LOW INCOME ENERGY EFFICIENCY PROGRAMS ANNUAL SUMMARY AND TECHNICAL APPENDIX

2006 Results May 2007



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Executive Summary

Overview

This report on San Diego Gas & Electric Company's (SDG&E) portfolio of Low Income Energy Efficiency (LIEE) Programs provides information on program accomplishments and expenditures for program year (PY) 2006. SDG&E's LIEE program¹ offers its low income customers weatherization services, energy efficient lighting, energy efficient appliances, and energy education at no cost to qualified gas and electric customers.

Program Results

The PY2006 LIEE program portfolio design and funding was approved by the California Public Utilities Commission (Commission) in Decision (D.) 05-12-026, issued on December 15, 2005. D.05-12-026 directed the large investor-owned utilities (IOUs)² to file an augmentation of their 2006 LIEE program plans and budgets by April 14, 2006. Additionally, D.05-10-044, issued on October 27, 2005 adopted the IOU's LIEE program proposals, known as the Winter Initiatives, to help low-income customers mitigate the expected increase in natural gas winter bills. LIEE Winter Initiatives were offered from November 1, 2005 through April 30, 2006.

During PY2006, the LIEE program treated a total of 13,771 homes and weatherized 12,270 homes. As part of its comprehensive services to eligible LIEE participants, SDG&E provided inhome energy education to 13,549 customers, installed 5,128 energy efficient refrigerators, 60,871 compact florescent lamps, 11,470 low flow showerheads, and 127 room air conditioners, replaced 19 water heaters, repaired or replaced 1,190 natural gas furnaces, conducted duct testing on 272 homes, and sealed ducts in 47 homes. In addition, energy education was provided to 16,761 SDG&E customers in a workshop setting. As a result of expanded outreach efforts, which included the implementation of the targeted self certification enrollment process conducted as part of the Winter Initiatives efforts, SDG&E increased its LIEE program enrollments by approximately 21% from January 2006 through April 2006 compared to the same timeframe in 2005.

Weatherization and appliance installations resulted in first-year energy savings of 5,312 mWh and 284 mTherms. The average per home lifecycle bill savings for the program was \$669. To calculate the energy savings of the LIEE program measures for 2006, SDG&E used the methodology adopted by the Commission in D.05-12-026.

SDG&E's total LIEE authorized budget for PY2006 was \$15,939,221, which includes \$13,368,093 in its 2006 authorized budget, plus \$2,571,128 in unspent funds from 2005. LIEE program expenditures during 2006 totaled \$14,435,838. Unspent funds from 2006, totaling \$1,503,383 will be carried over and used in SDG&E's PY2007 LIEE program.

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¹ The LIEE program is also known as the Direct Assistance Program (DAP).

² The Investor-Owned Utilities are SDG&E, Southern California Gas Company (SoCalGas), Southern California Edison Company (SCE), and Pacific Gas and Electric Company (PG&E).

Low Income Energy Efficiency Program

Program Summary

The LIEE program 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 LIEE participation by SDG&E are those where a majority of the households are at or below the income guidelines established by the Commission for the utilities' low-income programs. Customers must meet the program's income eligibility guidelines adopted by the Commission and the customer residence structural feasibility criteria in order to receive no-cost home weatherization, lighting and appliance services.

SDG&E contracts with an outside contractor, Richard Heath and Associates (RHA), the prime contractor to manage the field activities of its LIEE program. Under the LIEE program, the prime contractor performs outreach to customers, determines customer eligibility and enrollment, and provides in-home energy education and assessment of the home. The prime contractor subcontracts the LIEE weatherization activity and Heating, Ventilation and Air Conditioning (HVAC) work to licensed community based organizations (CBOs) and private contractors.

In addition, SDG&E's LIEE program conducted energy education workshops to teach low-income residential customers how to alter and/or change their energy usage by modifying certain household energy consumption patterns and habits. This aspect of the program offers education in various languages including English, Spanish, African, Arabic, Asian, Laotian, Russian, Vietnamese, as well as Middle Eastern and Eastern European languages. Outreach for the 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 1, SDG&E spent a total of \$14,435,838 on its LIEE programs. Annual energy savings realized from these expenditures are 5,312 mWh and 284 mTherms.

PY2006 Low Income Program

Low Income Energy Efficiency Program

During PY2006, SDG&E treated 13,771 homes and weatherized 12,270 homes. Throughout PY2006, SDG&E combined its LIEE program outreach with its Medical Baseline program, Lighting Turn-In program, Family Electric Rate Assistance (FERA) program, and 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 LIEE enrollment forms to include the updated income eligibility levels established by the Commission to qualify participants for the CARE, FERA, and LIEE programs.
- Identified, qualified, and enrolled customers for LIEE services by SDG&E's prime contractor. Used available marketing research and census track data to conduct direct mail campaigns specifically targeted to potential LIEE customers in targeted zip codes.
- Provided the CARE participant database information to the implementation contractor for use in conducting LIEE program outreach.
- Referred LIEE customers to the Department of Community Services and Development in order to leverage funds to provide additional energy efficient measures and services to low-income customers.
- Coordinated with the Community Referral Service 211 to educate SDG&E customers about program offerings including LIEE, CARE, FERA, Neighbor to Neighbor, etc.

SDG&E continued to run LIEE program print advertising in multiple languages. Below is a table showing the print media and circulation associated with these publications.

