

**LOW INCOME
ENERGY EFFICIENCY PROGRAMS
ANNUAL SUMMARY AND
TECHNICAL APPENDIX**

2001 Results

May 2002




A  Sempra Energy™ company

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Executive Summary

Overview

This report on San Diego Gas and Electric's Low Income Energy Efficiency (LIEE) Programs provides information on the activities, results, benefits and costs of the PY2001 program, including that portion of the program funded by legislation (SBX1 5). This report also provides the foundation for SDG&E's PY2001 shareholder incentive earnings claim.

SDG&E offers the low income customer two separate Low Income Energy Efficiency (LIEE) programs: the Direct Assistance Program (DAP) and the Energy Education for Low Income Program (EELI). DAP provides weatherization services, energy efficient lighting, energy efficient appliances, and energy education at no cost to qualified gas and electric customers. EELI offers energy education to provide customers with the knowledge needed to conserve their energy use and exercise more control over their energy bills.

Program Activities

SDG&E participated, along with Pacific Gas & Electric (PG&E), in a stand alone attic venting pilot through June 2001, the results of which were filed with the Commission on April 24, 2002.

In addition to providing DAP and EELI services to the low income customer, SDG&E participated on several statewide teams with the other California large investor-owned utilities under the direction of the California Public Utilities Commission. The teams worked to complete standardization efforts, update reporting requirements, update cost-effectiveness tests for LIEE programs, conduct a process and load impact evaluation of PY2000, provide comparable bill savings documentation, and recommend methods of comparing programs (including program costs) across the utilities.

Program Results

During PY2001, DAP served a total of 19,315 homes, weatherizing 9,527 homes using program funds and 1,857 homes using SBX1 5 funds. SDG&E also installed 5,484 refrigerators, 379 air conditioners, 423 water heaters, and repaired or replaced 1,095 furnaces. EELI provided energy education to 36,577 SDG&E customers. Total program expenditures were \$11.5 million.

Program Benefits

Weatherization and appliance installations resulted in first-year energy savings of 5,902 mWh and 247 mTherms. Average per home lifecycle bill savings for the program are \$359. Additionally, the program services improved upon the comfort, health and safety of the low income customers.

Program Costs

Total cost of the program was \$11.5 million, of which \$11.23 million was spent on DAP and \$.28 million was spent on EELI. Of the \$11.23 million spent on DAP, \$3.4 million was from SBX1 5 funds.

Shareholder Incentive

SDG&E met the minimum performance standard of 150,921 therm savings to qualify for shareholder incentives through the installations of the "Big Six" measures and is requesting \$214,881 in shareholder incentives, not including interest, franchise fees and uncollectibles.

Low Income Energy Efficiency Programs

Program Summary

SDG&E offers the low income customer two separate Low Income Energy Efficiency (LIEE) programs: the Direct Assistance Program (DAP) and the Energy Education for Low Income Program (EELI). SDG&E contracts with an outside consultant to manage the field activities of both of its LIEE programs. Under DAP the consultant also performs outreach to customers, and provides in-home energy education and assessment of the home. The consultant subcontracts the DAP weatherization and a portion of the Heating, Ventilation and Air Conditioning (HVAC) work to licensed contractors and the EELI education workshops to community based organizations and agencies within the low income community.

DAP is designed to help low income residential customers control energy costs by providing free weatherization, energy efficient lighting, appliance services, and energy conservation education. Communities targeted for DAP participation by SDG&E are those where a majority of the households are at or below the income guidelines established by the California Public Utilities Commission (CPUC) for the utilities' low income programs. Customers must meet the LIEE program income eligibility guidelines adopted by the Commission and the program's structural criteria in order to receive no cost home weatherization, lighting and appliance services.

SDG&E's second LIEE program, EELI, is designed to educate low income residential customers on how to alter and/or change their energy usage by modifying certain household energy consumption patterns and habits. This program offers education in various languages including English, Spanish, African, Arabic, Asian, Eastern European, Laotian, Middle Eastern, Russian, and Vietnamese. Outreach for the EELI program is achieved through a continued presence in the low income community and through education services that are delivered through a network of local agencies that provide services to SDG&E's culturally diverse low income population.

In May of 2001, SBX1 5 was passed by the state legislature, authorizing the California Public Utilities to provide SDG&E with an additional \$11.2 million from the state's General Fund to provide low income customers with weatherization, energy efficient replacement lighting and appliances. SDG&E spent \$3.4 million of these funds during 2001 under what is known as the Rapid Deployment (RD) LIEE program or the SBX1 5 LIEE program.

As reported in Table 1.1 and Table TA 2.1, SDG&E spent a total of \$11.5 million on its base LIEE programs and RD LIEE (\$7.8 million on its DAP, \$.28 million on EELI and \$3.4 million on RD LIEE), excluding shareholder incentives. Annual energy savings realized from these expenditures are 5,902 mWh and 247 mTherms. The total resource cost ratio of the program is .24, the utility cost ratio is .40, and the modified participant ratio is .82¹.

¹ The UC and mPC as reported for SDG&E was calculated using the model developed by the RRM Working Group's cost-effectiveness team. Submitted for Commission review on April 8, 2002; the tests include the quantification of non-energy benefits associated with the utilities' LIEE programs.

PY2001 Low Income Energy Efficiency (LIEE) Program

DAP and RD LIEE

In response to the increased prices for electricity experienced in San Diego in the summer of 2000, SDG&E filed Advice Letter 1239-E/1207-G requesting authorization to expend unspent balancing account funds to enhance its PY2000 and PY2001 LIEE program. After authorization was received from the Commission in Resolution E-3703, dated September 7, 2000, SDG&E was increased its 2000 and 2001 DAP goal for weatherization by 1,000 homes.

DAP met its increased weatherization goal for PY2001, weatherizing 9,527 homes. Using SBX1 5 funds, SDG&E was able to weatherize additional 1,857 homes--bringing the total homes weatherized for the program year to 11,384. SDG&E also installed numerous energy efficiency measures including 5,484 refrigerators, 379 air conditioners, 423 water heaters, and repaired or replaced 1,095 furnaces.

Outreach efforts during the program year were increased through: (1) Memorandums Of Understanding (MOUs) with Low Income Home Energy Assistance Program (LIHEAP) agencies and Native American Tribal Associations; (2) increased marketing to low income customers residing in rural areas; and, (3) other media reports and interviews as reported in SDG&E's "Monthly Report on Rapid Deployment, Table A," and included herein as Appendix A. Additionally, SDG&E included LIEE program information in all of its outreach efforts to the low income community regarding its California Alternative Rates for Energy (CARE) rate discount program.

Further program outreach was achieved by SDG&E providing the its LIEE consultant with a list of customers receiving CARE discounts and information on communities where a majority of customers qualify for low income services. The consultant canvassed the neighborhoods to enroll qualified customers in the LIEE programs and also worked with a network of local community organizations to inform customers about LIEE programs. To provide services authorized under SBX1 5, SDG&E performed outreach and assessment to homes of customers who previously participated in the DAP in an effort to ensure that the RD appliance measures not previously offered were made available where needed. As a result of the expanded outreach effort, a total of 19,315 low income households were contacted for services. In-home energy conservation education and compact fluorescent lightbulbs were also offered at the time of the marketing, outreach and assessment of each unit, if they had not been previously provided.

Weatherization measures included ceiling insulation, water heater blankets weatherstripping and caulking, minor home repairs, low flow showerheads, faucet aerators, outlet gaskets, water heater pipe wrap, and evaporative cooler covers.

Energy efficient appliances included minor furnace repair (rental units), and major repair and replacements (for owner-occupied units only), refrigerators, energy efficient porch-light fixtures, and evaporative coolers. For the PYs 2001 and 2002 RD program, the Commission added window/wall and central replacement air conditioners, duct sealing and repair, whole house fans, water heater replacements, setback thermostats, central returns, and evaporative cooler maintenance to the RD program. (See Tables TA4 and TA5 for detailed information on measures installed.)

