

Application:	03-05-
Exhibit No.	(SDG&E-2A)

LOW INCOME ENERGY EFFICIENCY PROGRAMS

Annual Summary and Technical Appendix

> 2002 Results May 2003



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Executive Summary

Overview

This report on San Diego Gas and Electric's Low Income Energy Efficiency (LIEE) Program provides information on the activities, results, benefits, costs, and obstacles of the PY 2002 program, including that portion of the program funded by legislation (SBX1 5) under the Commission's Rapid Deployment (RD) strategy. SDG&E offers its low income customers two separate Low Income Energy Efficiency (LIEE) program elements: 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, providing customers with the knowledge needed to reduce their energy use and exercise more control over their energy bills.

Program Results

During PY 2002, DAP served a total of 14,089 homes, weatherizing 3,410 homes using base program funds and 4,498 homes using SBX1 5 funds. SDG&E also installed 6,488 refrigerators, 618 air conditioners, 593 water heaters, and repaired or replaced 926 natural furnaces. EELI provided energy education to 24,443 SDG&E customers. LIEE program expenditures during 2002 totaled \$12.35 million.

Weatherization and appliance installations resulted in first-year energy savings of 5402 mWh and 208 mTherms. Average per home lifecycle bill savings for the program are \$584.

The authorized PY 2002 budget was \$13.36 million. Total actual costs of the program was \$12.35 million, of which \$4.573 million was spent on DAP and \$7.772 million on RD. Unspent DAP funding totaling \$0.88 million will be carried over in PY 2003. State RD weatherization funding provided under SBX1 5 was fully expended during 2002.

SDG&E's PY 2002 program faced formidable obstacles as it began the year. For example, the Commission's new rules requiring hard copy customer income eligibility documentation for every home receiving services under its DAP program slowed down SDG&E's ability to enroll new eligible customers into the program. While SDG&E devoted substantial efforts to addressing its traditional MPS therm savings goals in PY 2002, in addition to its efforts to implement the Commission's rapid deployment strategy and new program rules, it fell short of achieving its shareholder earnings threshold earnings goal.

Program Performance Incentive

Under its PY 2001 LIEE program, SDG&E achieved the required threshold savings of 150,921 therms through the installation of basic ("big six") measures required to qualify for \$214,881 in program performance incentives (2% times \$10,744,050 in PY 2001 program expenditures). Therefore, the SDG&E's second performance incentive claim for PY 2001 LIEE program

¹ The "big six" LIEE 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.

performance is \$107,441 plus interest from July 1, 2002 through December, 2003 and franchise fees and uncollectibles in the amount of 4,115 for a total of \$111,556².

SDG&E did not meet the minimum performance standard of 150,921 therm savings in order to qualify for shareholder incentives through the installations of the "big six" measures. Therefore, SDG&E is not claiming performance incentives related to its PY 2002 LIEE program efforts.

² See 2002 Annual Earnings Proceeding Testimony of San Diego Gas and Electric Company.

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 the clients of community based organizations and agencies within the low income community.

DAP is designed to help low income residential customers control energy costs by providing nocost 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 program's 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 EELI program 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 languages, 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 2.1.1 and Table TA 3.1.1, SDG&E spent a total of \$12.35million on its base LIEE programs and RD LIEE. Overall program annual energy savings realized from these expenditures are 5402 mWh and 208 mTherms. Therm savings resulting from the installation of "big six" measures totaled 115 mTherms. The total resource cost ratio of the program is .63, the utility cost ratio is .41, and the modified participant ratio is .83.

PY 2002 Low Income Energy Efficiency (LIEE) Program

During 2002, SDG&E continued to offer both its base program measures and rapid deployment measures to DAP-qualified households. SDG&E treated 14,089 homes and weatherized 7,908 homes under its base LIEE program. Throughout PY 2002, SDG&E combined its outreach with CARE outreach activities in order to leverage efforts and to provide customers with knowledge of and access to all customer assistance programs.

Other outreach efforts and media activities conducted during the year included the following:

- Identifying, qualifying, and enrolling customers for LIEE services by SDG&E's program implementation contractor.
- Using SDG&E's database of prior LIEE program participants as an outreach tool to identify
 customers who qualified for additional measure and services authorized under the Rapid
 Deployment efforts.
- Using the CARE participant database information by the implementation contractor when conducting LIEE program outreach.
- Leveraging services through Memoranda of Understanding in order to leverage LIEE RD funds with funds provided by the Department of Community Services and Development.
- Partnering with the Filipino-American Wellness Center to provide information about the LIEE program.
- Leveraging outreach efforts with CARE and other assistance programs with SDG&E's lighting turn-in events.

For the first time in the LIEE program's history, SDG&E ran in-language print advertising in the local Chinese, Filipino, and Vietnamese publication. Below is a table showing the print media and circulation associated with these ads.

Chinese

CIIIII	-3C		
•	Asian Chinese Times	14,000	San Diego County
•	We Chinese in America	5,000	San Diego County
<u>Filipi</u>	<u>no</u>		
•	Asian Journal San Diego	35,000	San Diego County
•	Filipino Press	25,000	San Diego County
Vietn	ames <u>e</u>		
•	Nguio Viet	6,000	San Diego County
•	Tieng Viet	6,000	San Diego County and Vicinity

During 2002, increased efforts to contact and serve the local Native American community resulted in 185 referrals for LIEE services delivered to low-income residents of local reservations.

SDG&E also concluded its Stand Alone Attic Ventilation Pilot Study during 2002.³ 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 additional ventilation to meet LIEE program standards. The

³ Conducted per Commission Resolution E-3586.

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.

SDG&E's PY 2002 LIEE program faced a number of obstacles. The Commission's new rapid deployment strategy mandated that a new mix of measures be installed in program-eligible homes beginning in mid-2001. Like the other IOUs, SDG&E's ability to achieve its PY 2002 earnings goals was impacted by the implementation of new Commission rules requiring hard copy customer income eligibility documentation for every home receiving services under its DAP program.

Problems experienced by SDG&E and other IOUs with implementing these new rules are detailed in "Process Evaluation of the 2001 statewide Low-income Energy Efficiency (LIEE) Programs conducted by KEMA-XENERGY, Inc. A Notice of Availability of the report was filed with the Commission on April 18, 2003⁴. The Evaluation Report shows that in some cases, elderly customers who did keep income and home ownership in their homes were reluctant, or refused to allow program outreach workers to take their papers outside the home to make copies for SDG&E's program files. SDG&E and its program contractors overcame that obstacle by using digital cameras in the field to take photos of customer income and home ownership documentation for program files.

While SDG&E devoted substantial efforts to addressing its traditional MPS therm savings goals in PY 2002, in addition to its efforts to implement the Commission's rapid deployment strategy, it fell short of achieving its performance incentives threshold.

