LOW INCOME ENERGY EFFICIENCY PROGRAMS ANNUAL SUMMARY AND TECHNICAL APPENDIX

2003 Results May 2004



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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 program year (PY) 2003 program. SDG&E offers its low-income customer 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 PY2003, DAP served a total of 15,706 homes and weatherized 11,982 homes. SDG&E also installed 4,960 refrigerators, 191 air conditioners, 339 water heaters, and repaired or replaced 1,346 natural gas furnaces. EELI provided energy education to 23,866 SDG&E customers.

Weatherization and appliance installations resulted in first-year energy savings of 5,640 mWh and 220 mTherms. Average per home lifecycle bill savings for the program are \$506. Additionally, the program services improved upon the comfort, health and safety of low-income customers.

The PY2003 LIEE program design and funding was established by the Commission in Decision (D.) 02-12-019. SDG&E's authorized budget for PY2003 was \$13,368,093, exclusive of \$926,859 in unspent funds from the previous year. LIEE program expenditures during 2003 totaled \$12,866,391. Unspent 2003 LIEE program funds will be carried over and used in SDG&E's PY2004 program.

Program Performance Incentive

In 2003, SDG&E exceeded the required program measures savings threshold of 150,921 therms through the installation of basic ("Big Six") measures to qualify for \$233,713 in program performance incentives (2% multiplied by \$11,685,630² in PY2003 program expenditures). SDG&E achieved a total of 153,293 therms. Therefore, SDG&E hereby applies for an LIEE program performance incentive claim totaling \$233,713 for PY2003. This award will be collected in two installments of 50 percent of the total claim; the first year claim is \$116,856 (50% of \$233,713), plus interest from July 1, 2004 through December 31, 2004, and franchise fees and uncollectibles for a total first year claim of \$117,886.

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.

² The expenditures reflected include only the program implementation expenditures.

Low Income Energy Efficiency Programs

Program Summary

SDG&E offers low-income customers 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 no-cost 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 (Commission) for the utilities' low-income programs. Customers must meet the program's income eligibility guidelines adopted by the Commission and the program's customer residence 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.

As reported in Table 2.1.1 and Table 2.3, SDG&E spent a total of \$12,866,391 on its LIEE program. Annual energy savings realized from these expenditures are 5,640 mWh and 220 mTherms. Therm savings resulting from the installation of "Big Six" measures totaled 153 mTherms. The total resource cost ratio of the program is 0.66, the utility cost ratio is 0.47, and the modified participant ratio is 1.01.

PY2003 Low Income Energy Efficiency (LIEE) Program

Direct Assistance Program

During PY2003, SDG&E treated 15,706 homes and weatherized 11,982 homes. Throughout PY2003, SDG&E combined its LIEE program outreach with its California Alternate Rates for Energy (CARE) program outreach activities in order 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:

• Updated the DAP enrollment forms to include a CARE component which enables customers to enroll in both programs at one time, and allows customer income documentation for both programs to be collected at the same time.

- Identified, qualified, and enrolled customers for LIEE services by SDG&E's primary program field services implementation contractor (Richard Heath and Associates, or RHA, Inc.)
- Used SDG&E's database of prior years LIEE program participants as an outreach tool to identify customers who qualified for additional measures and services authorized under the Commission's Rapid Deployment strategy established by D.01-05-033.
- Used the CARE participant database information by the implementation contractor when conducting LIEE program outreach. The CARE participant database was used by the implementation contactor, Richard Heath & Associates, to identify additional LIEE program outreach opportunities.
- Leveraged LIEE funds with funds provided by the Department of Community Services and Development in order to provide additional energy efficient measures and services to low-income customers.
- Partnered with the Filipino-American Wellness Center to provide information about the LIEE program.
- Leveraged outreach efforts with CARE and other assistance programs with SDG&E's energy efficiency lighting turn-in events.

SDG&E continued to run LIEE program print advertising in local Chinese, Filipino, and Vietnamese language publications. Below is a table showing the print media and circulation associated with these ads.

<u>Language</u>	Circulation	Area Served
<u>Chinese</u>		
Asian Chinese Times	14,000	San Diego County
We Chinese in America	5,000	San Diego County
<u>Filipino</u>		
Asian Journal San Diego	35,000	San Diego County
Filipino Press	25,000	San Diego County
Vietnamese	<u> </u>	
Nguio Viet	6,000	San Diego County
Tieng Viet	6,000	San Diego County and Vicinity

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English print ads were placed in the following publications:

- North County Times
- Imperial Beach Eagle Times
- San Diego Voice and Viewpoint
- Alpine Sun
- Chula Vista Star News

- East County Californian
- North Park News
- San Diego Seniors
- Senior Life

An in-language Spanish print ad was developed and placed in the following publications:

- Enlace
- La Prensa
- El Latino

For English radio:

KFMB

- KPOP-AM
- "KOOL" FM
- KPRZ-AM
- KOGO-AM
- KYXY

KPLN

XHRM-FM

For Spanish radio:

- KLNV (K-Love)
- KLQV (La Nueva)
- XLTN-FM (Radio Latina)

Energy Education for Low Income (EELI)

During PY2003, the EELI program element of the LIEE program educated 23,866 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 \$348,724. 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:

<u>The Energy Practices Survey</u> 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 in an effort to reach seniors and other special interest customers outside of the EELI provider network.

PY2004 Low- Income Energy Efficiency Program Plans

SDG&E filed for continuation of its LIEE DAP program in Application 02-07-001 dated July 1, 2002. The Commission issued D.02-12-019, an Interim Order, on December 5, 2002, directing 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 \$13,368,093 for its PY2003 program and beyond, in order to maintain the higher level of services to the limited-income customers provided under its rapid deployment strategy.

In 2004, SDG&E plans to continue providing LIEE services to as many qualified customers as possible. The planned LIEE program budget for PY2004 is \$16,916,503, excluding performance incentives, and is comprised of a base budget of \$13,368,093, plus \$3,548,410 in unspent PY2003 LIEE funds. The program goals for PY2004 include providing in-home energy education to 14,000 homes, weatherizing 12,000 units, replacing 8,200 refrigerators, repairing or replacing 755 natural gas furnaces, and serving 24,000 customers through its EELI group education efforts. In order to achieve the Commission's authorized therm savings goal of 150,921 therms, SDG&E has increased the number of homes to weatherize in 2004 by approximately 30 percent from its goal in PY2003. Additionally in 2004, SDG&E will directly oversee the activities of EELI community agency contracts in order to better serve its customers by increasing efficiencies and leveraging of existing relationships.

<u>Regulatory Compliance and Oversight, Measurement and Evaluation (M&E)</u> Activities

Regulatory Compliance and Oversight

SDG&E complied with Public Utilities Code (PU Code) Sections 327 and 381.5. Section 327 (1) directs that utility program funds are to be leveraged with state and federal funds while 381.5 states the intent of the Legislature is to strengthen the network of local community service providers. The local CBOs participating in SDG&E's program leverage their LIEE program funding with funding they receive under the State of California Department of Community Services and Development (CSD)'s Low Income Home Energy Assistance Program (LIHEAP) weatherization program. Local CBOs and other community organizations also provided LIEE program energy education to customers in conjunction with their other community services offerings.