SDG&E also conducted a Stand Alone Attic Ventilation Pilot Study.² The pilot's objective was to provide the Commission with information on the cost and energy savings associated with installing attic ventilation as a stand-alone measure in attics that did not require attic insulation but did require ventilation to meet LIEE program standards. The results of this pilot were submitted in a joint filing by SDG&E and PG&E on April 24, 2002 in compliance with the Commission Decision (D.) 01-06-082.

EELI

During PY2001, the EELI program educated 36,577 (6,577 over SDG&E's target goal of 30,000) low income residential customers on how to alter and/or change their energy usage by modifying certain household energy consumption patterns and habits at a cost of \$282,536. The EELI program was provided through a network of local community based organizations (CBOs) (see Appendix B) that serve low income clientele including agencies serving the "underserved" and "hard-to-reach" population in SDG&E's service territory. EELI is offered in various languages (such as English, Spanish, African, Arabic, Asian, Eastern European, Laotian, Middle Eastern, Russian, and Vietnamese) and informs customers on how energy is being consumed in their homes and provides them with methods of reducing energy costs through energy conservation. Other SDG&E assistance programs are discussed with EELI participants including DAP, CARE, Medical Baseline, and Level Pay Plan.

EELI is comprised of the following delivery methods:

- The Energy Practices Survey consists of a simple energy-use checklist that, when completed by the customer, provides immediate feedback on the cost of various energy-use practices. The survey is provided in English, Spanish, Somali, Arabic, Russian, Laotian, and Vietnamese.
- The Energy Conservation Video reviews energy and money saving information and provides cost information on many day-to-day energy uses.

EELI workshops were also held at senior centers and adult education facilities during PY2001 in an effort to reach seniors and other special interest customers outside of the EELI provider network.

Regulatory Compliance and Oversight, Measurement and Evaluation (M&E)

Activities

Regulatory Compliance and Oversight

SDG&E complied with PUC Code Sections 327 and 381.5. Section 327 (1) directs that utility program funds are to be leveraged with state and federal funds while, 381.5 states the intent of the Legislature is to strengthen the network of local community service providers. The CBOs in SDG&E's program leverage their LIEE funding with funding they receive under the state's Low Income Home Energy Assistance Program (LIHEAP) weatherization efforts. Local CBOs and

² Conducted per Commission Resolution E-3586.

other community organizations also provided energy education to customers in conjunction with their other community services offerings.

Additionally, the Commission directed the utilities to implement new leveraging opportunities when expending SBX1 5 funds. SDG&E complied with this Commission direction by providing refrigerators to community service providers at discounted costs or providing replacement refrigerators directly to their LIHEAP clients and recycling the units that were removed. SDG&E also extended its LIEE program efforts to coordinate and leverage with the LIHEAP efforts of the Orange County Community Development Corporation (OCCDC), a Community Action Agency, which serves low income customers residing on the northern edge of SDG&E's service territory

Section 2790 of PUC Code mandates that the LIEE programs provide as many program measures as feasible to the customers served in the program. Consistent with this legislation and CPUC statewide policy, SDG&E's program installed all feasible Commission-authorized LIEE program measures to the homes served by DAP during PY2001. Additionally, SDG&E revisited customers who had received weatherization services under DAP, prior to the SBX1 5 RD funding being made available, to provide the new measures authorized by the Commission under RD. (See Table TA 4 for a list of all measures included in SDG&E's PY2001 LIEE program.)

During PY 2001 SDG&E also worked consistently with the other California investor-owned utilities (IOUs) and the Energy Division on several Commission-directed activities. In D. 00-07-020 and in low income proceeding R. 01-08-027, the Commission directed the utilities to complete statewide measure installation, policy and procedures standardization efforts, update program reporting requirements, develop updated cost-effectiveness tests for LIEE programs, provide comparable bill savings documentation, and recommend methods of comparing programs (including program costs and benefits) across the utilities. In response to the Commission's direction, several inter-utility teams were formed and, with guidance from the Energy Division and input from the Office of Ratepayer Advocates and the interested public, the teams achieved the following results during PY2001:

- Statewide LIEE program policies and procedures were developed by the utilities and adopted by the Commission for use in PY2002.³
- A statewide LIEE PY2000 process evaluation and impact study was conducted.⁴
- Monthly comparative reports on RD and base LIEE program accomplishments were developed and filed beginning in June of 2001.⁵
- A new cost-effectiveness test, the Low Income Public Purpose Test (LIPPT), was filed with the Commission on April 14, 2001. The test allocated quantitative values to non-energy benefits (NEBs) associated with the LIEE weatherization program.
- Though the LIPPT was not adopted by the Commission as a LIEE program evaluation tool, the Commission directed the utilities to use the NEBs to develop a low income program

³ Commission Decision 01-12-020, dated 12/11/01.

⁴ Filed with the Commission on April 24, 2002.

⁵ Per the Rapid Deployment Decision (D.) 01-05-033.

utility cost (UC) test and a low income participant cost (PC) test at both the program level and measure level.⁶ A report on the findings, "LIEE Program and Measure Cost Effectiveness Report", was filed jointly by the utilities on April 8, 2002. SDG&E's UC and modified PC test for PY2001 have been included in Table 3. Even though the Commission has not yet approved the report's recommendations, the IOUs agreed that it was the intent of the Commission that these tests be used in assessing the 2001 program.

- The Reporting Requirements Manual was modified to include the reporting of information on CBO participation and bill savings in this proceeding.⁷
- An update to the comparative Joint Utility LIEE Program Costs and Bill Savings Standardization Report⁸ is being filed on behalf of the IOUs by PG&E as part of this proceeding.

Measurement and Evaluation (M&E) Activities

During PY2001, the investor-owned utilities (IOUs) conducted a statewide process evaluation and first year load impact study of PY2000, the results of which were filed as Study No. 576, "Impact Evaluation and Process Evaluation of the 2000 Statewide Low-Income Energy Efficiency (LIEE) Program" on April 24, 2002 by Southern California Edison on behalf of the IOUs. Saving estimates from this study are to be used in planning PY2003 savings.

Energy-related Hardship

SDG&E's LIEE program was able to provide customers with more control over their utility bills, reduce air leakage rates and drafts in their homes, and make the dwellings more secure. SDG&E's LIEE program impacted the low income customer's energy-related hardship by increasing comfort, health, and safety. The new UC test and modified PC test uses the quantification of these benefits, as described in the "LIEE Program and Measure Cost Effectiveness Report" to capture the cost-effectiveness of the utilities' programs when non-energy hardship benefits are part of the evaluation methodology.

Both the in-home energy education component of DAP and the Energy Practices Survey and Energy Conservation Video components of the EELI program offered customers information on the costs of certain energy use behaviors and provided recommendations on how they could reduce their energy costs by modifying those behaviors. This information provided the low income customer the knowledge needed to conserve their energy use, thereby giving them the opportunity to have more control over their utility bills. Installation of DAP weatherization measures, energy efficient lighting and energy efficient appliances helped to better control the amount of energy needed in the home. By providing minor home repairs, such as damaged door and broken window replacement, along with weatherization measures, the comfort, health and safety of the low income customers was positively impacted. Repairing and replacing customers' furnaces had a similar impact upon customers' comfort, health and safety.

⁶ Per D. 01-12-020.

⁷ Filed with the Commission on January 10, 2002.

⁸ Filed with the Commission on February 1, 2001; Revised March 5, 2001.

As part of the PY2000 Process Evaluation, SDG&E customers were surveyed to assess their satisfaction with the program. A portion of that survey devoted questions to increased comfort and safety. The findings of the survey showed that 48% of SDG&E's customers reported increased comfort as a result of the services provided and 62% of SDG&E's customers reported feeling safer as a result of program improvements.