To address these problems in 2003, SDG&E's prime field services coordination contractor, which conducts program outreach and audits, has hired and trained a number of additional outreach workers, to prevent similar problems from bogging down the program. While this will drive up program costs somewhat in 2003, the additional outreach resources are necessary to prevent eligible utility customers from being excluded from program participation because they cannot provide hard copy documentation of program eligibility.

EELI

During PY 2002, the EELI program element educated 24,443 (443 over SDG&E's target goal of 24,000) 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 \$203,954. EELI group education was provided through a network of local community based organizations (CBOs) 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:

⁴ Southern California Edison filed the Notice of Availability on behalf of itself and Pacific Gas & Electric, Southern California Gas Company, and San Diego Gas & Electric.

- 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.
- <u>The Energy Conservation Video</u> 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 PY 2002 in an effort to reach seniors and other special interest customers outside of the EELI provider network.

PY 2003 Low Income Energy Efficiency Program Plans

SDG&E filed for continuation of the DAP program in Application 02-07-002, July 1, 2002. In Interim Decision 02-12-019, December 5, 2002, the Commission ordered the utilities to continue the programs and to provide customers all feasible LIEE measures, including the pilot rapid deployment measures authorized in D. 01-05-033, until further Commission order. It also authorized SDG&E to utilize \$13.3 million for its PY 2003 program, in order to maintain the higher level of services to the limited-income customers provided under its rapid deployment strategy. SDG&E plans to continue implementation of its RD efforts with the goal of providing LIEE services to as many qualified customers as possible into PY 2003, within its authorized budget. The planned budget for PY 2003 is \$14.1 million, including shareholder incentives, and is comprised of \$.8 million in unspent PY 2002 DAP funding, including EELI carryover funds, and \$13.3 million in PY 2003 ratepayer funding authorized in D.02-12-019. PY 2003 goals include providing in-home energy education to 14,000 homes, weatherizing 9,500 units, replacing 4,500 refrigerators, and serving 24,000 customers through its EELI group education efforts.

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) which 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 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 (OCDC), a Community

Action Agency, which serves low income customers residing on the northern edge of SDG&E's service territory

Section 2790 of the Public Utilities 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 PY 2002. 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 PY 2001 LIEE program.)

During PY 2002 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 PY 2002:

- Statewide LIEE program policies and procedures were developed by the utilities and adopted by the Commission for use in PY 2002.⁵
- A statewide LIEE PY 2001 process evaluation and impact study was conducted.⁶
- An update to the comparative Joint Utility LIEE Program Costs and Bill Savings Standardization Report⁷ is being filed on behalf of the IOUs by PG&E as part of this proceeding.

Measurement and Evaluation (M&E) Activities

Ordering Paragraph 9 of Decision 01-12-020 requires the joint utilities to evaluate the LIEE program and individual measures by calculating both the participant cost and utility costs tests including non-energy related benefits (NEBS), developed by the RRM Working Group (RRMWG), in the calculations. The RRMWG and the Standardization Project Team were directed to jointly develop recommendations on how each of these tests should be considered in making a final measure selections or in evaluating the overall cost effectiveness of the DAP program and to provide an explicit method for addressing "gross versus net costs" and saving issues in measure and program evaluation. For equitable comparison across utilities, SoCalGas and SCE were considered as a single utility in the bill savings assessment. On March 28, 2002, the Final Report for the LIEE Program and Measure Cost Effectiveness was submitted to the

⁵ Commission Decision 01-12-020, dated 12/11/01.

⁶ Filed with the Commission on April 24, 2002.

⁷ Filed with the Commission on February 1, 2001; Revised March 5, 2001.

Commission by the Cost Effectiveness subcommittee of the RRMWG and the Standardization Project Team. On September 2, 2002 the project team filed a Preliminary Measure Cost Effectiveness Report.

In Decision 02-12-019, dated December 5, 2002, the Commission ordered the Standardization Project Team to evaluate and file any significant changes to the cost effectiveness assessment and measure recommendations resulting from the program changes adopted by the Commission in its Decision approving the PY 2003 program plans and budgets. On April 8, 2003, an Assigned Commissioners Ruling extended the due date for this report until June 2, 2003.

Energy-related Hardship

SDG&E's LIEE program was able to provide customers with more control over their utility bills, reduce air infiltration and drafts in their homes, and make the dwellings more secure. SDG&E's LIEE program reduced its low-income customer's energy-related hardship by increasing comfort, health, and safety. The new Utility Cost ("UC") test and modified Participant Cost ("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. Repairing and replacing customers' furnaces had a similar impact upon customers' comfort, health and safety.

As part of the PY 2002 Process Evaluation, SDG&E customers were surveyed to assess their satisfaction with the program. The purpose of this survey is to evaluate customer satisfaction with various aspects of their experience with DAP. Additionally, the survey was designed to provide program management with insight into the effectiveness of the program and to identify potential areas for improvement. Portions of that survey devoted questions to deliverables, customer service, increased comfort and safety. Over 2,600 customer records (name, phone number and primary language) with invoice dates from September to November 2002 were sent to CIC research for telephone interviewing. The findings of the survey showed that the majority of customers claim to be more comfortable as a result of the program. While 80% said they are "more comfortable" as a result of the work done by DAP, 16% are "about the same" and 4% said they are "less comfortable". The DAP Program overall received high ratings. Over eight in ten customers (83%) are very satisfied with the DAP overall, with 56% giving the DAP the highest rating of "Completely Satisfied".

<u>Community Based Organizations, Leveraging and Access to Community</u> <u>Services</u>

CBO Participation

SDG&E contracted with Richard Heath & Associates (RHA), a Diverse Business Enterprise (DBE) contractor, to market and manage its PY 2002 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 local licensed HVAC companies, to provide gas furnace repair and replacement services offered through the program. Tables TA 3.5 and TA 3.6 provide details 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 3.6 include agency participation levels in EELI for PY 2002.

Leveraging

California's Low Income Home Energy Assistance Program (LIHEAP) Block Grant weatherization and bill assistance efforts are 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 report \$1.368 million in leveraged resources achieved due to their working with SDG&E for fiscal year October 1, 2001, through September 30, 2002, to the California Department of Community Services and Development (DCSD), the LIHEAP 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 PY 2002 as directed by the Commission in D. 01-05-033. SDG&E and its contract administrator arranged several MOUs in order to leverage RD LIEE with local agencies.

Access to Other Low Income Services

SDG&E has not altered its LIEE referral systems, discussed in its October 2, 2000⁸ 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 3.7 reports lifecyle bill savings by measure, by fuel type, and combined for PY 2002; Table TA 3.8 reports the energy rates used for calculating the bill savings; and Table TA 3.9 reports the bill savings and the cost ratio for SDG&E's LIEE programs over the last three years.

On or before May 1, 2003, PG&E will be filing on behalf of the large investor-owned utilities the 2002 LIEE Program Cost and Bill Savings Standardization Report to provide updated 2002 program savings data.

