
2006

Energy Efficiency Annual Report

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2005 Results

May 2006

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Executive Summary

Southern California Edison Company's (SCE) 2004-2005 program results represent the latest accomplishments in SCE's nationally recognized leadership and track record of success in energy efficiency through continued refinement of program offerings and the development of new outreach channels to customers. In 2005, SCE delivered significant cost-effective resource benefits to ratepayers and the state, helping to assure a stable and reliable supply of electricity in California. SCE's 2005 energy efficiency program results helped customers save money, establish competitive advantage through efficiency in the California and world economies, and live more comfortably. The 2005 results from

SCE's 2004-2005 energy efficiency programs created considerable ongoing resource benefits to all ratepayers by providing over 1,372 million kilowatt-hours (kWh) of net annualized energy savings, 265.2 megawatts (MW) of net peak demand reduction, and over \$813 million of resource benefits.

SCE continued in 2005 to explore and test new approaches for reaching markets that traditionally have been underserved. To ensure that energy savings opportunities were available to Californians who typically have not participated in energy efficiency programs, SCE leveraged resources through community partnerships and innovative targeted outreach techniques to enable many of these customers to

participate in the programs for the first time.

SCE collected funding for its 2005 energy efficiency programs pursuant to California Public Utilities Code sections 381 and 399 *et seq.*, and as directed by the California Public Utilities Commission (Commission) in Decision 03-12-062. The Commission approved the 2005 energy efficiency program activities in Decisions 03-12-060 and 04-02-059. In addition, SCE delivered additional savings through the incremental energy efficiency activities offered during Summer 2005, as approved in Decision 05-05-012.

SCE remains dedicated to working closely with the Commission, state, regional and other stakeholders to ensure

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that California's energy-related public policy goals are attained, and energy efficiency programs achieve reliable and durable energy savings and demand reduction.

This report describes the energy efficiency program activities SCE administered and implemented during calendar year 2005.

2005 Energy Efficiency Results

RESIDENTIAL

SCE's 2005 residential programs provided considerable energy savings and resource benefits while reaching a significant number of hard-to-reach customers. The Commission's current definition of residential hard-to-reach segments includes customers living in rural communities, multifamily residences, moderate-income households and non-English speaking customers. In 2005 SCE's residential energy

efficiency programs recorded over 496 million kWh of energy savings, 102.4 MW of demand reduction and produced over \$261 million in net benefits to SCE ratepayers.

SCE offered customers its highly successful residential energy management services through its Statewide Home Energy Efficiency Surveys program, offering mail-in, in-home, and online energy efficiency surveys. SCE through its residential energy management services programs targeted customers defined by the Commission as hard-to-reach through non-English solicitation packages and outreach events in rural communities. These programs provide energy advice that is suited to the needs of each residential customer. SCE, in 2005, expanded the reach of the online surveys by offering the new statewide Vietnamese online survey.

SCE's Single Family and Multi-Family Energy Efficiency Rebate programs delivered energy savings and resource benefits by accelerating the replacement of existing inefficient equipment and appliances. The programs offered rebates to participating customers for the purchase and installation of whole house fans and ENERGY STAR® qualified central air conditioners, among many other products. Nearly 43% of applications received and paid were from hard-to-reach customers for the Single Family program. Nearly 54% of customers served in the Multi-Family program were hard-to-reach. SCE managed the programs, developed outreach materials and point-of-sale displays, tracked program budgets, commitments and installations, and

ensured that applications adhered to program guidelines. In 2005, the Point of Sale (POS) approach for the appliance portion of the program was expanded beyond programmable thermostats to also include refrigerators, room air conditioners, pool pumps and motors, and whole house fans. In total, the Single Family Energy Efficiency Rebate program achieved over 423 million kWh of annual energy savings and a demand reduction in excess of 90.0 MW, while the Multi-Family Energy Efficiency Rebate program saved an additional 23 million kWh of energy savings and 3.8 MW of peak demand reduction.

SCE in 2005 used bill inserts, bill messages and multi-lingual radio ads and print ads to encourage participation in SCE's Residential Appliance Recycling program. A recycling incentive of

\$35 is offered to customers who turn in working refrigerators and freezers (effective May 6, 2005 freezer incentives increased to \$50) between 14-27 cubic feet and manufactured prior to 1990 (effective May 6, 2005, manufactured age restriction removed) . The Residential Appliance Recycling program recycled more than 69,745 refrigerators and freezers, which resulted in a total annualized energy savings of over 49 million kWh and a demand reduction of 8.5 MW.

NONRESIDENTIAL

SCE continued to produce significant energy savings and resource benefits to commercial, industrial, and agricultural customers through the provision of its nonresidential energy efficiency programs while more fully addressing the needs of its hard-to-reach customers. In 2005, SCE's nonresidential energy

efficiency programs recorded over 569 million kWh of energy savings, 97.8 MW of demand reduction and produced over \$371 million in benefits to SCE ratepayers.

The statewide Building Operators Certification program provided training and certification for operators of medium and large commercial buildings to establish and support a professional credential for building operators in California. Through training such as BOC, buildings in California will run more energy efficiently. SCE marketed the program through direct communications with customers by SCE account managers. In 2005, SCE in coordination with other California investor-owned utilities (IOUs) planned and conducted a Level II training course with an emphasis in equipment

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troubleshooting and maintenance. A total of 152 students were enrolled in this program in 2005.

SCE continued to provide answers to customers' questions, and advice regarding energy efficiency products and services through the statewide Nonresidential Energy Audits program. In 2005, the program completed 4,734 audits for hard-to-reach SCE customers.

The highly successful Pump Test local program performed 4,554 pump tests. Approximately 42% of the tests were for SCE customers previously considered as "non-participants." SCE distributed approximately 200 direct mail applications to "non-participants" to encourage them to take part in the program. SCE achieved these results by strengthening current relationships and cultivating new relationships with

agribusiness, water districts, trade and ethnic associations, vendors, manufacturers, and local and state governments.

The VeSM Advantage Plus² Program (VeSM) develops and implements an innovative energy efficiency program tailored to meet the unique of needs small-to large size manufacturers. SCE contracted with the California Manufacturing Technology Center (CMTC) as its primary implementation partner. At year-end, 24 participants signed up to receive an extensive assessment of their production processes through VeSM.

The Local Small Nonresidential Hard-to-Reach program provided no-cost energy-efficient equipment and information to small (under 100kW) businesses with a focus on the very small business (under

20kW). In past years these customers typically have not participated in SCE's energy efficiency programs. In 2005, SCE recruited two community-based organizations and one faith-based organization to augment the outreach and education services that are provided through the prime contractor. By year-end, 4,287 customers were enrolled and implemented energy efficient lighting and selected HVAC measures.

The Upstream HVAC and Motors Rebate Program provides upstream financial incentives to distributors to stock and sell qualifying high efficiency products. SCE's customers from the smallest to the largest are eligible to receive the incentives. Packaged air conditioning is used by small commercial customers; motors are used by all customer classes.

The Upstream HVAC and Motors Rebate Program achieved a total of 27 million kWh of net annualized energy savings and 10.3 MW of net peak load reductions for businesses in SCE's service area.

The 2005 Express Efficiency program was offered to small and medium nonresidential customers. This highly successful program achieved over 151 million kWh of annualized energy savings and 25.1 MW of demand reduction. Customers classified as hard-to-reach received 36% of the paid incentives for this program.

The Standard Performance Contract (SPC) program continued its success in providing significant energy savings to SCE's nonresidential customers. SCE's aggressive outreach strategy helped SPC program participants achieve over 334

million kWh of annualized energy savings and 50.7 MW of demand reduction. In 2005, the SPC program paid for either prescriptive or calculated measures. Large commercial customers with a demand over 500 kW are eligible for the same prescriptive measures and defined incentive rates available for small customers in the Express Efficiency program. If the customer is installing a customized project that falls outside of the prescriptive list, the incentive is based on the "traditional" calculated approach of kWh saved.

NEW CONSTRUCTION

SCE also continued to produce significant energy savings and resource benefits to commercial, industrial, and agricultural customers through the provision of its new construction energy efficiency programs. In 2005, SCE's new construction energy

efficiency programs recorded nearly 161 million kWh of energy savings, 33.6 MW of demand reduction and produced over \$127 million in benefits to SCE ratepayers.

In 2005, SCE promoted the statewide award-winning California ENERGY STAR® New Homes Programs at industry trade shows and local building industry affiliations throughout the year to a diverse group of building industry professionals. Through these efforts, SCE approved 98 applications for more than 10,300 single-family units and over 20 applications for over 3,300 multifamily units. The 2005 program achieved nearly 13 million kWh of net annualized energy savings and 12.9 MW of demand reduction in SCE's service area. SCE also continued to offer its nationally-recognized new construction program,

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Savings By Design, to nonresidential customers. The program provides energy design education, design assistance, and cash incentives for all project types and sizes that meet eligibility criteria for the program. As part of the offering, Savings by Design offers a whole-building strategy which allows customers to design and build energy efficiency through a more comprehensive approach. In 2005, the Savings By Design program achieved nearly 149 million kWh of annualized energy savings and 20.7 MW of demand reduction in SCE's service area.

CROSSCUTTING

SCE's statewide energy efficiency education and training program provided customers with valuable energy efficiency information in 2005. SCE's Customer Technology Application Center and Agricultural Technology

Application Center continued to serve as venues for customers to participate in workshops and observe product demonstrations and displays featuring the latest energy efficiency technologies.

The Innovative Designs for Energy Efficiency Activities (IDEEA) Program solicits bids for innovative and cost-effective energy efficiency program proposals across all market and customer segments. Winning proposals are those that fill possible gaps in the overall portfolio of programs offered by SCE or offer new practices not incorporated in similar programs in the portfolio. SCE conducted a competitive solicitation for IDEEA program design and implementation contractors in two rounds. As a result, 13 IDEEA component programs were selected for implementation.

Through technology application assessment projects at customer sites or SCE facilities, SCE continued to make significant contributions to the Emerging Technologies Coordination Council (ETCC). The ETCC is a statewide information exchange and coordination effort including investor-owned utilities and the California Energy Commission's (CEC) Public Interest Energy Research (PIER) program. The ETCC developed a new website in 2005, and continues to maintain a database of applications and projects, featuring descriptions of emerging technology projects as well as many of the CEC's PIER projects.

The Codes & Standards programs are information-only programs that promote upgrades and enhancements to various energy efficiency standards

and codes, thereby capturing the benefits for society from California's diverse energy efficiency efforts. During 2005, SCE's technical staff participated in workshops towards the revision of both residential and nonresidential California Title 24 standards and initiated ten Codes and Standards Enhancement studies to investigate promising technologies that could lead to the development of new standards.

SCE's Local Government Initiative educates and informs community leaders, local government planners, building officials, builders, building owners, small business owners, and consumers about the economic benefits of energy efficiency in the areas of residential and nonresidential new construction as well as small business. In 2005 the program focused on re-

enrolling 16 jurisdictions and continued efforts to add jurisdictions in which at least 30% of zip codes are considered hard-to-reach.

IOU PARTNERSHIP PROGRAMS

SCE in 2005 continued to work collaboratively with seven partnerships to leverage energy efficiency improvements into the University of California, California State University, and local government facilities as well as developing new channels for distributing information on energy efficiency opportunities to residential and nonresidential customers. The partnerships are tailored to meet the specific needs of the areas being served and have served as models for expanding outreach opportunities and program delivery to SCE's customers.

In 2005, SCE's partnership energy efficiency programs produced over 32 million kWh of energy savings, 5.5 MW of demand reduction and produced over \$32 million in benefits to SCE ratepayers.

STATEWIDE MARKETING AND OUTREACH

Flex Your Power – Energy Efficiency is a statewide consumer marketing campaign that focuses exclusively on energy efficiency. The goal is to capitalize on the "Flex Your Power" campaign through newspaper, radio and television media targeting English and Asian-speaking communities.

SCE facilitated the statewide coordination between the IOUs and Flex Your Power as the administrator of this statewide program. SCE fulfilled the same role as statewide administrator of the

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Univision Television Energy Efficiency Marketing (U-TEEM) and Runyon Saltzman & Einhorn's (RS&E) "Reach for the Stars" marketing campaigns. U-TEEM is a consumer marketing and outreach program that targets Spanish speaking customers. RS&E's campaign is focused on moderate income customers in rural areas within the state of California.

At the end of December 2005, all three campaigns achieved their goal of raising general awareness of energy efficiency.

NON-IOU PROGRAMS

The non-investor-owned utility programs for which the Commission authorized funding complement the statewide and local programs offered by the utilities. They

generally focus on hard-to-reach sectors such as very small commercial customers, mobile home residents in rural communities, agricultural and industrial customers. These programs recorded over 52 million kWh of annualized energy savings and 14.9 MW of demand reduction.