Community Based Organizations, Leveraging and Access to Community Services

CBO Participation

SDG&E contracted with Richard Heath & Associates, a Diverse Business Enterprise (DBE) contractor, to market and manage its PY2001 Direct Assistance Program (DAP). RHA subcontracted for weatherization services with two CBOs: (1) Campesinos Unidos, Inc. (CUI) and, (2) Metropolitan Area Advisory Committee (MAAC): and three private companies: (3) Capital State Construction, (4) Rancho Energy Services Co. (RESCO), and (5) Western Insulation. RHA also subcontracted with four licensed HVAC companies, as well as participating themselves, to provide the gas furnace repair and replacement services offered through the DAP. RHA completed all furnace inspections for DAP. The furnace subcontractors participating in PY 2001 included: (1) Ameri-Mex, (2) Jade Mechanical, (3) Jerry's Heating and Air Conditioning, and (4) South Bay Mechanical. Tables TA 5 and TA 6 report on the level of participation by contractor types.

SDG&E also contracted with RHA to manage the EELI program. EELI, through one-on-one energy education sessions and group workshops, enables the low income customer to make informed decisions about his or her energy use habits and reduce household energy costs. RHA subcontracted with a network of local non-profit agencies and CBOs that provided services and assistance to SDG&E's culturally diverse low income population. Tables TA 6 includes agency participation levels in EELI for PY2001 and Appendix B provides a list of all subcontractors providing EELI services.

Leveraging

The Low Income Home Energy Assistance Program (LIHEAP) Block Grant is funded by the federal Department of Health and Human Services (DHHS) and provides two basic types of service through the Department of Community Services and Development (DCSD):

- (1) financial assistance to offset the costs of heating and/or cooling dwellings
- (2) weatherization work to make the dwelling more energy efficient

Community based organizations are eligible to apply for federal leveraged dollars for installed weatherization measures under the LIHEAP Block Grant program. In SDG&E's service territory, two CBOs, CUI and MAAC, participated in the LIHEAP Leveraging Incentive Program. These two agencies were able to submit \$1.2 million in SDG&E-leveraged resources for fiscal year October 1, 2000, through September 30, 2001, to DCSD, the Block Grant administrator. The LIHEAP leveraging report submitted by CUI and MAAC included the funds they received from SDG&E for the actual costs of materials and labor used to install energy efficient measures through the DAP.

Additional leveraging was implemented during PY2001 as directed by the Commission in the rapid deployment decision D. 01-05-033. SDG&E and its contract administrator arranged several MOUs in order to leverage RD LIEE with local agencies. Additional details on these MOUs can be found in Appendix A.

Access to Other Low Income Services

SDG&E has not altered its LIEE referral systems, discussed in its October 2, 2000⁹ compliance filing, which identify the needs of participating low income customers participating in the DAP and refers them to local CBOs and other community agencies. Both RHA and all of its subcontractors continue to identify both the energy needs and non-energy needs of the low income customer during the structural assessment, application process, energy education, and installation of weatherization measures and appliances, and make appropriate referrals to utility programs, state energy programs, and community agencies. Types of non-energy services provided by the community agencies in SDG&E's LIEE program include:

- Emergency food and clothing
- Shelter and housing
- High school equivalency instruction, English as a second language instruction, and math instruction
- Employment counseling
- Job Training
- Cultural Activities
- Translating Services
- Individual and Family Counseling
- Health Services
- Anger Management
- Substance Abuse Counseling
- Parenting and Money Management Classes
- Assistance Programs Tailored to Children
- Assistance Programs Tailored to Seniors

Bill Savings

Table TA 7 reports lifecycle bill savings by measure, by fuel type, and combined for PY2001; Table TA 8 reports the energy rates used for calculating the bill savings; and Table TA 9 reports the bill savings and the cost ratio for SDG&E's LIEE programs over the last three years.

⁹ Report of San Diego Gas & Electric company in Compliance with Ordering Paragraph 10 of Commission Decision (D.) 00-07-020.

PG&E, on behalf of the all four IOUs, is filing with their AEAP Low Income Energy Efficiency Report, how bill savings information was updated from the original information filed in the Program Costs and Bill Savings Standardization Report and including in that filing a revised 2001 Bill Savings Report

Shareholder Performance Incentives for Low Income Activities

SDG&E achieved the required threshold savings of 150,921 therms to qualify for shareholder incentives through the installations of the Big Six measures¹⁰. SDG&E's shareholder incentive for the 2001 LIEE program is \$214,881 (2% times \$10,744,050 in program expenditures¹¹). Therefore, SDG&E's earnings claim for the PY 2001 LIEE program is \$107,441 plus interest (from July 1, 2002 through December 2002), franchise fees, and uncollectibles. The remaining 50 % of the adopted earnings claim will be authorized for recovery in the AEAP following completion of the program evaluation. SDG&E's request for earnings for its 2001 LIEE program is supported in the 2002 Annual Earnings Assessment Proceeding Testimony of San Diego Gas & Electric Company.

PY2002 Planned Low Income Energy Efficiency Program

PY2002 LIEE is a continuation of PY2001 per the Commission's Rapid Deployment Decision (D.) 01-05-033. SDG&E will continue to expend SBX1 5 funds for the installation of energy efficiency replacement appliances and weatherization services. SDG&E will also achieve its DAP goals for PY2002 of providing in-home energy education during outreach to 11,000 homes, weatherizing 8,500 units and providing 25,000 customers with Energy Education for Low Income. Goals under Rapid Deployment include weatherizing 1,000 homes, distributing 13,000 lightbulbs, and replacing 5,000 refrigerators. The planned budget for PY2002 is \$12.3 million, excluding shareholder incentives, and is comprised of \$5.3 million in ratepayer funds and \$7 million in SBX1 5 funds.

Planned PY 2002 Program Measurement and Evaluation Efforts

In 2002, Southern California Edison will manage a comprehensive evaluation of the PY2001 LIEE programs of all four major IOUs. A plan and budget for evaluating the new Rapid Deployment measures were filed and approved by the Commission in late 2001.¹² As indicated in the filed research plan and, in an attempt to inform and improve the PY2002 program design and PY2003 program planning efforts, the utilities find it prudent to include the evaluation of the new Rapid Deployment measures in a comprehensive review and evaluation of the entire PY2001 LIEE program. This overall evaluation will entail a process evaluation of the Rapid Deployment efforts as well as an impact evaluation of the existing LIEE measures. The objective is to assess process and customer satisfaction issues relating to Rapid Deployment. This effort will include a survey sampling of program participants statewide and interviews with statewide program administrators, implementers, CBOs, and contractors. As with the PY2000 process evaluation, the intent is to identify areas of best practice and provide recommendations

¹⁰ The Big Six Measures are: 1) attic insulation, 2) caulking, 3) weatherstripping, 4) low flow showerheads, 5) water heater blankets and 6) door and building envelope repairs that reduce infiltration.

¹¹ This program expenditures include only program implementation expenditures.

¹² Assigned Commissioner's Ruling, November 20, 2001.

for potential program improvements, with an emphasis on the Rapid Deployment efforts. A study research plan detailing these additional tasks along with the previously approved plan for evaluating the new Rapid Deployment measures was distributed in April 2002 to Energy Division and ORA staff, who will be working with the utilities to complete this evaluation effort.

To conduct the overall program evaluation, additional costs totaling \$125,435 will be incurred to cover the costs for evaluating the existing LIEE program measures, conducting the process evaluation, and for expenses related to project management. Including the budget previously allocated to evaluate the new Rapid Deployment measures, the overall project budget totals \$300,435 SDG&E's portion of that cost is \$45,065.