Language	<u>Circulation</u>	Area Served
<u>Chinese</u>		
American Chinese Times	14,000	San Diego County
We Chinese in America	5,000	San Diego County
Chinese News	10,000	San Diego County
San Diego Chinese Tribune	Not available	San Diego County
Vietnamese		
Nguio Viet	6,000	San Diego County
Thuong Mai	6,000	San Diego County

English print ads were placed in the following publications:

• North County Times

Senior Life

• San Diego Voice and Viewpoint

Penny Saver

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

- Penny Saver
- Diario Latino
- El Latino

In language radio, live mention, was run on the following stations:

- TNT San Diego (Vietnamese)
- KLNV-FM (Spanish)
- KLQV-FM (Spanish)

Additionally, SDG&E provided energy education to 16,761 low-income customers through its Energy Education workshops. Low-income customers were educated on how to alter and/or change their energy usage by modifying certain household energy consumption patterns and habits. In 2006, SDG&E spent \$92,186 on educating customers through the energy education workshops. This energy education was provided to program participants through two components:

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

Group education was provided through a network of local CBOs that serve low-income clientele, including agencies serving the "underserved" and "hard-to-reach" population in SDG&E's service territory. The workshops were also held at senior centers, in conjunction with school financial workshops, and adult education facilities in an effort to reach seniors and other special interest customers outside of the provider network. Other SDG&E assistance programs are also discussed with participants including LIEE, CARE, FERA, Medical Baseline, and Level Pay Plan.

2005/2006 Winter Initiative

On October 6, 2005, the Commission held a Full-Panel Hearing to receive information and to solicit input from interested parties on proposals that would be used to help mitigate the anticipated high costs of natural gas on low-income customers' bills during the winter of 2005/2006. On October 18 and 19, 2005, the California IOUs and interested parties provided proposals to the Commission for consideration and approval. On October 20, 2005, the Commission held a workshop on those proposals, which were discussed in detail.

In D.05-10-044, the Commission approved the IOUs proposals for LIEE program revisions that would be offered during the winter period beginning on November 1, 2005 through April 30, 2006. D.05-10-044 adopted certain provisions for the 2005/2006 winter season for qualifying

low-income customers under the LIEE program. Specifically, the provisions authorized by the Commission and applicable to SDG&E's LIEE program include the following:

- Income eligibility was increased from 175% to 200% of the Federal Poverty Guidelines (FPG) for all program participants. ³
- Simplification of the enrollment process by utilizing targeted census data to identify potential LIEE participants that would be able to self-certify their eligibility for the LIEE program.
- Replacement of natural gas furnaces with an Annual Fuel Utilization
 Efficiency (AFUE) rating of 65 or lower with models that have an AFUE
 rating of 80 or 92, depending on the climate zone. During the winter months,
 replacement of the forced air furnaces was also applicable to renters, where
 feasible.
- Replacement of leaking or broken water heaters as a measure during the winter months.
- Expansion of Outreach efforts during the winter months to encourage participation in the LIEE program.

The 2005/2006 Winter Initiative created greater opportunities for low-income customers to receive weatherization services, energy efficient lighting, energy efficient appliances, and energy conservation education. To simplify the LIEE program enrollment process, SDG&E utilized the updated 2000 census tract data to identifying low-income customers in specific areas of its service territory and to allow those customers to enroll in the LIEE program by self certifying their income. Through this new targeted self certification process, SDG&E successfully increased customer enrollment by approximately 21% from January through April 2006 compared to the same timeframe in 2005. The LIEE program activities authorized in D.05-10-044 expired on April 30, 2006. However, the income eligibility criterion of 200% of the FPG continues to remain in effect until further Commission order.

2006 Budget Augmentation

In an effort to avoid a sudden decrease in LIEE program activity after the 2005/2006 winter season, the Commission, in D.05-12-026, directed the utilities to treat at least 5% to 10% more homes than originally anticipated when their applications were filed in June 2005. D.05-12-026 also directed the utilities to file a 2006 budget augmentation through an application no later than April 14, 2006.

On April 14, 2006, SDG&E made a compliance filing, in lieu of an application, proposing to use the authorized budget of \$13.368 million, as adopted in D.05-12-026 and \$2.6 million in carryover funds from previous years, along with the continuation of targeted self certification enrollment process to enable SDG&E to exceed its original 2006 LIEE program goal to treat more homes. Essentially, SDG&E did not need to augment its budget in order to meet the Commission's directive to increase program activity by 5-10%. On August 24, 2006, the

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 $^{^3}$ Per D.05-10-044, the income eligibility levels are set at 200% of FPG for the CARE and LIEE programs.

Commission issued D.06-08-025, which approved SDG&E's April 14, 2006 program request and authorized SDG&E to resume the use of targeted self certification enrollment for the remainder of PY2006.

By utilizing the targeted self certification enrollment process, SDG&E significantly exceeded its goal by treating 13,771 homes in 2006 which is approximately 26% more homes than it originally planned to treat as filed in Application (A.) 05-06-013 on June 1, 2005.

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

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 Section 381.5 states that the intent of the Legislature is to strengthen the network of local community service providers. The local CBOs participating in SDG&E's program leveraged their LIEE program funding with funding they received under the State of California Department of Community Services and Development (CSD) 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 program provide as many program energy efficiency measures as feasible to eligible customers served in the program. Consistent with Section 2790 of the PU Code, SDG&E's LIEE program installed all feasible program measures in all the homes served during PY2006. Additionally, SDG&E continued to revisit customers who received LIEE weatherization services prior to 2001, to provide the new program measures authorized by the Commission in D.01-05-033.

During PY2006, SDG&E also worked regularly with the other California IOUs and the Energy Division on several Commission-directed activities. In the low income proceeding R.04-01-006, 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 Division of Ratepayer Advocates and the interested public, achieved the following results during PY2006:

On June 7, 2005, the Assigned Commissioner issued a Ruling which adopted the
amendments to the Phase 5 work plan, schedule, and budget to include the provisions set
forth in the Ruling issued on March 25, 2005. During 2005, the LIEE Standardization
Team⁴ (Standardization Team) developed recommendations for changes to the LIEE
Policy and Procedures (P&P) Manual and the Weatherization Installation Standards

⁴ The LIEE Standardization Team consists of PG&E, SCE, SoCalGas, SDG&E, and the joint utilities technical consultants, with coordination assistance from the Commission's Energy Division and participation by the Division of Ratepayer Advocates.

(WIS) Manual through an open process to solicit public input. On November 1, 2005, the proposed changes to the P&P and WIS Manuals were filed with the Commission for approval.

