service Provider 2	18%	
		Service Provider 3	2%	Yes
		Service Provider 4	8%	Yes
		Service Provider 5	4%	
		Service Provider 6	1%	
		Subtotal	40%	

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TABLE TA 6 (RRM Table TA 7.6)

PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2005)
SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
In Home Energy Education				
	CBO Participants	Service Provider 1	0%	
		Service Provider 2	0%	
		Service Provider 3	1%	
		Service Provider 4	7%	
		Service Provider 5	5%	
		Service Provider 6	1%	
		Service Provider 7	0%	
		Subtotal	13%	
	Non-CBO Participants	Service Provider 1	3%	
		Service Provider 2	0%	Yes
		Service Provider 3	78%	
		Service Provider 4	4%	Yes
		Service Provider 5	2%	
		Subtotal	87%	
Porch Light Fixture with CFL				
	CBO Participants	Service Provider 1	17%	
		Service Provider 2	56%	
		Service Provider 3	13%	
		Service Provider 4	7%	
		Subtotal	93%	
	Non-CBO Participants	Service Provider 1	2%	
		Service Provider 2	6%	Yes
		Subtotal	7%	

2006 Low Income Energy Efficiency Annual Report

TABLE TA 6 (RRM Table TA 7.6)

PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2005)
SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
Refrigerator Replacement				
	CBO Participants	Service Provider 1	2%	
		Service Provider 2	1%	
		Service Provider 3	10%	
		Service Provider 4	0%	
		Service Provider 5	43%	
		Service Provider 6	0%	
		Service Provider 7	13%	
		Service Provider 8	3%	
		Service Provider 9	5%	
		Subtotal	78%	
	Non-CBO Participants	Service Provider 1	8%	
		Service Provider 2	5%	Yes
		Service Provider 3	10%	Yes
		Subtotal	22%	
Relamping (Indoor & Outdoor)				
	CBO Participants	Service Provider 1	2%	
		Service Provider 2	8%	
		Service Provider 3	3%	
		Service Provider 4	31%	
		Service Provider 5	8%	
		Service Provider 6	2%	
		Service Provider 7	8%	
		Subtotal	63%	
	Non-CBO Participants	Service Provider 1	7%	
		Service Provider 2	17%	
		Service Provider 3	1%	Yes
		Service Provider 4	7%	Yes
		Service Provider 5	5%	
		Service Provider 6	1%	
		Subtotal	37%	

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TABLE TA 6 (RRM Table TA 7.6)

PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION (2005)
SOUTHERN CALIFORNIA EDISON

Program	Contractor Classification	Vendor Number	% Dwellings Completed	WMDVBE Certified (Yes or No)
Room Air Conditioner				
	CBO Participants	Service Provider 1	3%	
		Service Provider 2	26%	
		Service Provider 3	3%	
		Service Provider 4	39%	
		Service Provider 5	3%	
		Subtotal	74%	
	Non-CBO Participants	Service Provider 1	17%	
		Service Provider 2	9%	Yes
		Subtotal	26%	
Weatherization				
	CBO Participants	Service Provider 1	1/40	
		Service Provider 2	1/53	
		Service Provider 3	21/44	
		Service Provider 4	1/30	
		Subtotal	55%	
	Non-CBO Participants	Service Provider 1	3%	
		Service Provider 2	10%	
		Service Provider 3	6%	Yes
		Service Provider 4	24%	
		Service Provider 5	3%	Yes
		Subtotal	45%	