Table 2.1.1

Summary of Costs: Low Income - San Diego Gas & Electric
(Electric and Gas Combined)

LIEE Program	2001		2002
	Budgeted	Recorded	Budgeted
Energy Efficiency			
- Gas Appliances	\$1,499,754	\$1,040,704	\$1,626,510
- Electric Appliances	\$6,224,314	\$4,593,879	\$5,635,538
- Weatherization Measures	\$3,953,228	\$3,801,217	\$3,562,500
- Outreach Assessment	\$162,368	\$216,967	\$297,814
- In Home Energy Education	\$777,476	\$808,746	\$755,909
- Education Workshops (EELI)	\$268,107	\$282,536	\$254,000
Energy Efficiency TOTAL	\$12,885,247	\$10,744,050	\$12,132,271
Pilots			
- Landlord Refrigerator Rebate	\$53,285	\$0	\$54,130
- Landlord Room A/C Rebate	\$0	\$0	\$23,063
Total Pilots	\$53,285	\$0	\$77,193
Training Center	\$0	\$0	\$0
Inspections	\$0	\$404,775	\$0
Advertising	\$0	\$0	\$0
M&E Studies	\$132,941	\$0	\$40,000
Regulatory Compliance	\$0	\$349,936	\$0
Other Administration	\$0	\$0	\$0
Indirect Costs	\$0	\$0	\$0
Oversight Costs			
- LIAB Start-Up	\$42,934	\$0	\$0
- LIAB PY Past Year	\$42,322	\$0	\$0
- LIAB PY Present Year	\$0	\$162	\$0
- CPUC Energy Division	\$72,730	\$16,385	\$16,400
Total Oversight Costs	\$157,986	\$16,547	\$16,400
Shareholder Incentives	\$258,771	\$214,881	\$244,189
Total Costs	\$13,371,750	\$11,624,160	\$12,399,384

Note: (1) Total Gas Costs do not include shareholder incentives of \$106,028. Shareholder incentives will continue to come out of gas rate increases using the same authorized mechanisms in the AEAP.

(2) The electric LIEE shareholder incentives of \$108,853 are authorized for collection out of the electric PGC LIEE program budget and are included in Total Program Costs.

Table 2.1.2
Summary of Costs: Low Income - San Diego Gas & Electric
(Gas)

LIEE Program	2001		2002
	Budgeted	Recorded	Budgeted
Energy Efficiency			
- Gas Appliances	\$1,499,754	\$1,040,704	\$1,626,510
- Electric Appliances	\$0	\$0	\$0
- Weatherization Measures	\$3,557,905	\$3,421,096	\$3,217,500
- Outreach Assessment	\$712,718	\$17,357	\$23,825
- In Home Energy Education	\$0	\$765,744	\$614,806
- Education Workshops (EELI)	\$53,621	\$56,507	\$50,800
Energy Efficiency TOTAL	\$5,823,998	\$5,301,408	\$5,533,441
Pilots			
- Landlord Refrigerator Rebate	\$0	\$0	\$0
- Landlord Room A/C Rebate	\$0	\$0	\$0
Total Pilots	\$0	\$0	\$0
Training Center	\$0	\$0	\$0
Inspections	\$0	\$362,760	\$0
Advertising	\$0	\$0	\$0
M&E Studies	\$119,647	\$0	\$16,320
Regulatory Compliance	\$0	\$293,728	\$0
Other Administration	\$0	\$0	\$0
Indirect Costs	\$0	\$0	\$0
Oversight Costs			
- LIAB Start-Up	\$38,641	\$0	\$0
- LIAB PY Past Year	\$38,090	\$0	\$0
- LIAB PY Present Year	\$0	\$140	\$0
- CPUC Energy Division	\$65,457	\$14,141	\$14,760
Total Oversight Costs	\$142,187	\$14,281	\$14,760
Shareholder Incentives	\$116,480	\$106,028	\$110,669
Total Costs	\$6,085,833	\$5,972,177	\$5,564,521

Note: (1) Total Gas Costs do not include shareholder incentives. Shareholder incentives will continue to come out of gas rate increases using the same authorized mechanisms in the AEAP.

Table 2.1.3
Summary of Costs: Low Income - San Diego Gas & Electric
(Electric)

LIEE Program	2001		2002
	Budgeted	Recorded	Budgeted
Energy Efficiency			
- Gas Appliances	\$0	\$0	\$0
- Electric Appliances	\$6,224,314	\$4,593,879	\$5,635,538
- Weatherization Measures	\$395,323	\$380,122	\$345,000
- Outreach Assessment	\$227,126	\$199,610	\$273,989
- In Home Energy Education	\$0	\$43,003	\$141,103
- Education Workshops (EELI)	\$214,486	\$226,029	\$203,200
Energy Efficiency TOTAL	\$7,061,249	\$5,442,642	\$6,598,830
Pilots			
- Landlord Refrigerator Rebate	\$53,285	\$0	\$54,130
- Landlord Room A/C Rebate	\$0	\$0	\$23,063
Total Pilots	\$53,285	\$0	\$77,193
Training Center	\$0	\$0	\$0
Inspections	\$0	\$42,015	\$0
Advertising	\$0	\$0	\$0
M&E Studies	\$13,294	\$0	\$23,680
Regulatory Compliance	\$0	\$56,207	\$0
Other Administration	\$0	\$0	\$0
Indirect Costs	\$0	\$0	\$0
Oversight Costs			
- LIAB Start-Up	\$4,293	\$0	\$0
- LIAB PY Past Year	\$4,232	\$0	\$0
- LIAB PY Present Year	\$0	\$22	\$0
- CPUC Energy Division	\$7,273	\$2,244	\$1,640
Total Oversight Costs	\$15,799	\$2,266	\$1,640
Shareholder Incentives	\$142,290.67	\$108,852.84	\$133,520
Total Costs	\$7,285,917	\$5,651,983	\$6,834,864

Note: (1) The electric LIEE shareholder incentives are authorized for collection out of the electric PGC LIEE program budget.

Table 2.2
 Summary of LIEE Program Effects: DAP - San Diego Gas & Electric
 Program Year: 2001
 (Annual Energy Reductions)

	2001 (Recorded)	2002 (Planned)
mWh	5,902	5,611
mTherms	247	255

* Note: 1) PY 2001 Recorded Energy Reductions and PY 2002 Planned Energy Reductions include savings from RDWP Measures.

Table 2.3
Summary of LIEE Cost-Effectiveness - San Diego Gas & Electric
Program Year: 2001

	(Benefit-Cost Ratios)					
	2001 (Recorded)			2002 (Planned)		
	Utility Cost Test	Total Resource Cost Test	*Modified Participant Test	Utility Cost Test	Total Resource Cost Test	*Modified Participant Test
DAP	0.40	0.24	0.82	0.44	0.30	0.92

Table 2.4
Summary of LIEE Cost-Effectiveness: DAP - San Diego Gas & Electric
Program Year: 2001
(Net Benefits; \$Mil)

	2001 Recorded			2002 Planned		
	UCT	TRC	*Modified Participant Test	UCT	TRC	*Modified Participant Test
DAP	(\$6,957,810)	(\$8,717,327)	(\$2,122,099)	(\$6,840,812)	(\$8,612,886)	(\$992,305)

TABLE TA 3.1
LIEE PROGRAM COST ESTIMATES USED FOR COST-EFFECTIVENESS
San Diego Gas & Electric

Gas and Electric Combined

Program	Utility Costs					
	Program Incentives (Recorded)		Admin	Shareholder Incentives	Other	Total
	Actual	Committed				
DAP & RDWP	\$10,279,947	\$0	\$936,277	\$209,230	\$16,547	\$11,337,104
EELI	\$260,547	\$0	\$21,989	\$5,651	\$0	\$287,056
Total	\$10,540,494	\$0	\$958,266	\$214,881	\$16,547	\$11,624,160

Electric Only

Program	Utility Costs					
	Program Incentives (Recorded)		Admin	Shareholder Incentives	Other	Total
	Actual	Committed				
DAP & RDWP	\$5,173,277	\$0	\$141,558	\$104,332	\$2,266	\$5,421,434
EELI	\$208,438	\$0	\$17,591	\$4,521	\$0	\$230,549
Total	\$5,381,715	\$0	\$159,149	\$108,853	\$2,266	\$5,651,983

Gas Only

Program	Utility Costs					
	Program Incentives (Recorded)		Admin	Shareholder Incentives	Other	Total
	Actual	Committed				
DAP & RDWP	\$5,106,670	\$0	\$794,719	\$104,898	\$14,281	\$5,915,670
EELI	\$52,109	\$0	\$4,398	\$1,130	\$0	\$56,507
Total	\$5,158,780	\$0	\$799,117	\$106,028	\$14,281	\$5,972,177

Note: (1) Total Gas Costs do not include shareholder incentives. Shareholder incentives will continue to come out of gas rate increases using the same authorized mechanisms in the AEAP.
(2) The electric LIEE shareholder incentives are authorized for collection out of the electric PGC LIEE program budget.