⁸ Report of San Diego Gas & Electric in Compliance with Ordering Paragraph 10 of Commission Decision (D.) 00-07-020.

Performance Incentives for Low Income Energy Efficiency Program Activities

Under its PY 2001 LIEE program, SDG&E achieved the required threshold savings of 150,921 therms through the installation of basic ("big six") measures required to qualify for \$214,881 in program performance incentives (2% times \$10,744,050 in PY 2001 program expenditures). Therefore, the SDG&E's second performance incentive claim for PY 2001 LIEE program performance is \$107,441, plus \$4,115 in interest from July 1, 2002 through December, 2003, and franchise fees and uncollectibles¹⁰.

During 2002, SDG&E did not meet the minimum performance standard of 150,921 therm savings in order to qualify for shareholder incentives through the installations of the "big six" measures. Therefore, SDG&E is not claiming any performance incentives for its PY 2002 LIEE program.

⁹ The big six LIEE 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.

¹⁰ See 2002 Annual Earnings Proceeding Testimony of San Diego Gas and Electric Company.

Table 2.1.1
Summary of Costs: Low Income - San Diego Gas & Electric (Electric & Gas Combined)

,		20	02			2003
LIEE Program	1	Budgeted		Recorded		Budgeted
Energy Efficiency	100000					
- Gas Appliances	\$	1,017,201	\$	1,132,953	\$	-
- Electric appliances	\$	618,585	\$	5,471,590	\$	12,031,430
- Weatherization	\$	4,784,845	\$	3,237,900	\$	-
- Outreach & Assessment	\$	335,407	\$	192,120	\$	-
- In Home Energy Education	\$	1,085,008	\$	688,825	\$	776,018
- Education Workshops (EELI)	\$	268,107	\$	203,954	\$	203,954
Energy Efficiency Total	\$	8,109,153	\$	10,927,342	\$	13,011,403
Pilots						
- Landlord Refrigerator Rebate	\$	3,682,461	\$	_	\$	
- Landlord Room A/C Rebate	\$	268,822	\$	-	\$	_
- Landlord Central AC Rebate	\$	1,016,400	\$	-	\$	-
- RDWP Cool Zones	\$	-	\$	58,243	\$	58,243
Total Pilots	\$	4,967,683	\$	58,243	\$	58,243
Training center	\$	_	\$	-	\$	-
Inspections	\$	110,492	\$	611,134	\$	331,664
Advertising	\$	-	\$	143,691	\$	143,691
M&E studies	\$	45,065	\$	-	\$	-
Regulatory compliance	\$	88,500	\$	586,148	\$	586,148
Other administration	\$	-	\$		\$	-
Indirect Costs	\$	-	\$	-	\$	-
Oversight Costs	100000					
- LIAB Start-Up	\$	-	\$	-	\$	- 1
- LIAB PY Past Year	\$	-	\$	-	\$	_
- LIAB PY Present Year	\$	23,600	\$	-	\$	-
- CPUC Energy Division	\$	23,600	\$	19,547	\$	31,632
Total Oversight Costs	\$	47,200	\$	19,547	\$	31,632
Shareholder Incentives	\$	-	\$	-	\$	_
				198	200	4
Total Costs	\$	13,368,093	\$	12,346,104	\$	14,162,780

Note:

The costs for Landlord Refrigerator Rebates were included in the Electric appliance category for PY2002.

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

		20	02			20	03
LIEE Program	\$ 1,017,201 \$ 1,132,952.87 \$ \$ - \$ - \$ \$ 4,784,845 \$ 2,914,110.36 \$				Bu	dgete	d
Energy Efficiency							EN S
- Gas Appliances	\$	1,017,201	\$	1,132,952.87	\$		-
- Electric appliances		-	\$	-			-
- Weatherization	\$	4,784,845	\$	2,914,110.36	\$		-
- Outreach & Assessment	\$	26,833	\$		\$		_
- In Home Energy Education	\$	1,012,699	\$	641,961.57	\$	737,	607.34
- Education Workshops (EELI)	\$	53,621	\$	40,790.78	\$	40,	790.78
Energy Efficiency Total	\$	6,895,199	\$	4,739,421.57	\$	778,	398.13
Pilots							
- Landlord Refrigerator Rebate	\$	-	\$	-	\$		-
- Landlord Room A/C Rebate	\$	_	\$	-	\$		-
- Landlord Central AC Rebate	\$	-	\$	-	\$		-
- RDWP Cool Zones	\$	-	\$		\$		-
Total Pilots	\$		\$	-	\$		-
Training center	\$	-	65	-	\$		-
Inspections	\$	99,443	\$	517,066.71	\$	298,	497.36
Advertising	\$	-	\$	129,321.74	\$	129,	321.74
M&E studies	\$	40,559	\$	-	\$		-
Regulatory compliance	\$	79,650	\$	502,761.40	\$	527,	532.89
Other administration	\$	+	\$	-	\$		_
Indirect Costs	\$	-	\$	-	\$		-
Oversight Costs							
- LIAB Start-Up	\$	-	\$	-	\$		-
- LIAB PY Past Year	\$	-	\$	-	\$		-
- LIAB PY Present Year	\$	21,240	\$	-	\$		
- CPUC Energy Division	\$	21,240	\$	17,592.23	\$	28,	468.73
Total Oversight Costs	\$	42,480	\$	17,592.23	\$	28,	468.73
Shareholder Incentives	\$	-	\$	-	\$		-
				-4.4			
Total Costs	\$	7,157,330	\$	5,906,163.64	\$ 1	1,762,	218.83

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

,		20	02		Γ	2003
LIEE Program	Bud	lgeted	Re	corded	Bu	dgeted
Energy Efficiency				41.4		
- Gas Appliances	\$	-	\$	_	\$	-
- Electric appliances	\$	618,585	\$	5,471,590.46	\$	12,031,430.47
- Weatherization	\$	-	\$	323,790.04	\$	-
- Outreach & Assessment	\$	308,574	\$	182,513.68	\$	-
- In Home Energy Education	\$	72,309	\$	46,863.29	\$	38,411.04
- Education Workshops (EELI)	\$.	214,486	\$	163,163.13	\$	163,163.13
Energy Efficiency Total	\$	1,213,954	\$	6,187,920.61	\$	12,233,004.64
Pilots					100	
- Landlord Refrigerator Rebate	\$	3,682,461	\$	_	\$	-
- Landlord Room A/C Rebate	\$	268,822	\$	-	\$	-
- Landlord Central AC Rebate	\$	1,016,400	\$	_	\$	-
- RDWP Cool Zones	\$	-	\$	58,243.08	\$	58,243.08
Total Pilots	\$	4,967,683	\$	58,243.08	\$	58,243.08
Training center	\$	-	\$	-	\$	-
Inspections	\$	11,049	\$	94,066.96	\$	33,166.37
Advertising	\$		\$	14,369.08	\$	14,369.08
M&E studies	\$	4,507	\$	-	\$	-
Regulatory compliance	\$	8,850	\$	83,386.25	\$	58,614.77
Other administration	\$	-	\$	-	\$	-
Indirect Costs	\$	_	\$	-	\$	-
Oversight Costs	is.					The second
- LIAB Start-Up	\$	-	\$	_	\$	-
- LIAB PY Past Year	\$	-	\$	•	\$	
- LIAB PY Present Year	\$	2,360	\$	-	\$	
- CPUC Energy Division	\$	2,360	\$	1,954.69	\$	3,163.19
Total Oversight Costs	\$	4,720	\$	1,954.69	\$	3,163.19
Shareholder Incentives	\$	-	\$	=	\$	-
		12 2 33				
Total Costs	\$	6,210,763	\$	6,439,940.67	\$	12,400,561.14

Note:

The costs for Landlord Refrigerator Rebates were included in the Electric appliance category for PY2002.

