

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

**2004 Results
May 2005**



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Executive Summary

Overview

This report provides information on the accomplishments and costs of Southern California Gas Company's (SoCalGas) 2004 Low-Income Energy Efficiency (LIEE) Direct Assistance Program (DAP).

The Direct Assistance Program provides income-qualified residential customers with no-cost energy efficiency weatherization services and energy education. Energy Education is provided both at in-home and in-group education workshop settings. In 2004, SoCalGas continued conducting natural gas appliance testing (NGAT) testing on all homes that were weatherized. The Direct Assistance Program Training Center (Training Center), in 2005, plans to continue offering NGAT testing as a class for the weatherization contractors. The Training Center management team will continue conducting on-site audits of each program contractor. As part of the audit, SoCalGas randomly selects contracts and income documentation to review for accuracy of information and to validate that participating customers meet the program's eligibility requirements. SoCalGas plans to continue its post inspection practice on a sampling of completed weatherization jobs and on 100% of those jobs involving a repair or replacement of a gas appliance.

Program Results

During PY2004, SoCalGas weatherized a total of 47,079 homes, provided in-home energy education to 47,079 customers, repaired 3,423 furnaces, replaced 3,735 furnaces, repaired 410 water heaters and replaced 30 water heaters. In addition, 20,035 customers received energy education through 901 community workshops. The Training Center provided 18 training classes to 290 students during PY2004.

The PY2004 LIEE program design and funding was approved by the Commission in Decision (D.) 02-12-019. SoCalGas' authorized budget for PY2004 was \$34,521,502, exclusive of any unspent funds carried over from 2003. LIEE program expenditures during 2004 totaled \$32,595,808. Any LIEE unspent funds from 2004 will carryover into the 2005 program.

21, 2005, the Commission issued D.05-04-052 which approved SoCalGas' budget proposed in A.04-07-010 with the exception of the dollars disapproved in the decision.¹

During 2005, SoCalGas plans to weatherize 40,000 homes, provide in-home education and energy education workshops to 60,000 customers, repair or replace 1,500 natural gas water heaters, and repair or replace 9,000 natural gas furnaces. These enhanced goals will focus on continuing to provide comprehensive services and providing energy services to the maximum number of qualified limited-income customers. During PY2005, SoCalGas and Southern California Edison Company plan to continue the joint Inter-Utility Agreement to deliver DAP services to low-income households located in their overlapping service territories. As part of this effort, SoCalGas will continue to use personalized In-Home Energy Education and Resource Guides to provide more in-depth customer education. This joint utility project has been designed to increase customer's knowledge about energy efficiency measures and encourage customers to modify their energy-use behaviors so they will feel that they have more control over their gas and electric energy bills.

In an effort to enhance enrollment and the delivery of DAP services to the hard-to-reach rural customers, SoCalGas plans to continue to strengthen its focus on this segment of the low-income customer population. SoCalGas will increase outreach efforts to rural communities by advertising on local radio stations and in community newspapers, mailing information directly to homes targeted as low-income, and networking with faith based organizations, senior centers and other organizations providing services to target audiences. SoCalGas will also explore working closely with school districts/boards to utilize another avenue in reaching this targeted audience. SoCalGas plans to continue targeting the hard to reach and rural customers in Tulare, Kern and Kings Counties.

In 2005, SoCalGas will continue to outsource LIEE NGAT testing to local agencies that perform weatherization at the time the home is weatherized. SoCalGas' DAP Training Staff will provide training to the crews of the local agencies responsible for conducting NGAT tests at a customer's premises. This process will reduce the number of incomplete NGAT tests, eliminate repeat calls and customer inconvenience.

The Training Center provides training to contractors in outreach and marketing of program services, NGAT, and standards associated with weatherization installation and furnace repair and replacement. The Training Center management team conducts on-site audits of each DAP contractor to ensure the contractors are providing quality service to SoCalGas customers. As part of the audits, SoCalGas randomly selects contracts and income documentation, which are reviewed for accuracy of information, eligibility of the customer for the program and to verify that all agency personnel are following program procedures. In 2005, SoCalGas' goal is to audit up to 10% or 4,000 contractor records.