Table TA 3.2.1

LIEE Cost Elements - San Diego Gas & Electric
(Electric and Gas Combined)

LIEE Program	Expenditures Recorded by Cost Element - 2001			
	Labor	Non-Labor	Contract	TOTAL
Energy Efficiency				
- Gas Appliances	\$9,998	\$12,859	\$1,017,848	\$1,040,704
- Electric Appliances	\$2,199	\$27,783	\$4,563,897	\$4,593,879
- Weatherization Measures	\$114,837	\$207,635	\$3,478,746	\$3,801,217
- Outreach Assessment	\$0	\$4,251	\$212,716	\$216,967
- In Home Energy Education	\$18,398	\$41,019	\$749,329	\$808,746
- Education Workshops (EELI)	\$12,524	\$9,465	\$260,547	\$282,536
Energy Efficiency TOTAL	\$157,956	\$303,012	\$10,283,083	\$10,744,050
Pilots				
- Pilot (A)	\$0	\$0	\$0	\$0
Total Pilots	\$0	\$0	\$0	\$0
Training Center	\$0	\$0	\$0	\$0
Inspections	\$71,625	\$75,738	\$257,412	\$404,775
Advertising	\$0	\$0	\$0	\$0
M&E Studies	\$0	\$0	\$0	\$0
Regulatory Compliance	\$126,456	\$107,387	\$116,092	\$349,936
Other Administration	\$0	\$0	\$0	\$0
Indirect Costs	\$0	\$0	\$0	\$0
Oversight Costs				
- LIAB Start-Up	\$0	\$0	\$0	\$0
- LIAB PY Past Year	\$0	\$0	\$0	\$0
- LIAB PY Present Year	\$0	\$162	\$0	\$162
- CPUC Energy Division	\$0	\$16,385	\$0	\$16,385
Total Oversight Costs	\$0	\$16,547	\$0	\$16,547
Total Costs	\$356,038	\$502,684	\$10,656,586	\$11,515,307

Table TA 3.2.2
LIEE Cost Elements - San Diego Gas & Electric
(Electric)

LIEE Program	Expenditures Recorded by Cost Element - 2001			
	Labor	Non-Labor	Contract	TOTAL
Energy Efficiency				
- Gas Appliances	\$0	\$0	\$0	\$0
- Electric Appliances	\$2,199	\$27,783	\$4,563,897	\$4,593,879
- Weatherization Measures	\$11,484	\$20,763	\$347,875	\$380,122
- Outreach Assessment	\$0	\$3,911	\$195,699	\$199,610
- In Home Energy Education	\$920	\$2,064	\$40,019	\$43,003
- Education Workshops (EELI)	\$10,019	\$7,572	\$208,438	\$226,029
Energy Efficiency TOTAL	\$24,622	\$62,093	\$5,355,927	\$5,442,642
Pilots				
- Pilot (A)	\$0	\$0	\$0	\$0
Total Pilots	\$0	\$0	\$0	\$0
Training Center	\$0	\$0	\$0	\$0
Inspections	\$8,118	\$8,109	\$25,788	\$42,015
Advertising	\$0	\$0	\$0	\$0
M&E Studies	\$0	\$0	\$0	\$0
Regulatory Compliance	\$24,781	\$19,817	\$11,609	\$56,207
Other Administration	\$0	\$0	\$0	\$0
Indirect Costs	\$0	\$0	\$0	\$0
Oversight Costs				
- LIAB Start-Up	\$0	\$0	\$0	\$0
- LIAB PY Past Year	\$0	\$0	\$0	\$0
- LIAB PY Present Year	\$0	\$22	\$0	\$22
- CPUC Energy Division	\$0	\$2,244	\$0	\$2,244
Total Oversight Costs	\$0	\$2,266	\$0	\$2,266
Total Costs	\$57,521	\$92,286	\$5,393,324	\$5,543,130

Table TA 3.2.3
LIEE Cost Elements - San Diego Gas & Electric
(Gas)

LIEE Program	Expenditures Recorded by Cost Element - 2001			
	Labor	Non-Labor	Contract	TOTAL
Energy Efficiency				
- Gas Appliances	\$9,998	\$12,859	\$1,017,848	\$1,040,704
- Electric Appliances	\$0	\$0	\$0	\$0
- Weatherization Measures	\$103,353	\$186,871	\$3,130,871	\$3,421,096
- Outreach Assessment	\$0	\$340	\$17,017	\$17,357
- In Home Energy Education	\$17,478	\$38,955	\$709,310	\$765,744
- Education Workshops (EELI)	\$2,505	\$1,893	\$52,109	\$56,507
Energy Efficiency TOTAL	\$133,334	\$240,918	\$4,927,156	\$5,301,408
Pilots				
- Pilot (A)	\$0	\$0	\$0	\$0
Total Pilots	\$0	\$0	\$0	\$0
Training Center	\$0	\$0	\$0	\$0
Inspections	\$63,508	\$67,629	\$231,624	\$362,760
Advertising	\$0	\$0	\$0	\$0
M&E Studies	\$0	\$0	\$0	\$0
Regulatory Compliance	\$101,675	\$87,570	\$104,482	\$293,728
Other Administration	\$0	\$0	\$0	\$0
Indirect Costs	\$0	\$0	\$0	\$0
Oversight Costs				
- LIAB Start-Up	\$0	\$0	\$0	\$0
- LIAB PY Past Year	\$0	\$0	\$0	\$0
- LIAB PY Present Year	\$0	\$140	\$0	\$140
- CPUC Energy Division	\$0	\$14,141	\$0	\$14,141
Total Oversight Costs	\$0	\$14,281	\$0	\$14,281
Total Costs	\$298,517	\$410,398	\$5,263,262	\$5,972,177

Table TA 3.3
Program Detail By Housing Type and Heating Source
San Diego Gas & Electric

	Energy Saved and Program Costs			Number of Dwellings*		
	2001 (mWh)	2001 (mTherm)	2001 Expenses	2001 (Planned)	2001 (Actual)	2002 (Planned)
Gas Heat - Own						
-Single Family	483	22	\$763,914		1435	
-Multi Family	917	29	\$2,090,554		3928	
-Mobile Home	1158	55	\$1,601,889		3010	
Sub Total Dwellings Served	2558	107	\$4,456,357		8373	
Gas Heat - Rent						
-Single Family	464.5	21	\$733,957		1379	
-Multi Family	881.4	28	\$2,008,572		3774	
-Mobile Home	1112.2	53	\$1,539,070		2892	
Sub Total Dwellings Served	2458.1	103	\$4,281,598		8045	
Electric Heat - Own						
-Single Family	85	4	\$134,808		253	
-Multi Family	162	5	\$368,921		693	
-Mobile Home	204	10	\$282,686		531	
Sub Total Dwellings Served	451	19	\$786,416		1478	
Electric Heat - Rent						
-Single Family	82	4	\$129,522		243	
-Multi Family	156	5	\$354,454		666	
-Mobile Home	196	9	\$271,601		510	
Sub Total Dwellings Served	434	18	\$755,576		1420	
Total Dwellings Served	5902	247	\$10,279,947	12500	19315	11000

* Note: 1) Planned number of dwellings to be treated are derived from the September 21st, 1999 Supplemental Advice Letter and do not include SB5. Actuals do include SB5.

