

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

<sup>&</sup>lt;sup>1</sup> 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 \$111,556<sup>2</sup>.

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.

<sup>&</sup>lt;sup>2</sup> 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

CHILLEGE		
<ul> <li>Asian Chinese Times</li> </ul>	14,000	San Diego County
We Chinese in America	5,000	San Diego County
<u>Filipino</u>		
<ul> <li>Asian Journal San Diego</li> </ul>	35,000	San Diego County
• Filipino Press	25,000	San Diego County
Vietnamese		
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.<sup>3</sup> 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

<sup>&</sup>lt;sup>3</sup> 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, 2003<sup>4</sup>. 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:

<sup>&</sup>lt;sup>4</sup> 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.<sup>5</sup>
- A statewide LIEE PY 2001 process evaluation and impact study was conducted.<sup>6</sup>
- An update to the comparative Joint Utility LIEE Program Costs and Bill Savings Standardization Report<sup>7</sup> 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

<sup>&</sup>lt;sup>5</sup> Commission Decision 01-12-020, dated 12/11/01.

<sup>&</sup>lt;sup>6</sup> Filed with the Commission on April 24, 2002.

<sup>&</sup>lt;sup>7</sup> 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, 2000<sup>8</sup> 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.

<sup>&</sup>lt;sup>8</sup> 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 uncollectibles<sup>10</sup>.

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.

<sup>&</sup>lt;sup>9</sup> 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.

<sup>&</sup>lt;sup>10</sup> 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	2003				
LIEE Program		Budgeted Records			Budgeted		
Energy Efficiency		27.24.454					
- 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					i		
- LIAB Start-Up	\$	-	\$	-	\$	-	
- 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	\$	-	\$	-	\$	_	
	12.1	++				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)

	2002				2003			
LIEE Program				corded	Bu	dgeted		
Energy Efficiency						Frank Mills		
- Gas Appliances	\$	1,017,201	\$	1,132,952.87	\$	-		
- Electric appliances	\$	-	\$	-	\$	-		
- Weatherization	\$	4,784,845	\$	2,914,110.36	\$	_		
- Outreach & Assessment	\$	26,833		9,605.98	\$	_		
- 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					1010			
- Landlord Refrigerator Rebate	\$	_	\$	_	\$			
- Landlord Room A/C Rebate	\$	-	\$		\$	-		
- Landlord Central AC Rebate	\$	-	\$	-	\$	<del>-</del>		
- RDWP Cool Zones	\$	-	\$		\$	_		
Total Pilots	\$	-	\$		\$	_		
Training center	\$	-	\$	_	\$	_		
Inspections	\$	99,443	\$	517,066.71	\$	298,497.36		
Advertising	\$	-	\$	129,321.74	\$	129,321.74		
M&E studies	\$	40,559	\$	<u> </u>	\$			
Regulatory compliance	\$	79,650	\$	502,761.40	\$	527,532.89		
Other administration	\$	-	\$	-	\$	_		
Indirect Costs	\$	-	\$	_	\$	-		
Oversight Costs								
- LIAB Start-Up	\$	_	\$	-	\$	<u> </u>		
- 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	\$	-	\$	-	\$	-		
Total Costs	\$	7,157,330	\$	5,906,163.64	\$	1,762,218.83		

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

	2002					2003		
LIEE Program	Budgeted			corded	Budgeted			
Energy Efficiency	80018							
- 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		e se lesion			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	\$	<u> </u>	\$	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								
- 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	\$	-	\$	-	\$	-		
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-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	(Recorded)		Admin	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

				Utilit	y Costs						
Program Incentives				Shareholder							
Program	(Recorded)		1	Admin	Incentives	Other		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

	Utility Costs											
	Program Ir		Shareholder									
Program	(Recorded)		Admin	Incentives		Other Total			I			
	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		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			11			1000		4.4		
Pilot (RDWP COOL ZONES)	\$	_	\$	212.20	\$	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	69	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	\$	-	\$	-	\$	-	\$	-		
Oversight Costs				3						
- 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	\$	-	\$	19,546.92		
Total Costs	\$	537,258.86	\$6	593,828.69	\$ 1	1,115,016.77	\$ 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)