MARKET ASSESSMENT & EVALUATION AND REGULATORY OVERSIGHT

Market Assessment & Evaluation (MA&E) is the set of activities needed to provide market, program, and product assessment studies and analyses useful to energy efficiency program planners and policy makers. Studies that progressed in 2005 were initiated and funded in 2002, 2003, and 2004. The

completed studies can be downloaded from the CALMAC website at www.calmac.org. SCE, PG&E, and SDG&E each managed some of the various statewide Market Assessment and Evaluation studies. There are three categories of studies: Statewide Overarching Studies, Utility Statewide Program Evaluation Measurement and Verification (EM&V) studies, and local EM&V studies of utility programs that are funded through specific program budgets rather than from MA&E budgets.

SHAREHOLDER PERFORMANCE INCENTIVES

The Commission did not approve a performance incentive mechanism for 2005 energy efficiency programs

Table 1.1
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC

	2005 PGC Budget		2005 PGC Recorded		2005 Procurement Budget		2005 Procurement Recorded		2004-05 PGC Budget		2004-05 PGC Recorded		2004-05 Procurement Budget		2004-05 Procurement Recorded		2004-05 TOTAL Budget		2004-05 TOTAL Recorded	
	1.2	1.2.3	1.2	1.2.3	1.2	1.2.3	1.2	1.2.3	1.2.4	1.2.4	1.2.4	1.2.4	1.2	1.2.4	1.2.4	1.2.4	1.2	1.2.4	1.2.4	1.2.4
Residential	\$ 14,500,000	\$ 14,500,000	\$ 14,500,000	\$ 14,500,000	\$ 38,425,227	\$ 35,446,461	\$ 29,000,000	\$ 28,770,225	\$ 62,300,864	\$ 61,368,392	\$ 59,003,284	\$ 58,000,000	\$ 62,300,864	\$ 61,368,392	\$ 59,003,284	\$ 58,000,000	\$ 91,450,654	\$ 90,368,676	\$ 91,450,654	\$ 90,368,676
Nonresidential	41,000,000	45,392,029	45,392,029	47,254,950	45,761,433	47,254,950	43,301,140	61,368,392	69,722,865	62,499,525	62,499,525	62,499,525	69,722,865	62,499,525	62,499,525	133,224,305	128,867,917	133,224,305	128,867,917	
New Construction	13,400,000	12,399,392	12,399,392	7,821,515	7,821,515	9,015,970	26,800,000	18,955,248	13,543,000	9,639,402	12,918,219	13,543,000	9,639,402	12,918,219	9,639,402	40,343,000	28,594,850	40,343,000	28,594,850	
Crosscutting	8,300,372	8,315,622	8,315,622	6,264,345	6,264,345	12,736,689	14,568,717	16,608,744	12,528,490	14,488,165	14,488,165	12,528,490	14,488,165	14,488,165	29,137,454	27,406,383	29,137,454	27,406,383		
OU Partnership Programs	7,571,581	12,281,154	12,281,154	-	7,571,581	-	15,051,162	16,792,746	-	-	-	15,051,162	16,792,746	-	-	309,150,385	284,635,605	309,150,385	284,635,605	
Total OUI Programs	84,822,673	93,738,683	93,738,683	98,272,520	98,272,520	104,513,070	183,095,193	180,251,754	140,374,775	140,374,775	144,040,630	140,374,775	158,246,039	144,040,630	144,040,630	6,193,914	6,193,914	6,193,914	6,193,914	6,193,914
Statewide Marketing	6,709,753	6,168,118	6,168,118	-	6,709,753	-	13,419,506	11,517,779	-	-	-	13,419,506	11,517,779	-	-	13,419,506	11,517,779	13,419,506	11,517,779	
Non-OUI Programs	14,834,937	20,618,219	20,618,219	-	14,834,937	-	29,620,679	23,320,675	-	-	-	29,620,679	23,320,675	-	-	29,620,679	23,320,675	29,620,679	23,320,675	
Total Non-OUI Programs	21,544,690	26,786,337	26,786,337	-	21,544,690	-	43,040,185	34,838,454	-	-	-	43,040,185	34,838,454	-	-	43,040,185	34,838,454	43,040,185	34,838,454	
Utility Administration of Non-OUI Programs	734,142	291,008	291,008	-	734,142	-	1,468,284	528,500	-	-	-	1,468,284	528,500	-	-	1,468,284	528,500	1,468,284	528,500	
MA&E and Regulatory Oversight	3,096,957	3,096,957	3,096,957	-	3,096,957	-	6,193,914	6,193,914	-	-	-	6,193,914	6,193,914	-	-	6,193,914	6,193,914	6,193,914	6,193,914	
Shareholder Performance Incentives	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Energy Efficiency [14]	103,159,622	117,446,867	117,446,867	98,272,520	98,272,520	104,513,070	208,433,681	227,267,932	207,447,729	183,935,642	144,040,630	158,246,039	144,040,630	144,040,630	144,040,630	359,892,766	325,982,737	359,892,766	325,982,737	

[1] Amounts reflect funds as approved in D.03-12-060 and D.04-02-059, including fund shifts.
 [2] Amounts reflect funds approved for incremental energy efficiency activities for Summer 2005 in D.05-05-012, including fund shifts during 2005.
 [3] All Recorded amounts include payments in 2004-2005 and amounts committed to projects in 2005. Committed amounts may not be fully realized.
 [4] All Recorded amounts include payments in 2004-2005 and amounts committed to projects in 2004-2005. Committed amounts may not be fully realized.
 [5] SCE's portion of the Statewide Marketing and Outreach Budget (D.03-12-060).
 [6] SCE's portion of the Statewide Marketing and Outreach Expenditures.
 [7] Total amount expended for Non-OUI programs in SCE's service territory including amounts committed to projects. Committed amounts may not be fully realized.
 [8] Total amount expended for Non-OUI programs in SCE's service territory including amounts committed to projects. Committed amounts may not be fully realized.
 [9] Includes only MA&E related to Statewide PGC-funded OUI Programs.
 [10] The Commission authorized no Shareholder Performance Awards in 2004 or 2005.
 [11] Additional Penalties and Benefits (P&B) costs not included in any funding tables.

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Table 1.2a
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SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC

	2005 PGC Net Annualized Energy Savings (kWh)	[1,2]	2005 PGC Lifecycle Energy Savings (kWh)	2005 Procurement Net Annualized Energy Savings (kWh)	[1,2]	2005 Procurement Lifecycle Energy Savings (kWh)	2005 TOTAL Net Annualized Energy Savings (kWh)	[1,2]	2005 TOTAL Procurement Lifecycle Energy Savings (kWh)	2005 TOTAL Net Annualized Energy Savings (kWh)	[1,2]	2005 TOTAL Lifecycle Energy Savings (kWh)
Residential	86,895,287		810,276,885	409,162,545		4,151,820,345	496,057,832		4,962,097,230	4,962,097,230		4,962,097,230
Nonresidential	246,841,731		3,386,821,427	322,923,646		4,424,991,540	569,765,377		7,811,812,966	7,811,812,966		7,811,812,966
New Construction	102,595,967		1,867,816,744	58,335,985		1,079,769,391	160,931,953		2,947,586,134	2,947,586,134		2,947,586,134
Crosscutting	-		-	60,510,041		665,610,449	60,510,041		665,610,449	665,610,449		665,610,449
IOU Partnership Programs	32,708,916		314,414,655	-		-	32,708,916		314,414,655	314,414,655		314,414,655
Total IOU Programs	469,041,902		6,379,329,710	850,932,217		10,322,191,724	1,319,974,119		16,701,521,434	16,701,521,434		16,701,521,434
Non-IOU Programs	52,224,682		615,691,110	-		-	52,224,682		615,691,110	615,691,110		615,691,110
Total Energy Efficiency	521,266,584		6,995,020,820	850,932,217		10,322,191,724	1,372,198,801		17,317,212,544	17,317,212,544		17,317,212,544

[1] Net Savings reflect Commission-adopted net-to-gross ratios.

[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

Table 1.2b
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SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC

	2004-05 PCC Net Annualized Energy Savings (kWh)	[1,2]	2004-05 PGC Lifecycle Energy Savings (kWh)	[1,2]	2004-05 Procurement Net Annualized Energy Savings (kWh)	[1,2]	2004-05 Procurement Lifecycle Energy Savings (kWh)	[1,2]	2004-05 TOTAL Net Annualized Energy Savings (kWh)	[1,2]	2004-05 TOTAL Lifecycle Energy Savings (kWh)	[1,2]
Residential	174,486,596		1,638,130,149		746,504,423		7,574,867,951		920,991,019		9,212,998,100	
Nonresidential	387,169,406		5,312,204,032		526,021,397		7,233,725,257		913,190,803		12,545,929,289	
New Construction	227,765,008		4,146,597,138		59,157,523		1,094,985,912		286,922,531		5,241,583,050	
Crosscutting	-		-		60,510,041		665,610,449		60,510,041		665,610,449	
IOU Partnership Programs	38,773,433		346,134,938		-		-		38,773,433		346,134,938	
Total IOU Programs	828,194,443		11,443,066,257		1,392,193,383		16,569,189,570		2,220,387,826		28,012,285,827	
Non-IOU Programs	76,469,981		932,250,062		-		-		76,469,981		932,250,062	
Total Energy Efficiency	<u>904,664,425</u>		<u>12,375,316,319</u>		<u>1,392,193,383</u>		<u>16,569,189,570</u>		<u>2,296,857,808</u>		<u>28,944,505,888</u>	

[1] Net Savings reflect Commission-adopted net-to-gross ratios.

[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

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Table 1.2c
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC

	2005 PGC Net Annualized Capacity Savings (MW) [1,2]	2005 Procurement Net Annualized Capacity Savings (MW) [1,2]	2005 TOTAL Net Annualized Capacity Savings (MW) [1,2]	2004-05 PGC Net Annualized Capacity Savings (MW) [1,2]	2004-05 Procurement Net Annualized Capacity Savings (MW) [1,2]	2004-05 TOTAL Net Annualized Capacity Savings (MW) [1,2]
Residential	19.00	83.37	102.37	38.41	146.43	184.84
Nonresidential	41.30	56.46	97.75	68.71	184.93	253.64
New Construction	19.83	13.79	33.62	37.23	14.68	51.91
Crosscutting	-	11.06	11.06	-	11.06	11.06
IOU Partnership Programs	5.46	-	5.46	7.16	-	7.16
Total IOU Programs	85.59	164.67	250.26	151.51	357.09	508.61
Non-IOU Programs	14.91	-	14.91	20.83	-	20.83
Total Energy Efficiency	100.50	164.67	265.17	172.35	357.09	529.44

[1] Net Savings reflect Commission-adopted net-to-gross ratios.
[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

Table 1.3a
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SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
(Benefit-Cost Ratios)

	2005 PGC Program Administration		2005 PGC Total Resource		2005 PGC Levelized Cost (cents/kWh)		2005 Procurement Program Administration		2005 Procurement Total Resource		2005 Procurement Levelized Cost (cents/kWh)		2005 PGC & Procurement Total Resource	
	Cost Test	[1,2,3]	Cost Test	[1,2,3]	Cost Test	[1,2,3]	Cost Test	[1,2,3]	Cost Test	[1,2,3]	Cost Test	[1,2,3]	Cost Test	[1,2,3]
Residential	2.81		2.60		3.02		6.15		4.04		1.96		3.69	
Nonresidential	3.50		4.02		2.01		4.45		3.97		2.03		3.99	
New Construction	6.16		2.96		2.86		5.17		2.66		3.19		2.85	
Crosscutting	-		-		-		2.81		2.26		2.96		1.47	
IOU Partnership Programs	1.34		1.22		6.29		-		-		-		1.22	
Total IOU Programs	3.17		2.85		2.88		4.52		3.64		2.02		3.30	
Non-IOU Programs [4]	2.19		1.82		4.60		-		-		-		1.82	
Total Energy Efficiency	<u>3.04</u>		<u>2.70</u>		<u>7.12</u>		<u>4.52</u>		<u>3.64</u>		<u>2.02</u>		<u>3.20</u>	

[1] Includes all costs from Tables TA 2.1, TA 3.1, TA 4.1, TA 5.1, TA 8.1 - Program Cost Estimates Used for Cost-Effectiveness.
 [2] Includes program-specific MA&E costs. Includes costs from all programs and benefits from only programs with energy savings.
 [3] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.
 [4] Non-IOU cost-effectiveness inputs as reflected in the December 2005 non-IOU program monthly report (EEGA) workbook.