Table TA 3.4
Program Detail By Measure - San Diego Gas & Electric

	Energy Saved and Program Costs			Number of Dwellings Served
	2001			2001
	(mWh)	(mTherm)	Expenses	Actual Dwellings Served
Furnace Gas				
- Repair - Gas	0	0.9	\$46,964	685
- Replacement - Gas	0	0.5	\$592,970	410
- Repair - Electric	0	0.0	\$0	0
- Replacement - Electric	0	0.0	\$0	0
Total Furnace Gas	0	1.4	\$639,934	1095
Infiltration & Space Conditioning				
- Ceiling Insulation	1.4	4.9	\$127,452	276
- Caulking	0.0	25.3	\$547,290	9941
- Weather Stripping	6.5	17.5	\$410,211	8685
- Cover Plates/Gaskets	0.0	0.0	\$62,001	7003
- Evaporative Cooler/Air Cond. Covers	0.0	11.4	\$13,700	439
- Air Conditioner Replacement - Room	62.4	0.0	\$120,335	184
- Air Conditioner Replacement - Central	152.3	0.0	\$436,600	195
- Duct Sealing and Repair	16.4	1.4	\$14,250	62
- Whole House Fans	0.2	0.0	\$600	1
- Set-back Thermostats	7.0	8.5	\$21,710	334
- Evaporative Cooler Maintenance	0.0	0.0	\$0	0
Total Infiltration & Space Conditioning	246.2	69.1	\$1,754,149	9941
Water Heating				
- Water Heater Blankets	19.7	4.7	\$19,481	951
- Low Flow Showerhead	227.5	53.4	\$197,870	7315
- Water Heater Pipe Wrap	0.0	7.3	\$15,979	908
- Faucet Aerators	0.0	75.4	\$76,975	9280
- Water Heater Replacement	0.0	8.9	\$257,180	423
Total Water Heating	247.3	149.6	\$567,485	9280
Minor Home Repairs	17.0	27.2	\$453,361	3399
Miscellaneous Measures*	0	0	\$578,587	3249
Evaporative Coolers	0.3	0.0	\$1,500	2
Refrigerators	2205.4	0.0	\$2,778,852	5484
Compact Fluorescents (inc. porchlights)	2486.8	0.0	\$605,570	13519
Porchlights (fixture replacement or CFBs)	1.4	0.0	\$776	17
Energy Education				
- Outreach & Assessment	0.0	0.0	\$200,077	4476
- In-Home Education	697.4	0.0	\$777,246	14839
- Education Workshops (EELI)	0.0	0.0	\$260,547	36577
Total Energy Education	697.4	0.0	\$1,237,870	19315

*Note: 1) Miscellaneous Measures included attic ventilation, auto sweep, door replacement, door threshold, duct register seal, diagnostic duct test, new central return, glass replacement, and jamb replacement. SDG&E has no claimed savings for these measures.

TABLE TA 3.5
PROGRAM INSTALLATION
San Diego Gas & Electric

	Unit of Measure	CBO/WMDVBE			Non-CBO/WMDVBE			Total				
		Units Installed	Dwellings	Costs	Units Installed	Dwellings	Costs	Units Installed	Dwellings	Costs	Cost/ Unit	Cost/ Dwelling
Dwellings	Each											
Furnaces												
Repair - Gas	Each	580	580	\$ 23,050	105	105	\$ 23,914	685	685	\$ 46,964	\$ 69	\$ 69
Replacement - Gas	Each	110	110	\$ 163,445	300	300	\$ 429,525	410	410	\$ 592,970	\$ 1,446	\$ 1,446
Repair - Electric	Each	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -	\$ -
Replacement - Electric	Each	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -	\$ -
Infiltration & Space Conditioning												
- Ceiling Insulation	Sq. Ft.	181698	174	\$ 80,439	106643	102	\$ 47,013	288341	276	\$ 127,452	\$ 0	\$ 462
- Caulking	Linear Ft.	229102	5882	\$ 316,959	129617	4059	\$ 230,331	358718.68	9941	\$ 547,290	\$ 2	\$ 55
- Weather Stripping	Each	6639	5189	\$ 241,760	4725	3496	\$ 168,451	11364	8685	\$ 410,211	\$ 36	\$ 47
- Cover Plates/Gaskets	Each	35292	4418	\$ 33,048	31098	2585	\$ 28,953	66390	7003	\$ 62,001	\$ 1	\$ 9
- Evaporative Cooler/Air Cond. Covers	Each	216	215	\$ 6,660	226	224	\$ 7,040	442	439	\$ 13,700	\$ 31	\$ 31
- Air Conditioner Replacement - Room	Each	184	184	\$ 120,335	0	0	\$ -	184	184	\$ 120,335	\$ 654	\$ 654
- Air Conditioner Replacement - Central	Each	37	37	\$ 82,900	158	158	\$ 353,700	195	195	\$ 436,600	\$ 2,239	\$ 2,239
- Duct Sealing and Repair	Each	33	33	\$ 7,350	29	29	\$ 6,900	62	62	\$ 14,250	\$ 230	\$ 230
- Whole House Fans	Each	1	1	\$ 600	0	0	\$ -	1	1	\$ 600	\$ 600	\$ 600
- Set-back Thermostats	Each	195	195	\$ 12,675	139	139	\$ 9,035	334	334	\$ 21,710	\$ 65	\$ 65
- Evaporative Cooler Maintenance	Each	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -	\$ -
Water Heating Savings												
- Water Heater Blanket	Each	570	569	\$ 11,645	383	382	\$ 7,835	953	951	\$ 19,481	\$ 20	\$ 20
- Low Flow Showerhead	Each	5301	4496	\$ 120,289	3417	2819	\$ 77,580	8718	7315	\$ 197,869	\$ 23	\$ 27
- Water Heater Pipe Wrap	Linear Ft.	4210.5	561	\$ 10,471	2232.5	347	\$ 5,508	6443	908	\$ 15,979	\$ 2	\$ 18
- Faucet Aerators	Each	10766	5500	\$ 44,751	7758	3780	\$ 32,224	18524	9280	\$ 76,975	\$ 4	\$ 8
- Water Heater Replacement	Each	360	360	\$ 218,970	63	63	\$ 38,210	423	423	\$ 257,180	\$ 608	\$ 608
Minor Home Repairs (other than above)	Home	2097	2097	\$ 287,263	1302	1302	\$ 166,098	3399	3399	\$ 453,361	\$ 133	\$ 133
Miscellaneous Measures	Home	1533	1533	\$ 300,435	1716	1716	\$ 278,152	3249	3249	\$ 578,587	\$ 178	\$ 178
Evaporative Coolers	Each	2	2	\$ 1,500	0	0	\$ -	2	2	\$ 1,500	\$ 750	\$ 750
Refrigerators	Each	5484	5484	\$ 2,778,852	0	0	\$ -	5484	5484	\$ 2,778,852	\$ 507	\$ 507
Compact Fluorescents (inc. porchlights)	Each	36240	13519	\$ 605,570	0	0	\$ -	36240	13519	\$ 605,570	\$ 17	\$ 45
Porchlights (fixture replacement)	Each	16	14	\$ 674	4	3	\$ 103	20	17	\$ 776	\$ 39	\$ 46
Outreach Education Administration	Home	19315	19315	\$ 977,323	0	0	\$ -	19315	19315	\$ 977,323	\$ 51	\$ 51

* Note: SDG&E's database tracks dwelling information per measure, but does not have the ability to measure total dwelling information for the program per contractor.