(000)	Expenditures Recorded by Cost Element - 2002									
LIEE Program		Labor		Non-Labor		Contract		Total		
Energy Efficiency										
- Gas Appliances	\$	10,854.49	\$	12,337.28	\$	1,109,761.10	\$	1,132,952.87		
- Electric appliances	\$	-	<del>(\$</del>		\$	_	\$	_		
- Weatherization	\$	136,008.83	\$	231,631.12	\$	2,546,470.41	\$ :	2,914,110.36		
- Outreach & Assessment	\$	282.38	\$	688.24	<b>6</b> 3	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					\$	40,790.78		
Energy Efficiency Total	\$	210,801.99	\$	326,107.29	\$	4,202,512.29	69	4,739,421.57		
Pilots										
Pilot (A)	\$	_	64	-	\$	-	64			
Total Pilots	\$	_	\$	-	\$	-	69	-		
Training center	\$	-	\$	-	<del>(</del> 5	-	\$	-		
Inspections	\$	134,789.06	\$	130,720.70	<b>69</b>	251,556.95	\$	517,066.71		
Advertising	\$	-	\$	2,957.33	<del>(S</del>	126,364.41	\$	129,321.74		
M&E studies	\$	-	\$	-	<b>65</b>	-	\$	-		
Regulatory compliance	\$	97,903.78	\$	90,716.98	\$	314,140.64	\$	502,761.40		
Other administration	\$	-	\$	-	<b>65</b>	-	\$	-		
Indirect Costs	\$	-	\$	-	\$	-	\$	-		
Oversight Costs										
- LIAB Start-Up	\$	-	\$	-	\$	-	\$	-		
- LIAB PY Past Year	\$	-	\$	<b>-</b>	<b>6</b> 5		\$			
- LIAB PY Present Year	\$		\$	<del>-</del>	44	-	63	-		
- CPUC Energy Division	\$	-	\$	17,592.23	\$	-	\$	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									
LIEE Program		Labor		Non-Labor		Contract		Total		
Energy Efficiency										
- 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	\$			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	<del>(</del> \$	34,904.52	\$	83,386.25		
Other administration	\$	-	\$	-	\$	-	\$			
Indirect Costs	\$	-	\$	-	65	-	\$	-		
Oversight Costs										
- LIAB Start-Up	\$	-	<del>(\$</del>	-	49	-	\$	-		
- LIAB PY Past Year	\$	-	\$	-	\$	-	\$	-		
- LIAB PY Present Year	\$		\$	-	\$	-	\$	-		
- 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	ogram 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
							1.3
Gas Heat - Rent					1.12.7		
- Single Family	1450	56	\$	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							17 14 2
- 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				
Electric Heat - Rent							
- Single Family	256	10	63	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
	Programme and the						
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
		2002		2002
	mWh	mTherm	Expenses	Actual Dwellings Served
Piunaces	LEAD TO SERVICE	Targetti edi	3100	CHANGE MET BOOK MES
- Repair - Gas	C		\$ 62,879	559
- Replacement - Gas			\$ 672,974	367
- Repair - Electric			\$ -	0
- Replacement - Electric	C	0	\$ -	0
Infiltration & Space Conditioning 1974 the first of the f	BIG USE SECO	Part week strike	30 30 FB 1	With Table 157 Carry Carry
- Cover Plates/Gaskets		0		5389