Executive Summary

Table 1.3b
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
(Benefit-Cost Ratios)

	2004-05 PGC Program Administration		2004-05 PGC Total Resource		2004-05 PGC Levelized Cost (cents/kWh)		2004-05 Program Administration Cost Test		2004-05 Procurement Total Resource		2004-05 Procurement Levelized Cost (cents/kWh)		2004-05 PGC & Procurement Total Resource	
	[1,2]		[1,2]		[1,2]		[1,2]		[1,2]		[1,2]		[1,2]	
Residential	2.94		2.92		2.81		6.74		4.23		1.87		3.95	
Nonresidential	3.88		3.63		2.23		5.08		3.82		2.11		3.74	
New Construction	7.53		3.08		2.75		3.54		2.60		3.29		2.61	
Crosscutting	-		-		-		2.78		2.25		2.99		1.16	
IOU Partnership Programs	1.10		1.02		8.55		-		-		-		1.02	
Total IOU Programs	3.57		2.81		3.05		5.39		3.78		1.91		3.26	
Non-IOU Programs [3]	2.01		1.68		5.00		-		-		-		1.68	
Total Energy Efficiency	3.36		2.67		7.74		5.39		3.78		1.91		3.16	

[1] Includes program-specific IMA&E costs. Includes costs from all programs and benefits from only programs with energy savings.
 [2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.
 [3] Non-IOU cost-effectiveness inputs as reflected in the December 2005 non-IOU program monthly report (EEGA) workbook.

Table 1.4
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
(Net Benefits)

	2005 PGC (Recorded) TRC [1,2,3]	2005 Procurement (Recorded) TRC [1,2,3]	2005 PGC & Procurement (Recorded) TRC [1,2,3]	2004-05 PGC (Recorded) TRC [3]	2004-05 Procurement (Recorded) TRC [3]	2004-05 PGC & Procurement (Recorded) TRC [3]
Residential	\$ 26,793,541	\$ 163,857,061	\$ 190,650,602	\$ 56,313,507	\$ 303,502,481	\$ 359,815,988
Nonresidential	121,105,373	157,390,440	278,495,813	179,261,059	253,440,078	432,701,136
New Construction	53,719,597	29,069,869	82,789,465	121,037,952	29,025,372	150,063,325
Crosscutting	(8,515,859)	20,049,675	11,533,817	(14,888,637)	19,928,146	5,039,509
IOU Partnership Programs	2,954,922	-	2,954,922	395,905	-	395,905
Total IOU Programs	196,057,574	370,367,045	566,424,619	342,119,786	605,896,077	948,015,863
Non-IOU Programs [4]	14,239,016	-	14,239,016	18,916,735	-	18,916,735
Total Energy Efficiency	\$ 210,296,590	\$ 370,367,045	\$ 580,663,635	\$ 361,036,521	\$ 605,896,077	\$ 966,932,598

[1] Includes all costs from Tables TA 2.1, TA 3.1, TA 4.1, TA 5.1, TA 8.1 - Program Cost Estimates Used for Cost-Effectiveness.
 [2] Includes program-specific MA&E costs. Includes costs from all programs and benefits from only programs with energy savings.
 [3] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.
 [4] Non-IOU cost-effectiveness inputs as reflected in the December 2005 non-IOU program monthly report (EEGA) workbook.

Residential Energy Management Services

HOME ENERGY EFFICIENCY SURVEY PROGRAM

Program Description

The Statewide Home Energy Efficiency Survey (HEES) program is designed to increase consumer awareness of energy efficiency opportunities, encourage adoption of energy-efficient practices and induce a permanent change in attitudes and actions toward energy-efficient products and services. SCE's comprehensive and multi-lingual program offers mail-in, on-line, in-home and telephone energy surveys to customers with energy efficiency information to help them reduce their energy bills. The surveys are available in multiple languages and promote other energy efficiency products and services such as residential rebates and incentives, and demand response

programs such as Summer Discount and Summer Saving Plans. HEES also supports the federal government's ENERGY STAR® program by promoting ENERGY STAR® qualified appliances, equipment and lighting products. Marketing and promotion strategies to increase customer participation include direct mail, e-mail blasts and on-line banner ads, and Internet advertising. Other strategies include outreach through local governments, SCE's Energy Efficiency Mobile Education Unit (MEU), phone center and ethnic and trade associations and community organizations.

MAIL-IN SURVEY

The Mail-In Survey is a paper-based, self-completed questionnaire by the customer. It provides an easy way for the customer to walk around their home and "score" their energy consumption. The survey contains specific questions about the types of appliances and equipment, the customer's usage patterns and the structure of the home. It is completed by the customer and then mailed to SCE for processing. The questionnaire is processed and a customized energy report is mailed to the customer. The report includes computer-generated graphs depicting the customer's annual energy usage and how much various appliances and

Residential Program Area

equipment cost to operate. The energy report also identifies opportunities for specific energy and cost-saving tips, along with estimates of the annual savings that could result if the energy-efficient practices are adopted. Customers also receive educational materials on other energy efficiency programs and services.

The Mail-In Survey is available in English, Spanish, Chinese, Vietnamese and Korean.

ON-LINE SURVEY

The On-Line Survey, accessible through www.sce.com, provides customers with 24-hour access to a secured web site that gives instant energy efficiency recommendations based on the responses to the on-line questionnaire. The survey provides a personalized on-line energy report that includes specific energy and cost-saving

recommendations and information on available rebates and incentives to encourage adoption of energy efficiency measures identified through the survey.

Customers may choose the 5- or 15-minute version surveys. The Energy 15 Survey provides more detailed and highly customized reports, and requires the customer's service account number. The Energy 5, "fast track" survey, allows customers to receive personalized energy-saving information within five minutes without the use of their account number.

Web postings of the On-Line Survey are available in English, Spanish, Chinese and Vietnamese on SCE's web site.

IN-HOME SURVEY

The In-Home Survey program provides residential customers who do not respond to the on-line or mail-in survey options, with a more

personalized, face-to-face energy survey. The In-Home Survey has the advantage of being able to respond to the needs of certain hard-to-reach (HTR) customer groups by providing an alternative delivery channel.

Upon the customer's request, an appointment is scheduled, and a trained energy auditor is sent to the customer's home to assess energy usage and to provide energy-saving recommendations. Energy auditors are bilingual and can conduct in-home surveys in Spanish, if requested.

Customers are provided with two compact fluorescent lights (CFLs) to help save energy immediately, and information on energy efficiency products and services, rebate programs and other energy-related information to encourage the adoption of energy

efficiency measures identified in the in-home survey.

TELEPHONE SURVEY

Telephone Energy Surveys are offered to customers who do not have time to participate in an In-Home Survey. The trained energy representative conducts the survey over the phone and provides the customer with energy saving recommendations. The results of the survey, along with program literature and referrals to other energy efficiency programs and services, are mailed to the customer.

2005 Results and Achievements

MAIL-IN SURVEY

In 2005, 20,892 Mail-In Surveys were completed. Of these surveys, 1,273 were completed in Spanish; 2,116 in Chinese; 2,593 in Vietnamese and 1,080 were completed in Korean.

During 2005, 150,779 solicitation survey

packages were mailed to HTR customers, including 10,004 Spanish; 9,005 Chinese; and 6,005 in Vietnamese language packages. SCE also developed a Korean survey and mailed 6,004 packages in July 2005.

SCE collaborated with community-based organizations (CBOs) to target Asian communities. This pilot program resulted in 761 Chinese and Vietnamese surveys completed through participating Asian CBOs.

SCE also successfully piloted the LivingWise® program which targets 6th grade students in SCE service territory. The students' parents completed and submitted the mail-in surveys.

ON-LINE SURVEY

In 2005, 12,115 On-Line Surveys were completed. SCE launched a new "Target Gift Card" on-line marketing

campaign in the second quarter of 2005 to increase customer participation. The campaign offered SCE customers a complimentary \$5 "Target Gift Card" for the completion of an On-Line Survey. The on-line marketing campaign, in multiple languages, included about 820,000 e-mail blasts and 7.7 million on-line banners on local and regional web sites.

During the fourth quarter, SCE developed and launched the new Vietnamese On-Line Survey. The launch included a Vietnamese "fast track" survey component for quick results. With the addition of this new interactive Vietnamese survey, the program expanded its HTR outreach efforts to include a larger segment of California's diverse population.

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IN-HOME AND TELEPHONE SURVEY

SCE achieved a total of 4,716 in-home and telephone surveys; 3,673 of which were performed in HTR customer segments. Of those 4,716 completed surveys, 954 were conducted in Spanish.

SCE continued to promote equity and remove market barriers by enhancing access to energy efficiency programs to Spanish-speaking customers.

SCE continued the coordinated efforts with Southern California Gas Company to conduct in-home surveys for both electric and gas customers. This joint effort resulted in 1,122 surveys conducted in 2005.

Residential Energy Efficiency Incentives

SINGLE-FAMILY ENERGY EFFICIENCY REBATES PROGRAM

Single-Family Energy Efficiency Rebates (SFEER) program is a statewide program which provides rebates on various home improvement products, heating and cooling equipment, appliances and residential pool equipment.

Rebates were offered for the following energy-efficient equipment:

- Energy Efficient Ducted Evaporative Coolers
- ENERGY STAR® Qualified Programmable Thermostats
- Energy-Efficient Central Air Conditioners
- Energy-Efficient Central Heat Pumps
- ENERGY STAR® Qualified Room Air Conditioners

- ENERGY STAR® Qualified Refrigerators
- Whole House Fans
- Pool Pump and Motor Systems
- Electric Water Heaters

This program also includes customer information and education for residential customers, manufacturers, retailers, and distributors.

The statewide Residential Lighting program also operates under the umbrella of the SFEER. The lighting program covers all residential lighting measures. It provides a point-of-sale (POS) discount to customers who purchase qualifying fluorescent ENERGY STAR® lighting products at retail outlets. The program has crosscutting attributes in that some

lighting products go to non-residential facilities by virtue of the open market nature of the retail outlet approach.

Customers receive the discounts either through the program's manufacturer component, or its retailer component. In the manufacturer component, SCE provides manufacturers with incentive allocations, which allow manufacturers to pass wholesale buy-down discounts on to the retailers, who pass discounts on to customers for these products. SCE later reimburses manufacturers for the discounts they provided. More retail channels can be developed and opened with this approach because the manufacturers' reach

Residential Program Area

is much longer than other market actors such as retailers.

In the retailer component, SCE provides incentive allocations and subsequent reimbursements directly to large statewide big-box retail chains instead of the manufacturers.

The retailer component is for energy-efficient lighting products not bearing the manufacturer buy-down discount. Incentive discounts in this retailer component are provided in the same amounts as in the manufacturer component. The retailer has the option of using either the retailer or manufacturer component for a particular product.

Through SCE's efforts with lighting manufacturers and retailers to buy down the cost of energy-efficient lighting products, customers received a \$1 to \$2.50

discount per unit off the purchase price of a CFL and a \$5 to \$10 discount per unit for hardwired indoor or outdoor lighting fixture, as well as a \$10 discount for torchiere floor lamps. All qualifying products were ENERGY STAR® labeled.

The 14 manufacturers who participated in the Upstream Residential Lighting program were: Broada Lighting; Buffalo Lite; Dura Lamp; Feit Electric Company; General Electric; Greenlite Corporation; Lights of America; Maxlite; Osram Sylvania; Sunpark Electronics Corp.; Sunrise Lighting, Inc.; Technical Consumer Products Inc.; U-Lighting America and USPAR Enterprises Inc.

The POS approach for the appliance portion of the program was greatly expanded in 2005. In addition to programmable thermostats, SCE

offered four more major products: ENERGY STAR® labeled refrigerators, ENERGY STAR® labeled room air conditioners, pool pumps and motors, and whole house fans. Several statewide retailers participated: Costco; Lowe's; Home Depot; and Leslie's Poolmart, Inc. Their participation and ensuing results reinforced our belief that this method of program delivery is valid. SCE achieved an 870% increase in room air conditioners, 39% increase in central air conditioners, a 32% increase in pool pumps, a 68% increase in whole house fans and 8% increase in refrigerators. All retailers who participated with the lighting measures did so under the manufacturer component only although Costco, Sam's Club, Wal-Mart, Orchard Supply, Lowe's, and Home Depot were also offered the option

of participating under the retailer POS component.

2005 Results and Achievements

In 2005, the SFEER program encouraged residential customers to purchase and install over 38,190 room air conditioners; 7,990 pool pumps and motor systems; 6,930 whole house fans; 40,964 ENERGY STAR®-qualified refrigerators; 14,420 ENERGY STAR® qualified central air conditioners; and 26,085 ENERGY STAR®-qualified programmable thermostats, among many other products. The Upstream Lighting element resulted in the sale of 5,560,000 energy-saving lighting products through 190 retailers or chains. SCE also continued its successful POS programmable thermostat rebate in coordination with three major retailers. Overall, the program achieved 423,280 MWh of net

annualized energy savings and net demand reduction of 90.0 MW.

As a result of high customer demand, SCE achieved full subscription for the SFEER program and succeeded in having additional funding authorized to keep the program open throughout 2005.

In the Lighting element of the program, SCE was assigned goals to expend at least 15% of the PGC-funded incentives to retailers in geographic HTR areas and 10% of the incentives to food and drug stores. By year-end 2005, \$817,010 or 60% of the total 2005 incentives was paid to retailers in geographic HTR areas and \$573,788 or 42% was paid to grocery or drug retailers.

CUSTOMER INFORMATION AND EDUCATION

Because of the success experienced in 2004, SCE continued a series of targeted

mailings and bill inserts to customers to encourage the purchase and installation of qualifying products, in particular, pool pump and motor systems, electric water heaters and whole house fans.