During PY2004, SoCalGas conducted 18 classes and trained 290 students. The training incorporated both the statewide Weatherization Installation Standards (WIS) for installations and the statewide standardized policies and procedures. SoCalGas plans to continue offering classes during 2005, based on contractor need.

¹ The 2005 authorized budget numbers are based on the best available information SoCalGas has to date. These numbers are subject to modification, however, based on the ultimate outcome of D. 05-04-052 "Interim Opinion Approving 2005 Low Income Energy Efficiency (LIEE) and California Alternative Rates for Energy (CARE) Programs for Pacific Gas and Electric Company, Southern California Edison Company, Southern California Gas Company, and San Diego Gas & Electric Company", issued April 21, 2005.

Training Center personnel plan on conducting meetings with contractors to review policy and procedures for clarification purposes. Additionally, the Training Center will monitor the status of all contractor licenses through the Contractors State Licensing Board to verify that all licenses are in good standing.

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

Regulatory Compliance and Oversight

SoCalGas 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 CBOs in SoCalGas' program leveraged their LIEE program funding with funding they received under the state's Low-Income Home Energy Assistance Program (LIHEAP) weatherization efforts. Local CBOs and other community organizations also provided energy education to customers in conjunction with their other community services offerings.

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, SoCalGas' program installed all feasible Commission-authorized LIEE program measures in customer's homes during PY2004.

During PY2004, SoCalGas also worked with the other California investor-owned utilities (IOUs) and the Energy Division on several Commission-directed activities. In the low-income rulemaking R.04-01-006, the Commission directed the utilities to develop standardized statewide measure installation, policy and procedures 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 interested parties, achieved the following results during PY2004:

- The Joint Utility Low-Income Energy Efficiency 2004 Costs and Bill Savings Standardization Report was filed by Pacific Gas and Electric Company, Southern California Edison Company, Southern California Gas Company and San Diego Gas and Electric in May, 2005, as directed by R.04-01-006. The report calculates, compares and explains differences in the annual bill savings achieved by each utility for 2002, 2003, and 2004. In compliance with Ordering Paragraph 4 of D.01-12-020, the Joint Utility Report is incorporated by reference in this Annual Report. Monthly bill savings are reported by the utilities in their Monthly Rapid Deployment Reports.
- Rapid Deployment Reports - During 2004, SoCalGas filed its Rapid Deployment Reports on a monthly basis and filed the 2004 Year-End Report on February 22, 2005. The reports provide detailed information on the LIEE rapid deployment program activities, impacts, and expenditures as directed in D.01-05-033.
- Joint Utility Statewide LIEE Standardization Team Phase 5 Recommendations - On October 22, 2004, the Commission issued a Ruling which approved the work plan,

schedule, and budget filed on October 15, 2004. The Phase 5 work plan, schedule, and budget included specific tasks for the LIEE Policy and Procedure (P&P) Manual, the Weatherization Installation Standards (WIS) Manual, and an assessment of new measure for inclusion in the 2006 LIEE program.

- Specific tasks adopted in the Phase 5 work plan and schedule included submittal of recommended changes to the P&P and WIS Manuals by December 15, 2004. The Team worked diligently on reviewing and revising the Manuals to adhere to the schedule as adopted by the Commission, however, the Team requested and the Commission granted a one-month extension of time to file the recommended revisions to the Manuals.
- New Measure Assessment - On December 17, 2004, the Standardization Team submitted a solicitation for new measures for inclusion in the 2006 LIEE program. The solicitation was provided to the service list in R.04-01-006 and it was posted to the Low-Income Oversight Board (LIOB) website. Four respondents submitted proposals for the new measure assessment.

Measurement and Evaluation (M&E) Activities

- In D.03-11-020, the Commission adopted a new LIEE program standard measure mix effective January 1, 2004.
- 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.² The results of the 2001 LIEE programs load impact study was utilized by SoCalGas to calculate measure savings and performance incentive qualification related to its PY2004 LIEE program.
- The Statewide First Year Load Impact Study of the PY2002 LIEE Programs was completed by West Hills Energy and Computing in November 2004. At the time of the filing of the 2005 AEAP, this study has not been finalized or filed with the Commission.
- The next LIEE program load impact evaluation is scheduled to occur in 2006 for the PY2004 program, which is consistent with the bi-annual schedule authorized by D.02-12-019. The Commission, however, granted the utilities request to conduct the next impact evaluation on the 2005 LIEE program, rather than on the 2004 LIEE program.³ While conducting the impact evaluation on the 2002 program, which occurred in 2003 and 2004, the Utilities, Energy Division, and Office of Ratepayer Advocates determined that the collection of additional measure data and improved sampling techniques would enhance the quality of subsequent impact evaluations and that the next evaluation should be conducted when this additional data is available. This determination was made in the fall of 2004, which was too late to collect new data for PY2004. PY2005 will be the first year that the new data will be available.