Section 2790 of the PU Code mandates that the LIEE programs provide as many program energy efficiency measures as feasible to eligible customers served in the program. Consistent with this legislation and Commission statewide policy, SDG&E's program installed all feasible LIEE program measures to all the homes served by DAP during PY2003. Additionally, SDG&E continued to revisit customers who received DAP weatherization services prior to 2001, to provide the new program measures authorized by the Commission under the rapid deployment decision, D.01-05-033.

During PY2003, SDG&E also worked consistently with the other California investor-owned utilities (IOUs) and the Energy Division on several Commission-directed activities. In the low income proceeding R. 01-08-027, the Commission directed the utilities to develop standardized statewide measure installation, policy and procedures standardization manuals, 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, with guidance from the Energy Division and input from the Office of Ratepayer Advocates and the interested public, achieved the following results during PY2003:

- The Process Evaluation of the 2001 Statewide Low-Income Energy Efficiency LIEE Program and The Impact Evaluation of the 2001 Statewide Low-Income Energy Efficiency LIEE Program was completed by Xenergy Inc. and filed with the Commission in April 2003.
- The Statewide First Year Load Impact Study of the PY2002 LIEE Programs is currently being conducted by West Hills Energy and Computing, and will be filed during 2004. Following completion of the PY2002 LIEE programs impact evaluation, LIEE program evaluations will return to a bi-annual schedule, as authorized in D.02-12-019. Thus, the next LIEE program load impact evaluation will occur in 2006 for the PY2004 program.
- Equipoise Consulting is currently updating the comparative <u>Joint Utility LIEE Program Costs and Bill Savings Standardization Report</u>. The report will be filed by PG&E on May 3, 2004 on behalf of the four major California IOUs.
- The Final Phase 4 Report on Low Income Weatherization Program Natural Gas

 Appliance Testing Study Results was completed and a final report was filed with the

 Commission on May 5, 2003. This was a statewide study of the gas appliance testing
 policies and procedures under the major IOUs LIEE program.
- The joint utility LIEE program standardization project team and Itron, Inc. completed a cost effectiveness assessment study of all individual LIEE program measures. The final LIEE Measure Cost Effectiveness study was filed with the Commission on June 2, 2003.
- The Commission responded to the <u>Final Phase 4 Report on Low Income Weatherization Program Natural Gas Appliance Testing Study</u> results and the <u>LIEE Measure Cost Effectiveness Study</u> on November 13, 2003 in D.03-11-020.

Measurement and Evaluation (M&E) Activities

In D.02-12-019, dated December 5, 2002, the Commission ordered the joint utility LIEE programs 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 PY2003 program plans and budgets. The joint utility standardization project team and its consultants completed the cost effectiveness assessment study of all individual LIEE program measures. A final study result was filed with the Commission on June 2, 2003. The Commission adopted the team's recommendations and certified a new set of LIEE program standard measures by adopting D.03-11-020 on November 13, 2003. The new LIEE program standard measure mix was effective January 1, 2004.

In accordance with D.01-06-082, on April 18, 2003, the utilities filed a Notice of Availability of the Process Evaluation and First Year Impact Evaluation of the 2001 Statewide Low Income Energy Efficiency Program.³ The results of the 2001 LIEE programs load impact study will be utilized by SDG&E to calculate measure savings and performance incentive qualification related to its PY2004 LIEE program.

Bill Savings

Table TA 3.7 reports lifecyle bill savings by measure, by fuel type, and combined for PY2003; 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.

Other Program-Related Survey

In 2003, SDG&E surveyed approximately 1,200 customers 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. Approximately 1,200 customer records (name, phone number and primary language) with invoice dates during PY2003 were sent to CIC Research for telephone interviews.

Survey findings showed that the majority of customers claim to be more comfortable as a result of the program. While 79% said they are "more comfortable" as a result of the work done by DAP, 20% are "about the same" and 1% said they are "less comfortable". The DAP Program overall received high ratings. Over eight in ten (85%) are very satisfied with the DAP overall, with 51% giving the DAP the highest rating of "Completely Satisfied".

Community Based Organizations, Leveraging and Access to Community Services

CBO Participation

SDG&E contracts LIEE program field services coordination with Richard Heath & Associates (RHA), a Diverse Business Enterprise (DBE) contractor, to market and manage field services under its PY2003 DAP. RHA subcontracted for weatherization services with two CBOs: (1) Campesinos Unidos, Inc. (CUI) and, (2) Metropolitan Area Advisory Committee (MAAC): and three private companies: (3) Capital State Construction, (4) Rancho Energy Services Co. (RESCO), and (5) Western Insulation. RHA also subcontracted with four licensed HVAC companies, as well as participating themselves, to provide the gas furnace repair and replacement services offered through the DAP. RHA completed all furnace inspections for DAP. The furnace subcontractors participating in PY2003 included: (1) Ameri-Mex, (2) Jade Mechanical, (3) Jerry's Heating and Air Conditioning, and (4) South Bay Mechanical. Tables TA 3.5 and TA 3.6 report on the level of participation by contractor types.

SDG&E also contracted with RHA to manage the EELI program. EELI, through one-on-one energy education sessions and group workshops, enables the low-income customer to make

³ The Notice of Availability was filed with the Commission by Southern California Edison Company on behalf of itself, Pacific Gas and Electric Company, Southern California Gas Company, and San Diego Gas and Electric Company.

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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 PY2003.

Leveraging

California's 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 CSD:

- Financial assistance to offset the costs of heating and/or cooling dwellings
- 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, CUI and MAAC participated in the LIHEAP Leveraging Incentive Program. These two agencies reported \$1,261,234 in leveraged resources to the CSD and the LIHEAP Block Grant administrator based on their work with SDG&E during 2003. The LIHEAP leveraging reports 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.

Access to Other Low-Income Services

In compliance with D.00-07-020, SDG&E continued to use its existing LIEE referral systems to 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

Performance Incentives for Low Income Energy Efficiency Program Activities

In 2003, SDG&E exceeded the required threshold savings of 150,921 therms through the installation of basic ("Big Six") measures to qualify for \$233,713 in program performance incentives (2 percent multiplied by \$11,685,630 in PY2003 program expenditures). SDG&E achieved a total of 153,293 therms. Therefore, SDG&E is filing for a performance incentive claim totaling \$233,713 for PY2003, which will be collected in two installments of 50 percent of the total claim; the first year claim is \$116,856 (50 percent of \$233,713), plus interest from July 1, 2004 through December 31, 2004, and franchise fees and uncollectibles for a total first year claim of \$117,886.