Over 43% of the applications received and paid were from HTR customers. This surpasses the goal of 34%.

Energy efficiency information was also disseminated to customers through SCE's Mobile Education Unit (MEU). The MEU is a 45-foot converted recreational vehicle equipped with energy-efficient household products and computerized educational tools designed to increase consumer awareness of the benefits of energy efficiency and promote SCE's rebate and incentive programs. Throughout 2005, the MEU was employed at numerous

Residential Program Area

community events and home shows.

MARKETING AND OUTREACH

A one-page rebate application/brochure and POS displays were used for the pool pump and motor measures. These items were distributed to approximately 250 pool retailers in SCE's service area.

Additionally, for 2005, a major retailer, Leslie's Poolmart, signed an agreement to offer POS rebates. Customers could now receive their rebate without having to fill out an application or wait for a rebate check. POS materials promoting ENERGY STAR® room air conditioners and ENERGY STAR® refrigerators, and whole house fan were printed and distributed to major home improvement centers in SCE's service area. These products were, for the first time, included in SCE's POS rebate program at several major retailers. Significant increases

in results were achieved in all of the measures which were offered POS in 2005.

SCE also printed the rebate application and program brochure in Spanish and Chinese and worked with community-based organizations to distribute the materials to HTR customer groups.

INDUSTRY INVOLVEMENT

SCE continued support and participation in the Program for the Evaluation and Analysis of Residential Lighting (PEARL) which tests residential lighting products available from retailers.

Support was provided to changes in the specification for ENERGY STAR®-qualified fluorescent fixtures. These proposed changes will also raise the bar for quality energy efficiency products for California's consumers.

Residential Energy Efficiency Incentives

MULTI-FAMILY ENERGY EFFICIENCY REBATES PROGRAM

Program Description

The goal of the Multifamily Energy Efficiency Rebate program (MFEER) is to stimulate the multifamily market segment to install energy-efficient products. The MFEER program is a statewide program providing a broad list of qualifying energy efficiency measures. Prescribed rebates are available for the installation of qualifying energy-efficient improvements in apartment dwelling units and in the common areas of apartment and condominium complexes, and common areas of mobile home parks. Property owners and property managers of existing residential multifamily complexes with five or more dwelling units

may qualify. The program is uniform throughout all the investor-owned utilities' service areas, with consistent terms, requirements and implementation characteristics, including rebate levels and application procedures.

The following energy-efficient products are eligible for rebates:

- ENERGY STAR® Labeled CFLs (both interior and exterior)
- ENERGY STAR® Labeled Reflector CFLs (both interior and exterior)
- ENERGY STAR® Labeled Programmable Thermostats
- ENERGY STAR® Labeled Ceiling Fans with Energy Star® CFLs
- ENERGY STAR® Labeled Interior Hardwired Fluorescent Fixtures
- ENERGY STAR® Labeled Exterior Hardwired Fluorescent Fixtures
- Energy Efficient Electric Water Heaters
- High Performance Low E Dual-Pane Windows
- Insulation (electric resistance heating required)
- Low-Flow Showerheads (electric water heating required)
- Low-Flow Faucet Aerators (electric water heating required)
- ENERGY STAR® Labeled Exit Signs
- Occupancy Sensors
- Photocells
- ENERGY STAR® Labeled Room Air Conditioners
- Energy Efficient Package Terminal Air Conditioners and Heat Pumps

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- Energy Efficient Central Air Conditioners
- Energy Efficient Central Heat Pumps
- Pool Pumps and Single or Two-Speed High Efficiency Motors

Many of these measures are available as apartment and common area improvements resulting in both the property owner and resident tenant reaping benefits from reduced energy costs.

2005 Results and Achievements

A total of 490 multifamily complexes received direct incentives through the MFEER program representing approximately 23,259 net MWh in annualized energy savings and a demand reduction of approximately 3.8 net MW. Program highlights include the purchase and installation of approximately 155,000 CFLs; over 62,000

hardwired fluorescent fixtures; over 36,000 linear fluorescent T8 lamps and roughly 2,000 dwelling units receiving duct testing and sealing services.

SCE exhibited the program and its offering at three geographically diverse apartment association trade shows during the year. These trade shows have proven to be a valuable marketing activity. The trade shows provide ample opportunity for program management to receive direct feedback from participating customers which resulted in refining the program design.

To strengthen the program's prominence among industry actors and participants, the investor-owned utilities (IOUs) developed a full-page advertisement in the "Multifamily Trends" magazine that was distributed at the Urban Land Institute's Fall Conference.

SCE expanded MFEER program exposure through monthly print advertisements in four regional trade association journals. As a result, the program received higher response rates from customers involved in these trade associations.

By third quarter, the program reached near full subscription. As a result, SCE sought authorization to increase the program's incentive budget to extend the program offering through the end of 2005. Under the current guidelines, SCE shifted \$700,000 from unspent 2005 Residential Appliance Recycling Program (RARP) incentives to help meet MFEER market demand.

Through successful marketing efforts, SCE achieved a 54% penetration rate of HTR customers, a 50% increase over the annual goal of 36%. This marks the fourth consecutive year the program has significantly

surpassed its HTR goal.

SCE's MFEER program provides a unique service exclusively to apartment tenants, that being the exchange of high consumption and potentially dangerous halogen torchieres for safer, energy-efficient fluorescent torchieres. This is achieved through direct outreach conducted by community-based organizations leveraging existing relationships and outreach efforts for an effective, cost savings approach. Halogen torchieres exchange outreach resulted in roughly 4,100 halogen torchieres exchanged for energy-saving fluorescent torchieres.

Residential Energy Efficiency Incentives

RESIDENTIAL APPLIANCE RECYCLING PROGRAM (RARP)

Program Description

The Residential Appliance Recycling Program (RARP) is a statewide program designed to reduce energy usage by allowing eligible residential customers (single family and multifamily owners/landlords and tenants) to dispose of their working, inefficient primary and secondary refrigerators and freezers in an environmentally safe manner. Two units, refrigerators or freezers, may be recycled per customer service location per program year. Participation is on a first-come, first serve basis. A recycling incentive of \$35 is offered to customers who turn in working refrigerators and freezers (effective May 6, 2005 freezer incentives increased to

\$50) between 14-27 cubic feet and manufactured prior to 1990 (effective May 6, 2005, manufactured age restriction removed) .

Program guidelines require the following:

- Participant must be an SCE residential customer;
- Refrigerator/ Freezer must be in working condition (cooling);
- Appliance size must be between 14 and 27 cubic feet; and
- Appliance must be manufactured prior to 1990 (effective May 6, 2005, manufactured age restriction removed).

In SCE's service area, 69,745 refrigerators and freezers were picked up and recycled producing a

total net annualized energy savings of 49,502 net MWh and a net demand reduction of 8.5 net MW.

Nearly 54% of the units collected come from HTR geographic areas defined as rural, moderate income or multifamily.

Marketing and Outreach

SCE launched an aggressive and comprehensive marketing campaign targeting all residential customers. Activities included: bill inserts, bill messages, direct mail, radio ads (including Spanish-speaking stations), newspaper inserts, trade magazine ads, and e-mail blasts (messages). In addition, new POS materials were developed and placed in approximately 260 refrigerator/freezer

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areas of appliance retail stores. Also, new advertising panels were created and installed on all recycling trucks to

serve as mobile program billboards. Outreach efforts included an “island pickup” to service all SCE customers on

Catalina Island and a “pick up day” to service customers in the South Bay region.

Residential Program Area

Table 2.1
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
RESIDENTIAL PROGRAM AREA

Information	2005 Budget	[1,2,3]	2005 Recorded	[1,2,3,4]	2004-05 Budget	[1,2,3]	2004-05 Recorded	[1,2,3,5]
Information	\$ -	-	\$ -	\$ -	-	-	\$ -	-
EMS	1,300,000		1,620,621		2,800,000		2,785,276	
EEl								
SPCs (RCP)	-		-		-		-	
Rebates	51,625,227		48,785,526		88,650,454		84,988,232	
Loans	-		-		-		-	
Other	-		-		-		-	
Upstream Programs								
Information	-		-		-		-	
Financial Assistance	-		-		-		-	
Residential Total	\$ 52,925,227		\$ 50,406,146		\$ 91,450,454		\$ 87,773,508	

[1] Includes both PGC and Procurement funded programs.
 [2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.
 [3] Excludes Shareholder Incentives and Other Costs, as shown in Table TA 2.1.
 [4] All Recorded amounts include payments in 2005 and amounts committed to projects in 2005. Committed amounts may not be fully realized.
 [5] All Recorded amounts include payments in 2004-2005 and amounts committed to projects in 2004-2005, unless otherwise noted. Committed amounts may not be fully realized.

Table 2.2

2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 RESIDENTIAL PROGRAM AREA

	2005 First Year Net Annualized Capacity Savings (MW) [1.2.3.4]	2005 First Year Net Annualized Energy Savings (kWh) [1.2.3.4]	2005 Net Lifecycle Energy Savings (kWh) [1.2.3.4]	2004-05 First Year Net Annualized Capacity Savings (MW) [1.2.3.5]	2004-05 First Year Net Annualized Energy Savings (kWh) [1.2.3.5]	2004-05 Net Lifecycle Energy Savings (kWh) [1.2.3.5]
Information	-	-	-	-	-	-
EMS	-	-	-	-	-	-
EEL	-	-	-	-	-	-
SPCs (RCP)	-	-	-	-	-	-
Rebates	102.37	496,057,832	4,960,578,319	184.84	920,991,019	9,209,910,188
Loans	-	-	-	-	-	-
Other	-	-	-	-	-	-
Upstream Programs	-	-	-	-	-	-
Information	-	-	-	-	-	-
Financial Assistance	-	-	-	-	-	-
Residential Total	<u>102.37</u>	<u>496,057,832</u>	<u>4,960,578,319</u>	<u>184.84</u>	<u>920,991,019</u>	<u>9,209,910,188</u>

[1] Includes both PGC and Procurement funded programs.

[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

[3] Net Savings reflect Commission-adopted net-to-gross ratios.

[4] Includes savings from projects both installed in 2005 and committed to projects in 2005. Committed amounts may not be fully realized.

[5] Includes savings from projects both installed in 2004-2005 and committed to projects in 2004-2005. Committed amounts may not be fully realized.

Residential Program Area

Table 2.3
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
(Benefit-Cost Ratios)
RESIDENTIAL PROGRAM AREA

	2005 Program Administrator Cost Test	[1,2,3]	2005 Total Resource Cost Test	[1,2,3]	2005 Levelized Cost (cents/kWh)	2004-05 Program Administrator Cost Test	[1,2]	2004-05 Total Resource Cost Test	[1,2]	2004-05 Levelized Cost (cents/kWh)	[1,2]
Information	-	-	-	-	-	-	-	-	-	-	-
EMS	-	-	-	-	-	-	-	-	-	-	-
EEl	-	-	-	-	-	-	-	-	-	-	-
SPCs (RCP)	-	-	-	-	-	-	-	-	-	-	-
Rebates	5.31	-	3.79	-	2.09	5.65	3.96	-	-	1.99	-
Loans	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-
Upstream Programs											
Information	-	-	-	-	-	-	-	-	-	-	-
Financial Assistance	-	-	-	-	-	-	-	-	-	-	-
Residential Total	5.13		3.69		2.14	8.19	3.87			2.04	

[1] Includes both PGC and Procurement funded programs.
 [2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.
 [3] Includes costs depicted in Table TA.2.1 - Program Cost Estimates Used for Cost-Effectiveness - Residential Program Area.

Residential Program Area

Table 2.4
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
RESIDENTIAL PROGRAM AREA
(Net Benefits)

	2005 TRC	[1,2,3]	2004-05 TRC	[1,2]
Information	\$	-	\$	-
EMS		(1,691,504)		(2,927,043)
EEI				
SPCs (RCP)		-		-
Rebates		192,342,106		362,743,031
Loans		-		-
Other		-		-
Upstream Programs				
Information		-		-
Financial Assistance		-		-
Residential Total	<u>\$</u>	<u>190,650,602</u>	<u>\$</u>	<u>359,815,988</u>

[1] Includes both PGC and Procurement funded programs.

[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

[3] Includes costs depicted in Table TA 2.1 - Program Cost Estimates Used for Cost-Effectiveness - Residential Program Area.

Residential Program Area

Nonresidential Information

BUILDING OPERATOR CERTIFICATION PROGRAM

Program Description

The Building Operator Certification (BOC) Program is a statewide training and certification program that seeks to establish and support a professional credential for operators of medium and large commercial buildings (including governmental and institutional buildings and complexes). Certified operators receive the training and background to identify and implement energy savings opportunities as an integral part of their operations and maintenance activities. The BOC Level I training course consists of eight days of training classes offered once per month over a seven-month period, and the BOC Level II training course consists of seven days of training classes offered over a

five-month period.