On February 17, 2006, the Commission convened a workshop to discuss, among other things, the proposed revisions to the LIEE P&P and WIS Manuals, filed on November 1, 2005.

As an outcome of the discussion from the February 17, 2006 Commission workshop, additional revisions were made to the Manuals and were subsequently presented and circulated at the February 28, 2006 Low Income Oversight Board (LIOB) meeting. On March 9, 2006, the proposed revisions to the Manuals were filed with the Commission. By Assigned Commissioners Ruling on March 29, 2006, the Commission adopted the November 1, 2005 Manuals as modified by the March 9, 2006 revisions to the Manuals.

In D.05-12-026, the Commission directed the Standardization Team to not undertake any new activities until authorized. In 2006, there was no activity by the Standardization Team.

Measurement and Evaluation (M&E) Activities

- In D.03-11-020, the Commission adopted the "LIEE Measure Cost Effectiveness Study" conducted by Itron, Inc. filed on June 2, 2003 for the new LIEE program standard measure mix effective January 1, 2004 which continued to be the measure mix during PY2006. In addition, D.05-12-026 adopted the "Report on the Assessment of Proposed New Year 2006 LIEE Program Measures" conducted by Itron, Inc. filed on May 2, 2005 which recommended high efficiency central air conditioners and duct testing and sealing as measures for inclusion in LIEE program standard measure mix effective January 1, 2006.
- In accordance with D.01-06-082, 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. In D.05-12-026, the Commission stated that "we will not formally adopt or approve the results of the 2001 load impact report as the utilities request in this proceeding. Instead, we permit the utilities to rely on the study results on a case-by-case basis, as we do today, until we can address and resolve Low Income Energy Efficiency-related issues in the 2006 Annual Earnings Assessment Proceeding." To determine the energy savings for PY2006, SDG&E has utilized the 2001 LIEE program load impact study to calculate measure savings.
- The LIEE program load impact evaluation was scheduled to occur in 2006 for the PY2004 program, which would have been consistent with the bi-annual schedule authorized by D.02-12-019. The Commission, however, granted the utilities' request to conduct the impact evaluation on the 2005 LIEE program, rather than on the 2004 program. In an effort to enhance the quality of subsequent impact evaluations, PY2005

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⁵ On April 18, 2003, the Notice of Availability was filed with the Commission by SCE on behalf of itself, PG&E, SoCalGas, and SDG&E.

⁶ On February 7, 2005, SCE on behalf of itself, PG&E, SoCalGas, and SDG&E filed a letter to request Commission authorization. On March 17, 2005, the Executive Director of the Commission granted the utilities' request.

was the first year in which the collection of additional measure data and improved sampling techniques became available. During PY2006, the utilities responded to various data requests from the consultant, West Hills Energy and Computing, in an effort to complete the 2005 load impact evaluation report. The report is expected to be completed in the Fall of 2007.

Bill Savings

Table TA 4 reports lifecycle bill savings by measure, by fuel type, and combined for PY2006; Table TA 5 reports the energy rates used for calculating the bill savings; and, Table TA 6 reports the bill savings and the cost ratio for SDG&E's LIEE programs over the last three years.

Other Program-Related Survey

In 2006, SDG&E surveyed approximately 1,200 customers to evaluate their satisfaction with all aspects of the LIEE program, from enrollment to inspection. 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 the survey were designed to ascertain how the contractors performed in delivering program services, customer satisfaction with the service, and whether participants experienced an increase in comfort and safety as a result of participating in the program.

The LIEE program continues to receive high ratings from participants of the LIEE program services and measures installed with the following results:

- Survey findings showed that 90% of LIEE customers were very satisfied overall, with 64% giving LIEE the highest rating of "Completely Satisfied".
- 94% were very satisfied with the measures installed in their homes, with 83% giving the highest rating of "Completely Satisfied".
- Customers continue to rate the sign-up process high with a 97% satisfaction.

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

CBO Participation

SDG&E contracted LIEE program field services coordination with an outside prime contractor, to market and manage field services under its PY2006 program. This prime contractor, RHA subcontracted for weatherization services with two CBOs: (1) Campesinos Unidos, Inc. (CUI) and, (2) Metropolitan Area Advisory Committee (MAAC): and four private companies: (1) Capital State Construction, (2) Rancho Energy Services Co. (RESCO), (3) Western Insulation, and (4) Empire Insulation. RHA also subcontracted with six licensed HVAC companies to provide the gas furnace repair and replacement services offered through the LIEE program. The furnace subcontractors participating in PY2006 included: (1) Ameri-Mex, (2) DM Mechanical, (3) Jerry's Heating and Air Conditioning, (4) Lloyd's Plumbing, (5) South Bay Mechanical, and (6) Tierrasanta Heating and Air Conditioning. Tables Table 5 reflects the level of participation by contractor type.

Leveraging

California 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 CSD:

- Financial assistance to offset the costs of heating and/or cooling dwellings
- Weatherization work to make the dwelling more energy efficient

CBOs are eligible to apply for federal funding to install weatherization measures under the LIHEAP Block Grant program. In SDG&E's service territory, CUI, MAAC and Community Action Partnership of Orange County (CAP) participated in the LIHEAP and leveraged work with SDG&E's LIEE program as appropriate.