TABLE TA 3.6
PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION
2001
San Diego Gas & Electric

Program	Contractor Classification	Vendor	% Dwellings Served	WMDVBE Certified (Yes or No)	Program	Contractor Classification	Vendor	% Dwellings Served	WMDVBE Certified (Yes or No)
LIEE*					Central and Wall Air Conditioner Replacement				
	CBO Participants	Contractor C	9%	No		CBO Participants	-	0%	-
		Contractor D	23%	No			Subtotal	0%	
		Subtotal	33%						
						Non-CBO Participants	Contractor F	14%	No
	Non-CBO Participants	Contractor A	23%	Yes			Contractor G	3%	No
		Contractor B	16%	No			Contractor H	2%	Yes
		Contractor E	23%	No			Contractor I	4%	No
		Contractor J	5%	Yes			Contractor J	49%	Yes
		Subtotal	67%				Contractor K	8%	Yes
							Contractor L	15%	No
Furnace Work							Contractor M	5%	No
	CBO Participants	-	0%	-			Subtotal	100%	
		Subtotal	0%						
					EELI				
	Non-CBO Participants	Contractor F	14%	No		CBO Participants	01	58.32%	No
		Contractor G	14%	No			02	0.80%	No
		Contractor H	8%	Yes			03	1.88%	No
		Contractor I	6%	No			04	4.96%	No
		Contractor J	54%	Yes			05	1.11%	No
		Contractor K	1%	Yes			06	0.30%	No
		Contractor L	2%	No			07	0.88%	No
		Contractor M	2%	No			08	12.16%	No
		Subtotal	100%				09	11.21%	No
							10	0.12%	No
							11	1.87%	No
Refrigerator Replacement							12	0.14%	No
	CBO Participants	-	0%	-			13	1.39%	No
		Subtotal	0%				14	1.24%	No
							15	2.02%	No
	Non-CBO Participants	Contractor J	100%	Yes			16	0.19%	No
		Subtotal	100%				17	0.50%	No
							18	0.04%	No
Water Heater Replacement							19	0.03%	No
	CBO Participants	-	0%	-			20	0.01%	No
		Subtotal	0%				21	0.35%	No
							22	0.11%	No
	Non-CBO Participants	Contractor F	5%	No			23	0.32%	No
		Contractor G	0%	No			24	0.03%	No
		Contractor H	82%	Yes			Subtotal	100%	
		Contractor I	2%	No					
		Contractor K	3%	Yes		Non-CBO Participants	-	0%	-
		Contractor L	4%	No			Subtotal	0%	
		Contractor M	3%	No					
		Subtotal	100%						

Footnote: 1) Under the LIEE Program, percentage of dwellings served were derived by using weatherization installation numbers.

TABLE TA 3.7
LIFE CYCLE BILL SAVINGS
San Diego Gas & Electric
2001

Measure Description	Number Installed	Per Measure Electric Impact Impact (kWh)	Per Measure Gas Impact Impact (Therms)	Effective Useful Life (EUL)*	Total Measure Lifecycle Bill Savings (\$)
Weather stripping (Gas) - MF	3406	0	1.4	5	\$ 17,222
Weather stripping (Electric) - MF	601	5	0	5	\$ 1,604
Weather stripping (Gas) - SF	3976	0	3.2	5	\$ 45,957
Weather stripping (Electric) - SF	702	5	0	5	\$ 1,872
Minor Home Repair Materials	3399	5	8	10	\$ 191,339
Low Flow Showerheads (Gas)	7410	0	7.2	10	\$ 343,690
Low Flow Showerheads (Electric)	1308	174	0	10	\$ 216,586
Caulking - MF	3625	0	1.4	5	\$ 18,330
Caulking - SF	6316	0	3.2	5	\$ 72,998
Ceiling Insulation R-19 (Gas)	167	0	21	25	\$ 41,135
Ceiling Insulation R-19 (Electric)	29	34	0	25	\$ 1,737
Ceiling Insulation R-11 (Gas)	68	0	21	25	\$ 16,790
Ceiling Insulation R-11 (Electric)	12	34	0	25	\$ 709
Water Heater Blankets (Gas)	810	0	5.8	5	\$ 16,969
Water Heater Blankets (Electric)	143	138	0	5	\$ 10,528
Evaporative Cooler Cover	439	0	26	3	\$ 25,930
Furnace Replacement	410	0	1.28	22	\$ 5,763
Refrigerator Replacement	5484	402.15	0	15	\$ 2,821,798
Exterior CFL Fixture	20	68.62	0	20	\$ 2,108
Compact Fluorescent Lights	36240	68.62	0	9	\$ 2,178,878
Evaporative Cooler Replacement	2	130	0	15	\$ 333
Furnace repairs	685	0	1.28	10	\$ 5,648
Pipe wrap	908	0	8	15	\$ 62,899
Aerators	9280	0	8.12	5	\$ 272,159
In Home Education	14839	47	0	1	\$ 81,879
Wall/Window Air Conditioners	184	339	0	11	\$ 63,869
Central A/C	195	781	0	18	\$ 219,453
Evap Cooler Maintenance & Repair	0	160	0	4	\$ -
Whole House Fans	1	223	0	20	\$ 343
Gas Water Heaters	423	0	21	13	\$ 69,610
Duct Sealing & Repair (Electric Heat)	9	425	0	25	\$ 6,867
Duct Sealing & Repair (Gas Heat)	53	237	27	25	\$ 38,429
Set back Thermostat (Electric Heat)	50	88	0	15	\$ 5,641
Set back Thermostat (Gas Heat)	284	9	30	15	\$ 77,018
Total Number of Homes Served by the Program					19315
Life Cycle Bill Savings Per Home					\$ 359

* Note: EUL's are consistent with the Bill Savings Standardization Report

TABLE TA 3.8
ENERGY RATES USED FOR BILL SAVINGS
CALCULATIONS

San Diego Gas & Electric

Year	\$/kWh	\$/Therm
2001	0.117	0.795
2002	0.1209	0.818335
2003	0.1245	0.84288505
2004	0.1283	0.868171602
2005	0.1321	0.89421675
2006	0.1361	0.921043252
2007	0.1402	0.94867455
2008	0.1444	0.977134786
2009	0.1487	1.00644883
2010	0.1532	1.036642295
2011	0.1578	1.067741563
2012	0.1625	1.09977381
2013	0.1674	1.132767025
2014	0.1724	1.166750035
2015	0.1776	1.201752536
2016	0.1829	1.237805112
2017	0.1884	1.274939266
2018	0.1940	1.313187444
2019	0.1999	1.352583067
2020	0.2059	1.393160559
2021	0.2120	1.434955376
2022	0.2184	1.478004037
2023	0.2250	1.522344158
2024	0.2317	1.568014483
2025	0.2387	1.615054918
2026	0.2458	1.663506565

TABLE TA 3.9
BILL SAVINGS
San Diego Gas & Electric

Program Year	Program Costs	Program Lifecycle Bill Savings	Program Bill Savings/ Cost Ratio	Per Home Average Lifecycle Bill Savings
1999	\$ 4,336,075	1,733,423	0.40	\$ 158
2000	\$ 6,414,270	2,989,907	0.47	\$ 219
2001	\$ 11,515,307	6,936,088	0.60	\$ 359

APPENDIX A
Table A– SDG&E LIEE Leveraging & Outreach

LIEE Leveraging/Outreach¹	Summary	Timeline	Status
CAL LIHEAP Leveraging Letter	On June 14, 2001 a letter was sent to all LIHEAP providers by the California Department of Community Services and Development (DCSD), The Energy Division, and the joint utilities encouraging them to establish or enhance coordination and partnerships between utilities' programs and the local CAL LIHEAP program efforts.	6/14/01	Completed
DCSD/Utility/Commission California Low Income Programs Committee CLIEP)	Coordinating Meetings	7/11/01 8/24/01 11/21/01	Ongoing
Coordination with California Conservation Corps. (CCC) Power Walk	Met with statewide CCC PowerWalk CFL distribution program manager on July 11 for briefing on CCC activities and plans.	7/11/01	Completed
CAL LIHEAP Leveraged Informational Brochure	The California State Department of Community Services (DCSD), in conjunction with the four major utilities, is publishing a brochure for statewide distribution. This brochure will provide information on bill payment programs and energy efficient programs offered throughout the State and the four major utilities.	August 2001	Completed
Leveraging of Outreach	Customers receiving LIEE are provided access to other community services.	Ongoing	Ongoing
San Diego County Department of Housing and Community Development	County has granted \$1 million dollars in county funds for weatherization to be done by SDG&E under its LIEE program. Originally the contract was to be presented to County Board of Supervisors for approval on September 11, 2001; however, the date to meet with CB of Supervisors has been delayed.	Contract approval pending	In Process

¹ All LIEE presentations and discussions on partnering provide information on all SDG&E's residential assistance programs (e.g., CARE, payment arrangements, Neighbor-to-Neighbor, and medical baseline) as well as LIHEAP cash assistance programs.