² On April 18, 2003, 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.

³ On February 7, 2005, Southern California Edison Company on behalf of itself, Pacific Gas and Electric Company, Southern California Gas Company, and SDG&E filed a letter to request Commission authorization. On March 17, 2005, the Executive Director of the Commission granted the utilities' request.

Bill Savings

Table TA 3.7 reports lifecycle bill savings by measure, by fuel type, and combined for PY2004; 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 SoCalGas' LIEE programs over the last three years.

Other Program-Related Survey

During PY2004, SoCalGas surveyed approximately 1,200 customers to assess their satisfaction with the program. The purpose of this survey was to evaluate customer satisfaction relating to the 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 and increased comfort and safety.

The findings of the survey showed that the majority of customers claim to be more comfortable as a result of the program. While approximately 85% said they are "more comfortable" as a result of the work done by DAP, 14% said they are "about the same" and 1% said they are "less comfortable". Overall the DAP Program received high ratings. Nearly nine out of ten (89%) are very satisfied with the DAP program, with 65% giving the DAP program the highest rating of "Completely Satisfied".

Community Based Organizations (CBO) Leveraging and Access to Community Services

CBO Participation

All of the weatherization agencies/contractors are classified as either community based organizations or are Women, Minority and Disabled Veteran Business Enterprises (WMDVBE) certified. Two thirds of the appliance contractors providing furnace and water heater services in PY2004 also hold either CBO or WMDVBE status.

Leveraging

Over half of SoCalGas' LIEE participating program contractors are also Low-Income Home Energy Assistance Program (LIHEAP) providers. This affords the opportunity to leverage the services offered by both programs to our customers. The LIHEAP, and other LIEE contractors, are committed to supporting the rapid deployment strategy and providing comprehensive services to each low-income household.

Access to Other Low-Income Services

LIEE eligible customer information is provided to the CARE staff for automatic enrollment and possible certification and post-enrollment verification. In addition to the weatherization services offered by many participating agencies, other programs and services (from other funding sources) offered to customers include: the Home Energy Assistance Program (HEAP), Consumer Credit Counseling, Housing Programs, Food and Clothing Referrals, Job Assistance, Child Care, Transportation Services, Recycling Programs, Youth and Family Services, Senior Programs, Neighborhood Beautification, Computer Labs and Vocational Training, Homeless Centers, Legal Assistance, Head Start Programs, Handyman Programs, Drug and Domestic

Violence Programs and Healthy Family Program as well as other services. When outreached in the community or when applying for specialized assistance, the low-income customer is screened for all services that are needed and/or that they qualify for, including SoCalGas' weatherization and appliance assistance.