- Evaporative Cooler/Air Cond. Covers				135
- HVAC Air Filter Replacement	C	0	\$ -	0
Weatherization	gare of East	2000 100		· · · · · · · · · · · · · · · · · · ·
- Ceiling Insulation R-11 (Gas)	C	0		20
- Ceiling Insulation R-11 (Electric)	<u>_</u>			3
- Ceiling Insulation R-19 (Gas)	C		\$ 41,328	71
- Ceiling Insulation R-19 (Electric)			7 17-2-2	13
- Ceiling Insulation R-30 (Gas)	<u> </u>			271
- Ceiling Insulation R-30 (Electric)	2	0		48
- Water Heater Blanket (Gas)	0			529
- Water Heater Blanket (Electric)	13	0		93
- Low Flow Showerhead (Gas) - Low Flow Showerhead (Electric)	107			5211
- Low Flow Showerhead (Electric) - Weatherstripping -MF (Gas)	197	0 4		920 3111
- Weatherstripping -MF (Gas) - Weatherstripping -MF (Electric)	9			
- Weatherstripping -Mr (Electric) - Weatherstripping -SF (Gas)	3	0 10	\$ 35,594 \$ 322,260	549 3108
- Weatherstripping -SF (Electric)	3			548
- Caulking - MF	0			3482
- Caulking - SF	0	12		3892
- Minor Home Repairs	16	26		3295
- Attic Access Weatherstripping [1]	,,,	0		3253
		0	-	U
Water Heater Savings		0	6 5747	204
- Water Heater Pipe Wrap - Faucet Aerators	0	2 56		264 6930
	U	JU	<b>3</b> 00,001	0930
Miscellaneous Messures 25 17 17 17 17 17 17 17 17 17 17 17 17 17				
- Attic Ventilation	0	0		124
- Auto Sweep	9	0		167
- Door Replacement - Door Threshold	0			1230 1687
- Glass Replacement	1 0			959
- Jamb Replacement	- 0	0		79
- Duct Register Scaling and Repair		0		688
Portable Evaporative Coolers	0	0	7	0
Permaneut Evaporative Coolers		0		4
Compact Fluorescents (inc. porchlights)	1613		\$ 447,023	10147
Porchlights (fixture replacement or CFBs)	23	0	\$ 15,254	272
Refrigerators	2574	0	\$ 3,976,908	6401
Landlord Rebate Pilots 200 77 1 1 1 1 1				100000000000000000000000000000000000000
- Refrigerators	35	0	\$ 28,093	87
- Air Conditioner Replacement - Room	1 0			0
- Air Conditioner Replacement - Central	1 0	0	, ,	0
Pilots - Rapid Deployment	0.00		,	
- Air Conditioner Replacement - Room	110	200 100 000 000 000 000 000 000 000 000	Caramatan nagaran in any anti-	324
- Air Conditioner Replacement - Central	230		\$ 748,646	294
- Duct Sealing and Repair (Electric Heat)	18		\$ 22,132	43
- Duct Scaling and Repair (Gas Heat)	57		\$ 125,417	242
- Whole House Fans	<u> </u>		\$ -	0
- Water Heater Replacement - Gas	1 0		\$ 410,980	593
- Water Heater Replacement - Electric	i c			0
- Set-back Thermostats ( Electric Heat)	7	0		74
- Set-back Thermostats ( Gas Heat)	4		\$ 31,285	421
- Evaporative Cooler Maintenance	2		\$ 3,133	14
- New Central Return	d		\$ 141,374	207
Energy Education				
- Outreach & Assessment	C	0	\$ 187,232	3583
- In-Home Education	494		\$ 611,434	10506
- Education Workshops (EELI)	434		\$ 192,940	24443
	, .	. 0	192,340	L4443