Access to Other Low-Income Services

In accordance 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 LIEE program and refer them to the appropriate CBOs and other community agencies. The contractor and all of its subcontractors continued 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. The types of non-energy services provided by the community agencies in SDG&E's LIEE program included:

- 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
- Translation 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 payment assistance

	A	В	С	D	F	F	G	Н	ı	J
			<u> </u>		Table 1		<u> </u>		•	<u> </u>
,		LIEE Dro	arom Evno			9 Electric	Company - PY	/2006		
2			Authorized Bu		_	Annual Expend			of Budget Sp	ont
	LIEE Program:	Electric	Gas	Elec & Gas	Electric	Gas	Elec & Gas	Electric	Gas	Elec & Gas
4	Energy Efficiency	Liectric	Oas	Liec & Gas	Liectric	Gas	Liec a Gas	Liectric	Ous	Liec & Gas
5	- Gas Appliances		\$2,440,496	\$2,440,496		\$1,375,953	\$1,375,953		56%	56%
6	- Electric Appliances	\$5,418,864	φ <u>2,440,490</u>	\$5,418,864	\$5,035,700	\$1,375,955	\$5,035,700	93%	30 %	93%
7	- Weatherization	\$5,416,604	\$4,277,825	\$4,277,825	\$5,035,700	\$4,489,086	\$4,489,086	93 /6	105%	105%
8	- Outreach and Assessment		φ4,211,025	\$4,277,825		φ 4,409,000	\$4,469,060		103 /6	103/6
9	- In Home Energy Education	\$845,648	\$845,648	\$1,691,296	\$897,953	\$897,953	\$1,795,906	106%	106%	106%
10	- Education Workshops	\$66,000	\$66,000	\$1,091,290	\$46,038	\$46,148	\$1,795,906	70%	70%	70%
11	- Pilot	\$00,000	φ00,000	\$132,000	ψ40,030	ψ40,140	\$92,180	7078	7076	7078
12	- Cool Centers			\$0			\$0			
13	Energy Efficiency TOTAL	\$6,330,512	\$7,629,969	\$13,960,481	\$5,979,691	\$6,809,139	\$12,788,830	94%	89%	92%
14	· ·	ψ0,550,512	ψ1,023,303	\$13,300, 4 01	ψυ,υ1υ,υυ1	ψ0,003,133	ψ12,700,030	3470	0370	32 /0
15	Training Center			\$0			\$0			
16	Inspections	\$80,590	\$80,590	\$161,180	\$36,200	\$36,199	\$72,399	45%	45%	45%
17	Marketing	\$288,166	\$288,166	\$576,332	\$171,028	\$171,027	\$342,055	59%	59%	59%
18	M&E Studies	\$31,125	\$31,125	\$62,250	ψ,σ2σ	ψ,σΞ.	\$0	0%	0%	0%
19	Regulatory Compliance	\$143,419	\$143,419	\$286,838	\$104,062	\$104,134	\$208,197	73%	73%	73%
20	General Administration	\$435,570	\$435,570	\$871,140	\$503,607	\$505,393	\$1,009,000	116%	116%	116%
21	CPUC Energy Division	\$10,500	\$10,500	\$21,000	\$7,909	\$7,448	\$15,357	75%	71%	73%
22			, ,	. ,		, ,	. ,	•		
23	TOTAL PROGRAM COSTS	\$7,319,882	\$8,619,339	\$15,939,221	\$6,802,497	\$7,633,341	\$14,435,838	93%	89%	91%
				Funded Outside	of LIEE Progr	am Budget				
24	la dise et O e ete						-			
25 26	Indirect Costs				\$201,685	\$207,232	\$408,918			
26	NGAT Costs					\$235,409	\$235,409			
	300.0					⊅∠ 30,409	ა ∠ან,409			
28 29										
	The 2006 Budget in the amount of	of \$15 030 221 ra	aflects the fundi	na level authorized	by the Commis	ssion in D 05-1	2-026 and D 06-08-0	25 of \$13 368 0	03 nlue carn	over funds
30	from PY2005 of \$2,571,128.	JI ψ10,333,∠∠1 I€	SHECKS THE INHAL	ng level authorized	by the Commis	1-00.U III IIUIGE	2-020 and D.00-06-02	20 01 \$10,000,U	oo, pius carry	Over Iulius
31										

	A	В	С	D	Е	F		G
		l l	Table 2					
١.	LIEE Installations 9 Co.	daga Ca			atria Car		٠v	2006
1	LIEE Installations & Sav	rings - Sa	in Diego					
2		-		Completed &			YIL)
_	Measures	Units	0	L-14/1- (A1)	kW	Therms		-
4	Furnaces	Units	Quantity	kWh (Annual)	(Annual)	(Annual)		Expenses
5	- Repair - Gas	Each	869	-	-	22,053	\$	435,393
6	- Replacement - Gas	Each	321	-	-	12,291	\$	739,972
7	- Repair - Electric	Each	-	-	-		\$	-
8	- Replacement - Electric	Each	-	-	-	-	\$	-
10	Infiltration & Space Conditioning.							
11	- Outlet cover plate gaskets	Home	10,180	-	-	-	\$	61,911
12	3	Home	272	-	-	-	\$	36,232
13	Ŭ	Home	47	427	0	398	\$	12,145
14		Each	1 7	124	0	-	\$	999
15 16	- Evaporative Cooler/Air Cond. Covers - A/C Replacement - Room	Each Each	7 127	15,830	14	32	\$	265 119,376
17	- A/C Replacement - Room (landlord)	Each	-	-	-	-	\$	- 10,510
18		Each	1	164	0	-	\$	2,862
19	- A/C Replacement - Central (landlord)	Each	-	-	-	-	\$	-
20	Weatherization	1						
22	- Attic Insulation	Home	451	2,892	3	11,082	\$	474,548
23		Home	-	-	-	-	\$	-
24	- Weatherstripping - Door	Home	11,146	38,377	35	33,768	\$	1,355,100
25	- Caulking	Home	10,539	23,750	22	31,997	\$	576,550
26 27	- Minor Home Repairs	Home	7,699	22,204	20	34,250	\$	1,130,568
	Water Heater Savings							
29		Home	1,553	4,018	1	16,899	\$	87,495
30		Home	11,470	54,133	16	84,116	\$	751,359
31	- Water Heater Replacement - Gas	Each	19	-	-	361	\$	22,818
33	'	Each Home	237	308	- 0	1,013	\$	4,195
34	- Faucet Aerators	Home	11,895	24,080	7	35,506	\$	176,916
35		1101110	,	,			_	,
_	Lighting Measures		00.074	4 004 055	4.000			242.222
37	- Compact Fluorescents (inc. porchlights)	Each	60,871	1,261,055	1,228	-	\$	648,092
38	- Porchlights fixture replacement	Each	2,117	56,954	55	-	\$	98,835
40	Refrigerators	Each	5,128	3,806,064	581	-	\$	4,164,550
41 42	Refrigerators (landlord)	Each	2	1,484	0	-	\$	722
43	Pilots							
44	- Pilot		-	-	-	-	\$	-
45								
	Customer Enrollment		10.77					4 = 4 4 4 4
47	- Outreach & Assessment	Home	13,771	-	-	-	\$	1,514,140
48	- In-Home Education - Education Workshops	Home Participants	13,549 16,761	-	-	-	\$	281,602 92.186
50	·	. artioiparito	.0,701					
51	Total Savings			5,311,868	1,983	283,766	\$	12,788,830
52	Homes Weatherized	Home	12,270					
54		TIOTHO	12,210					
_	Homes Treated							
56	- Single Family Homes Treated	Home	8,017					
57 58	- Mobile Homes Treated - Multi-family Homes Treated	Home Home	452 5,302					
59		Home	13,771					
60	- Master-Metered Homes Treated	Home	539					
61				-				