Table 2.1

Summary of Costs: Low Income - Southern California Gas Company

LIEE Program	2004		2005
	Budgeted	Recorded	Budgeted
Energy Efficiency			
- Gas Appliances	\$ 9,830,500	\$ 6,470,197	\$ 8,020,500
- Electric appliances	\$ -	\$ -	\$ -
- Weatherization	\$ 17,747,839	\$ 17,416,318	\$ 15,949,814
- Outreach & Assessment	\$ 5,060,000	\$ 3,374,540	\$ 4,600,000
- In Home Energy Education	\$ -	\$ 1,095,303	\$ -
- Education Workshops (EELI)	\$ 1,122,000	\$ -	\$ 1,020,000
Energy Efficiency Total	\$ 33,760,339	\$ 28,356,359	\$ 29,590,314
Pilots			
- Landlord Refrigerator Rebate	\$ -	\$ -	\$ -
- Landlord Room A/C Rebate	\$ -	\$ -	\$ -
- Landlord Central AC Rebate	\$ -	\$ -	\$ -
- NGAT Appliances	\$ -	\$ -	\$ -
Total Pilots	\$ -	\$ -	\$ -
Training center	\$ 16,000	\$ 252,471	\$ 325,000
Inspections	\$ 1,690,033	\$ 1,431,224	\$ 1,132,919
Advertising	\$ 540,800	\$ 347,637	\$ 281,000
M&E studies	\$ 67,000	\$ 169,375	\$ 60,000
Regulatory compliance	\$ 157,000	\$ 94,534	\$ 230,000
Other administration	\$ 2,642,981	\$ 1,391,472	\$ 1,669,642
Indirect Costs	\$ -	\$ 524,780	\$ -
Oversight Costs			
- LIAB Start-Up	\$ -	\$ -	\$ -
- LIAB PY Past Year	\$ -	\$ -	\$ -
- LIAB PY Present Year	\$ -	\$ -	\$ -
- CPUC Energy Division	\$ 25,000	\$ 27,959	\$ 36,000
Total Oversight Costs	\$ 25,000	\$ 27,959	\$ 36,000
Total Costs	\$ 38,899,153	\$ 32,595,808	\$ 33,324,875

Note: SoCalGas LIEE Program recorded expenditures do not reflect \$114,499 in indirect costs for payroll taxes. However, these costs are included in the LIEE balancing account as a result of SoCalGas' Cost of Service proceeding per Commission Decision 04-12-015.

Note: The 2005 authorized budget numbers are based on the best available information SoCalGas has to date. These numbers are subject to modification, however, based on the ultimate outcome of D. 05-04-052 "Interim Opinion Approving 2005 Low Income Energy Efficiency (LIEE) and California Alternative Rates for Energy (CARE) Programs for Pacific Gas and Electric Company, Southern California Edison Company, Southern California Gas Company, and San Diego Gas & Electric Company," issued April 21, 2005.

Table 2.2
Summary of LIEE Program Effects: DAP - Southern California Gas Company
Program Year: 2004
(Annual Energy Reductions)

	2004 (Recorded)	2005 (Planned)
mWh	131	112
mTherms	1030	1052

Table 2.3
Summary of LIEE Cost-Effectiveness - Southern California Gas Company
Program Year: 2004

	(Benefit-Cost Ratios)					
	2004 (Recorded)			2005 (Planned)		
	Utility Cost Test	Total Resouce Cost Test	*Modified Participant Test	Utility Cost Test	Total Resouce Cost Test	*Modified Participant Test
DAP	0.20	0.19	0.53	0.20	0.19	0.51

Table 2.4
Summary of LIEE Cost-Effectiveness: DAP - Southern California Gas Company
Program Year: 2004
(Net Benefits; \$Mil)

	2004 (Recorded)			2005 (Planned)		
	Utility Cost Test	Total Resource Cost Test	*Modified Participant Test	Utility Cost Test	Total Resource Cost Test	*Modified Participant Test
DAP	\$ (26,138,097)	\$ (26,305,744)	\$ (15,353,305)	\$ (26,696,639)	\$ (26,900,292)	\$ (16,425,320)

Table TA 3.1
LIEE Program Cost Estimates used for Cost-Effectiveness
Program Year: 2004
Southern California Gas

Gas

Program	Utility Costs					
	Program Incentives (Recorded)		Admin	Other	Total	IMC
	Actual	Committed				
LIEE	\$ 29,787,582	\$ -	\$ 2,808,226	\$ -	\$ 32,595,808	\$ -