2005 Results and Achievements

In 2005, the BOC program was required to conduct five Level I courses with 100 students and one Level II course with 15 students. The target was met with 133 students enrolled in five Level I classes and 19 students enrolled in one Level II course. SCE's course locations were placed throughout Southern California and within areas that have high concentrations of commercial buildings to make it easier for building operators to attend. SCE also leveraged the use of its Energy Center to deliver one of the informational meetings used to interest prospective students. The program relied on direct outreach to

recruit students such as using SCE's customer account representatives and Energy Center visitor mailing lists to contact prospective students regarding the program.

SCE, in coordination with other California investor-owned utilities (IOUs), planned and conducted a Level II training course that proved successful in practice. The purpose of the Level II course is to emphasize equipment troubleshooting and maintenance. As a result of this coordinated program enhancement process, the Level II course curriculum in 2005 consisted of Preventive Maintenance and Operations; Advanced Electrical Diagnostics; Heating, Ventilating and Air Conditioning

Nonresidential Program Area

(HVAC)

Troubleshooting and Maintenance; HVAC Controls and Optimization; Introduction to Building Commissioning; and Electric Motor Management. The topics covered in the Level II course expand on the maintenance and operational practices covered in BOC Level I courses.

Nonresidential Energy Management Services

NONRESIDENTIAL ENERGY AUDITS

Program Description

This statewide information program offers free energy audits to nonresidential customers. The audit assists the customer by providing information on the benefits of installing measures or adopting practices that can reduce the customer's utility bills. The energy audit recommendations are based on the customer's recent billing history and/or customer-specific information regarding equipment and building characteristics. The types of energy audits offered by the

program include: on-site, online, mail-in, over-the-phone and CD-Rom audits. Online audits are available in Spanish and English. In addition, on-site audits may be conducted in the following languages: Spanish, Korean, Chinese, Vietnamese, as well as English.

2005 Results and Achievements

By the end of 2005, the program completed 7,865 audits, of which 4,734 audits were classified as HTR. To achieve these results, the program used a combination of targeted marketing and outreach along

with an expansion of the online audit in Spanish to enlarge and enhance the market for SCE's online audit tool.

SCE used various channels to create additional program awareness among the nonresidential customer class. These channels assured the program's overall success and included activities such as the statewide multi-language brochure, direct mailings, informational classes, customer outreach events, e-mail blasts, promotional online giveaways and newsletters.

Nonresidential Energy Management Services

PUMP TEST AND HYDRAULIC SERVICES

Program Description

The Local Pump Test and Hydraulic Services (PTHS) program is intended to influence water agencies, municipalities, agricultural, and other customers with potable pumping applications to adopt maintenance and capital investment practices that will improve the overall efficiency of their pumping systems. The objective is accomplished through hydraulic test specialists who provide pump efficiency tests that determine overall plant system efficiency, electrical motor performance and pump hydraulics, and water well characteristics.

In addition, SCE delivers activities to this group of

customers that were historically known as energy management services. These activities include education and training activities that promote energy efficiency considerations in all aspects of the customer's business. SCE is able to influence the process through strengthening current relationships with agri-businesses, water districts, trade and ethnic associations, vendors, manufacturers, and local and state governments.

2005 Results and Achievements

In 2005, SCE's PTHS program performed quality pump tests on 4,554 pumps. SCE continued its high rate of including "non-participants" at 42%.

Program activity also included distributing approximately 200 direct mail applications to "non-participants" to encourage them to take advantage of the program's services and other services and incentives available through other SCE programs.

In 2005, the program representatives participated in the very successful and well attended World Ag Expo in Tulare, California. The SCE team distributed pump test manuals, compact discs containing a pumping tool to help customers calculate the benefits of maintaining a high operating efficiency of their pumps, and other energy efficiency information.

Nonresidential Energy Efficiency Incentives

VEISM ADVANTAGE PLUS² PROGRAM

Program Description

The purpose of the VeSM Advantage Plus² Program (VeSM) is to: (1) develop and implement innovative energy efficiency program tailored to meet the unique needs of small to large size manufacturers; (2) tap into a new and significant cache of cost-effective energy savings potential by improving the manufacturing system in lieu of purchasing expensive new equipment; (3) help stimulate regional economic growth by improving manufacturing sector productivity and (4) create a linkage with traditional hardware-based energy efficiency incentive programs offered by

utilities and non-utilities.

2005 Results and Achievements

The VeSM Program was approved by the CPUC in late 2004. SCE contracted with the California Manufacturing Technology Center (CMTC) as its primary implementation partner. CMTC markets workshops and solicits program participants through existing relationships with Los Angeles County Economic Development Corporation (LAEDC), Inland Empire and Orange County EDC partners.

The VeSM tool is a method designed to

systematically document all actions (both value added and non-value added) and help customers understand the flow of material and information as a product makes its way through the value stream (Manufacturing process).

At year end, 24 participants signed up to receive an extensive assessment of their production processes using the VeSM tool. These projects represent a total of 2,822 MWh of net annualized energy savings and 0.2 MW of net peak load reductions for businesses in SCE's service area.

Nonresidential Energy Efficiency Incentives

SMALL NONRESIDENTIAL HARD-TO-REACH PROGRAM

Program Description

The Small Nonresidential HTR program, implemented as the Small Business Energy Connection Program, offers energy efficiency information, equipment, and education to small (<100 kW) and very small (<20 kW) business customers typically located in economically disadvantaged business district areas within SCE's service area. The program introduces small business customers to the benefits of energy efficiency through (mostly) lighting system upgrades which consist of the replacement of low efficiency lighting with high efficiency lighting. While additional measures are offered in the program, such as HVAC, lighting is

responsible for most all of the energy savings and demand reduction. An energy audit is performed to determine the potential for energy savings and demand reduction. This is part of the education piece of the program. After discussing the audit results with the customer, the upgrades are provided. Since cost is a major concern for the small business owner, and the largest barrier to participation in the traditional rebate programs, all program services are provided free of charge. A professional prime contractor, (Richard Heath and Associates) was hired through a competitive bid process, to provide the audits, and installation of the lighting system and

select HVAC upgrades.

New for the 2004-2005 program years, a community-based organization (CBO)/faith-based organization (FBO) program element and job skills training components were added to the program. One FBO, (First AME) and two CBO, (Titan Group and CHARO) were recruited by SCE to provide outreach and education services in conjunction with the prime contractor in the program. The CBO/FBOs provide outreach services in their business district areas of influence. The program will also focused on providing job skills training and trained individuals capable of gaining employment in the open market.

Nonresidential Program Area

2005 Results and Achievements

By the end of 2005, the lengthy request for proposals and contracting processes were completed. The

program enrolled and implemented energy efficient lighting and selected HVAC measures to 4,287 small business customers. In 2005, the program achieved

over 53,605 MWh of annualized energy savings and 11.3 MW of net demand reduction.

Nonresidential Energy Efficiency Incentives

UPSTREAM HVAC AND MOTORS REBATE PROGRAM

Program Description

The Upstream HVAC and Motors Rebate Program provides upstream financial incentives to distributors to stock and sell qualifying high efficiency products. This program is targeted toward geographically defined hard-to-reach markets. SCE's customers from the smallest to the largest are eligible to receive the incentives. Packaged air conditioning is used by small commercial customers; motors are used by all customer classes.

Incentives are offered for:

- high efficiency packaged and split system air conditioners,
- heat pumps,

- package chillers, and
- motors.

2005 Results and Achievements

The California IOUs partnered with a third-party consulting firm, Energy Solutions, to be the statewide implementer of the program. Energy Solutions was chosen as the program implementation contractor because of their prior experience in running upstream incentive programs. This arrangement was approved by the CPUC in their decision approving 2004/2005 energy efficiency programs. Each IOU subcontracted with Energy Solutions utilizing a directed purchase order.

Marketing efforts ranged from personal visits to direct-mail postcards sent to participating and non-participating distributors to secure their participation and motivate them to sell premium efficiency air conditioners and motors. Efforts to enroll major HVAC and motor distributors in SCE territory resulted in signing 35 HVAC Distributors and 86 Motors Distributors into the program.

Distributors use Upstream Program rebates to reduce the sales price of premium efficiency equipment, and also use pricing to influence designer/contractor equipment selections. Participants found that Upstream Program rebates help them to win

Nonresidential Program Area

competitive bids for installation of premium efficiency equipment, provide cost reductions to customers, and increase sales volume of premium efficiency equipment.

A Participation Improvement Plan

helped identify significant backlogs of qualifying equipment sales and installations for several distributors and allowed the team to work with these participants to submit applications, and identify barriers to participation.

The Upstream HVAC and Motors Rebate Program achieved a total of over 27,000 MWh of net annualized energy savings and 10.3 MW of net peak load reductions for businesses in SCE's service area.

Nonresidential Energy Efficiency Incentives

EXPRESS EFFICIENCY

Program Description

The statewide Express Efficiency program offers nonresidential customers prescriptive rebates for specific, proven energy efficiency measures including lighting, HVAC, refrigeration, agricultural, and food service retrofit measures. The program is targeted to small- and medium-sized commercial, industrial, and agricultural customers with monthly demand of less than 500 kW. There is also a focus on HTR customers that fall within these customer eligibility requirements.

2005 Results and Achievements

The Express Efficiency program achieved a total of over 151,500 MWh of net annualized energy savings and over 25.1

MW of net peak load reductions for small and medium-sized businesses in SCE's service area.

The statewide Express Efficiency program offered customers higher rebates in 2004 and 2005. The statewide IOU team kept rebate levels constant throughout the two year program cycle, and did not engage in special offers or "sales." This proved to be a winning strategy for SCE and resulted in a more even distribution of customer participation during each year.

The Express Efficiency program was marketed to SCE nonresidential customers in more than 338,703 direct mail pieces. These included 46,700 direct mail pieces targeted at

office and retail, hotel and motel, and restaurant customers. In addition, SCE produced 69,900 brochures and flyers that promoted the Express Efficiency program.

The Express Efficiency program was challenged to achieve a HTR participation rate of 40%, meaning that a minimum of 40% of rebates actually paid would go to HTR customers. HTR customers were identified as all very small businesses (i.e., customers on a GS-1 rate) and any small business (i.e., customers on a GS-1 or GS-2 rate) with a service address located in a rural zip code within SCE's service area. Through focused marketing and coordinated outreach, SCE achieved a 36%

participation rate of HTR customers.

The Express Efficiency program office coordinated its efforts with SCE's Business Solutions Team. They are a diverse group of account executives that generally belong to organizations within the communities in which they work. They have a sense of community needs, know the customers well, and are positioned locally to help the individual members of these business organizations and customer groups to identify energy efficiency opportunities and overcome the market barriers related to the achievement of their full energy efficiency potential.

In 2005 Business Solutions partnered with other SCE organizations including Public Affairs, Customer Call Center, Edison Chinese Connection and several community and

Chinese organizations to assist Chinese small businesses by providing energy audits within the City of Monterey Park. The goal of this campaign was to take a proactive role in providing affordable energy efficiency recommendations to small business customers. A total of 24 SCE Chinese employees volunteered to ride along with the auditors and assist them by translating the information to non-English speaking customers. This collaborative effort resulted in the completion of 368 audits, with over 90% of customers participating in energy efficiency programs. The total identified savings were approximately 3,500 MWh. In addition, the small business customers were excited and grateful to see Edison representatives in their community.

In the 2004-2005 program years SCE

developed a unique community delivery channel that provides light-emitting diode (LED) exit signs to small business customers who have been cited by local fire departments for nonfunctioning incandescent exit signs. Working directly with the fire departments, vendors supply exit signs to SCE customers at low cost or no cost. In 2005, participating fire departments included Apple Valley, Loma Linda, Upland, City of San Bernardino, Pomona, Arcadia, Sierra Madre, and Torrance. SCE also provided exit signs to "Rim of the World" school district, Adelanto Prison, and a small hospital in Trona. These projects were referred by either the Apple Valley Fire Department or San Bernardino Office of Job Development.

A sample of other community and business association outreach events is listed below.

Nonresidential Program Area

- California Small Business Roundtable
 - Fullerton Chamber Business Expo
 - Vietnamese-American Chamber of Commerce
 - African American Business Summit
 - High Desert Gold Business Conference
 - Korean American Grocers Association
 - South Coast Earth Day Festival
 - City of Ontario and SCE Community Partnership
 - United Chambers of Commerce of the San Fernando Valley
 - Cathedral City Chamber of Commerce Business and Retail Expo
 - Taiwan Hotel Motel Association of Southern California
 - Tulare Kings Hispanic Chamber Tenth Annual Business Conference
 - Hispanic Lifestyle 9th Annual Business Expo and Conference
- Program promotional trade or industry shows included:
- The statewide team hosted a booth at the West Coast Energy Management Congress in San Diego, June, 2005
 - SCE hosted a booth at the Western Restaurant and Hospitality Expo in Los Angeles, August, 2005.
- The statewide team hosted a booth at the North American Foodservice Equipment Manufacturers Association Show on September 23-25, 2005.