Table 2.2 Summary of LIEE Program Effects: DAP - San Diego Gas & Electric Program Year: 2002 (Annual Energy Reductions)

	2002	2003
	(Recorded)	(Planned)
mWh	5402	6118
mTherms	208	173

Summary of LIEE Cost-Effectiveness - San Diego Gas & Electric Program Year: 2002

			(Benefit-0	Cost Ratios)					
		2002			2003				
	(Recorded)			(Planned)					
	Utility Cost	Total Resouce	*Modified Participant	Utility Cost	Total Resouce	*Modified Participant			
	Test	Cost Test	Test	Test	Cost Test	Test			
DAP	0.41	0.63	0.83	0.37	0.65	0.79			

Table 2.4

Summary of LIEE Cost-Effectiveness: DAP - San Diego Gas & Electric Program Year: 2002 (Net Benefits; \$Mil)

		2002			2003		
	(Recorded)			(Planned)			
	Utility Cost	Total Resouce	*Modified Participant	Utility Cost	Total Resouce	*Modified Participant	
	Test	Cost Test	Test	Test	Cost Test	Test	
DAP	\$ (7,298,174)	\$ (4,597,814)	\$ (2,053,787)	\$ (9,126,577)	\$ (5,066,134)	\$ (3,087,024)	

Table TA 3.1 LIEE Program Cost Estimates used for Cost-Effectiveness San Diego Gas & Electric

Gas and Electric Combined

		Utility Costs										
	Program Incentives			Shareholder								
Program	(Reco	(Recorded)		Incentives	Other	Total	IMC					
	Actual	Committed										
Dap & RDWP	\$ 10,374,595.91	\$ -	\$ 1,767,554.50		\$ -	\$ 12,142,150.41	\$ -					
EELI	\$ 192,939.92	\$ -	\$ 11,013.99		\$ -	\$ 203,953.91	\$ -					
Total	\$ 10,567,535.83	\$ -	\$ 1,778,568.49	\$ -	\$ -	\$ 12,346,104.32	\$ -					

Electric Only

	Utility Costs										
	Program Incentives (Recorded)				Shareholder	Other					
Program			1	Admin	Incentives			Total		!	MC
•	Actual	Committed									
Dap & RDWP	\$ 5,959,114.66	\$ -	\$	317,662.88		\$	-	\$	6,276,777.54	\$	-
EELI	\$ 154,351.94	\$ -	\$	8,811.19		\$	-	\$	163,163.13	\$	_
Total	\$ 6,113,466.60	\$ -	\$	326,474.07	\$ -	\$	-	\$	6,439,940.67	\$	-

Gas Only

				Utilit	y Costs				
		Program Ir	ncentives		Shareholder				
Program	ŀ	(Recor	ded)	Admin	Incentives	0	Other	Total	IMC
		Actual	Committed						
Dap & RDWP	\$	4,415,481.25	\$ -	\$ 1,449,891.61		\$	-	\$ 5,865,372.86	\$ -
EELI	\$	38,587.98	\$ -	\$ 2,202.80		\$	-	\$ 40,790.78	\$ -
Total	\$	4,454,069.23	\$ -	\$ 1,452,094.41	\$ -	\$	-	\$ 5,906,163.64	\$ _

Table TA 3.2.1 LIEE Cost Elements - San Diego Gas & electric (Electric & Gas Combined)

(Electric & Gas Combined)		Expenditures Recorded by Cost Element - 2002						
LIEE Program		Labor		Non-Labor		Contract	<u> </u>	Total
Energy Efficiency								
- Gas Appliances	\$	10,854	\$	12,337	\$	1,109,761	\$	1,132,953
- Electric appliances	\$	-	\$	26,684	\$	5,444,907	\$	5,471,590
- Weatherization	\$	151,121	\$	257,368	\$	2,829,412	\$	3,237,900
- Outreach & Assessment	\$	5,648	\$	13,765	\$	172,707	\$	192,120
- In Home Energy Education	\$	65,699	\$	84,787	\$	538,339	\$	688,825
- Education Workshops (EELI)	\$	6,212	\$	4,802	\$	192,940	\$	203,954
Energy Efficiency Total	\$	239,533	\$	399,743	\$	10,288,066	\$	10,927,342
Pilots						100		
Pilot (RDWP COOL ZONES)	\$	-	\$	212.20	69	58,030.88	\$	58,243.08
Total Pilots	\$	-	\$	212.20	\$	58,030.88	\$	58,243.08
Training center	\$	-	\$	-	\$	-	\$	-
Inspections	\$	171,942.15	\$	159,721.58	\$	279,469.94	\$	611,133.67
Advertising	\$	-	\$	3,285.92	\$	140,404.90	\$	143,690.82
M&E studies	\$	-	\$	_	\$	-	\$	-
Regulatory compliance	\$	125,783.22	\$	111,319.27	\$	349,045.16	\$	586,147.65
Other administration	\$	-	\$	-	\$	-	\$	-
Indirect Costs	\$	-	\$	_	\$	<u> </u>	\$	-
Oversight Costs				200				
- LIAB Start-Up	\$	-	\$	-	\$	-	\$	-
- LIAB PY Past Year	\$	_	\$		\$	-	\$	-
- LIAB PY Present Year	\$	_	\$	-	\$	_	\$	•
- CPUC Energy Division	\$	-	\$	19,546.92	\$		\$	19,546.92
Total Oversight Costs	\$				\$		\$	19,546.92
Total Costs	\$	537,258.86	\$6	693,828.69	\$ 1	11,115,016.77	\$ 1	2,346,104.32

Note:

The costs for Landlord Refrigerator Rebates were included in the Electric appliance category for PY2002.