Table TA 3.5 Program installation San Diego Gas & Electric

San Diego Gas & Electric	Unit of											
	Measure	** *	CBO/WMI	DVBE		on-CBO/WM	DARE	77.5		Total Total		
		Units Installed	Dwellings	Costs	Units Installed	Dwellings	Costs	Units Installed	Dwellings	Costs	Cost/ Unit	Cost/ Dwelling
Dwellings	Each											
Furnaces	E 10 (10 (10 (10 (10 (10 (10 (10 (10 (10		Section 1		100.254	1910	diameter (September	Long the same	a water			91717171718181818
Repair - Gas	Each	444	444	\$ 49,943	\$ 115	\$ 115	\$ 12,936	559	559	\$ 62,879	\$ 112	\$ 112
Replacement - Gas	Each	86	86	\$ 157,700	\$ 281	\$ 281	\$ 515,274	367	367	\$ 672,974	\$ 1,834	\$ 1,834
Repair - Electric	Each	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -	\$ -
Replacement - Electric	Each	0	0	\$ -	0	0	\$ -	0	Ö	\$ -	\$ -	\$ -
Infiltration & Space Conditioning		100		1000	Here to the			V 100	0.000.00000	era e a constituiro		
- Ceiling Insulation	Sq. Ft.	240440	236	\$ 188,599	209915	190	\$ 164,656	450355	426	\$ 353,255	\$ 0.78	\$ 829
- 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	\$ 58	\$ 84
- Cover Plates/Gaskets	Each	16937	2886	\$ 22,287	16530	2503	\$ 21,751	33467	5389	\$ 44,038	\$ 1.32	\$ 8
- Evaporative Cooler/Air Cond. Covers	Each	24	24	\$ 861	112	111	\$ 4,016	136	135	\$ 4,876	\$ 36	\$ 36
- Air Conditioner Replacement - Room	Each	324	324	\$ 251,042	0	0	\$ -	324	324	\$ 251,042	\$ 775	\$ 775
- Air Conditioner Replacement - Central	Each	30	30	\$ 76,392	264	264	\$ 672,253	294	294	\$ 748,646	\$ 2,546	\$ 2,546
- Duct Sealing and Repair	Each	173	173	\$ 89,565	112	112	\$ 57,984	285	285	\$ 147,549	\$ 518	\$ 518
- Whole House Fans	Each	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -	\$ -
- Set-back Thermostats	Each	307	306	\$ 22,771	189	189	\$ 14,019	496	495	\$ 36,789	\$ 74	\$ 74
- Evaporative Cooler Maintenance	Each	14	14	\$ 3,133	0	0	\$ -	14	14	\$ 3,133	\$ 224	\$ 224
- Attic Ventilation	Home	104.5	55	\$ 6,323	110.48	69	\$ 6,684	214.98	124	\$ 13,007	\$ 61	\$ 105
- Auto Sweep	Each	164	156	\$ 7,442	13	11	\$ 590	177	167	\$ 8,032	\$ 45	\$ 48
- Door Replacement	Each	812	642	\$ 104,667	723	588	\$ 93,195	1535	1230	\$ 197,863	\$ 129	\$ 161
- Door Threshold	Each	1402	937	\$ 42,412	1008	750	\$ 30,493	2410	1687	\$ 72,905	\$ 30	\$ 43
- Glass Replacement	Sq. Ft.	4489	538	\$ 47,503	3365	421	\$ 35,614	7854	959	\$ 83,117	\$ 11	\$ 87
- Jamb Replacement	Each	97	69	\$ 2,934	16	10	\$ 484	113	79	\$ 3,418	\$ 30	\$ 43
- New Central Return	Home	33	33	\$ 22,538	174	174	\$ 118,836	207	207		\$ 683	
Water Heating Savings	4 12 18	4442-170		100000000	a Carolina	to the state of the		No. of Control of	No. 10 Control of	and the second	\$500A50.223.00	stration to
- Water Heater Blanket	Each	329	327	\$ 9,456	298	295	\$ 8,565	627	622	\$ 18,021	\$ 29	\$ 29
- Low Flow Showerhead	Each	6604	3326	\$ 114,735	7213	3604		13817	6930	\$ 240,050		
- Water Heater Pipe Wrap	Linear Ft.	1113.5	183		533			1646.5	264			\$ 22
- Faucet Aerators	Each	6604	3326	\$ 38,419	7213	3604	\$ 41,962	13817	6930	\$ 80,381	\$ 6	\$ 12
- Water Heater Replacement	Each	349			244	244		593	593		\$ 693	
	1.000	al to the			100000	1.000.000	111111111111111111111111111111111111111	233.0		1000000	Characters.	sometime district
Minor Home Repairs (other than above)	Home	1772	1761	\$ 223,138	1545	1534	\$ 194,553	3317	3295	\$ 417,691	\$ 126	\$ 127
and the complete property of the party		West States	dinamentary		100000000000000000000000000000000000000	Data and St	r Brown States Cale		Translation III	BORDER AND SOLI	20100000000	east the country
Miscellaneous Measures	Home	1185	242	\$ 20,681	2891	446	\$ 50,456	4076	688	\$ 71,137	\$ 17	\$ 103
Company of the control of the contro	S. Warding		10.02000		Name of the last	Editor Scotte		14000	Company of	120000000000000000000000000000000000000	Section 2	000000000000000000000000000000000000000
Evaporative Coolers	Each	4	4	\$ 3,415	0	0	\$ -	4	4	\$ 3,415	\$ 854	\$ 854
and the second section of the second	100004		120 (200	error of the state of the	10.00		allino di speciales	transferra	street in			7,772
Refrigerators	Each	6488	6488	\$ 4,005,001	0	0	\$ -	6488	6488	\$ 4,005,001	\$ 617	\$ 617
Control Control (Children Control)	7919 (0)1044		600 SHIRES	Language Company	(2.2)	100	Moral exist.	Literatura.	Land Carrier	Established States	landing to the	5 (20)
Compact Fluorescents (inc. porchlights)	Each	23503	10147		0	0	\$ -	23503	10147	\$ 447,023	\$ 19	\$ 44
Porchlights (fixture replacement)	Each	142			199			341	272		\$ 45	
The second secon			1990 (1990)	100	10000000	er Personal	Section 1	0000000	or the control of the	1.10 a (1.010)	100	1 m - 1 m -
Outreach Education Administration	Home	14089	14089	\$ 798,666.56	0	0	\$ -	14089	14089	\$ 798,666.56	\$ 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 Sad Diego Gas & Electric