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

	1	20	03		1	2004
LIEE Program		Budgeted		Recorded		Budgeted
Energy Efficiency		X				
- Gas Appliances	\$	1,062,537	\$	709,349	\$	1,692,676
- Electric appliances	\$	5,566,600	\$	3,995,452	\$	7,030,494
- Weatherization	\$	4,837,526	\$	5,209,991	\$	5,380,028
- Outreach & Assessment	\$	-	\$	_	\$	-
- In Home Energy Education	\$	1,177,110	\$	1,422,113	\$	1,555,665
- Education Workshops (EELI)	\$	322,742	\$	348,724	\$	331,864
Energy Efficiency Total	\$	12,966,514	\$	11,685,630	\$	15,990,727
Pilots						
- Pilot (Misc)	\$	120,378	\$	_	\$	-
- RDWP Cool Zones	\$	79,450	\$	-	\$	-
Total Pilots	\$	199,828	\$	-	\$	-
Training center	\$	-	\$	-	\$	-
Inspections	\$	610,064	\$	636,071	\$	434,121
Advertising	\$	300,945	\$	251,752	\$	309,451
M&E studies	\$	54,248	\$	_	\$	61,890
Regulatory compliance	\$	106,535	\$	272,567	\$	61,890
Other administration	\$	-	\$	-	\$	_
Indirect Costs	\$	-	\$	-	\$	-
Oversight Costs						
- LIAB Start-Up	\$	-	\$	-	\$	-
- LIAB PY Past Year	\$	-	\$	_	\$	-
- LIAB PY Present Year	\$	28,409	\$	-	\$	29,212
- CPUC Energy Division	\$	28,409	\$	20,372	\$	29,212
Total Oversight Costs	\$	56,818	\$	20,372	\$	58,424
Performance Incentives	\$	259,330	\$	233,713	\$	319,815
Total Costs	\$	14,294,952	\$	12,866,391	\$	16,916,503

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

(303)		20	003		1	2004
LIEE Program	Bud	geted	Rec	orded	Bud	geted
Energy Efficiency		*				<u> </u>
- Gas Appliances	\$	1,062,537	\$	709,349	\$	1,683,172
- Electric appliances	\$	-	\$	_	\$	-
- Weatherization	\$	4,837,526	\$	5,209,991	\$	5,349,820
- Outreach & Assessment	\$	-	\$	-	\$	-
- In Home Energy Education	\$	588,555	\$	711,056	\$	773,465
- Education Workshops (EELI)	\$	64,548	\$	41,411	\$	66,000
Energy Efficiency Total	\$	6,553,166	\$	6,671,808	\$	7,872,458
Pilots						
- Pilot (Misc)	\$	60,189	\$	-	\$	-
- RDWP Cool Zones	\$	-	\$	-	\$	-
Total Pilots	\$	60,189	\$	-	\$	-
Training center	\$	-	\$	-	\$	
Inspections	\$	305,032	\$	318,035	\$	215,841.74
Advertising	\$	150,473	\$	125,876	\$	153,856.67
M&E studies	\$	27,124	\$	-	\$	30,771.33
Regulatory compliance	\$	53,267	\$	136,284	\$	30,771.33
Other administration	\$	-	\$		\$	-
Indirect Costs	\$	•	\$	-	\$	-
Oversight Costs						
- LIAB Start-Up	\$	-	\$	_	\$	_
- LIAB PY Past Year	\$	-	\$	· · -	\$	_
- LIAB PY Present Year	\$	14,205	\$	-	\$	14,524
- CPUC Energy Division	\$	14,205	\$	10,186	\$	14,524
Total Oversight Costs	\$	28,409	\$	10,186	\$	29,048.14
Performance Incentives	\$	131,063	\$	133,436	\$	157,449
Total Costs	\$	7,177,660	\$	7,262,188	\$	8,332,747

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

(Electric)						
		20	003			2004
LIEE Program	Bu	dgeted	Rec	orded	Bu	dgeted
Energy Efficiency						
- Gas Appliances	\$		\$	-	\$	-
- Electric appliances	\$	5,566,600	\$	3,995,452	\$	7,069,243
- Weatherization	\$	-	\$	-	\$	<u>-</u>
- Outreach & Assessment	\$	-	\$	-	\$	-
- In Home Energy Education	\$	588,555	\$	711,056	\$	782,120
- Education Workshops (EELI)	\$	258,194	\$	307,314	\$	266,954
Energy Efficiency Total	\$	6,413,348	\$	5,013,822	\$	8,118,316.80
Pilots						
- Pilot (Misc)	\$	60,189	\$	-	\$	-
- RDWP Cool Zones	\$	79,450	\$	-	\$	-
Total Pilots	\$	139,639	\$	-	\$	
Training center	\$	-	\$	_	\$	-
Inspections	\$	305,032	\$	318,035	\$	218,257
Advertising	\$	150,473	\$	125,876	\$	155,578
M&E studies	\$	27,124	\$	-	\$	31,116
Regulatory compliance	\$	53,267	\$	136,284	\$	31,116
Other administration	\$	-	\$	_	\$	
Indirect Costs	\$	-	\$	-	\$	-
Oversight Costs						
- LIAB Start-Up	\$	-	\$	-	\$	-
- LIAB PY Past Year	\$		\$	-	\$	-
- LIAB PY Present Year	\$	14,205	\$		\$	14,687
- CPUC Energy Division	\$	14,205	\$	10,186	\$	14,687
Total Oversight Costs	\$	28,409	\$	10,186	\$	29,373
Performance Incentives	\$	128,267	\$	100,276	\$	162,366
Total Costs	\$	7,117,292	\$	5,604,203	\$	8,583,756

Table 2.2

Summary of LIEE Program Effects: DAP - San Diego Gas & Electric

Program Year: 2003

(Annual Energy Reductions)

	2003	2004
	(Recorded)	(Planned)
mWh	5640	7268
mTherms	220	310

Table 2.3 Summary of LIEE Cost-Effectiveness - San Diego Gas & Electric Program Year: 2003

(Benefit-Cost Ratios)

				Oddi Kallodj		
		2003			2004	
		(Recorded)			(Planned)	
	Utility Cost	Total Resouce	*Modified Participant	Utility Cost	Total Resouce	*Modified Participant
	Test	Cost Test	Test	Test	Cost Test	Test
DAP	0.47	0.66	1.01	0.45	0.71	1.00

Table 2.4

Summary of LIEE Cost-Effectiveness: DAP - San Diego Gas & Electric

Program Year: 2003 (Net Benefits; \$Mil)

		2003			2004	
		(Recorded)			(Planned)	•
	Utility Cost	Total Resouce	*Modified Participant	Utility Cost	Total Resouce	*Modified Participant
	 Test	Cost Test	Test	Test	Cost Test	Test
DAP	\$ (6,793,286)	\$ (4,419,991)	\$ 122,456	\$ (9,335,598)	\$ (4,827,895)	(\$5,192)

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

Gas and Electric Combined

Program						Utili	ty C	osts	 				
	Program Incentives (Recorded)					Admin		rformance ncentives	Other		Total		IMC
		Actual	Co	mmitted			Г			1			
Dap	\$	10,728,851	\$	-	\$	1,788,816	\$	226,738	\$ -	\$	12,517,667	\$	-
EELI	\$	205,704	\$	-	\$	143,020	\$	6,974	\$ -	\$	348,724	\$	-
Total	\$	10,934,555	\$	-	\$	1,931,836	\$	233,713	\$ -	\$	12,866,391	\$	_