APPENDIX A
Table A– SDG&E LIEE Leveraging & Outreach

LIEE Leveraging/Outreach¹	Summary	Timeline	Status
San Diego County Department of Housing and Community Development	LIEE program will offer presentations on weatherization services and installation of energy efficient appliances to prospective Section 8 Rental Assistance Program landlords at monthly briefing meetings held at the County offices. As of the end of September, SDG&E had not received a schedule for presentations to landlords as the County had not finalized it but will provide to us as soon as they do.	TBD	In Process
San Diego County Department of Housing and Community Development	SDG&E has provided brochures on assistance programs and CARE applications to the County who have them displayed in their lobby/waiting area in the San Diego office where Section 8 requests from low-income residents (50 to 100 walk-ins per day) are processed. SDG&E will supply the brochures to the County on an ongoing basis.	8/31/01	Completed/ Ongoing
Orange County Community Development Council (OCCDC)--Memo of Understanding	A Memo of Understanding (MOU) was signed by the OCCDC to leverage with SDG&E and provide lead lists of homes in Southern Orange County that have already participated in their bill assistance and/or weatherization program in order for SDG&E to offer appliance replacements. We will also be doing refrigerator bulk purchases for the Cal-LIHEAP jobs they perform this year.	8/01/01	Completed/ Ongoing
Campesinos Unidos, Inc (CUI)—Memo of Understanding	A MOU was developed and signed between SDG&E for bulk purchase and installation of refrigerators.	8/01	Completed/ Ongoing

APPENDIX A
Table A- SDG&E LIEE Leveraging & Outreach

LIEE Leveraging/Outreach¹	Summary	Timeline	Status
Outreach--Rincon Indian Reservation	The Rincon Indian Tribal Counsel has agreed to enter into a MOU with SDG&E to offer RD services and appliance replacement, using SB5 funding, to tribe members living on the reservation. The MOU was signed 9/6/01. The agreement leverages RD funding for LIEE and appliance replacements with the LIHEAP program provided by Rincon. SDG&E will be coordinating the RD services with the American Mission Indian Housing Authority as required. Rincon has agreed to work with SDG&E to offer the same services to other tribes in the region. Where propane is the heating source, SDG&E will offer electric measures partnering with LIHEAP providers for weatherization.	9/6/01	Completed/ Ongoing
Outreach—San Diego American Indian Health Center	A MOU was signed with San Diego American Health Center to initiate a referral process to refer clients participating in their program to the LIEE Rapid Deployment Weatherization Program for participation.	8/7/01	Completed/ Ongoing
Senior Center – Borrego Springs	SDG&E discussed marketing of LIEE services and appliance replacement with the Chamber of Commerce in Borrego Springs. The Chamber informed SDG&E that it would be more beneficial for the low-income residents if SDG&E worked directly with representatives from the Borrego Springs Senior and Community Center. SDG&E has arranged an outreach event at the Borrego Springs Senior and Community Center for 11/4/01 from 1:00 p.m. to 2:30 p.m. The event includes a lighting turn-in event and will also provide information on the weatherization program and utility staff will be on hand to sign up those participants who are not currently signed up for CARE.	11/01 12/04/01	Completed

APPENDIX A
Table A– SDG&E LIEE Leveraging & Outreach

LIEE Leveraging/Outreach¹	Summary	Timeline	Status
Outreach—Borrego Springs	SDG&E will be mailing weatherization program participation information to approximately 2,000 residents of Borrego Springs in the month of November. The residents are "year round" residents who may benefit from the programs appliance replacements and infiltration measures. Most residents of Borrego are propane gas heated homes, but they are electric customers of SDG&E and will be offered all measures they are currently eligible for under the program. The letters will be mailed in both English and Spanish in order to reach as many "potential" participants as possible. We will also include a CARE application in each letter.	11/01 Revised Date: 02/02/002	
Outreach - Target Seniors - Cool Zone Sites	SDG&E has made energy education presentations available to Cool Zone Sites in San Diego, upon request, in order to reach the senior residents of San Diego who are taking advantage of the cool zones. This service will be provided and will follow the current curriculum used under the Energy Education for Low Income (EELI) Program that educates over 25,000 San Diego residents each year through community based organizations.	Upon Request Summer Months	Ongoing
SDG&E Internal Presentations	SDG&E has been doing presentations to internal staff who work closely with customers in the field. Presentations have been performed or are scheduled to be performed for the Gas Service Technicians and the Branch Office staff as follows: North Coast Gas Service Techs - 7/28/01 Eastern Gas Service Techs - 8/9/01 Beach Cities Gas Service Techs - 8/23/01 Branch Office Staff - 8/28, 8/29, 8/30/01	8/30/01	Completed

APPENDIX A
Table A– SDG&E LIEE Leveraging & Outreach

LIEE Leveraging/Outreach¹	Summary	Timeline	Status
University of San Diego	SDG&E has offered its DAP program services to Thanksgiving House which is a student project program that provides for the renovation of houses occupied by low-income residents in one local community. Two such homes were qualified and assessed for measures. Thanksgiving House has agreed to contact us when additional houses are renovated.	10/01	Ongoing
Southern California Housing	SDG&E held discussions on leveraging our utility DAP services with the renovation and upgrade projects with Southern California Housing , a company that buys low-income multi-family complexes and renovates them for Section 8 residents. Agreement was reached that SDG&E would offer appliance replacements and other measures installations to qualified tenants as feasible. Two projects are in the queue for services	10/01	Ongoing
National Weatherization Day, National City	On Tuesday, October 30, 2001 Mayor George Waters of National City declared it National Weatherization Day in National City with the purpose of raising awareness of the important benefits provided by the low-income weatherization assistance program. MAAC Project was on hand with weatherization crews and worked to install energy efficient measures in a participant's home. SDG&E leveraged with MAAC to install energy efficient appliances in the designated home. The resident also received monetary assistance through HEAP and was enrolled in SDG&E's CARE program as part of the services provided that day.	10/30/01	Completed

APPENDIX A
Table A– SDG&E LIEE Leveraging & Outreach

LIEE Leveraging/Outreach¹	Summary	Timeline	Status
LIHEAP Leveraging Reports	The two LIHEAP Providers who are subcontractors in SDG&E's DAP program reported \$1, 202,089 in leveraged dollars from SDG&E's DAP to the California State Department (CSD) which will be considered by the federal program when allocating funding to the states for weatherization the next contract period.	9/30/01	Completed
Outreach—Mobile Homes	The Golden State Manufactured Home Owners Association (GSMOL) is a statewide Home Owners Association (HOA) for all manufactured/mobile homeowners in California. GSMOL publishes a member newspaper on a monthly basis and included weatherization program information in its October issue.	10/01	Completed
Outreach—Pala Indian Tribe	SDG&E met with a representative from Pala Tribal Housing and Development to offer DAP and CARE programs. An MOU is being developed to offer appliances and other services in partnership with CUI.	12/7/01	Completed/ Ongoing

APPENDIX B

Community Agencies Participating in Energy Education for Low Income (EELI)

Aliance for African Assistance (AAA)
Alpha of San Diego
Casa Familiar
Catholic Charities
Chicano Federation
Comprehensive Training Systems
Consumer Credit Counselors of San Diego
Metropolitan Area Advisory Committee (MAAC) Project
Mid City
North Coastal Lifeline
Refugee Assistance Center
San Diego American Indian Health Center
South Bay Community Services
United Way
Vista Community Clinic
College Senior Center
Escondido Adult Center
Escondido Lincoln Center
Escuela Central
La Mesa Senior Adult Center
Mesa Valley Senior Adult Center
Salvation Army Senior Center
Senior Community Center of San Diego
Metro