Nonresidential Energy Efficiency Incentives

STANDARD PERFORMANCE CONTRACT (SPC)

Program Description

This statewide program offers incentives for installing high-efficiency equipment or systems at an existing building or facility. Depending on the type of measure installed, incentives are based on a per unit basis (itemized) or on the annual kWh savings achieved (calculated). Any size nonresidential customer in SCE's service territory that is not eligible for the Express Efficiency program [i.e. is over 500 kW, or is installing a measure not eligible under Express], is eligible to participate, including utility customers who may have opted to purchase electricity or gas from other suppliers. Third party consultants, vendors or contractors may sponsor an energy

efficiency retrofit at a utility customer site and submit applications on behalf of the customer, with their acknowledgement.

In 2005, the SPC program paid for either prescriptive or calculated measures. Large commercial customers with a demand over 500 kW are eligible for the same prescriptive measures and defined incentive rates available for small customers in the Express Efficiency program. If the customer is installing a customized project that falls outside of the prescriptive list, the incentive is based on the "traditional" calculated approach of kWh saved. Applicants estimate achievable kWh savings and determine the corresponding

incentive using the following rates: Lighting and lighting control measures are paid at \$0.05 per kWh saved, Air Conditioning and Refrigeration (AC&R) replacements are paid at \$.14 per/kWh and all "Other" measures such as compressed air systems, variable frequency drives and cool roof installations are paid at \$.08 per/kWh. Applicants are eligible to receive up to 50% of each measure cost. The maximum incentive per site is \$500,000.

2005 Results and Achievements

In 2005, the program achieved over 334,500 MWh in net annualized energy savings and over 50.7 MW of net demand reduction. The program remained open until December 31, 2005.

Nonresidential Program Area

Due to the aggressive outreach strategy SCE employs, demand and participation in SPC remained high throughout the year. SCE account managers are assigned to work closely with SCE's top 5,000 customers. As a result, the account managers are a significant resource and help customers to identify retrofit opportunities and submit SPC applications for appropriate equipment. Additionally, SCE engineers assist customers with energy savings calculation and take measurements of existing equipment to determine potential

energy savings for more complicated projects.

Marketing efforts included 34,600 direct mail pieces to all SCE assigned customers (5,000 of SCE's largest accounts) and industry specific segments - warehouse facilities, institutional, and food service customers. Applications, fact sheets, brochures and energy guides were also developed. These materials are distributed at trade shows, special events, customer seminars, and at SCE's CTAC.

One of the most valuable tools available through the

SPC program is the SPC program CD which offers simplified, software tools for a range of common energy efficiency measures. Updated and published every year, the software takes the applicant through a series of inputs to estimate energy savings and a corresponding incentive. This tool is available for download at www.sce.com/spc or visitors may request a free copy. More than 2,500 CDs were distributed to customers, vendors, SCE staff, and outside contractors.

Nonresidential Program Area

The program staffed/hosted a booth at the following events and trade shows in 2005:

Event	Location	Date
Association of Energy Engineers (AEE)	Buena Park, CA	February 16, 2005
SYSCO Food Service Show	Anaheim, CA	March 9 - 10, 2005
Non-Residential Energy Efficiency Customer/ESCO/Vendor workshop	Irvine, CA	March 24, 2005
NAESCO	Las Vegas, NV	November 16-18, 2005

Nonresidential Program Area

Table 3.1
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
NONRESIDENTIAL PROGRAM AREA

Information	2005 Budget	[1,2,3]	2005 Recorded	[1,2,3,4]	2004-05 Budget	[1,2,3]	2004-05 Recorded	[1,2,3,5]
	\$		\$		\$		\$	
EMS								
Large	-	-	-	-	-	-	-	-
Small/Medium	3,500,000		3,591,823		7,000,000		6,724,475	
EEl: Customized Rebates								
Large	470,000		741,989		940,000		760,543	
Small/Medium	-		-		-		-	
EEl: Prescriptive Rebates								
Large	-		-		-		-	
Small/Medium	26,567,955		32,869,291		44,035,910		43,317,087	
EEl: SPCs								
Large	55,824,198		54,960,176		80,248,395		72,411,826	
Small/Medium	-		-		-		-	
Upstream Programs								
Information	-		-		-		-	
Financial Assistance	-		-		-		-	
Nonresidential Total	\$ 86,862,153		\$ 92,646,980		\$ 133,224,305		\$ 123,867,917	

[1] Includes both PGC and Procurement funded programs.
 [2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.
 [3] Excludes Shareholder Incentives and Other Costs, as shown in Table TA 3.1.
 [4] All Recorded amounts include payments in 2005 and amounts committed to projects in 2005. Committed amounts may not be fully realized.
 [5] All Recorded amounts include payments in 2004-2005 and amounts committed to projects in 2004-2005, unless otherwise noted. Committed amounts may not be fully realized.

Table 3.2

2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 NONRESIDENTIAL PROGRAM AREA

	2005 First Year Net Annualized Capacity Savings (MW)	[1,2,3,4]	2005 First Year Net Annualized Energy Savings (kWh)	[1,2,3,4]	2005 Net Lifecycle Energy Savings (kWh)	[1,2,3,4]	2004-05 First Year Net Annualized Capacity Savings (MW)	[1,2,3,5]	2004-05 First Year Net Annualized Energy Savings (kWh)	[1,2,3,5]	2004-05 Net Lifecycle Energy Savings (kWh)	[1,2,3,5]
Information	-	-	-	-	-	-	-	-	-	-	-	-
EMS												
Large	-	-	-	-	-	-	-	-	-	-	-	-
Small/Medium	-	-	-	-	-	-	-	-	-	-	-	-
EEl: Customized Rebates												
Large	0.24	-	2,822,400	-	56,448,000	-	0.24	-	2,822,400	-	56,448,000	-
Small/Medium	-	-	-	-	-	-	-	-	-	-	-	-
EEl: Prescriptive Rebates												
Large	-	-	-	-	-	-	-	-	-	-	-	-
Small/Medium	46.77	-	232,161,218	-	2,785,934,621	-	80.44	-	379,115,032	-	4,549,380,381	-
EEl: SPCs												
Large	50.74	-	334,781,759	-	4,686,944,621	-	172.97	-	531,253,371	-	7,437,547,194	-
Small/Medium	-	-	-	-	-	-	-	-	-	-	-	-
Upstream Programs												
Information	-	-	-	-	-	-	-	-	-	-	-	-
Financial Assistance	-	-	-	-	-	-	-	-	-	-	-	-
Nonresidential Total	<u>97.75</u>	<u>7,529,327,242</u>	<u>569,765,377</u>	<u>253.64</u>	<u>913,190,803</u>	<u>12,043,375,575</u>						

[1] Includes both PGC and Procurement funded programs.

[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

[3] Net Savings reflect Commission-adopted net-to-gross ratios.

[4] Includes savings from projects both installed in 2005 and committed to projects in 2005. Committed amounts may not be fully realized.

[5] Includes savings from projects both installed in 2004-2005 and committed to projects in 2004-2005. Committed amounts may not be fully realized.

Nonresidential Program Area

Table 3.3
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
(Benefit-Cost Ratios)
NONRESIDENTIAL PROGRAM AREA

	2005 Program Administrator Cost Test	[1,2,3]	2005 Total Resource Cost Test	[1,2,3]	2005 Levelized Cost (cents/KWh)	[1,2,3]	2004-05 Program Administrator Cost Test	[1,2]	2004-05 Total Resource Cost Test	[1,2]	2004-05 Levelized Cost (cents/KWh)	[1,2]
Information	-	-	-	-	-	-	-	-	-	-	-	-
EMS	-	-	-	-	-	-	-	-	-	-	-	-
Large	-	-	-	-	-	-	-	-	-	-	-	-
Small/Medium	-	-	-	-	-	-	-	-	-	-	-	-
EI: Customized Rebates	3.19	4.42	4.42	1.96	3.12	4.27	2.03	-	-	-	-	-
Large	-	-	-	-	-	-	-	-	-	-	-	-
Small/Medium	-	-	-	-	-	-	-	-	-	-	-	-
EI: Prescriptive Rebates	4.22	3.85	3.85	2.06	5.18	3.92	2.03	-	-	-	-	-
Large	-	-	-	-	-	-	-	-	-	-	-	-
Small/Medium	-	-	-	-	-	-	-	-	-	-	-	-
EI: SPCs	4.16	4.41	4.41	1.86	4.57	3.93	2.08	-	-	-	-	-
Large	-	-	-	-	-	-	-	-	-	-	-	-
Small/Medium	-	-	-	-	-	-	-	-	-	-	-	-
Upstream Programs	-	-	-	-	-	-	-	-	-	-	-	-
Information	-	-	-	-	-	-	-	-	-	-	-	-
Financial Assistance	-	-	-	-	-	-	-	-	-	-	-	-
Nonresidential Total	<u>3.99</u>	<u>3.99</u>	<u>3.99</u>	<u>2.02</u>	<u>4.50</u>	<u>3.74</u>	<u>2.16</u>					

(1) Includes both PGC and Procurement funded programs.
(2) Includes incremental energy efficiency activities for Summer 2005, adopted in D 05-05-012.
(3) Includes costs depicted in Table TA 3.1 - Program Cost Estimates Used for Cost-Effectiveness - Nonresidential Program Area.

Nonresidential Program Area

Table 3.4
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
NONRESIDENTIAL PROGRAM AREA
(Net Benefits)

	2005 TRC	[1,2,3]	2004-05 TRC	[1,2]
Information	\$	(511,122)	\$	(708,830)
EMS				
Large		-		-
Small/Medium		(3,738,433)		(7,016,564)
EEl: Customized Rebates				
Large		1,833,267		1,814,714
Small/Medium		-		-
EEl: Prescriptive Rebates				
Large		-		-
Small/Medium		103,396,978		168,659,527
EEl: SPCs				
Large		177,515,122		269,952,289
Small/Medium		-		-
Upstream Programs				
Information		-		-
Financial Assistance		-		-
Nonresidential Total	<u>\$</u>	<u>278,495,813</u>	<u>\$</u>	<u>432,701,136</u>

[1] Includes both PGC and Procurement funded programs.

[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

[3] Includes costs depicted in Table TA 3.1 - Program Cost Estimates Used for Cost-Effectiveness - Nonresidential Program Area.

Residential New Construction

CALIFORNIA ENERGY STAR® NEW HOMES PROGRAM

Program Description

The California ENERGY STAR® New Homes Program (CESNHP) is a standardized program that has been developed and implemented for statewide delivery through a collaboration among California's four investor-owned utilities (IOUs).

CESNHP is designed to encourage single-family and multifamily (including rental apartments, condominiums, and town homes) builders to construct units that reduce energy usage by a minimum of 15% from the standard design required by the California Energy Efficiency Standards. The program goals are achieved through a combination of financial incentives,

design assistance and education. The 15 percent level has been designated by the federal Environmental Protection Agency (EPA) as the new ENERGY STAR® homes baseline for California, subsequent to the Title 24 revisions (2001 Standards) brought about in Assembly Bill 970. As a result, buyers of single-family homes and renters in multifamily dwellings enjoy reduced energy bills and superior comfort compared to standard new housing.

This program also offers a multifamily high-rise component for projects that use the 2001 Energy Efficiency Standards for High-Rise Residential Buildings. The EPA's ENERGY STAR® currently does not have a

designation for multifamily buildings above three stories. The information gathered as a result of this component is shared with EPA ENERGY STAR®. EPA is interested in the outcome of this program activity for possible future ENERGY STAR® designation of multifamily buildings that are four or more stories.

This program is also promoted at industry trade shows and local building industry affiliations throughout the year to a diverse group of building industry professionals. Additional promotional efforts are carried out through various media avenues, trade shows, and educational seminars.

New Construction Program Area

2005 Results and Achievements

During 2005, SCE's California ENERGY STAR® New Homes Program approved 98 applications for more than 10,300 single-family units and 23 applications for over 3,300 multifamily units. Also, over 800 high efficiency heating, ventilating and air conditioning (HVAC) units were committed to SCE's Distributor HVAC Buydown program. As a result, these programs achieved a combined total of nearly 12,000 MWh of net annualized energy savings and nearly 13 MW of net peak load reduction.

SCE exceeded the 2004-2005 goal to have 20% of the direct implementation funds directed to hard-to-reach (HTR) customers. The target was exceeded with 83% of the PY2005 direct implementation funds directed to HTR projects and 79% of the PY2004-2005 funds directed to

hard-to-reach customers.

AWARDS

For the fourth consecutive year, SCE and the other three IOUs were awarded EPA's "Partner of the Year for New Homes" award.

Also for the fourth consecutive year, they were awarded the ENERGY STAR® Award for "Regional, State and Community Leadership in Energy Efficiency," as well as retaining the "Partner of the Year" designation. The 2005 ENERGY STAR® Awards Ceremony was held on March 21, 2006 in Washington, D.C.