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

•	Г	Expend	itu	res Recorde	d b	y Cost Elemen	t - 2	2002
LIEE Program		Labor		Non-Labor		Contract		Total
Energy Efficiency		-11		de talente	4			
- Gas Appliances	\$	10,854.49	\$	12,337.28	\$	1,109,761.10	\$	1,132,952.87
- Electric appliances	\$	-	\$		\$		\$	_
- Weatherization	\$	136,008.83	\$	231,631.12	\$	2,546,470.41	\$	2,914,110.36
- Outreach & Assessment	\$	282.38	\$	688.24	\$	8,635.36	\$	9,605.98
- In Home Energy Education	\$	62,413.98	65	80,490.15		499,057.43	\$	641,961.57
- Education Workshops (EELI)	\$	1,242.31	\$	960.49	\$	38,587.98	\$	40,790.78
Energy Efficiency Total	\$	210,801.99	\$	326,107.29	\$	4,202,512.29	\$ -	4,739,421.57
Pilots		1			11			1.0
Pilot (A)	\$	-	\$	-	\$	-	\$	
Total Pilots	\$	_	\$	-	\$	<u>.</u>	\$	-
Training center	\$	-	\$	-	\$	-	\$	-
Inspections	\$	134,789.06	\$	130,720.70	\$	251,556.95	\$	517,066.71
Advertising	\$	-	\$	2,957.33	\$	126,364.41	\$	129,321.74
M&E studies	\$	-	\$	_	\$	-	\$	-
Regulatory compliance	\$	97,903.78	\$	90,716.98	\$	314,140.64	\$	502,761.40
Other administration	\$	-	\$	-	\$	-	\$	-
Indirect Costs	\$	-	\$		\$	-	\$	-
Oversight Costs								
- LIAB Start-Up	\$	-	\$	-	\$	-	\$	-
- LIAB PY Past Year	\$	-	\$	-	\$	+	\$	-
- LIAB PY Present Year	\$	-	\$	-	\$	-	\$	-
- CPUC Energy Division	\$	-	\$	17,592.23	\$	-	49	17,592.23
Total Oversight Costs	\$	-	\$	17,592.23	\$	-	\$	17,592.23
Total Costs	\$	443,494.83	\$	568,094.53	\$	4,894,574.29	\$:	5,906,163.64

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

,	Expenditures Recorded by Cost Element - 2002						2002	
LIEE Program		Labor	1	Non-Labor		Contract		Total
Energy Efficiency			(1) g (1) g					
- Gas Appliances	\$	-	\$	-	\$	-	\$	-
- Electric appliances	\$	-	\$	26,683.78	\$	5,444,906.68	\$:	5,471,590.46
- Weatherization	\$	15,112.09	\$	25,736.79	\$	282,941.16	\$	323,790.04
- Outreach & Assessment	\$	5,365.22	\$	13,076.61	\$	164,071.86	\$	182,513.68
- In Home Energy Education	\$	3,284.95	\$	4,296.38	\$	39,281.97	\$	46,863.29
- Education Workshops (EELI)	\$	4,969.24	\$	3,841.95	\$	154,351.94	\$	163,163.13
Energy Efficiency Total	\$	28,731.50	\$	73,635.51	\$	6,085,553.60	\$ (3,187,920.61
Pilots								
Pilot (A)	\$	-	\$	212.20	\$	58,030.88	\$	58,243.08
Total Pilots	\$	-	\$	212.20	\$	58,030.88	\$	58,243.08
Training center	\$	-	\$	-	\$	-	\$	-
Inspections	\$	37,153.09	\$	29,000.88	\$	27,912.99	\$	94,066.96
Advertising	\$	-	\$	328.59	\$	14,040.49	\$	14,369.08
M&E studies	\$	-	\$	-	\$	-	\$	-
Regulatory compliance	\$	27,879.44	\$	20,602.29	69	34,904.52	\$	83,386.25
Other administration	\$	-	\$	-	\$	-	\$	
Indirect Costs	\$	-	\$	-	65	_	\$	-
Oversight Costs	110.4							
- LIAB Start-Up	\$	-	(\$	-	49	-	\$	-
- LIAB PY Past Year	\$	-	\$	-	\$	<u>-</u>	\$	-
- LIAB PY Present Year	\$. =	\$\$	ı	69	-	\$	-
- CPUC Energy Division	\$	-	\$	1,954.69	\$	-	\$	1,954.69
Total Oversight Costs	\$	•	\$	1,954.69	\$	_	\$	1,954.69
Total Costs	\$	93,764.03	\$	125,734.16	\$	6,220,442.48	\$ 6	5,439,940.67

Note:

The costs for Landlord Refrigerator Rebates were included in the Electric appliance category for PY2002.

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

	Energy	Saved and	Pr	rogram Costs	Nun	nber of Dwell	ngs
	2002	2002			2002	2002	2003
	(mWh)	(mTherm)		2001 Expenses	(Planned)	(Actual)	(Planned)
Gas Heat - Own							
- Single Family	747	29	\$	1,434,542	1521	1948	1936
- Multi Family	606	23	\$	1,164,488	1235	1581	1571
- Mobile Home	208	8	\$	399,229	423	542	539
Sub Total Dwellings Served	1561	60	\$	2,998,258	3179	4072	4046
Gas Heat - Rent					101		
- Single Family	1450	56	65	2,784,699	2953	3782	3758
- Multi Family	1177	45	\$	2,260,476	2397	3070	3050
- Mobile Home	403	16	\$	774,973	822	1052	1046
Sub Total Dwellings Served	3030	117	\$	5,820,148	6171	7904	7854
Electric Heat - Own							199
- Single Family	132	5	\$	253,154	268	344	342
- Multi Family	107	4	\$	205,498	218	279	277
- Mobile Home	37	1	\$	70,452	75	96	95
Sub Total Dwellings Served	275	11	\$	529,104	561	719	714
		4-4-4	4				
Electric Heat - Rent	***						
- Single Family	256	10	\$	491,417	521	667	663
- Multi Family	208	8	\$	398,908	423	542	538
- Mobile Home	71	3	\$	136,760	145	186	185
Sub Total Dwellings Served	535	21	\$	1,027,085	1089	1395	1386
	1-1-1	1000					
Total Dwellings Served	5402	208	\$	10,374,596	11000	14089	14000