Table TA 3.2
LIEE Cost Elements - Southern California Gas Company

LIEE Program	Expenditures Recorded by Cost Element - 2004			
	Labor	Non-Labor	Contract	Total
Energy Efficiency				
- Gas Appliances	\$ -	\$ -	\$ 6,470,197	\$ 6,470,197
- Electric appliances	\$ -	\$ -	\$ -	\$ -
- Weatherization	\$ -	\$ -	\$ 17,416,318	\$ 17,416,318
- Outreach & Assessment	\$ -	\$ -	\$ 3,374,540	\$ 3,374,540
- In Home Energy Education	\$ -	\$ -	\$ 1,095,303	\$ 1,095,303
- Education Workshops (EELI)	\$ -	\$ -	\$ -	\$ -
Energy Efficiency Total	\$ -	\$ -	\$ 28,356,359	\$ 28,356,359
Pilots				
Pilot (NGAT Appliances)	\$ -	\$ -	\$ -	\$ -
Total Pilots	\$ -	\$ -	\$ -	\$ -
Training center	\$ 237,427	\$ 15,043	\$ -	\$ 252,471
Inspections	\$ -	\$ -	\$ 1,431,224	\$ 1,431,224
Advertising	\$ -	\$ 149,236	\$ 198,400	\$ 347,637
M&E studies	\$ -	\$ -	\$ 169,375	\$ 169,375
Regulatory compliance	\$ 83,394	\$ 9,020	\$ 2,119	\$ 94,534
Other administration	\$ 1,282,301	\$ 74,517	\$ 34,654	\$ 1,391,472
Indirect Costs	\$ -	\$ 524,780	\$ -	\$ 524,780
Oversight Costs				
- LIAB Start-Up	\$ -	\$ -	\$ -	\$ -
- LIAB PY Past Year	\$ -	\$ -	\$ -	\$ -
- LIAB PY Present Year	\$ -	\$ -	\$ -	\$ -
- CPUC Energy Division	\$ -	\$ 27,959	\$ -	\$ 27,959
Total Oversight Costs	\$ -	\$ 27,959	\$ -	\$ 27,959
Total Costs	\$ 1,603,122	\$ 800,555	\$ 30,192,131	\$ 32,595,808

Table TA 3.3
Program Detail By Housing Type and Heating source
Southern California Gas Company

	Energy Saved and Program Costs			Number of Dwellings		
	2004 (mWh)	2004 (mTherm)	2004 Expenses	2004 (Planned)	2004 (Actual)	2005 (Planned)
Gas Heat - Own						
- Single Family	69.53	545	\$ 14,816,248	11614	23556	14154
- Multi Family	3	20	\$ 541,137	11049	1059	712
- Mobile Home	5	41	\$ 1,104,947	1863	2755	1936
Sub Total Dwellings Served	77	605	\$ 16,462,333	24526	27370	16802
Gas Heat - Rent						
- Single Family	15	119	\$ 3,230,637	15199	5831	4952
- Multi Family	39	304	\$ 8,268,401	14460	21319	18113
- Mobile Home	0	2	\$ 50,354	2438	157	133
Sub Total Dwellings Served	54	425	\$ 11,549,392	32097	27307	23198
Electric Heat - Own						
- Single Family						
- Multi Family						
- Mobile Home						
Sub Total Dwellings Served						
Electric Heat - Rent						
- Single Family						
- Multi Family						
- Mobile Home						
Sub Total Dwellings Served						
Total Dwellings Served	131	1030	\$ 28,011,725	56623	54677	40000

Table TA 3.4
Program Detail by Measure - Southern California Gas Company

	Energy Saved and Program Costs			Number of Dwellings Served
	2004			2004
	mWh	mTherm	Expenses	Actual Dwellings Served
Plumbing				
- Repair - Gas	0	76	\$ 1,030,560	3423
- Replacement - Gas	0	135	\$ 5,389,762	3735
Appliances				
- Cover Plates/Gaskets	0	8	\$ 259,800	38217
- Evaporative Cooler/Air Cond. Covers - SF	0	3	\$ 93,169	1643
- Evaporative Cooler/Air Cond. Covers - MF	0	1	\$ 65,229	2190
Weatherization				
- Attic Insulation - SF	0	35	\$ 845,082	1441
- Attic Insulation - MF	0	9	\$ 249,657	543
- Water Heater Blanket - SF	0	44	\$ 149,847	3970
- Water Heater Blanket - MF	0	15	\$ 62,214	1639
- Low Flow Showerhead - SF	0	183	\$ 411,417	22638
- Low Flow Showerhead - MF	0	148	\$ 294,040	20609
- Door Weatherstripping - SF	0	60	\$ 3,018,419	23811
- Door Weatherstripping - MF	0	23	\$ 1,727,682	21527
- Caulking - SF	0	3	\$ 14,866	1217
- Caulking - MF	0	1	\$ 4,984	768
- Minor Home Repairs - SF	0	111	\$ 4,726,580	22431
- Minor Home Repairs - MF	0	35	\$ 3,023,567	19926
Water Conservation				
- Water Heater Pipe Wrap - SF	0	1	\$ 2,857	197
- Water Heater Pipe Wrap - MF	0	0	\$ 609	42
- Faucet Aerators - SF	0	82	\$ 233,336	23453
- Faucet Aerators - MF	0	55	\$ 191,683	21296
Miscellaneous Measures (Weatherization -- Electric)	131	0	\$ -	0
- Duct Sealing and Repair - SF	0	0	\$ -	0
- Duct Sealing and Repair - MF	0	0	\$ -	0
- Water Heater Repair - Gas - SF	0	0	\$ 52,501	402
- Water Heater Repair - Gas - MF	0	0	\$ 1,080	8
- Water Heater Replacement - Gas - SF	0	1	\$ 19,022	29
- Water Heater Replacement - Gas - MF	0	0	\$ 670	1
Energy Education				
- Outreach & Assessment	0	0	\$ 3,382,674	47079