OUTREACH

SCE promoted the CESNHP as an exhibitor at the 2005 Building Industry Show at the Long Beach Convention Center on November 3-4, 2005. Over 5,500 attendees converged on the exhibition center where over 2,500 exhibitors

promoted their products and services.

In addition, SCE maintained booths at the June, 2005 trade show at the Pacific Coast Builders Conference (PCBC) at the Moscone Convention Center in San Francisco. PCBC is the largest regional trade show in the U.S. drawing more than 29,000 attendees to over 600 exhibitors in the industry.

TRAINING

SCE continued to develop and deliver a multifamily Buildings Energy Efficiency Design Training course specifically targeted to multifamily builders; affordable housing developers; architects; energy consultants; HVAC contractors; home energy rating systems raters; mechanical and plumbing engineers; and building department inspectors. In 2005, SCE expanded the training program to include a four-hour design Charrette that

provides a “hands on” approach for obtaining and developing the information needed for cost comparison and performance differences among various energy efficiency options.

**TRADE
ADVERTISEMENT**
SCE participated in several local Building Industry Association (BIA) events such as the Inland Empire Chapter’s Purchasing Agents Suppliers and Sub-Contractors (PASS) event in

Riverside and the Coachella Valley Chapter in Palm Springs.

In February of 2005, SCE attended the California Building Officials Annual Business Meeting held in Yosemite National Park where Edison participated as a Break Sponsor.

SCE continues to provide printed advertisements featuring the California ENERGY STAR® New Homes Program in various

builder trade magazines such as Builder Developer and Southern California Builder.

In addition, SCE continues to market new home subdivisions with point-of-sale (POS) marketing materials that promote the ENERGY STAR® label within the new communities. The items currently include yard signs, flags, vinyl cling window decals, and small table tents.

Nonresidential New Construction

SAVINGS BY DESIGN

Program Description

The Savings by Design (SBD) program influences nonresidential building owners, tenants, and design teams to exceed current Title 24 standards (or industry standards for processes) by 10% or more for their new construction or renovation/remodel projects. SBD provides energy design education, design assistance, and cash incentives for all project types and sizes that meet eligibility criteria for the program. SBD also leverages resources from industry relationships, strategic alliances, and other public purpose programs to accomplish the goals of energy savings, peak demand reductions, and long-term market change.

The program has three elements: the Whole Building Approach, the Systems Approach, and Education and Outreach. The Whole Building approach encompasses the core strategy, and centers on an integrated design approach to optimize energy efficiency. The Systems Approach provides a simpler, performance-based method, which moves owners and design teams far beyond prescriptive approaches. This program component is designed to include participants who would not normally consider a fully integrated energy design concept. Finally, program Education and Outreach strategies are served by the successful Energy Design Resources (EDR) model, which

addresses market barriers by providing owners and designers with the information, education, resources, and tools to help them make the best possible energy efficiency choices. All three elements support the California Energy Commission's (CEC's) goals for market transition to the 2005 Title 24 code revision cycle.

2005 Results and Achievements

In 2005, SCE's SBD program achieved nearly 149,000 MWh of net annualized energy savings and 20.7 MW of net peak load reduction. More than 44% of the program's customer incentive monies were allocated to Whole Building Approach projects.

Outreach and marketing activities included the

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distribution of more than: 2,000 brochures; 67 EDR compact discs; and approximately 2,800 statewide mailings in support of the SBD Energy Efficiency Integration Award Call for Entries.

In addition, tracking reports for the SBD web site recorded over 1,250,000 individual inquiries in 2005 and the EDR site had over 2 million hits, generated by

200,000 “visits” to the website during this same time period.

In 2005, SBD co-sponsored and/or participated in 16 seminars and workshops throughout the year. These seminars and workshops attracted over 650 attendees, and encompassed a vast array of related subjects such as Title 24 Nonresidential Energy Efficiency Standards, eQUEST

Training, Introduction to Life Cycle Costing, Demystifying the Whole Building Approach, and Daylighting for Buildings.

For the second year, SBD sponsored an energy efficiency/sustainability conference for the Los Angeles Community College District design teams and project staff.

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Table 4.1
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
NEW CONSTRUCTION PROGRAM AREA

	2005 Budget	[1,2]	2005 Recorded	[1,2,3]	2004-05 Budget	[1,2]	2004-05 Recorded	[1,2,3,4]
Residential	\$ 7,569,673		\$ 9,289,488		\$ 14,539,345		\$ 12,352,523	
Nonresidential	13,651,843		12,515,674		25,803,685		16,242,327	
New Construction Total	<u>\$ 21,221,515</u>		<u>\$ 21,805,162</u>		<u>\$ 40,343,030</u>		<u>\$ 28,594,850</u>	

[1] Includes both PGC and Procurement funded programs.

[2] Excludes Shareholder Incentives and Other Costs, as shown in Table TA 4.1.

[3] All Recorded amounts include payments in 2005 and amounts committed to projects in 2005. Committed amounts may not be fully realized.

[4] All Recorded amounts include payments in 2004-2005 and amounts committed to projects in 2004-2005, unless otherwise noted. Committed amounts may not be fully realized.

Table 4.2
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 NEW CONSTRUCTION PROGRAM AREA

	2005 First Year Net Annualized Capacity Savings (MW)	[1,2,3]	2005 First Year Net Annualized Energy Savings (kWh)	[1,2,3]	2005 Net Lifecycle Energy Savings (kWh)	[1,2,3]	2004-05 First Year Net Annualized Capacity Savings (MW)	[1,2,3,4]	2004-05 First Year Net Annualized Energy Savings (kWh)	[1,2,3,4]	2004-05 Net Lifecycle Energy Savings (kWh)
Residential	12.93		11,978,292		215,609,256		16.34		15,124,250		272,236,501
Nonresidential	20.69		148,953,661		2,681,165,889		35.57		271,798,281		4,892,369,057
New Construction Total	<u>33.62</u>		<u>160,931,953</u>		<u>2,896,775,145</u>		<u>51.91</u>		<u>286,922,531</u>		<u>5,164,605,558</u>

[1] Includes both PGC and Procurement funded programs.

[2] Net Savings reflect Commission-adopted net-to-gross ratios.

[3] Includes savings from projects both installed in 2005 and committed to projects in 2005. Committed amounts may not be fully realized.

[4] Includes savings from projects both installed in 2004-2005 and committed to projects in 2004-2005. Committed amounts may not be fully realized.

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Table 4.3
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
(Benefit-Cost Ratios)

NEW CONSTRUCTION PROGRAM AREA

	2005 Program Administrator Cost Test	[1,2]	2005 Total Resource Cost Test	[1,2]	2005 Levelized Cost (cents/kWh)	[1,2]	2004-05 Program Administrator Cost Test	[1]	2004-05 Total Resource Cost Test	[1]	2004-05 Levelized Cost (cents/kWh)	[1]
Residential	1.00		1.09		7.81		0.89		0.99		8.60	
Nonresidential	9.30		3.27		2.60		10.39		2.87		2.96	
New Construction Total	<u>5.76</u>		<u>2.85</u>		<u>2.98</u>		<u>6.65</u>		<u>2.61</u>		<u>3.25</u>	

[1] Includes both PGC and Procurement funded programs.
[2] Includes costs depicted in Table TA 4.1 - Program Cost Estimates Used for Cost-Effectiveness - New Construction Program Area.

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Table 4.4
 2006 Energy Efficiency Annual Report
 SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
 NEW CONSTRUCTION PROGRAM AREA
 (Net Benefits)

		2005 TRC	[1,2]	2004-05 TRC	[1]
Residential	\$	749,548		(164,812)	
Nonresidential		82,039,918		150,228,136	
New Construction Total		\$ 82,789,465		\$ 150,063,325	

[1] Includes both PGC and Procurement funded programs.

[2] Includes costs depicted in Table TA 4.1 - Program Cost Estimates Used for Cost-Effectiveness - New Construction Program Area.

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Crosscutting Information

ENERGY EFFICIENCY EDUCATION & TRAINING PROGRAM

Program Description

The Statewide Energy Efficiency Education and Training program promotes energy efficiency to end-use customers through a variety of education and services including SCE's Energy Centers, the Outreach Program, commercial and industrial informational services and the Technology Test Centers (TTC) comprised of the Refrigeration and Thermal Testing Center (RTTC) and the newly added Southern California Lighting Technology Center (SCLTC).

ENERGY CENTERS /OUTREACH

SCE is home to two distinct Energy Centers. The Customer Technology Application Center (CTAC) and, its companion center, the Agricultural

Technology Application Center (AGTAC), share technical expertise and resources to provide customers with a diverse range of educational products and services.

The Energy Centers offer customers current, objective information on state-of-the-art, energy-efficient electric technologies and environmentally sensitive solutions to their energy challenges. They are designed to help businesses run their operations more effectively while reducing energy costs, improving product quality, and meeting stringent air quality standards. Customers and visitors from throughout the nation and the world have come to the centers to attend seminars and workshops, and to

demonstrate or to test new products.

Located in the heart of one of the most densely populated areas in Southern California, CTAC is a 44,000 square-foot facility with several distinct product and technology centers including the: Commercial Center, Lighting Center, Industrial Center, Daylight Center, Foodservice Technology Center, Wet Cleaning Demonstration Center, Refrigeration Demonstration Center, and the Electromagnetic Field & Power Quality Center. CTAC's 110-seat Executive Conference Center is used for workshops and seminars.

AGTAC offers valuable environmentally friendly, energy-

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efficient and cost-competitive solutions to the agricultural community. This 24,000 square-foot facility on a 10-acre site is a companion to CTAC and is located in the heart of one of the most productive agricultural regions in the world - the San Joaquin Valley. The facility has several distinct product and technology centers including the: Business Resource Center; Exhibit Hall; Lighting Products Center; 200-seat Learning Center; Office Technologies Center; 5,000 square foot Annex; Exhibit Center; and an Outdoor Demonstration Grounds.

At AGTAC, a 3.5-acre outdoor demonstration area is a microcosm of agricultural crops grown within the Central Valley and displays a variety of working pumps, water conserving irrigation systems, and other energy-efficient technologies

for outdoor use in landscape, row crops, vineyards, trees and other farming applications. Inside the Center are permanent and short-term displays on energy-efficient technologies including: electric motors; pumping equipment; heating, ventilating and air conditioning (HVAC); lighting; and other innovative products and services.

AGTAC's informational education program and service offerings primarily focus on agricultural customers; however, offerings also are available to industrial, commercial, and residential customers. AGTAC offers farmers, growers, dairymen, food processors, and businesses a large portfolio of programs and services that can help them save money on their energy bills and make more informed decisions about energy use, equipment purchases,

and production processes. In addition, a variety of business and community meetings are held at AGTAC. By holding these meetings, AGTAC connects customers to energy efficiency ideas, technologies, and solutions.

Energy Center specialists offer seminars and consultations in the areas of energy efficiency, lighting applications, irrigation, air conditioning, pumping, motor technologies and industrial processes. Video-conference technology provides the centers' visitors with the opportunity to take advantage of seminars, lectures, and demonstrations offered globally; and seminars offered at CTAC can be seen at AGTAC without leaving the San Joaquin Valley.

The Outreach Program supports other SCE programs and services through

promotion at trade shows and community events.

INFORMATIONAL SERVICES

SCE's Informational Services Program delivers vital energy efficiency information to agricultural, commercial and industrial customers of all sizes. The program is designed to produce a permanent change in the way nonresidential customers make decisions about equipment purchases and operational practices. The program's message is delivered by SCE representatives, using a variety of mediums, to ensure awareness of Energy Center workshops, energy efficiency programs, and the cost benefit of energy-efficient technologies. The program helps nonresidential customers overcome the information barrier to ultimately make informed decisions regarding

energy-efficient equipment purchases and operational practices. Through this component of the Statewide Energy Efficiency Education and Training Program, new programs and service opportunities are introduced to customers, including other energy efficiency programs such as those offered by the State of California.

TECHNOLOGY TEST CENTERS (TTC)

Technology Test Centers (TTC) are comprised of the RTTC and SCLTC. They focus on end-use technologies where there are significant opportunities for energy efficiency improvements. These areas include refrigeration, lighting, and HVAC systems. Each of these technologies represents significant electrical loads and the activities performed at the Test Centers will provide

customers and practitioners with impartial and reliable performance information.

REFRIGERATION AND THERMAL TESTING CENTER (RTTC)

The RTTC was established in 1996 and since its inception; this state-of-the-art 4,000 square-foot testing facility has conducted numerous energy efficiency technical evaluation projects. The mission of the RTTC is to promote the application of energy-efficient refrigeration and HVAC technologies by performing realistic and impartial laboratory tests

SOUTHERN CALIFORNIA LIGHTING TECHNOLOGY CENTER (SCLTC)

The SCLTC was established in December of 2004 in partnership with the California Lighting Technology Center

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(CLTC) located at the University of California, Davis. SCLTC's purpose is to assess emerging lighting and lighting controls technology and to investigate potential lighting systems integration.