Electric Only

	Utility Costs													
Program	Program Incentives (Recorded)				Admin	1	rformance ncentives	1	Other	Total			IMC	
	Actual	Cor	nmitted							T				
Dap	\$ 4,621,433	\$	-	\$	675,456	\$	94,130	\$	-	\$	5,296,889	\$	_	
EELI	\$ 164,564	\$	-	\$	142,750	\$	6,146	\$	_	\$	307,314	\$		
Total	\$ 4,785,996	\$	-	\$	818,207	\$	100,276	\$	-	\$	5,604,203	\$	_	

Gas Only

Program		Utility Costs													
	Program Incentives (Recorded)					Admin	I	rformance ncentives		Other		Total		MC	
		Actual	Comr	nitted										····	
Dap	\$	6,107,418	\$	-	\$	1,113,360	\$	132,608	\$	-	\$	7,220,778	\$	-	
EEL!	\$	41,141	\$	-	\$	270	\$	828	\$	_	\$	41,411	\$		
Total	\$	6,148,559	\$	-	\$	1,113,629	\$	133,436	\$	_	\$	7,262,188	\$	-	

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

 					_	
Expend	itur	es Recorde	d by	Cost Element	- 20	03
Labor	Ī	Non-Labor		Contract		Total
\$ 853	\$	5,244	\$	703,253	\$	709,349
\$ -	\$	26,844	\$	3,968,607	\$	3,995,452
\$ 202,149	\$	256,503	\$	4,751,340	\$	5,209,991
\$ -	\$		\$	-	\$	
\$ 88,087	\$	382,923	\$	951,102	\$	1,422,113
\$ 79,363.86	\$	63,656.19	\$	205,704.42	\$	348,724
\$ 370,452	\$	735,170	\$	10,580,007	\$	11,685,630
\$ -	\$	_	\$	-	\$	_
\$ -	\$	-	\$	+	\$	<u> </u>
\$ -	\$	-	\$	-	\$	-
\$ 138,327.00	\$	143,195.13	\$	354,548.41	\$	636,071
\$ 961.43	\$	17,607.74	\$	233,182.44	\$	251,752
\$ -	\$	-	\$	-	\$	-
\$ 108,778.94	\$	118,795.15	\$	44,993.35	\$	272,567
		•			\$	-
					\$	-
					\$	
					\$	_
					\$	-
	\$	20,372			\$	20,372
\$ -	\$	20,372	\$	_	\$	20,372
\$ 618,520	\$	1,035,140	\$	11,212,731	\$	12,866,391
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 853 \$ - \$ 202,149 \$ - \$ 88,087 \$ 79,363.86 \$ 370,452 \$ - \$ - \$ 138,327.00 \$ 961.43 \$ - \$ 108,778.94	Labor	Labor Non-Labor \$ 853 \$ 5,244 \$ - \$ 26,844 \$ 202,149 \$ 256,503 \$ - \$ - \$ 88,087 \$ 382,923 \$ 79,363.86 \$ 63,656.19 \$ 370,452 \$ 735,170 \$ - \$ - \$ - \$ - \$ 138,327.00 \$ 143,195.13 \$ 961.43 \$ 17,607.74 \$ - \$ - \$ 108,778.94 \$ 118,795.15 \$ 20,372 \$ - \$ 20,372	Labor Non-Labor \$ 853 \$ 5,244 \$ - \$ 26,844 \$ 202,149 \$ 256,503 \$ - \$ - \$ 88,087 \$ 382,923 \$ 79,363.86 \$ 63,656.19 \$ 370,452 \$ 735,170 \$ - \$ - \$ - \$ - \$ - \$ - \$ 138,327.00 \$ 143,195.13 \$ 961.43 \$ 17,607.74 \$ - \$ - \$ 108,778.94 \$ 118,795.15 \$ 20,372 \$ - \$ 20,372	Labor Non-Labor Contract \$ 853 \$ 5,244 \$ 703,253 \$ - \$ 26,844 \$ 3,968,607 \$ 202,149 \$ 256,503 \$ 4,751,340 \$ - \$ - \$ - \$ 88,087 \$ 382,923 \$ 951,102 \$ 79,363.86 \$ 63,656.19 \$ 205,704.42 \$ 370,452 \$ 735,170 \$ 10,580,007 \$ - \$ - \$ - \$ - \$ - \$ - \$ 138,327.00 \$ 143,195.13 \$ 354,548.41 \$ 961.43 \$ 17,607.74 \$ 233,182.44 \$ - \$ - \$ - \$ 108,778.94 \$ 118,795.15 \$ 44,993.35 \$ 20,372 \$ - \$ 20,372 \$ -	\$ 853 \$ 5,244 \$ 703,253 \$ \$ 202,149 \$ 256,503 \$ 4,751,340 \$ \$ \$ - \$ - \$ - \$ \$ \$ \$ 88,087 \$ 382,923 \$ 951,102 \$ \$ 79,363.86 \$ 63,656.19 \$ 205,704.42 \$ \$ 370,452 \$ 735,170 \$ 10,580,007 \$ \$ \$ - \$ - \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ - \$