Table TA 3.5
Program Installation
Program Year: 2004
Southern California Gas Company

	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
Weatherization Dwellings	Each	1987264	35464	\$ 15,962,483	784177	11615	\$ 5,555,627	2771441	47079	\$ 21,518,110	\$ 8	\$ 457
Furnaces												
Repair - Gas	Each	2240	2240	\$ 707,907	1183	1183	\$ 322,653	3423	3423	\$ 1,030,560	\$ 301	\$ 301
Replacement - Gas	Each	2807	2807	\$ 4,025,286	928	928	\$ 1,364,476	3735	3735	\$ 5,389,762	\$ 1,443	\$ 1,443
Infiltration & Space Conditioning												
- Ceiling Insulation	Sq. Ft.	1402823	1467	\$ 790,611	548597	517	\$ 304,128	1951420	1984	\$ 1,094,739	\$ 0.56	\$ 552
- Caulking	Linear Ft.	41385	1057	\$ 12,415	24789	928	\$ 7,435	66174	1985	\$ 19,850	\$ 0.30	\$ 10
- Weather Stripping	Each	107623	33797	\$ 3,482,666	37543	11541	\$ 1,263,436	145166	45338	\$ 4,746,102	\$ 32.69	\$ 105
- Cover Plates/Gaskets	Each	70180	26909	\$ 183,143	37289	11308	\$ 76,657	107449	38217	\$ 259,800	\$ 2.42	\$ 7
- Evaporative Cooler/Air Cond. Covers	Each	972	697	\$ 27,460	4635	3136	\$ 130,938	5607	3833	\$ 158,398	\$ 28.25	\$ 41
- Duct Sealing and Repair	Each											
- Attic Ventilation	Home											
- Auto Sweep	Each											
- Door Replacement	Each											
- Door Threshold	Each											
- Glass Replacement	Sq. Ft.											
- Jamb Replacement	Each											
Water Heating Savings												
- Water Heater Blanket	Each	4717	4694	\$ 177,598	919	915	\$ 34,483	5636	5609	\$ 212,061	\$ 38	\$ 38
- Low Flow Showerhead	Each	39393	32453	\$ 533,328	13489	10794	\$ 172,129	52882	43247	\$ 705,457	\$ 13	\$ 16
- Water Heater Pipe Wrap	Home	329	217	\$ 3,147	48	22	\$ 319	377	239	\$ 3,466	\$ 9	\$ 15
- Faucet Aerators	Each	62416	33557	\$ 311,916	22627	11192	\$ 113,103	85043	44749	\$ 425,019	\$ 5	\$ 9
- Water Heater Repair	Each	124	124	\$ 14,971	286	286	\$ 38,610	410	410	\$ 53,581	\$ 131	\$ 131
- Water Heater Replacement	Each	27	27	\$ 18,202	3	3	\$ 1,490	30	30	\$ 19,692	\$ 656	\$ 656
Minor Home Repairs (other than above)	Home	120130	27854	\$ 5,795,993	48615	10018	\$ 1,904,093	168745	37872	\$ 7,700,085	\$ 46	\$ 203
Miscellaneous Measures	Home	3413	3386	\$ 29,641	1133	1099	\$ 20,421	4546	4485	\$ 50,062	\$ 11	\$ 11
Evaporative Coolers	Each	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -	\$ -
Refrigerators	Each	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -	\$ -
Compact Fluorescents (inc. porchlights)	Each	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -	\$ -
Porchlights (fixture replacement)	Each	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -	\$ -
Outreach/Education/Administration	Home	35464	35464	\$ 3,540,226	11615	11615	\$ 1,158,408	47079	47079	\$ 4,698,633.68	\$ 100	\$ 100