	A	В	С	D I	E	F	G					
1 2				Table 3 s - San Diego G		Company - PY						
3	Ratio of Benefits Over Costs Net Benefits											
5	Total Utility Resource Cost Cost Test Total Utility Resource Cost Test Total Resource Utility Resource Cost Total Resource Cost Total Cost Cost Test Total Resource Total Resource Total Resource Test Test Total Resource Total Resour											
6	Energy Efficiency 0.33 0.54 0.61 (\$9,883,548) (\$6,602,546) (\$5,837,643)											
9 10 11 12 13 14 15 16 17 18	The UC test and the MP test we tests, the numerator includes the numerator includes the present of the numerator includes the present of the numerator is also known as	he present value of life sent value of life-cycle	e-cycle energy and ree energy benefits; it o	on-energy benefits. Ti	he TRC test was calc							

A	В	С	D
	Table 4		
LIEE Penetration - San Die	go Gas & Elec	tric Company	- PY2006
			0
		Catina ata d Climibla	Current Year
Voor ¹	Homos Trooted		Penetration Rate for Homes Treated
		in Current real	nomes mealed
2006		352,737	
Total Homes Treated in 10 Years	134,454	352,737	38.12%
¹ 10 Years of activity are reported.			
•			
	Year ¹ 1997 1998 1999 2000 2001 2002 2003 2004 2005	Table 4 LIEE Penetration - San Diego Gas & Elect 1997 9,931 1998 10,838 1999 10,993 2000 13,660 2001 19,315 2002 14,089 2003 15,706 2004 14,897 2005 11,254 2006 13,771 Total Homes Treated in 10 Years 134,454	Table 4 LIEE Penetration - San Diego Gas & Electric Company Year¹ Homes Treated in Current Year 1997 9,931 1998 10,838 1999 10,993 2000 13,660 2001 19,315 2002 14,089 2003 15,706 2004 14,897 2005 11,254 2006 13,771 352,737 Total Homes Treated in 10 Years 134,454 352,737

	А	В	С	D	Е	F		G			
		Table 5									
	LIFE Direct P	urchase and Ins	tallat	ion (`ontrac	tors					
1	San Diego Gas & Electric Company - PY2006										
)									
2			(Check		r more if ap			Annual			
3	Contractor	County	Private	CBO	WMDVBE	LIHEAP	Е	xpenditures			
4	Contractor A	Orange, San Diego	Х				\$	992,653			
5	Contractor B	San Diego	Х				\$	227,586			
6	Contractor C	Orange, San Diego		Х		Х	\$	355,323			
7	Contractor D	San Diego		Х		Х	\$	510,645			
8	Contractor E	San Diego	X				\$	1,044,519			
9	Contractor F	San Diego	Х				\$	73,629			
10	Contractor G	San Diego	Х				\$	82,438			
11	Contractor H	San Diego			Χ		\$	43,564			
12	Contractor K	Orange, San Diego	X				\$	167,941			
13	Contractor L	San Diego	X				\$	166,669			
14	Contractor M	San Diego	X				\$	98,991			
15	Contractor O	San Diego	X				\$	62,420 839,075			
17	Contractor Q	San Diego	X \$ 6								
	Contractor J	Orange, San Diego			Х		\$	8,030,544			
19	Total Contractor Expenditures						\$	12,696,645			