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

- Electric appliances \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		Expenditures Recorded by Cost Element - 2003							
- Gas Appliances \$ 852.95 \$ 5,243.55 \$ 703,252.94 \$ 709,36 - Electric appliances \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	LIEE Program	Labor	Non-Labor		Contract			Total	
- Electric appliances \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$									
- Weatherization \$ 202,148.61 \$256,502.84 \$ 4,751,339.89 \$ 5,209,99 Outreach & Assessment \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- Gas Appliances	\$ 852.95	\$	5,243.55	\$	703,252.94	\$	709,349	
- Outreach & Assessment	- Electric appliances	\$ _		-	\$	-	\$	-	
- In Home Energy Education \$ 44,043.50 \$191,461.71 \$ 475,551.10 \$ 711,03 - Education Workshops (EELI) \$ - \$ 269.63 \$ 41,140.89 \$ 41,4	- Weatherization	\$ 202,148.61	\$2	56,502.84	\$	4,751,339.89	\$	5,209,991	
- Education Workshops (EELI) \$ - \$ 269.63 \$ 41,140.89 \$ 41,4 Energy Efficiency Total \$ 247,045.06 \$ 453,477.73 \$ 5,971,284.82 \$ 6,671,80 Pilots \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- Outreach & Assessment	\$ -	\$	-	\$	-	\$	-	
Energy Efficiency Total \$ 247,045.06 \$453,477.73 \$ 5,971,284.82 \$ 6,671,86 Pilots		\$ 44,043.50	\$1					711,056	
Pilots Pilot (A) \$ -	- Education Workshops (EELI)	\$ -	\$	269.63	\$	41,140.89	\$	41,411	
Pilot (A) \$ - \$	Energy Efficiency Total	\$ 247,045.06	\$4	53,477.73	\$	5,971,284.82	\$	6,671,808	
Total Pilots \$ - <t< td=""><td>Pilots</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Pilots								
Training center \$ -	Pilot (A)	\$ -	\$	-	\$		\$		
Inspections	Total Pilots	\$ -	\$	-	\$	-	\$	-	
Advertising \$ 481 \$ 8,804 \$ 116,591 \$ 125,67 M&E studies \$ - \$ - \$ - \$ - Regulatory compliance \$ 54,389 \$ 59,398 \$ 22,497 \$ 136,28 Other administration \$ - \$ - \$ - \$ - Indirect Costs \$ - \$ - \$ - \$ - Oversight Costs \$ - \$ - \$ - \$ - - LIAB Start-Up \$ - \$ - \$ - \$ - - LIAB PY Past Year \$ - \$ - \$ - \$ - - LIAB PY Present Year \$ - \$ - \$ - \$ - - CPUC Energy Division \$ - \$ 10,186 \$ - \$ 10,18 Total Oversight Costs \$ - \$ 10,186 \$ - \$ 10,18	Training center	\$ -	\$	-	\$	-	\$	-	
M&E studies \$ -	Inspections	\$ 69,164	\$	71,598	\$	177,274	\$	318,035	
Regulatory compliance \$ 54,389 \$ 59,398 \$ 22,497 \$ 136,28 Other administration \$ - \$ - \$ - \$ - Indirect Costs \$ - \$ - \$ - \$ - Oversight Costs \$ - \$ - \$ - \$ - - LIAB Start-Up \$ - \$ - \$ - \$ - - LIAB PY Past Year \$ - \$ - \$ - \$ - - LIAB PY Present Year \$ - \$ - \$ - \$ - - CPUC Energy Division \$ - \$ 10,186 \$ - \$ 10,18 Total Oversight Costs \$ - \$ 10,186 \$ - \$ 10,18	Advertising	\$ 481	\$	8,804	\$	116,591	\$	125,876	
Other administration \$ - \$ - \$ - \$ - Indirect Costs \$ - \$ - \$ - \$ - Oversight Costs \$ - \$ - \$ - \$ - - LIAB Start-Up \$ - \$ - \$ - \$ - - LIAB PY Past Year \$ - \$ - \$ - \$ - - LIAB PY Present Year \$ - \$ - \$ - \$ - - CPUC Energy Division \$ - \$ 10,186 \$ - \$ 10,186 Total Oversight Costs \$ - \$ 10,186 \$ - \$ 10,186	M&E studies	\$ 	\$		\$	-	\$	-	
Indirect Costs	Regulatory compliance	\$ 54,389	\$	59,398	\$	22,497	\$	136,284	
Oversight Costs - LIAB Start-Up \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Other administration	\$ -	\$	_	\$	-	\$	-	
- LIAB Start-Up \$ - \$ - \$ - - LIAB PY Past Year \$ - \$ - \$ - - LIAB PY Present Year \$ - \$ - \$ - - CPUC Energy Division \$ - \$ 10,186 \$ - \$ 10,18 Total Oversight Costs \$ - \$ 10,186 \$ - \$ 10,18	Indirect Costs	\$ -	\$	-	\$	-	\$	-	
- LIAB PY Past Year \$ - \$ - \$ - - LIAB PY Present Year \$ - \$ - \$ - - CPUC Energy Division \$ - \$ 10,186 \$ - \$ 10,18 Total Oversight Costs \$ - \$ 10,186 \$ - \$ 10,18	Oversight Costs								
- LIAB PY Present Year \$ - \$ - \$ - - CPUC Energy Division \$ - \$ 10,186 \$ - \$ 10,18 Total Oversight Costs \$ - \$ 10,186 \$ - \$ 10,18	- LIAB Start-Up	\$ -	\$	-	\$	-	\$	<u>-</u>	
- CPUC Energy Division \$ - \$ 10,186 \$ - \$ 10,18 Total Oversight Costs \$ - \$ 10,186 \$ - \$ 10,18	- LIAB PY Past Year	\$ -	\$		\$	-	\$	-	
Total Oversight Costs \$ - \$ 10,186 \$ - \$ 10,18	- LIAB PY Present Year	\$ -	\$	-	\$	-	\$		
	- CPUC Energy Division	-	\$	10,186	\$	-	\$	10,186	
Total Costs \$ 371,079 \$ 603,463 \$ 6,287,647 \$ 7,262,18	Total Oversight Costs	\$ -	\$	10,186		-	\$	10,186	
	Total Costs	\$ 371,079	\$	603,463	\$	6,287,647	\$	7,262,188	

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

(Licotilo)	Expenditures Recorded by Cost Element - 2003								
LIEE Program		Labor		on-Labor	Π	Contract		Total	
Energy Efficiency									
- Gas Appliances	\$	-	\$	-	\$	-	\$	-	
- Electric appliances	\$	-	\$	26,844	\$	3,968,607	\$	3,995,452	
- Weatherization	\$	-	\$\$	<u>-</u>	\$	-	\$		
- Outreach & Assessment	\$	-	\$\$	-	\$	-	\$	- ,	
- In Home Energy Education	\$	44,043	63	191,462	\$	475,551	\$	711,056	
- Education Workshops (EELI)	\$	79,364	\$	63,387	\$	164,564	\$	307,314	
Energy Efficiency Total	\$	123,407	\$	281,693	\$	4,608,722	\$	5,013,822	
Pilots									
Pilot (A)	\$	-	69	-	\$	-	\$	-	
Total Pilots	\$	-	65		\$	-	\$	-	
Training center	\$	-	\$5	-	\$		\$		
Inspections	\$	69,164	\$	71,598	\$	177,274	\$	318,035	
Advertising	\$	481	\$	8,804	\$	116,591	\$	125,876	
M&E studies	\$		\$	<u>-</u>	\$		\$	•	
Regulatory compliance	\$	54,389	\$	59,398	\$	22,497	\$	136,284	
Other administration	\$	-	\$	<u>-</u>	\$	-	\$	_	
Indirect Costs	\$	_	\$	_	\$	-	\$	-	
Oversight Costs									
- LIAB Start-Up	\$	-	\$	-	\$	-	\$	-	
- LIAB PY Past Year	\$	-	\$	-	\$	•	\$	<u>-</u>	
- LIAB PY Present Year	\$	-	\$\$	-	\$	•	\$		
- CPUC Energy Division	\$		\$\$	10,186	\$	-	\$	10,186	
Total Oversight Costs	\$	-	69	10,186	\$		\$	10,186	
Total Costs	\$	247,441	\$	431,678	\$	4,925,084	\$	5,604,203	