**TABLE TA 3.6
PERCENTAGE OF DWELLINGS SERVED BY CONTRACTOR CLASSIFICATION
2004**

Southern California Gas

Program	Contractor Classification	Vendor	% Dwellings Served	WMDVBE Certified (Yes or No)
LIEE* (Weatherization)	CBO Participants	Contractor A	1.59%	No
		Contractor B	3.24%	No
		Contractor C	21.21%	Yes
		Contractor D	5.56%	No
		Contractor E	0.18%	No
		Contractor F	1.11%	No
		Contractor G	0.59%	No
		Contractor H	5.91%	No
		Contractor I	2.18%	No
		Contractor J	2.78%	No
		Contractor K	21.91%	Yes
		Contractor L	3.16%	No
		Contractor M	4.43%	No
		Contractor N	1.49%	Yes
		Subtotal	75.34%	
	Non-CBO Participants	Contractor O	24.67%	Yes
		Subtotal	24.67%	
Furnace Work	CBO Participants	Contractor B	1.19%	No
		Contractor C	21.12%	Yes
		Contractor D	4.50%	No
		Contractor E	0.06%	No
		Contractor I	1.10%	No
		Contractor J	1.41%	No
		Contractor Y	36.92%	Yes
		Contractor L	0.78%	No
		Contractor M	3.30%	No
		Contractor N	0.03%	Yes
		Contractor II	0.10%	Yes
		Subtotal	70.51%	
	Non-CBO Participants	Contractor P	0.87%	Yes
		Contractor Q	1.02%	Yes
		Contractor R	4.86%	No
		Contractor T	0.50%	No
		Contractor U	6.19%	No
		Contractor W	0.64%	No
		Contractor Z	4.16%	No
		Contractor AA	0.25%	No
		Contractor CC	0.13%	No
		Contractor JJ	10.87%	Yes
		Subtotal	29.49%	
Water Heater Replacement	CBO Participants	Contractor Y	6.67%	Yes
		Contractor EE	3.33%	No
		Contractor FF	6.67%	No
		Contractor HH	10.00%	No
		Contractor KK	63.33%	Yes
		Subtotal	90.00%	
	Non-CBO Participants	Contractor JJ	10.00%	Yes
		Subtotal	10.00%	
Education	CBO Participants			