	521	Diego Gas & Electric	T WE INVENTED IN		
Program	Contractor Classification	Vendor	% Dwellings Served	WMDVBE Certified (Yes or No)	
LIEE*				<u> </u>	
	CBO Participants	Contractor C	11%	No	
	ļ	Contractor D	24%	Nσ	
		Subtotal	35%	_::	
	Non-CBO Participants	Contractor A	16%	Yes	
	Total Coo Talkapad	Contractor B	25%	No	
		Contractor E	25%	No	
		Subtotal	65%	J	
urance Work					
	CBO Participants	-	0%	-	
		Subtotal	0%		
	Non-C9O Participants	Contractor F	6%	No	
		Contractor G Contractor H	16%	No Yes	
		Contractor I	3%	No	
		Contractor J	48%	Yes	
		Contractor K	5%	Yes	
		Contractor L	8%	No	
		Contractor M	9%	No	
		Subtotai	100%		
efrigerator Replacement				· ·	
	CBO Participants		0%		
<del> </del>		Subtotal	0%	and the second second	
	Non-CBO Participants	Contractor J	100%	Yes	
	CEO Lechements	Subtotal	100%	1 63	
		Septimo	10076		
Vater Heater Replacement			T	1	
	CBO Participants		0%	-	
		Subtotal	0%		
	Non-CBO Participants	Contractor F	5%	No	
		Contractor G	3%	No	
		Contractor H	56%	Yes	
		Contractor I	2%	No	
· · · · · · · · · · · · · · · · · · ·		Contractor K	3%	Yes	
		Contractor L	7%	No	
		Contractor M	24%	No	
	<b>-</b>	Subtotal	100%	THE COMMENTS ASSET TO SELECT	
central and Wall Air Conditioner			<del>                                     </del>		
teplacement					
	CBO Participants		0%	-	
		Subtotal	0%		
				- 55	
	Non-CBO Participants	Contractor F	14%	No	
		Contractor G	0.3%	No	
		Contractor H	0.2%	Yes	
		Contractor I Contractor J	4% 52%	No Yes	
		Contractor K.	52%	Yes	
		Contractor L	7%	No	
		Contractor M	18%	No	
· · · · · · · · · · · · · · · · · · ·		Subtotal	100%		
ELI					
	CBO Participants	01	14.79%	No	
		02	4.16%	No	
		03	0.45%	No	
		04	3.06%	No	
		05	3.35%	No	
	<u> </u>	06	7.38%	No No	
		08	0.34%	No No	
	_	09	0.83%	No	
		10	11.28%	No	
•		11	21.78%	No	
		12	0.09%	No	
		13	2.46%	No	
		14	2.09%	No	
		15	1.78%	No	
		16	0.56%	No	
		17	24.39%	No	
		Subtotal	100%		
	Non-CBO Participants		0%	-	

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

2002

Measure Description	Number Installed	Per Measure Electric Impact	Per Measure Gas Impact	EUL	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	
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	
Ceiling Insulation R-30 (Electric)	48	34	0	25	
Water Heater Blankets (Gas)	533	0	6	5	\$ 10,502
Water Heater Blankets (Electric)	94	138	0	5	
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	<b>\$</b> 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	\$ -
Ріре wтар	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	
Set back Thermostat (Electric Heat)	74	88	0	15	\$ 9,719
Set back Thermostat (Gas Heat)	422	9	30	15	\$ 108,658
Total Bill Savings for All Measures in Program Year	r				\$ 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	Program Costs		Program fecycle Bill Savings	Program Savings/ Ratio		Per Home Average Lifecycle Bill Savings	
2000	\$	6,414,270	\$	2,989,907	Ratio	0.47		219
2001	\$	11,515,307	\$	6,936,088		0.60	\$	359
2002	\$	12,358,189	\$	8,226,312		0.67	\$	584