Table TA 3.4
Program Detal by Measure - San Diego Gas & Electric

		and Program Costs		Number of Dwellings Served
	ļ <i>'</i>	2002 T		2002
	mWh	mTherm	Expenses	Actual Dwellings Served
Furnaces		San San San Sala	2100	THE STATE OF STREET
- Repair - Gas	0		\$ 62,879	
- Replacement - Gas	0	<u> </u>		367
- Repair - Electric	0		\$ -	0
- Replacement - Electric	0	0	\$ -	0
Lofikration & Space Conditioning 1974 the contract of the cont	GES DESCRIPTION	UNITED THE	Assistant	Burgers of Constitution
- Cover Plates/Gaskets	0	0		5389
- Evaporative Cooler/Air Cond. Covers	0	4		135
- HVAC Air Filter Replacement	0	0	\$ -	0
Weatherization				三 三 三 三 三 三 三 三 三 三 三 三 三 三 三 三 三 三 三
- Ceiling Insulation R-11 (Gas)	0	0		20
- Ceiling Insulation R-11 (Electric)	0	0		
- Ceiling Insulation R-19 (Gas)	0		\$ 41,328	71
- Ceiling Insulation R-19 (Electric)	0			
- Ceiling Insulation R-30 (Gas)	0	6		271
- Ceiling Insulation R-30 (Electric)	2	0		48
- Water Heater Blanket (Gas)	0			529
- Water Heater Blanket (Electric) - Low Flow Showerhead (Gas)	13	0 46		93 5211
- Low Flow Showerhead (Cas) - Low Flow Showerhead (Electric)	197	0		920
- Weatherstripping -MF (Gas)	0	4		3111
- Weatherstripping -MF (Electric)	3	ō		549
- Weatherstripping -SF (Gas)	Ö	10	\$ 322,260	3108
- Weatherstripping -SF (Electric)	3	0		548
- Caulking - MF	0	5		3482
- Caulking - SF	0	12	\$ 284,060	3892
- Minor Home Repairs	16	26		3295
- Attic Access Weatherstripping [1]	0	0		0
Water Heater Savings	4.4466E-1076-03			The state of the s
- Water Heater Pipe Wrap	0	2	\$ 5,747	264
- Faucet Acrators	0	56	\$ 80,381	6930
Miscellaneous Measures 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26 26 21 2 2 2 2	24 27 27		to restrict the second
- Attic Ventilation	0	0		124
- Auto Sweep	0	0		167
- Door Replacement	0	0		1230
- Door Threshold	0	0		1687
- Glass Replacement	0	0	<u> </u>	959
- Jamb Replacement	0	0		79
- Duct Register Scaling and Repair	0	0	20.000.000.000.000.000.000.000.000.000.	688
Portable Evaporative Coolers	0	. 0	7	0
Permanent Evaporative Coolers	1	0		4
Compact Fluorescents (inc. porchlights)	1613	. 0	7	10147
Porchlights (fixture replacement or CFBs)	23	0	\$ 15,254	272
Refrigerators	2574	0	\$ 3,976,908	6401
Landlord Rebate Pilots	NAME OF THE PARTY	er of adjuster of the second	workship of Africa William Charles and	* 14 * 15 * 15 * 15 * 15 * 15 * 15 * 15
- Refrigerators	Committee of the commit		and the second section of the second section	THE PROPERTY OF STREET WITH THE PROPERTY OF TH
- Air Conditioner Replacement - Room	35	0	\$ 28.093	87
- An Commoner Reputement - Room	35	0		87 0
- Air Conditioner Replacement - Room - Air Conditioner Replacement - Central	35		\$ -	}
- Air Conditioner Replacement - Central	35 0	0	\$ -	0
	35 0 0	0	\$ - \$ -	0
- Air Conditioner Replacement - Central Pilots - Rapid Deployment - Air Conditioner Replacement - Room	35 0 0 110	0 0	\$ - \$ - \$ 251,042	324
- Air Conditioner Replacement - Central Pilots - Rapid Deployment	35 0 0 110 230	0 0	\$ - \$ - \$ 251,042 \$ 748,646	0 0 324 294
- Air Conditioner Replacement - Central Pilots - Rapid Deployment - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central	35 0 0 110	0 0 0 0 0 0	\$ - \$ - \$ 251,042	324 294 43
- Air Conditioner Replacement - Central Pilots - Rapid Deployment - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central - Duct Sealing and Repair (Electric Heat)	35 0 0 110 230 18	0 0 0 0 0 0 0 7	\$ - \$ - \$ 251,042 \$ 748,646 \$ 22,132	324 294 43 242
- Air Conditioner Replacement - Central Pilots - Rapid Depksyneut - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central - Duct Sealing and Repair (Electric Heat) - Duct Sealing and Repair (Gas Heat)	35 0 0 110 230 18 57	0 0 0 0 0 0 7 7	\$ - \$ 251,042 \$ 748,646 \$ 22,132 \$ 125,417	0 0 324 294 43 242
- Air Conditioner Replacement - Central Filois - Rapid Deployment - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central - Duct Sealing and Repair (Electric Heat) - Duct Sealing and Repair (Gas Heat) - Whole House Fans	35 0 0 110 230 18 57 0	0 0 0 0 0 0 0 7 7 0	\$ - \$ 251,042 \$ 748,646 \$ 22,132 \$ 125,417 \$ -	324 2294 43 242 0 593
- Air Conditioner Replacement - Central Pilots - Rapid Deployment - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central - Duct Sealing and Repair (Electric Heat) - Duct Sealing and Repair (Gas Heat) - Whole House Fans - Water Heater Replacement - Gas	35 0 0 110 230 18 57 0 0	0 0 0 0 0 0 7 7 0 0 12 12	\$	324 294 43 242 (0 593
- Air Conditioner Replacement - Central Pilots - Rapid Depksyment - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central - Duet Sealing and Repair (Electric Heat) - Duet Sealing and Repair (Gas Heat) - Whole House Fans - Water Heater Replacement - Gas - Water Heater Replacement - Electric - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Gas Heat)	35 0 0 110 230 18 57 0 0 0 7	0 0 0 0 0 7 7 0 12 0 0	\$ - \$ 251,042 \$ 748,646 \$ 22,132 \$ 125,417 \$ - \$ 410,980 \$ 5,505 \$ 31,285	324 294 43 242 0 593 744
- Air Conditioner Replacement - Central Pilots - Rapid Deployment - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central - Duct Sealing and Repair (Electric Heat) - Duct Sealing and Repair (Electric Heat) - Whole House Fans - Water Heater Replacement - Gas - Water Heater Replacement - Electric - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Gas Heat)	35 0 0 110 230 18 57 0 0 0 0 7 7	0 0 0 0 0 7 7 0 12 0 0 0	\$ - \$ 251,042 \$ 748,646 \$ 22,132 \$ 125,417 \$ - \$ 410,980 \$ - \$ 5,505 \$ 31,285 \$ 3,133	0 0 324 294 43 242 0 593 0 74 421
- Air Conditioner Replacement - Central Pilots - Rapid Depksyment - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central - Duet Sealing and Repair (Electric Heat) - Duet Sealing and Repair (Gas Heat) - Whole House Fans - Water Heater Replacement - Gas - Water Heater Replacement - Electric - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Gas Heat)	35 0 0 110 230 18 57 0 0 0 7	0 0 0 0 0 7 7 0 12 0 0 0	\$ - \$ 251,042 \$ 748,646 \$ 22,132 \$ 125,417 \$ - \$ 410,980 \$ 5,505 \$ 31,285	0 0 324 294 43 242 0 593 0 74 421
- Air Conditioner Replacement - Central Pilois - Rapid Deployment - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central - Duct Sealing and Repair (Electric Heat) - Duct Sealing and Repair (Electric Heat) - Water Heater Replacement - Gas - Water Heater Replacement - Electric - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Gas Heat)	35 0 0 110 230 18 57 0 0 0 0 7 7	0 0 0 0 0 7 7 0 12 0 0 0	\$ - \$ 251,042 \$ 748,646 \$ 22,132 \$ 125,417 \$ - \$ 410,980 \$ - \$ 5,505 \$ 31,285 \$ 3,133	0 0 324 294 43 242 0 593 0 74 421
- Air Conditioner Replacement - Central Filois - Rapid Deployment - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central - Duct Sealing and Repair (Electric Heat) - Duct Sealing and Repair (Electric Heat) - Water Heater Replacement - Gas - Water Heater Replacement - Electric - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Gas Heat) - Set-back Thermostats (Gas Heat) - Evaporative Cooler Maintenance - New Central Return	35 0 0 110 230 18 57 0 0 0 0 7 7	0 0 0 0 0 7 7 0 12 0 0 0	\$ 251,042 \$ 748,646 \$ 22,132 \$ 125,417 \$	0 0 324 294 43 242 0 593 0 74 421
- Air Conditioner Replacement - Central Pilots - Rapid Deployment - Air Conditioner Replacement - Room - Air Conditioner Replacement - Central - Duct Sealing and Repair (Electric Heat) - Duct Sealing and Repair (Electric Heat) - Whole House Fans - Water Heater Replacement - Gas - Water Heater Replacement - Electric - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Electric Heat) - Set-back Thermostats (Gas Heat) - Evaporative Cooler Maintenance - New Central Return	35 0 0 110 230 18 57 0 0 0 7 4 4 2 2	0 0 0 0 0 0 7 7 0 122 0 0 0 133 0 0	\$ -5 \$ 251,042 \$ 748,646 \$ 22,132 \$ 125,417 \$ -1 \$ 410,980 \$ 5,505 \$ 31,285 \$ 3,133 \$ 141,374	0 0 324 294 43 242 0 593 0 74 421 14 207