TABLE TA 3.7
LIFE CYCLE BILL SAVINGS
 Southern California Gas Company
 2004

Measure Description	Number Installed		Per Measure	Per Measure	EUL	Total Measure Life Cycle Bill Savings
	AC	Gas Heat				
Energy Efficiency Measures						
Attic Insulation MF	-	543	0.0	17.0	25	\$ 111,381
Attic Insulation SF	-	1,441	0.0	24.4	25	\$ 425,229
Caulking MF	307	768	1.0	0.9	5	\$ 2,649
Caulking MH	88	221	2.6	0.9	5	\$ 849
Caulking SF	398	996	2.5	2.3	5	\$ 9,060
Cover Plate / Gaskets MF	-	17,853	0.0	0.2	15	\$ 23,816
Cover Plate / Gaskets MH	-	2,294	0.0	0.2	15	\$ 4,896
Cover Plate / Gaskets SF	-	18,070	0.0	0.2	15	\$ 38,568
Door Weatherstripping MF	8,611	21,527	1.0	1.1	5	\$ 90,212
Door Weatherstripping MH	893	2,232	1.8	1.3	5	\$ 11,907
Door Weatherstripping SF	8,632	21,579	2.6	2.6	5	\$ 219,933
Duct Sealing and Repair MF	-	-	0.0	0.0	25	\$ -
Duct Sealing and Repair MH	-	-	0.0	0.0	25	\$ -
Duct Sealing and Repair SF	-	-	0.0	0.0	25	\$ -
Evaporative Cooler/Air Cond. Covers MF	-	2,190	0.0	0.4	3	\$ 2,267
Evaporative Cooler/Air Cond. Covers MH	-	300	0.0	0.9	3	\$ 611
Evaporative Cooler/Air Cond. Covers SF	-	1,343	0.0	2.2	3	\$ 6,970
Faucet Aerators MF	-	21,296	0.0	2.6	5	\$ 205,393
Faucet Aerators MH	-	2,306	0.0	2.6	5	\$ 22,241
Faucet Aerators SF	-	21,147	0.0	3.6	5	\$ 282,401
Furnace Repair MF	-	118	0.0	11.0	10	\$ 8,566
Furnace Repair MH	-	183	0.0	22.1	10	\$ 26,698
Furnace Repair SF	-	3,122	0.0	22.5	10	\$ 465,636
Furnace Replacement MF	-	94	0.0	36.9	22	\$ 39,124
Furnace Replacement MH	-	279	0.0	35.1	22	\$ 110,320
Furnace Replacement SF	-	3,362	0.0	36.2	22	\$ 1,371,303
Low Flow Showerhead MF	-	20,609	0.0	7.2	10	\$ 981,711
Low Flow Showerhead MH	-	2,163	0.0	7.2	10	\$ 103,035
Low Flow Showerhead SF	-	20,475	0.0	8.2	10	\$ 1,110,790
Minor Home Repairs MF	7,970	19,926	6.3	1.8	10	\$ 275,374
Minor Home Repairs MH	494	1,236	19.7	2.3	10	\$ 27,027
Minor Home Repairs SF	8,478	21,195	4.5	5.1	10	\$ 747,138
Miscellaneous Measures NA						
Water Heater Blanket MF	-	1,639	0.0	9.2	5	\$ 55,935
Water Heater Blanket MH	-	207	0.0	9.2	5	\$ 7,064
Water Heater Blanket SF	-	3,763	0.0	11.3	5	\$ 157,735
Water Heater Pipe Wrap MF	-	42	0.0	3.6	15	\$ 1,345
Water Heater Pipe Wrap MH	-	66	0.0	3.6	15	\$ 2,113
Water Heater Pipe Wrap SF	-	131	0.0	4.6	15	\$ 5,359
Water Heater Replacement MF	-	1	0.0	9.5	13	\$ 76
Water Heater Replacement MH	-	6	0.0	19.0	13	\$ 918
Water Heater Replacement SF	-	23	0.0	19.0	13	\$ 3,517
Total Bill Savings for All Measures in Program Year						\$ 6,955,649
Total Number of Homes Served by the Program during Program Year						54,677
Life Cycle Bill Savings Per Home						\$ 127.21

TABLE TA 3.8
ENERGY RATES USED FOR BILL SAVINGS CALCULATIONS
Southern California Gas Company

Year	\$/kWh	\$/Therm
2004	0.8160	0.1016
2005	1.5931	0.1983
2006	2.3333	0.2904
2007	3.0382	0.3781
2008	3.7095	0.4617
2009	4.3489	0.5412
2010	4.9578	0.6170
2011	5.5377	0.6892
2012	6.0900	0.7579
2013	6.6160	0.8234
2014	7.1169	0.8857
2015	7.5940	0.9451
2016	8.0484	1.0017
2017	8.4812	1.0555
2018	8.8933	1.1068
2019	9.2858	1.1557
2020	9.6596	1.2022
2021	10.0156	1.2465
2022	10.3547	1.2887
2023	10.6776	1.3289
2024	10.9852	1.3672
2025	11.2781	1.4036
2026	11.5570	1.4383
2027	11.8227	1.4714
2028	12.0757	1.5029

TABLE TA 3.9
BILL SAVINGS
Southern California Gas Company

Program Year	Program Costs	Program Lifecycle Bill Savings	Program Bill Savings/ Cost Ratio	Per Home Average Lifecycle Bill Savings
2002	\$ 30,666,410	\$ 8,628,899	0.28	\$ 182
2003	\$ 33,998,942	\$ 10,342,708	0.30	\$ 181
2004	\$ 32,595,808	\$ 6,955,642	0.21	\$ 127