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

•	Energy	Saved and	Pr	ogram Costs	Number of Dwellings			
1	2003	2003			2003	2003	2004	
	(mWh)	(mTherm)		2003 Expenses	(Planned)	(Actual)	(Planned)	
Gas Heat - Own								
- Single Family	537	21	\$	1,225,064	1333	1495	1333	
- Multi Family	603	23			1498	1680	1498	
- Mobile Home	89	3	\$		221	248	221	
Sub Total Dwellings Served	1229	48	\$	2,804,790	3052	3424	3052	
Gas Heat - Rent								
- Single Family	1557	61	\$		3865	4336	3865	
- Multi Family	1749	68			4342	4871	4342	
- Mobile Home	258	10			642	720	642	
Sub Total Dwellings Served	3564	139	\$	8,131,642	8848	9926	8848	
Electric Heat - Own								
- Single Family	95	4	\$		235	264	235	
- Multi Family	106	4	\$		264	296	264	
- Mobile Home	16	1	\$		39	44	39	
Sub Total Dwellings Served	217	8	\$	494,963	539	604	539	
Electric Heat - Rent								
- Single Family	275	11	\$		682	765	682	
- Multi Family	309	12	\$		766	860	766	
- Mobile Home	46	2	\$		113	127	113	
Sub Total Dwellings Served	629	24	\$	1,434,996	1561	1752	1561	
Total Dwellings Served	5640	220	\$	12,866,391	14000	15706	14000	

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

		nd Program Costs 003		Number of Dwellings Served 2003
	mWh	mTherm	Expenses	Actual Dwellings Served
Fartacta				
- Ropair - Gas	0		\$ 106,643	105
- Replacement - Gas - Repair - Electric	0		\$ 655,455 •	28
- Replacement - Electric			\$ - \$ -	
Saciality alicen & Space Conditioning	3	-	•	
- Cover Plates/Gaskets	0	0	\$ 62,579	910
- Evaporative Cooler/Air Cond. Covers	0		\$ 2,078	5
- HVAC Air Filter Replacement	0		\$ -	
Vostertator				
- Ceiling Insulation R-11 (Gas)		0	\$ 27	
- Ceiling Insulation R-11 (Electric)	0		\$ 5	
Ceiling Insulation R-19 (Gas)	0		\$ 17,847	2
- Ceiling Insulation R-19 (Electric)	0		\$ 3,150	
Ceiling Insulation R-30 (Gas) Ceiling Insulation R-30 (Electric)	0		\$ 274,205 \$ 48,389	27
- Water Heater Blanket (Gas)			\$ 48,389 \$ 31,284	99
- Water Heater Blanket (Electric)	33		\$ 5,521	17
- Low Flow Showerhead (Gas)	O		\$ 428,951	954
- Low Flow Showerhead (Electric)	371		\$ 75,697	168
- Weatherstripping -MF (Gas)	0		\$ 346,554	479
- Weatherstripping -MF (Electric)	4		\$ 61,157	84
- Weatherstripping -SF (Gas)	9	13 3		466
- Weatherstripping -SF (Electric) - Caulking - MF	5	2 0 2		82 536
- Caulking - SF	5		\$ 399,266	552
- Minor Home Repairs	18	26		639
- Attic Access Weatherstripping [1]	0	0 :		
Wast House Sprage				
Water Heater Pipe Wrap	7	1 :	\$ 6,854	36
Faucet Acrators	76	11	\$ 145.924	1135
Miscellaneyos Mooseres				
- Attic Ventilation	0	0		6
- Auto Sweep	. 0	0 8		2
- Door Replacement			\$ 350,757 \$ 434,739	223
- Door Threshold - Glass Replacement	0	0 5	\$ 134,732 \$ 140,525	296 142
- Jamb Replacement		0 3		11
- Duct Register Sealing and Repair	1	1 :		50
Portable Evaporative Coolers	o	0 :	\$ -	
Permanent Evaporative Coolers	1		\$ 3,995	101
Compact Pluorescents (inc. porchlights)	926	ol :		1457
Porchlights (fixture replacement or CFBs)	71	0 :		82
Refrigerators	3190	0 :		494
Lungbord Rabato Piless				
- Refrigerators	8	0	\$ 3,798	1
- Air Conditioner Replacement - Room	0		\$ -	
- Air Conditioner Replacement - Central	0	0 5	\$ -	
Pilots - Rapol Depicement				
- Air Conditioner Replacement - Room	31	0 3	\$ 89,231	9
- Air Conditioner Replacement - Central	79	0 5		10
- Duct Scaling and Repair (Electric Heat)	79		\$ 16,133	18
- Duct Scaling and Repair (Gas Heat)	8	1 3		3
- Whole House Fans - Water Heater Replacement - Gas	0		\$ - \$ 245,325	32
- Water Heater Replacement - Clas	0	0 3		32
- Set-back Thermostats (Electric Heat)	0		\$ -	
Set-back Thermostats (Gas Heat)	ō	0 :		
- Evaporative Cooler Maintenance	14	0 3	\$ 15,015	8
New Central Return	0	0	\$ 65,331	8
sarge Educasea				
Outreach & Assessment	0		\$ 37,702	68
- In-Home Education	706		\$ 1,077,457	1502
Education Workshops (EEL1)	0	0 :	\$ 205,704	2386