Technical Appendix

	A	В	C D	E F	G H	l J	K L	M	N	0	P	Q	R	S
						Table TA1								
1			Installation Cos	sts of LIFF Pro	ogram Installation	Contractors -	San Diego Ga	as & Flectric	Compar	v - PY200	6			
H			liiotanation oot	oto or Lille i it	ogram motanation		oun bloge of	20 G 21001110	o o mpai	19 200				
2		Unit of Measure		CBO/WMDVBE			Non-CBO/WM	IDVBE				Total		
3		Weasure	14-11-4:			In at a Hatiana			-	1.1-24-		Total		
4			Installations Units %	Dwellings Units %	Costs %	Installations Units %	Dwellings Units %	Cost \$	'S %	Units Installed	Dwellings	Costs	Cost/ Unit	Cost/ Dwelling
	Dwellings [1]	Each	13,771 100%	13,771 100% 5	7 ,-	011115 %	0%	Ŧ	33%	13,771	13,771 \$		921.98	
6	Dwellings [1]	Laon	10,771 10070	10,771 10070	9 0,000,001 0170	070	070	Ψ 4,107,100	3070	10,771	10,771 ψ	12,000,040	021.00	Ψ 321.30
7	Furnaces													
8	- Repair - Gas	Each	815 88%	763 88% 5	\$ 365,721 84%	108 12%		\$ 69,672	16%	923	869 \$		\$ 472	\$ 501
9	- Replacement - Gas	Each	21 7%		\$ 49,954 7%	300 93%		\$ 690,018	93%	321	321 \$		\$ 2,305	\$ 2,305
10	- Repair - Electric	Each	- 0%		\$ - 0%	0 0%	- 0%		0%	-	- 3		\$ -	\$ -
11	- Replacement - Electric	Each	- 0%	- 0%	\$ - 0%	0 0%	- 0%	\$ -	0%	-	- (-	\$ -	\$ -
12	Infiltration 9 Coope Conditioning													
13	Infiltration & Space Conditioning Outlet cover plate gaskets	Home	3,482 34%	3,482 34% 5	\$ 20,937 34%	6,700 66%	6,700 66%	\$ 40,973	669/	10,182	10,182 \$	61,911	e 61	9 9
15	- Duct Testing	Home Home	3,482 34% 272 100%	272 100% 3	\$ 20,937 34% \$ 36.232 100%	- 0%	- 0%	\$ 40,973	66% 0%	272	272 \$		\$ 6 \$ 133	\$ 133
16	- Duct Testing - Duct Sealing	Home	8 17%	8 17% 3	1,898 16%	39 83%		\$ 10,247	84%	47	47 \$	12,145	\$ 258	\$ 258
17	- Evaporative Coolers	Each	1 100%	1 100% 5	999 100%	- 0%	- 0%	\$ 10,247	0%	1	1 \$	999	\$ 999	\$ 999
18	- Evaporative Cooler/Air Cond. Covers	Each	2 29%	2 29% 5	76 29%	5 71%		\$ 189	71%	7	7 \$		\$ 38	\$ 38
19	- A/C Replacement - Room	Each	127 100%	127 100% 3	119,376 100%	- 0%	- 0%	\$ -	0%	127	127 \$	119,376	\$ 940	\$ 940
20	- A/C Replacement - Room (landlord)	Each	- 0%	- 0%	\$ - 0%	- 0%	- 0%	\$ -	0%	-	- 3	3 -	\$ -	\$ -
21	- A/C Replacement - Central	Each	- 0%	- 0%	\$ - 0%	1 100%	1 100%	\$ 2,862	100%	1	1 \$	2,862	\$ 2,862	\$ 2,862
22	- A/C Replacement - Central (landlord)	Each	- 0%	- 0%	\$ - 0%	- 0%	- 0%	\$ -	0%	-	- 9	-	\$ -	\$ -
23	\\\\4\ \ 4\ 4\ 4													
25	Weatherization - Attic Insulation	Home	151 33.5%	151 33% 5	\$ 160,166 34%	300 67%	300 67%	\$ 314,382	66%	451	451 \$	474,548	\$ 1,052	\$ 1,052
26	- Attic Access Weatherization	Home	- 0%		\$ - 0%	- 0%	- 0%	\$ 314,362	0%	- 451	451 \$		\$ 1,05Z	\$ 1,052
27	- Weatherstripping - Door	Home	3,432 31%		\$ 389,241.88 0%	7.714 69%		\$ 965,858.32	0%	11.146	11.146 \$		\$ 121.58	\$ 121.58
28	- Caulking	Home	2,780 26%	2,780 26% 3	,	7,759 74%	7,759 74%		75%	10,539	10,539 \$		\$ 54.71	\$ 54.71
29	- Minor Home Repairs	Home	2,474 32%	2,474 32% 3		5,225 68%	5,225 68%		0%	7,699	7,699 \$			\$ 146.85
30														
31	Water Heater Savings									1.550	1.550 4	1		
32	- Water Heater Blanket	Home	489 31%	489 31% 3		1,064 69%		\$ 59,827	68%	1,553	1,553 \$	4.1.44	\$ 56	\$ 56
33	- Low Flow Showerhead - Water Heater Replacement - Gas	Home Each	3,607 31% 14 74%	3607 31% S	2 200,201 0170	7,864 69% 5 26%	7,864 69% 5 26%	\$ 516,105 \$ 6.019	69% 26%	11,471 19	11,471 \$ 19 \$	751,359 22,818	\$ 66 \$ 1,201	\$ 66 \$ 1,201
35	- Water Heater Replacement - Gas	Each	- 0%		\$ - 0%	- 0%	- 0%	\$ 6,019	0%	- 19	- 9		\$ 1,201	\$ 1,201
36	- Water Heater Replacement - Electric	Home	145 61%	145 61% 5		92 39%		\$ 1,681	40%	237	237 \$		Ψ	\$ 18
37	- Faucet Aerators	Home	3,848 32%	3848 32% 3		8,047 68%		\$ 117,870	67%	11,895	11,895 \$		\$ 15	
38		1	0,0.0	10-10-10-10-10-10-10-10-10-10-10-10-10-1	, ,,,,,,		0,0 00,0	*,	, .	,,,,,,	/		*	•
	Lighting Measures													
40	- Compact Fluorescents (inc. porchlights)	Each	60,871 100%	60,781 100% 3		- 0%	- 0%	\$ -	0	60,871	60,781 \$		\$ 11	
41 42	- Porchlights fixture replacement	Each	621 29%	461 28% 3	\$ 28,992 29%	1,496 71%	1,159 72%	\$ 69,843	71%	2,117	1,620 \$	98,835	\$ 47	\$ 61
	Refrigerators	Each	5,128 100%	5,128 100% 3	\$ 4,164,550 100%	- 0%	- 0%	\$ -	0%	5,128	5,128 \$	4,164,550	\$ 812	\$ 812
	Refrigerators (landlord)	Each	2 100%	2 100% 3		- 0%	- 0%	\$ -	0	2	2 \$		\$ 361	\$ 361
45				1 - 275 [3			1 275 1	· .						
	Pilots		1 1	1 1		1 1 1 1				_				
47 48	- Pilot		- 0%	- 0%	- 0%	- 0%	- 0%	\$ -	0	-	- (; - <u> </u>	\$ -	\$ -
	Customer Enrollment	T												
50	- Outreach & Assessment	Home	13.771 100%	13.771 100% 5	\$ 1,514,140 100%	- 0%	- 0%	\$ -	0	13,771	13.771 \$	1,514,140	\$ 110	\$ 110
51	- In-Home Education	Home	13,549 100%	13,549 100% 3		- 0%	- 0%	\$ -	0%	13,549	13,549 \$		\$ 21	\$ 21
52	- Education Workshops	Participants	12,308 73%	12,308 73% 3		4,453 27%	4,453 27%		27%	16,761	16,761 \$		\$ 6	
53	·					1				l				
54														!
	[1] SDG&E's homes treated are income qualified by its prime	contractor which is W	VMDVBE. Therefore all homes	treated are captured in the C	CBO/WMDVBE category. The prim	e contractor subcontracts with	private non-CBO/WMDVB	E contractors and SDG8	E has reflected th	ose expend				!
55														