Table TA 3.5 Program Installation San Diego Gas & Electric

San Drago Gas of Electric												
	Unit of Measure		CBO/WMDVBE	VBE	Ż	Non-CBO/WMDVBE	OVBE			Total		
		Units Installed	Dwellings	Costs	Units Installed	Dwellings	Costs	Units Installed	Dwellings	Costs	Cost/ Unit	Cost/ Dwelling
Dwellings	Each											П
Furnaces											i.	
Repair - Gas	Each	444		\$ 49,943	\$ 115	\$ 115	\$ 12,936	559	559		\$ 112	59
Replacement - Gas	Each	98	98	\$ 157,700	\$ 281	\$ 281	\$ 515,274	367	367	\$ 672,974	\$ 1,834	\$
Repair - Electric	Each	0	0	- \$	0	0		0	0		63	69
Replacement - Electric	Each	0	\$ 0		0	0		0	0		چ	•
Infiltration & Space Conditioning												
- Ceiling Insulation	Sq. Ft.	240440	236	\$ 188,599	209915	190	\$ 164,656	450355	426 \$	\$ 353,255	\$ 0.78	s
- Caulking	Linear Ft.	81631	3657	\$ 212,064	72309	3717	\$ 187,846	153940	7374 \$	\$ 399,909	\$ 2.60	54
- Weather Stripping	Each	5308	3647	\$ 308,355	5303	3669	\$ 308,065	10611	7316 \$	\$ 616,420	69	8
- Cover Plates/Gaskets	Each	16937	2886 \$		16530	2503 \$	\$ 21,751	33467	\$ 6885		8	65
- Evaporative Cooler/Air Cond. Covers	Each	24	24		112	111	\$ 4,016	136	135 \$	\$ 4,876	\$ 36	\$
- Air Conditioner Replacement - Room	Each	324	324 \$	7	0	0		324	324 \$		\$ 775	5 \$ 775
- Air Conditioner Reptacement - Central	Each	30	30		264	264 \$	۳	294	294 \$		\$ 2,546	\$ 2
- Duct Sealing and Repair	Each	173	173 \$	\$ 89,565	112		\$ 57,984	285	285 \$	\$ 147,549	\$ 518	3 \$ 518
- Whole House Fans	Each	0	0		0	0		0			•	\$
- Set-back Thermostats	Each	307	\$ 908		189	189 \$	\$ 14,019	496	495 \$.,	\$	\$
- Evaporative Cooler Maintenance	Each	14			0	0	\$ -	14		\$ 3,133	\$ 224	\$
- Attic Ventilation	Home	104.5	\$ 22		110.48		\$ 6,684	214.98		\$ 13,007	\$ 61	105
- Auto Sweep	Each	164	156	\$ 7,442	13	11	\$ 280	177	167 \$	\$ 8,032	\$ 45	\$
- Door Replacement	Each	812	642 \$		723	\$ 885		1535	1230 \$		\$ 129	3 \$ 161
- Door Threshold	Each	1402	937.		1008	750 \$		2410	1687 \$		\$ 30	\$
- Glass Replacement	Sq. Ft.	4489	538 \$		3365	421 \$	35	7854	\$ 656	~	\$	s
- Jamb Replacement	Each	97	69	\$ 2,934	16	10		113	\$ 64		\$	s
- New Central Return	Home	33	33 \$		174	174 \$	\$ 118,836	207	207	\$ 141,374	\$ 683	8 \$ 83
Water Heating Savings						10 April 10					ALC: NEW YORK	
- Water Heater Blanket	Each	329	327	\$ 9,456	298	295		627	622	\$ 18,021	\$ 29	49
- Low Flow Showerhead	Each	6604		Ļ	7213	3604 \$	12	13817		\$ 240,050	21 \$	8
- Water Heater Pipe Wrap	Lincar Ft.	1113.5			533	81		1646.5		\$ 5,747	\$	3 \$ 22
- Faucet Aerators	Each	6604	3326 \$		7213	3604 \$		13817	\$ 0869		es es	နှ
Water Heater Replacement	Each	349	349	\$ 241,875	244	244	\$ 169,105	593	593	\$ 410,980	\$ 693	3 \$ 693
						100					The second	
Minor Home Repairs (other than above)	Home	1772	1761	\$ 223,138	1545	1534	\$ 194,553	3317	3295	\$ 417,691	\$ 126	5 \$ 127
					D. Carlo							
Miscellaneous Measures	Home	1185	242	\$ 20,681	2891	446	\$ 50,456	4076	688	\$ 71,137	\$	\$ 103
											March 200	
Evaporative Coolers	Each	4	4	\$ 3,415	0	0	٠.	4	4	\$ 3,415	\$ 854	1 \$ 854
		100										
Refrigerators	Each	6488	6488	\$ 4,005,001	0	0		6488	6488	\$ 4,005,001	\$ 617	7 \$ 617
			100					医线细胞 建建				
Compact Fluorescents (inc. porchlights)	Each	23503	10147	\$ 447,023	0	0	-	23503	10147	\$ 447,023	\$ 19	\$
Porchlights (fixture replacement)	Each	142	116	\$ 6,352	199	156	\$ 8,902	341	272	\$ 15,254	\$ 45	5 \$ 56
					10000						and the second	
Outreach Education Administration	Home	14089	14089 \$	\$ 798,666.56	0	0	\$	14089	14089 \$	\$ 798,666.56	\$ 27	7 \$ 57