in the first of the profit may be a series for the design of the

Table TA 3.5 Program Installation San Diego Gas & Electric

 	Unit of							,					
	Measure	CBO/WMDVBE			Non-CBO/WMDVBE			Total					
		Units Installed	Dwellings	Costs	Units Installed	Dwellings	Costs	Units Installed	Dwellings	Costs	Cost/Unit	Cost/ Dwelling	
Dweilings	Each							1			·		
Furnaces	8 2000												
Repair - Gas	liach	969			93	93	\$ 9,339	1062	1052	\$ 106,643	\$ 100	\$ 101	
Replacement - Gas	Each	32	32		252			284	284	\$ 655,455	\$ 2,308	\$ 2,308	
Repair - Electric	Each	0	0	\$ -	0	_ 0	\$ -	0	0	5 -	\$ -	\$ -	
Replacement - Electric	564	0	0	\$ -	0	0	\$.	Ç	¢	\$ -	\$.	\$ -	
Infiltration & Space Conditioning													
- Ceiling Insulation	Sq. i't.	214749	203		170917	150	\$ 152,284	385666	353	\$ 343,623	\$ 0.89	\$ 973	
- Caulking	· Linear Ft.	111954	6282		80275	4601	\$ 248,307	192228	10883	\$ 594,604	\$ 3.09	\$ 55	
- Weather Stripping	Each	9563	6362		6916	4770	\$ 451,937	16479	11132	\$ 1,076,847	\$ 65	\$ 97	
- Cover Plates/Gaskets	Each	25978	5460		17370			43348	9102	\$ 82,579	\$ 1.44	\$ 7	
- Evaporative Cooler/Air Cond. Covers	Each	22	22		33			55	55				
- Air Conditioner Replacement - Room	Each	90	90		0	0	\$ -	90	90				
- Air Conditioner Reptacement - Central	Each	0		s -	101	101		101	101				
- Duct Sealing and Repair	Each	150	150		69	69	\$ 33,887	219	219	\$ 107,554	\$ 491	\$ 491	
- Whole House Fans	Each	0		\$ -	0	0	\$ -	0	0	\$ -	\$ -	\$ -	
- Set-back Thermostats	Each	0		\$ -	0	. 0	\$ -	0	0	\$ -	\$	\$ -	
- Evaporative Cooler Maintenance	Each	86	86	\$ 15,015	0	0	\$ -	86	86	\$ 15,015	\$ 175	\$ 175	
- Attic Ventilation	Home	32.4	18	\$ 2,142	77	48	\$ 5,090	109.4	66	\$ 7,232	\$ 66	\$ 110	
- Auto Sweep	Each	22	18		10	7	\$ 499	32	25	\$ 1,597	\$ 50	\$ 64	
- Door Replacement	Each	1346	1075	\$ 168,795	1451	1159	\$ 181,962	2797	2234	\$ 350,757	\$ 125		
- Door Threshold	Each	2227	1551		1838	1414	\$ 60,919	4085	2965	\$ 134,732	\$ 33	\$ 45	
- Glass Replacement	Sq. Ft.	8065	918	\$ 93,561	4048	505	\$ 46,964	12113	1423	\$ 140,525	\$ 12		
- Jamb Replacement	Each	135	92		25	19	5 870	180	111			\$ 50	
- New Central Return	Home	16	16	\$ 12,015	71	71	\$ 53,316	87					
Water Heating Savings								1					
- Water Heater Blanket	Each	768	768	\$ 24,221	399	399	\$ 12,584	1167	1167	\$ 38,805	\$ 32	\$ 32	
- Low Flow Showerhead	Each	8237	6861		5355	4367		13592	11228				
- Water Heater Pipe Wrap	Linear Ft.	1374	284		417	80		1790.5	364			\$ 19	
- Faucet Acrators	Each	13013	6643	\$ 83,067	9847	4709	\$ 62,857	22860	11352				
- Water Hester Replacement	Each	213		\$ 154,142	136	128	\$ 21 183	339					
Miner Street Broads	\$\$teste:	3629	3846	\$ 342,450	2781	2751	\$ 257,580	6430	8397	\$ 800,160	\$ 93	\$ 84	
Miscellauraus Measures	1 Horse	1362	2.53	\$ 25,048	1497	247	\$ 28,626	2859	500	\$ 54,671	3 19	\$ 509	
								•					
Exenorative Coolers	Each	4	R	\$ 2,995	0	(0	i \$	7	4	3,995	1 \$ 999	\$ 999	
	***************************************							1					
Restrigentations	(343)	4980	49%0	\$ 3,290,693	1		2	4560	496t:	\$ 3,290,693	\$ 583	\$ 863	
								•					
Compact Fluorescents (mr., porchights)	Each	33414	14578	\$ 656,068	8	í	5 -	33414	14575	\$ 656,068	\$ 20	1 45	
Parchlights (fixture replacement)	Each	1028	921		1 0		\$	1029					
								•				I	
Current Education Administration	; Rome	18708	15708	\$ 1,115,158,92	6	~	\$ -	15706	27.00	\$ 1,115,158.92	S 71	\$ 71	

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 2003 San Diego Gas & Electric

San Diego Gas & Electric										
Program	Contractor Classification	Vender	% Dwellings Served	WMDVBE Certified (Yes or No)						
LIEG*		<u> </u>								
	CBO Participants	Contractor C	9%	No						
		Contractor D Subtotal	18% 27%	.! No						
······································		Suncon	2176	1						
	Non-CBO Participants	Contractor A	31%	Yes						
	<u> </u>	Contractor B	19%	No						
	<u> </u>	Contractor E	23%	No						
		Subtotal	73%							
	.,									
Furnace Work										
	CBO Participants		0%	!						
		Subtotal	0%							
			40/	 						
	Non-CBO Participants	Contractor F	4%	No						
		Contractor G . Contractor H	7% 4%	No V						
		Contractor I	2%	Yes No						
		Contractor J	71%	Yes						
		Contractor L	8%	No No						
		Contractor M	5%	No						
		Subtatel	100%							
Refrigerator Replacement										
	CBO Participants		0%							
		Subtotal	0%	. ;						
	Non-CBO Participants	Contractor J	100%	J yes						
		Subtotal	100%							
										
Water Heater Replacement	CBO Participants		00/	·						
	CBO Farticipaties	Subtotal	0% 0%	4						
		Subbuil	0/6							
· · · · · · · · · · · · · · · · · · ·	Non-CBO Participants	Contractor F	7%	No						
 		Contractor G	1%	No						
		Contractor H	62%	Yes						
		Contractor I	1%	No						
		Contractor L	5%	No						
		Contractor M	24%	No						
		Subtotal	100%							
Central and Wall Air Conditioner Replacement										
- Indexinan	CBO Participants		0%							
	· · · · · · · · · · · · · · · · · · ·	Subtotal	0%	<u> </u>						
	Non-CBO Participants	Contractor F	22%	No						
		Contractor G	0.5%	No						
		Contractor 1	5%	No						
· · · · · · · · · · · · · · · · · · ·		Contractor J	47%	Yes						
		Contractor L	8%	No						
		Contractor M	17%	l No						
		Subtotal	100%	_						
cri (
FFLI	CDO Partisipart	<u></u>	10.020/							
	CBO Participants	01	19.93%	No No						
		03	4.70%	No No						
		04	2.54%	No						
		05	14.72%	No						
		06	3.49%	No						
		07	7.59%	No						
		08	0.41%	No						
		09	0.84%	No						
		10	0.19%	No						
		11	9.68%	No						
~		12	25.40%	. No						
		13	3.16%	No						
		14	0.19%	No						
		15	2.90%	No						
		16	2.31%	No						
		17	0.63%	No						
		Subtotal	100%							
	Non-CBO Participants		0%							
	remedies t alteribring	Subtotal	0%	1						
	····									