	A		В		С		D		E					
1	Table TA 2 Combined (Electric & Gas) LIEE Cost Elements - San Diego Gas & Electric Company - PY2006													
2				Ex	penditures Reco	orde	d by Cost Eler	men	t					
3	LIEE Program:	Labor Non-Labor Contract Elec & Gas												
4	Energy Efficiency													
5	- Gas Appliances		-		-	\$	1,375,953	\$	1,375,953					
6	- Electric Appliances		-		-	\$	5,035,700	\$	5,035,700					
7	- Weatherization		-		-	\$	4,489,086	44	4,489,086					
8	- Outreach and Assessment		-		-	\$	-	44	-					
9	- In Home Energy Education		-		-	\$	1,795,906	\$	1,795,906					
10	- Education Workshops		-		-	\$	94,527	\$	94,527					
11	- Pilot		-		-	\$	(2,342)	\$	(2,342)					
12	- Cool Centers		-		-	\$	-	\$	-					
	Energy Efficiency TOTAL		-		-	\$	12,788,830	\$	12,788,830					
14														
	Training Center		-		-		-		-					
	Inspections	\$	72,048	\$	351		-	\$	72,399					
	Marketing	\$	(146)	\$	342,201		-	\$	342,055					
	M&E Studies	\$	-	\$	-		-	\$	-					
	Regulatory Compliance	\$	161,107	\$	47,090		-	\$	208,197					
20	General Administration	\$	810,299	\$	198,701		-	\$	1,009,000					
21	CPUC Energy Division	\$	-	\$	15,357		-	\$	15,357					
22														
23	TOTAL PROGRAM COSTS	\$	1,043,308	\$	603,700	\$	12,788,830	\$	14,435,838					

		1			•								
	A		В		С		D		E				
	Table TA 2 Combined (Electric)												
4	LIEE Cost Elements - San Diego Gas & Electric Company - PY2006												
2													
	LIEE Brogram:	Expenditures Recorded by Cost Element am: Labor Non-Labor Contract Electric											
3	LIEE Program:		Labor		NOTI-LADOI		Contract		Electric				
4	Energy Efficiency	•		_									
5	- Gas Appliances	\$	-	\$	-	_							
6	- Electric Appliances	\$	-	\$	-	\$	5,035,700	\$	5,035,700				
7	- Weatherization	\$	-	\$	-	\$	-	\$	-				
8	- Outreach and Assessment	\$	-	\$	-	\$	-	\$	-				
9	- In Home Energy Education	\$	-	\$	-	\$	897,953	\$	897,953				
10	- Education Workshops	\$	-	\$	-	\$	48,380	\$	48,380				
11	- Pilot	\$	-	\$	-	\$	(2,342)	\$	(2,342)				
12	- Cool Centers	\$	-	\$	-	\$	-	\$	-				
13	Energy Efficiency TOTAL	\$	-	\$	-	\$	5,979,691	\$	5,979,691				
14													
15	Training Center	\$	-	\$	-	\$	-	\$	-				
16	Inspections	\$	36,024	\$	176	\$	-	\$	36,200				
17	Marketing	\$	(73)	\$	171,101	\$	-	\$	171,028				
18	M&E Studies	\$	-	\$	-	\$	-	\$	-				
19	Regulatory Compliance	\$	80,554	\$	23,508	\$	-	\$	104,062				
	General Administration	\$	405,151	\$	98,456	\$	-	\$	503,607				
21	CPUC Energy Division	\$	-	\$	7,909	\$	-	\$	7,909				
22					,								
23	TOTAL PROGRAM COSTS	\$	521,656	\$	301,150	\$	5,979,691	\$	6,802,497				

	А		В		С		D		E					
1	LIEE Cost Eleme		able TA 2 San Dieg		-	•	Company	- PY	2006					
2				Expend	itures Reco	orde	d by Cost Elem	ent						
3	LIEE Program:													
4	Energy Efficiency													
5	- Gas Appliances	\$	-	\$	-	\$	1,375,953	\$	1,375,953					
6	- Electric Appliances	\$	-	\$	-	\$	-	\$	-					
7	- Weatherization	\$	-	\$	-	\$	4,489,086	\$	4,489,086					
8	- Outreach and Assessment	\$	-	\$	-	\$	-	\$	-					
9	- In Home Energy Education	\$	-	\$	-	\$	897,953	\$	897,953					
10	- Education Workshops	\$	-	\$	-	\$	46,148	\$	46,148					
11	- Pilot	\$	-	\$	-	\$	-	\$	-					
12	- Cool Centers	\$	-	\$	-	\$	-	\$	-					
13	Energy Efficiency TOTAL	\$	-	\$	-	\$	6,809,139	\$	6,809,139					
14														
15	Training Center	\$	-	\$	-	\$	-	\$	-					
16	Inspections	\$	36,024	\$	176	\$	-	\$	36,199					
17	Marketing	\$	(73)	\$	171,100	\$	-	\$	171,027					
18	M&E Studies	\$	-	\$	-	\$	-	\$	-					
19	Regulatory Compliance	\$	80,553	\$	23,581	\$	-	\$	104,134					
20	General Administration	\$	405,148	\$	100,245	\$	-	\$	505,393					
21	CPUC Energy Division	\$	-	\$	7,448	\$	-	\$	7,448					
22														
23	TOTAL PROGRAM COSTS	\$	521,652	\$	302,550	\$	6,809,139	\$	7,633,341					