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 2002 San Diego Gas & Electric

WMDVBE Certified % Dwellings Served Contractor Classification Vendor Program LIEE* CBO Participants Contractor C Contractor D Subtotal 16% 25% 25% 65% Non-CBO Participants Contractor A Contractor B Contractor E Furnace Work 0% 0% CBO Participants Subtotal 6% 16% 4% 3% Non-CBO Participants Contractor F No Yes No Contractor G Contractor H Contractor I 48% 5% Yes Yes Contractor K 8% 9% Contractor L Contractor M 100% Refrigerator Replacement 0% 0% CBO Participants Subtotal 100% 100% Yes Non-CBO Participants Subtotal Water Heater Replacement 0% 0% CBO Participants 5% Non-CBO Participants Contractor F Νo 3% 56% 2% 3% 7% Contractor G No Yes Contractor I Contractor L No 24% 100% Contractor M Subtotal Central and Wall Air Conditions CBO Participants 0% 0% Subtotal 14% 0.3% 0.2% Non-CBO Participants No Contractor F Contractor G Contractor H No Yes 4% 52% 5% 7% Contractor I Yes Contractor J Yes No No Contractor K Contractor L Contractor M 18% 100% EELI CBO Participants 14.79% 01 02 4.16% 0.45% 3.06% 3.35% 7.38% 0.34% 1.23% 0.83% No No 04 05 06 07 No No 08 09 10 11 11.28% 21.78% No No No No 0.09% 12 13 2.46% 2.09% 1.78% 0.56% 24.39% 100% 14 15 16 17 Subtotal 0%

Non-CBO Participants

Subtotal

TABLE TA 3.7 LIFE CYCLE BILL SAVINGS

San Diego Gas & Electric 2002

Measure Description	Number Installed	Electric Impact Ga			Total Measure Life Cycle Bill Savings	
		(kWh)	(Therms)	(years)	(\$)	
Weather stripping (Gas) - MF	3,111	0	1	5	\$ 14,798	
Weather stripping (Electric) - MF	549	5	0	5	\$ 1,700	
Weather stripping (Gas) - SF	3,108	0	3	5	\$ 33,787	
Weather stripping (Electric) - SF	548	5	0	5	\$ 1,698	
Minor Home Repair Materials	3,295	5	8	10	\$ 177,929	
Low Flow Showerheads (Gas)	6,424	0	7	10	\$ 280,295	
Low Flow Showerheads (Electric)	1,134	174	0	10	\$ 217,836	
Caulking - MF	3,482	0	1	5	\$ 16,563	
Caulking - SF	3,892	0	3	5	\$ 42,316	
Ceiling Insulation R-19 (Gas)	71	0	21	25		
Ceiling Insulation R-19 (Electric)	13	34	0	25	\$ 863	
Ceiling Insulation R-11 (Gas)	20	0	21	25	\$ 4,541	
Ceiling Insulation R-11 (Electric)	3	34	0	25	\$ 236	
Ceiling Insulation R-30 (Gas)	271	0	21	25	\$ 62,980	
Ceiling Insulation R-30 (Electric)	48	34	0	25	\$ 3,279	
Water Heater Blankets (Gas)	533	0	6	5	\$ 10,502	
Water Heater Blankets (Electric)	94	138	0	5	\$ 8,036	
Evaporative Cooler Cover	135	0	26	3	\$ 7,501	
Furnace Replacement	367	0	0	22	\$ -	
Refrigerator Replacement	6,401	402	0	15	\$ 3,821,073	
Landlord Rebate Refrigerator	87	402	0	15	\$ 51,935	
Exterior CFL Fixture	341	69	0	- 20	\$ 41,703	
Compact Fluorescent Lights	23,503	69	0	9	\$ 1,639,370	
Evaporative Cooler Replacement	4	130	0	7	\$ 430	
Furnace repairs	559	0	0	15	\$ -	
Pipe wrap	264	0	8	7	\$ 9,591	
Aerators	6,930	0	8	7	\$ 255,528	
Outreach/assessment	10,506	47	0	10	\$ 545,276	
Wall/Window Air Conditioners	324	339	0	11	\$ 130,474	
Central A/C	294	781	0	18	\$ 383,852	
Evap Cooler Maintenance & Repair	14	160	0	4	\$ 1,136	
Whole House Fans	-	223	0	20	\$ -	
Gas Water Heaters	593	0	21	15	\$ 101,438	
Duct Sealing & Repair (Electric Heat)	43	425	0	25		
Duct Sealing & Repair (Gas Heat)	242	237	27	25	\$ 188,065	
Set back Thermostat (Electric Heat)	74	88	0.	. 15		
Set back Thermostat (Gas Heat)	422	9	30	15		
Total Bill Savings for All Measures in Program Yea	ir				S 8,226,312	

Total Number of Homes Served by the Program during Program Year Life Cycle Bill Savings Per Home

14089

\$

584

TABLE TA 3.8
ENERGY RATES USED FOR BILL SAVINGS CALCULATIONS
San Diego Gas & Electric

Year	\$/kWh	\$/Therm
2003	0.1362	0.7474
2004	0.1403	0.7698
2005	0.1445	0.7929
2006	0.1488	0.8167
2007	0.1533	0.8412
2008	0.1579	0.8664
2009	0.1626	0.8924
2010	0.1675	0.9192
2011	0.1725	0.9468
2012	0.1777	0.9752
2013	0.1830	1.0044
2014	0.1885	1.0346
2015	0.1942	1.0656
2016	0.2000	1.0976
2017	0.2060	1.1305
2018	0.2122	1.1644
2019	0.2186	1.1994
2020	0.2251	1.2353
2021	0.2319	1.2724
2022	0.2388	1.3106
2023	0.2460	1.3499
2024	0.2534	1.3904
2025	0.2610	1.4321
2026	0.2688	1.4751
2027	0.2769	1.5193
2028	0.2852	1.5649
2029	0.2937	1.6118
2031	0.3116	1.7100
2032	0.3210	1.7613

TABLE TA 3.9 BILL SAVINGS San Diego Gas & Electric

Program Year	Pro	ogram Costs	Li	Program ifecycle Bill Savings	Program Savings/ Ratio		Averag	r Home ge Lifecycle Savings
2000	\$	6,414,270	\$	2,989,907		0.47	\$	219
2001	\$	11,515,307	\$	6,936,088		0.60	\$	359
2002	\$	12,358,189	\$	8,226,312		0.67	\$	584