TABLE TA 3.7 LIFE CYCLE BILL SAVINGS San Diego Gas & Electric 2003

· Measure Description	Number installed	Electric Impact	Impact	EUL	Total Measure Life Cycle Bill Savings
		(kWh)	(Therms)	(years)	(\$)
Attic Ventilation*	66	0.00	0.00	25	
Auto Sweep*	32	0.00	0.00	5	
Caulking - MF (Electric)	804	6.00	0.00	5	
Caulking - MF (Gas) Caulking - MH/SF (Electric)	4,557 828	2.30 7.80	2.00	5	
	4,694		0.00	5	
Caulking - MH/SF (Gas)		2.70 34.40	2.50 0.00	5	
Ceiling Insulation MF (Electric)		0.00	11.00	25	
Ceiling Insulation MF (Gas) Ceiling Insulation MH/SF (Electric)	51	93.60	0.00	. 25 · 25	
Ceiling Insulation MH/SF (Cas)	290	43.50	16.90	25	
Compact Fluorescents MF	16,559	27.80		8	
Compact Fluorescents MF	15,827	24.80		8	
Cover Plate/Gaskets MF (Electric)	697	2.94	0.00	15	\$ 3,08
Cover Plate/Gaskets MF (Gas)	3,948	-0.10	0.13	15	
Cover Plate/Gaskets MH/SF (Electric)	669	5.73	0.00	15	
Cover Plate/Gaskets MH/SF (Gas)	3,788	0.40	0.00	15	
Door Replacement*	2,797	0.40	0.23	10	
Door Threshold*	4,065	0		5	
	500	- 0	- 0		
Duct Register Sealing*				5	\$ -
Evaporative Cooler Covers SF (Electric)	8 47	15.17	0.00	3	
Evaporative Cooler Covers SF (Gas)		0.00	3.65	3	
Evaporative Cooler Replacement SF	4	246.35	0.00	15	
Porchlights MF	225	41.70	0.00	20	
Porchlights SF	803	37.10	0.00	20	
Faucet Aerators MF (Gas)	4,967	0.00	0.90	5	
Faucet Aerators MF (Electric)	877	41.20	0.00		
Faucet Aerators MH/SF (Gas)	4,682	0.00	1.40	5	
Faucet Aerators MH/SF (Electric)	826	48.40	0.00	5	
Furnace repair - Gas MF	398	0.00	16.00	10	
-urnace repair - Gas MH/SF	664	0.00	23.00	10	
Furnace Replacement - Gas MF	1	0.00	0.00	22	<u> </u>
Furnace Replacement - Gas SF	283	0.00	84.30	22	\$ 282,249
Glass Replacement*	1,423	0.00	0.00	10	
Jamb Replacement*	160	0.00	0.00	5	\$ -
New Central Return*	87	0.00	0.00	18	\$ -
ow Flow Showerhead MF (Electric)	878	203.30	0.00	10	\$ 199,637
ow Flow Showerhead MF (Gas)	4,973	0.00	6.10	10	
ow Flow Showerhead SF (Electric)	807	239.20	0.00	10	
ow Flow Showerhead SF (Gas)	4,571	0.00	9.10	10	\$ 288,689
Vinor Home Repairs MF (Electric)	359	19.90	0.00	10	\$ 7,996
Minor Home Repairs SF (Electric)	600	26.10	0.00	10	\$ 17,535
Minor Home Repairs SF (Gas)	3,403	8.10	5.50	10	\$ 160,718
Refrigerators	4,948	644.70	0.00	15	\$ 4,797,763
Refrigerators (Co Pay)	12	644.70	0.00	15	\$ 11,636
Nater Heater Blanket MF (Electric)	28	163.00	0.00	5	\$ 2,822
Nater Heater Blanket MF (Gas)	156	0.00	4.90	5	\$ 2,982
Water Heater Blanket MH/SF (Electric)	147	191.80	0.00	. 5	\$ 17,742
Nater Heater Blanket MH/SF (Gas)	836	0.00	7.30	5	\$ 23,735
Water Heater Pipe Wrap MF (Electric)	8	115.30	0.00	15	\$ 1,301
Nater Heater Pipe Wrap MF (Gas)	43	0.00	1.80	15	\$ 714
Water Heater Pipe Wrap MH/SF (Electric)	47	135.60	0.00	15	\$ 9,606
Water Heater Pipe Wrap MH/SF (Gas)	267	0.00	2.70	15	\$ 6,723
Weatherstripping MF (Electric)	846	6.10	0.00	5	\$ 3,239
Weatherstripping MF (Gas)	4,797	_2.40	2.00	. 5	\$ 44,552
Veatherstripping MH/SF (Electric)	823	8.00	0.00	5	\$ 4,132
Weatherstripping MH/SF (Gas)	4,666	2.80	2.70	5	\$ 57,216
Sub-total for Energy Efficiency Measures					\$ 7,774,543
Rapid Deployment Measures					
Air Conditioner Replacement - Central MF	الا ا	828.28	0.00	18	\$ -
Air Conditioner Replacement - Central MH/SF	101	292.85	0.00	18	\$ 50,100
Air Conditioner Replacement - Room MF	62	130.16	0.00	15	\$ 16,053
Air Conditioner Replacement - Room MH/SF	8	426.40	0.00	15	
Duct Sealing & Testing MF (Electric)	ő	116.60	0.00	25	
Duct Sealing & Testing MF (Gas)	2	47.98	6.24	25	\$ 301
Duct Sealing & Testing MH/SF (Electric)	33	87.15	0.00	25	
Ouct Sealing & Testing MH/SF (Electric)	184	27.39	11.54	25	
Evaporative Cooler Maintenance SF	86	76.43	0.00		
Set back Thermostat MF (Electric)		116.60	0.00	12	
Set back Thermostat MF (Gas)	0	77.55	6.78	12	
Set back Thermostat MF (Gas)	- 	149.88			
			0.00	12	
Set back Thermostat SF (Gas)		95,48	15.00	12	
Vater Heater Replacement MF (Gas)	5	0.00	-18.10	13	
Water Heater Replacement MH/SF (Gas)	334	0.00	21.60	13	
Whole House Fans SF	0	63.00	0.00	20	
Sub-total for Rapid Deployment Measures					\$ 179,781
Total Bill Savings for All Measures in Program Ye	2				\$ 7,954,326
	uring Program Venr				15 700
Total Number of Homes Served by the Program d	army riograms tout				10.700
Total Number of Homes Served by the Program d	aring r rograms roat				15,706

^{*}SDG&E has no studies supporting savings for this measure. No impacts taken during this year.

TABLE TA 3. 8
ENERGY RATES USED FOR BILL SAVINGS CALCULATIONS
San Diego Gas & Electric

Year	\$/kWh	\$/Therm
2003	0.1380	0.8560
2004	0.1421	0.8817
2005	0.1464	0.9081
2006	0.1508	0.9354
2007	0.1553	0.9634
2008	0.1600	0.9923
2009	0.1648	1.0221
2010	0.1697	1.0528
2011	0.1748	1.0844
2012	0.1801	1.1169
2013	0.1855	1.1504
2014	0.1910	1.1849
2015	0.1968	1.2205
2016	0.2027	1.2571
2017	0.2087	1.2948
2018	0.2150	1.3336
2019	0.2214	1.3736
2020	0.2281	1.4148
2021	0.2349	1.4573
2022	0.2420	1.5010
2023	0.2492	1.5460
2024	0.2567	1.5924
2025	0.2644	1.6402
2026	0.2724	1.6894
2027	0.2805	1.7401
2028	0.2889	1.7923
2029	0.2976	1.8460
2030	0.3065	1.9014
2031	0.3157	1.9585
2032	0.3252	2.0172

TABLE TA 3.9 BILL SAVINGS San Diego Gas & Electric

Program Year	Pro	ogram Costs	Program Lifecycle Bill Savings		Program Bill Savings/ Cost Ratio	Per Home Average Lifecycle Bill Savings	
2001	\$	11,515,307	\$	7,470,049	0.65	\$	387
2002	\$	12,358,189	\$	8,860,750	0.72	\$	629
2003	\$	12,866,391	\$	7,954,325	0.62	\$	506