	А	В	С	D	Е
		Table T	Ά3		
	Drogram Datail by			acting Cour	
	Program Detail by				je
1	San Diego Ga	is & Electric	c Company	/ - PY2006	
2	Γ	Energy S	avings		Dwellings
3		(mWh)	(mTherm)	Expenses [1]	Treated
4	Gas Heat - Own				
5	Single Family	1,250	107	\$ 2,779,068	3,011
6	Multi Family	14	1	\$ 31,920	35
7	Mobile Home	149	7	\$ 340,942	335
8	Sub Total Dwellings Served	1,413	114	\$ 3,151,931	3,381
9					
	Gas Heat – Rent				
11	Single Family	1,671	103		4,006
12	Multi Family	477	31	\$ 1,573,213	1,725
13	Mobile Home	21	1	\$ 34,603	34
14	Sub Total Dwellings Served	2,169	134	\$ 5,305,242	5,765
15					
	Electric Heat – Own				
17	Single Family	99	1	\$ 190,132	206
18	Multi Family	17	0	\$ 51,984	57
19	Mobile Home	8	0	\$ 13,231	13
	Sub Total Dwellings Served	124	2	\$ 255,347	276
21					
	Electric Heat – Rent	000		A 055 044	005
23	Single Family	200	3	\$ 355,344	385
24	Multi Family	1,136	23	\$ 2,986,825	3,275
25	Mobile Home	2	0	\$ 7,124	7
26 27	Sub Total Dwellings Served	1,338	26	\$ 3,349,293	3,667
	TOTAL DWELLINGS SERVED [2]	5,044	276	\$ 12,061,813	13,089
29	TOTAL DWELLINGS SERVED [2]	5,044	270	Φ 12,001,013	13,069
30					
	[1] - Excluding indirect program costs a	nd NGAT costs			
32			a		
33		avo space nealin	9.		
00					

	A	В	С	D	Е	F			
		Ta	able TA4		<u> </u>	·			
	1 51010								
1	Life Cycle Bill Savings - San Diego Gas & Electric Company - PY2006								
2	Measure Description	Number Installed	Per Measure Electric Impact (kWh)	Per Measure Gas Impact (Therms)	Effective Useful Life (EUL)	Total Measure Life Cycle Bill Savings			
3									
4	Energy Efficiency Measures								
5	<u> </u>								
6	Air Conditioner Replacement - Central	1	164.3	0	18	\$278			
7	Air Conditioner Replacement - Room	127	124.65	0	15	\$23,263			
8	Attic Insulation	453	6.38	24.58	25	\$208,253			
9	Caulking	10,540	2.25	3.04	5	\$168,139			
10	Compact Flouorescents	60,871	20.72	0	8	\$1,094,605			
11	Duct Sealing and Repair	47	9.09	8.47	5	\$2,166			
12	Evaporative Coolers / Air Cond. Covers	7	0.61	4.51	3	\$96			
13	Exterior Hardwired Fixture	1,620	35.16	0	20	\$103,991			
14	Faucet Aerator	11,895	2.02	2.98	5	\$185,274			
15	Furnace	321	0	38.29	22	\$204,534			
16	Furnace Repair	871	0	25.32	10	\$197,865			
17	Low Flow Showerhead	11,472	4.72	7.33	10	\$811,741			
	Minor Home Repair	6,400	3.47	5.35	10	\$330,688			
	Refrigerators	5,130	742.21	0	15	\$5,595,300			
20	Water Heater Blanket	1,553	2.59	10.88	5	\$83,958			
	Water Heater Pipe Wrap	237	1.3	4.28	15	\$13,137			
	Water Heater Replacement - Gas	19	0	19	13	\$4,030			
23	Weatherstripping	11,148	3.44	3.03	5	\$185,024			
25 26 27	Total Bill Savings for All Measures in Program Year Total Number of Homes Served By the Program					\$9,212,340 13,771			
	Life Cycle Bill Savings Per Home					\$669			
29	<u> </u>					·			

	A	В	С							
		Table TA5								
	Energy Rates Used For Bill Savings Calculations									
1	San Diego Gas & Electric Company - PY2006									
2										
3	2006	0.1244	1.0599							
4	2007	0.1282	1.0917							
5	2008	0.1320	1.1244							
6	2009	0.1360	1.1582							
7	2010	0.1401	1.1929							
8	2011	0.1443	1.2287							
9	2012	0.1486	1.2656							
10	2013	0.1530	1.3035							
	2014	0.1576	1.3426							
12	2015	0.1624	1.3829							
13	2016	0.1672	1.4244							
14	2017	0.1722	1.4671							
15	2018	0.1774	1.5112							
16	2019	0.1827	1.5565							
17	2020	0.1882	1.6032							
18	2021	0.1939	1.6513							
19	2022	0.1997	1.7008							
20	2023	0.2057	1.7518							
21	2024	0.2118	1.8044							
22	2025	0.2182	1.8585							
23	2026	0.2247	1.9143							
24	2027	0.2315	1.9717							
25	2028	0.2384	2.0309							
26	2029	0.2456	2.0918							
27	2030	0.2530	2.1545							
28 29 30 31 32 33		pased on the average rate paid by LIEE 6. The escalation factor is applied at 3	percent.							

	А		В		С	D		E		
	Table TA 6									
1	Bill Savings - San Diego Gas & Electric Company - PY2006									
2	Program Year	Progra	am Costs	_	am Lifecycle I Savings	Program Bi Savings/Co Ratio		Per Home Average Lifecycle Bill Savings		
3	2004	\$	14,405,365	\$	9,607,052		0.67	\$ 645		
4	2005	\$	12,970,508	\$	8,864,286	_	0.68	\$ 788		
5	2006	\$	14,435,838	\$	9,212,340		0.64	\$ 669		