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 TABLE TA 7.7 (RRM Table 7.7)
 LIFE CYCLE BILL SAVINGS (2005)
 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 Access Weatherstripping MF	1	-	1.1	-	5	\$ 1
Attic Access Weatherstripping SF	2	-	3.6	-	5	\$ 3
Attic Insulation MF	1	-	149.9	-	25	\$ 225
Attic Insulation SF	3	3	237.5	302.0	25	\$ 2,433
Caulking MF	64	10	7.6	0.9	5	\$ 230
Caulking MH	0	-	-	-	5	\$ -
Caulking SF	18	3	10.6	1.9	5	\$ 90
CFL (Indoor) MF	-	34,203	-	16.4	8	\$ 386,660
CFL (Indoor) MH	-	8,319	-	16.4	8	\$ 94,045
CFL (Indoor) SF	-	74,554	-	23.7	8	\$ 1,217,982
CFL (Outdoor) MF	-	6,829	-	16.4	5	\$ 51,714
CFL (Outdoor) MH	-	2,062	-	16.4	5	\$ 15,615
CFL (Outdoor) SF	-	20,672	-	23.7	5	\$ 226,224
Evaporative Cooler Cover MF	56	2	6.7	-	3	\$ 109
Evaporative Cooler Cover SF	9	2	10.0	-	3	\$ 26
Evaporative Cooler Installation MF	-	27	-	91.0	15	\$ 2,721
Evaporative Cooler Installation MH	-	280	-	379.6	15	\$ 117,667
Evaporative Cooler Installation SF	-	2,264	-	297.1	15	\$ 744,536
Evaporative Cooler Maintenance MF	-	-	-	-	4	\$ -
Evaporative Cooler Maintenance MH	-	4	-	35.6	4	\$ 54
Evaporative Cooler Maintenance SF	-	2	-	37.9	4	\$ 29
Faucet Aerator MF	-	853	-	26.5	5	\$ 10,438
Faucet Aerator MH	-	7	-	26.5	5	\$ 86
Faucet Aerator SF	-	53	-	43.4	5	\$ 1,062
Low Flow Showerhead MF	-	696	-	66.6	10	\$ 38,174
Low Flow Showerhead MH	-	5	-	66.6	10	\$ 274
Low Flow Showerhead SF	-	64	-	108.7	10	\$ 5,729
Minor Home Repair MF	514	63	21.3	6.6	10	\$ 9,368
Minor Home Repair MH	3	-	30.3	-	10	\$ 75
Minor Home Repair SF	43	3	33.3	9.5	10	\$ 1,201
Porchlight Fixture MF	-	5	-	24.2	16	\$ 140
Porchlight Fixture MH	-	2	-	24.2	16	\$ 56
Porchlight Fixture SF	-	216	-	35.6	16	\$ 8,888
Refrigerator Replacement MF	-	5,769	-	665.1	18	\$ 4,783,652
Refrigerator Replacement MH	-	1,703	-	665.1	18	\$ 1,412,127
Refrigerator Replacement SF	-	12,433	-	794.8	18	\$ 12,319,863
Room AC MF	-	23	-	130.8	15	\$ 3,331
Room AC MH	-	46	-	326.9	15	\$ 16,649
Room AC SF	-	132	-	256.2	15	\$ 37,430
Switch Plate Gasket MF	792	308	3.4	-0.1	15	\$ 2,946
Switch Plate Gasket MH	6	2	5.6	0.2	15	\$ 38
Switch Plate Gasket SF	66	9	5.6	0.2	15	\$ 412
Water Heater Blanket MF	-	150	-	88.5	5	\$ 6,130
Water Heater Blanket MH	-	3	-	88.5	5	\$ 123
Water Heater Blanket SF	-	29	-	145.3	5	\$ 1,946
Water Heater Pipe Wrap MF	-	6	-	35.4	15	\$ 235
Water Heater Pipe Wrap MH	-	-	-	-	15	\$ -
Water Heater Pipe Wrap SF	-	9	-	58.1	15	\$ 579
Weatherstripping MF	627	88	12.4	1.1	5	\$ 3,646
Weatherstripping MH	8	4	14.3	3.4	5	\$ 59
Weatherstripping SF	75	12	20.9	3.7	5	\$ 745
Total Bill Savings for All Measures In Program Year						\$ 21,525,766

Total Number of Homes Served by the Program during Program Year **36,420**

Life Cycle Bill Savings Per Home **\$ 591.04**

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TABLE TA 8 (RRM Table TA 7.8)

**ENERGY RATES USED FOR BILL SAVINGS
CALCULATIONS**

SOUTHERN CALIFORNIA EDISON

Year	\$/kWh	\$/Therm
2005	0.1209	
2006	0.1245	
2007	0.1283	
2008	0.1321	
2009	0.1361	
2010	0.1402	
2011	0.1444	
2012	0.1487	
2013	0.1532	
2014	0.1577	
2015	0.1625	
2016	0.1674	
2017	0.1724	
2018	0.1775	
2019	0.1829	
2020	0.1884	
2021	0.1940	
2022	0.1998	
2023	0.2058	
2024	0.2120	
2025	0.2184	
2026	0.2249	
2027	0.2317	
2028	0.2386	
2029	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
2003	\$ 18,664,181	\$ 18,580,684	1.00	\$ 550.83
2004	\$ 15,997,665	\$ 15,831,079	1.00	\$ 423.88
2005	\$ 22,620,436	\$ 21,525,766	0.95	\$ 591.04