2005 Results and Achievements

ENERGY CENTERS/ OUTREACH

In 2005, 445 customers attended the 180 energy efficiency seminars held at CTAC and AGTAC. Of these energy efficiency seminars, 72 were directed to hard-to-reach (HTR) customer segments. The Outreach Program completed 112 events.

A total of 75 joint utility classes were completed in 2005. As part of this effort, the Energy Centers worked with two Community Colleges (Crafton Hills and Victor Valley) to provide a series of Energy Efficiency workshops featuring

educational training and materials on HVAC and Lighting.

In addition, the Energy Centers provided 445 energy efficiency consultations and 909 equipment demonstrations to a total of 2,192 customers.

New classes developed at the Centers in 2005 include:

- Spanish version of Basic HVAC
- HVAC Testing
- Energy Efficiency (EE) & Diagnostics Strategies for Packaged Rooftop Air Conditioners
- Lighting for Foodservice
- EE in Cook, Chill & Retherm Technologies
- 2005 Title 24
- Wet Cleaning
- Introduction to Life-Cycle Costing
- Daylighting Controls
- 2005 Title 24 Nonresidential Acceptance Requirements – Mechanical Designer Training

- Fundamentals of Electricity and Energy Efficiency
- Well Rehabilitation Irrigation and Scheduling
- On-Farm SCADA
- Energy Efficiency Treatment of Dairy Lagoons and Wastewater Management
- Electronic Flow Measurement

CTAC made the following additions or improvements:

- Purchased a table-top daylighting controls simulator. This simulator is capable of demonstrating the performance of skylights, side lighting and electric lighting systems in a building space. The simulator was used to support seminars, training and technical consultations.
- Installed a 5-Ton Commercial Package Air Conditioner Exhibit for use in seminars and

training classes. The unit features:

- High Efficiency (SEER rating of 14.2 & EER rating of 12.0)
- Environmentally friendly R410A refrigerant
- Economizer section for additional energy savings
- High performance commercial grade belt drive blower
- Installed new High/Low Bay Induction lamp fixtures in the Industrial Center. Each fixture has a 120-, 80-, and 40-watt induction lamp that will operate with the existing daylight harvesting system in the Center. These induction lamp/fixtures replaced the existing compact fluorescent lamp/fixtures and provide superior color and efficacy.
- The Lighting Center underwent an upgrade that feature new

interactive lighting displays and text panels that explain lighting technologies and applications for residential and business customers.

- New ceiling lighting systems were installed in the Lighting Center featuring suspended direct/indirect fixtures with T-5 lamps, recessed direct/indirect, recessed direct fixtures with parabolic diffusers, and recessed compact fluorescent down lights. Commercial wall lighting displays highlight the latest in technology for Linear fluorescent and ballast systems, compact fluorescent systems, and High Intensity Discharge (HID) lamp and ballast systems.
- Replacing the outdated Home Efficiency Center, a new Products

and Services area provides a display venue for other SCE energy efficiency programs and services.

AGTAC made the following additions or improvements:

- Vibration monitors were added to a 25-HP Low Pressure Exhibit
- In the Lighting Design Center, refurbished and upgraded Trilon units that display lighting technologies. The HID display was upgraded to match CTAC, promoting 12 types of lamps and ballasts. The room demonstrates the latest technologies in HID, induction, and compact fluorescents.
- A Lutron Digital Microwatt lighting controls system was installed in the ICF building. The computer-based system includes features such as load

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- shedding, maintenance tracking, daylighting control, and kW/kWh monitoring. It also interfaces with the Solatube skylights to turn natural lighting off for audio video scenes and demonstration.
- Also in the ICF building, a Compressed Air Display was completed. The display demonstrates advanced technologies for energy efficiency in the compressed air market. It features two 50-HP compressors, a thermal mass air drying system, efficient distribution piping, a power meter and an air flow meter. The efficiency of three control methods can be compared: Modulation, Load-Unload, and Variable Speed.
 - Graphics at AGTAC were reviewed and updated as needed to create a consistent look between CTAC and AGTAC. This joint effort included information banners with time sensitive program messages and hallway and facility signage in support of programs and services offered by SCE.
 - Completed construction of a 3,200-square foot Exhibit (ICF) Building capital project which will be primarily utilized for showcase and demonstration of energy-related technologies.
 - Completed a Ground Source Heat Pump Exhibit which demonstrates the process of using the thermal mass of the ground to exchange heat from a building, as an efficient method to heat and cool. The exhibit demonstrates three working systems compared to a standard heat pump system which are vertical bore method, horizontal trench method and direct refrigeration method.
 - Installed a 5-Ton Commercial Package Air Conditioner Exhibit for use in seminars and training classes. The unit features:
 - High Efficiency (SEER rating of 14.2 & EER rating of 12.0)
 - Environmentally friendly R410A refrigerant
 - Economizer section for additional energy savings
 - High performance commercial grade belt drive blower.

INFORMATIONAL SERVICES

The Information Services program delivered energy efficiency information to nonresidential customers by SCE's Major Accounts Division Representatives.

Energy efficiency 2005 contact target: 14,407 Results: 50,150 energy efficiency contacts with energy efficiency message delivered by SCE.

TTC

In 2005, the TTC continued leveraging its core competencies in technology testing, and educational and training functions. The TTC focused primarily on activities that helped remove concerns about technologies'

performance uncertainties as market barriers for customers interested in installing energy-efficient equipment in their businesses.

The TTC activities can be characterized in the following manner:

- Training seminars at energy centers. Some examples are as follows:
 - April 2005 – Refrigeration and Food Service Forum
 - October 2005 – Refrigeration for Grocery Stores and Deli
 - October 2005- Lighting Fixture Maintenance Seminar
 - December 2005-HID Lighting Seminar.

- End-use technology testing and customer linkage activities include:
 - Offered Heliodon services to architects and other SCE customers to assist in modeling daylighting design for new construction
 - Assessment of unique kitchen compact fluorescent light (CFL) downlight configuration
 - Informed school districts on the performance characteristics of energy-efficient opportunities for closed and glass front vending machines.

Crosscutting Energy Efficiency Incentives

INNOVATIVE DESIGNS FOR ENERGY EFFICIENCY ACTIVITIES (IDEEA)

Program Description

The Innovative Designs for Energy Efficiency Activities (IDEEA) Program solicits bids for innovative and cost-effective energy efficiency program proposals across all market and customer segments. Winning bidders receive portions of an \$11.1 million allocation to develop and implement their programs.

The program's focus is on different marketing or delivery methods, different market segments, and/or different technologies from those offered in the SCE portfolio. Winning proposals are those that fill possible gaps in the overall portfolio of programs offered by SCE or offer new practices not incorporated in

similar programs in the portfolio.

2005 Results and Achievements

SCE conducted a competitive solicitation for IDEEA program design and implementation contractors in two rounds. As a result, 13 IDEEA component programs were selected for implementation.

1. Evaporative Cooling Repair, Upgrades and Innovations for Qualifying SCE Mobile Home Customers Program
2. "80 PLUS" - Energy-efficient Desktop Computers and Servers Program
3. Miniature Cold Cathode Hardware Incentive Program
4. Agricultural Ventilation Program

5. Energy Services for Oil Production Program
6. Community College District Retrofit Program
7. AirCare Plus Program
8. New Technology for Multifamily HVAC Controls Program
9. Air Conditioning Energy Hog Roundup Program
10. Wireless Dimmable T-5 Lighting Program
11. Cool Bill Program
12. Customized Incentives for Refrigerated Warehouse Industry Program
13. Comprehensive Store Energy Efficiency Delivery Program

Effective December 31, 2005, the cumulative and committed energy savings results for the 2004-2005 IDEEA Program amounted to

113% of goal, or approximately 60,510 MWh. By June 30, 2006, all related program work including completion of installations and final invoicing will be finished.

1. Evaporative Cooling Repair, Upgrades and Innovations for Qualifying SCE Mobile Home Customers Program (UCONS)

The concept is to repair and service evaporative coolers (E/C) in SCE customer mobile homes. This program will also evaluate enhanced E/C measures to provide even greater program benefits. The approach is to use only proven measures and proven technologies in maintaining a high level of utility and customer satisfaction. The service work including labor and materials are provided to the customer at no cost.

2. 80 Plus - Energy Efficient Desktop Computers and Servers Program (Ecos Consulting)

80 Plus is an upstream buy-down program that enlists utilities and computer manufacturers to get more energy-efficient power supplies into desktop computers and desktop-derived servers (these are smaller servers with similar components, including power supplies, to desktop computers. This program does not include energy efficient power supplies for monitors or printers). The 80 Plus Program provides SCE the uncommon opportunity to actively influence the next ENERGY STAR[®] desktop computer specification. The 80 Plus Program presents significant potential for energy savings over the long run, with a very cost-effective short-term program. The 80 Plus Program is built around a very simple

concept: Recognize and reward manufacturers for installing a power supply in any desktop computer or desktop-derived server that meets the following specifications: 80 percent or greater efficiency at 20 percent, 50 percent and 100 percent of rated load, and true power factor of 0.9 or greater at 100 percent load. The strategy of the 80 Plus Program is to overcome the price barrier of premium power supplies while educating customers about the benefits of efficient power supplies to maintain market demand. The program will offer a \$5 manufacturer buy-down for each desktop computer and \$10 for each desktop-derived server containing a qualifying power supply that is sold in the SCE service territory. Each efficient desktop computer represents 85 kWh savings per year over four years and a demand reduction of 16 watts

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per unit. Each efficient desktop-derived server represents 301 kWh savings per year, with a four-year life and a demand reduction of 34 watts per unit.

3. Miniature Cold Cathode Hardware Incentive Program (Energy Controls and Concepts)

The purpose of the Cold Cathode Program is to spark interest and motivate investment in a new emerging technology in the energy efficient lighting industry, the cold cathode lamp. Customers will be identified, pre-qualified, and scheduled for audit. The facility(s) will be audited, and afterwards they will receive a proposal for their participation in the program, and educated about cold cathode lighting, and potential applications for cold cathode lighting in their facility. The financial incentive will be in the form of a rebate to be paid to the

customer following the completed installation of the cold cathode lamps.

4. Agricultural Ventilation Program (EnSave)

EnSave will promote the installation of energy-efficient fans and high-volume, low-speed (HVLS) fans through cash incentives. EnSave and equipment dealers will contact producers (dairy farms for the most part) to inform them of program offerings. The HVLS fans are a relatively new technology that has not yet been promoted to a wide market. EnSave intends to help create a market for this energy-efficient measure through the program. By working with equipment dealers and rural agricultural customers, EnSave's program model will support rural economic development and utilize local relationships and networks. EnSave

will also provide program information to the California Department of Agriculture, the California Farm Bureau, the California chapter of the National Farmers Organization, and other California trade associations for agricultural producers for the purpose of education and program reinforcement. EnSave will also inform SCE's call centers.

5. Energy Services for Oil Production Program (Global Energy Partners)

The California oil production industry is composed of two very different groups – the major oil producers and the smaller independent producers. The major producers have the staff, technical resources, and financial capabilities to implement energy efficiency projects. The independent small- to medium- oil producers (typically customers on a GS-2

rate) represent a market that has not participated in energy efficiency programs and has significant market barriers to participation. This target market needs program incentives and assistance to implement energy conservation measures and overcome the market barriers in order to control costs and remain competitive. The main objective of the program is to assist these producers to become more energy-efficient and productive. A financial incentive will be paid to the customer following the completed installation of the energy efficient hardware.

6. Community College District Retrofit Program (Intergy)

Community Colleges in California are an educated and sophisticated customer base that understands the benefits of implementing energy

efficiency projects. Significant energy efficiency opportunities exist in these campuses. The facility managers at the Community colleges are aware of the value of conserving energy and dedicated to fulfilling the objectives of this and other similar programs. However, due to recent budget cuts in the Community College budgets, many of these projects have not been implemented. The Los Angeles Community College District Program (LACCDP) and the San Bernardino Community College District Program (SBCCDP) are two unique and innovative program elements that accomplish immediate long-term peak energy and demand savings, and establish a permanent framework for a comprehensive, long-term, energy management program at the Community

Colleges in California. LACCDP, SBCCD, and Intergy fully understand the importance of setting up the appropriate infrastructure for implementing similar projects. Both LACCDP and SBCCDP have the full support of the respective District Facility Planning Directors - the District Facility Planning teams are an integral part of the implementation infrastructure. The financial incentive paid to the customer after completed installations is designed to offset the labor cost of the installation.

7. AirCare Plus Program (PECI)

PECI will deliver the successful AirCare Plus Advanced HVAC Program in SCE's service territory. AirCare Plus is a state-of-the-art program for small rooftop HVAC units on light commercial buildings. The program introduces an off-the-shelf hand-

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held diagnostic computer and uses the latest tools to inspect, diagnose, and make retrofits resulting in persistent energy savings, reduced downtime, increased comfort, and increased service life. AirCare Plus integrates a package of small hardware retrofits and mechanical adjustments into the standard HVAC service and maintenance model to provide a cost-effective delivery solution for HVAC hardware retrofits for 3 - 17.5 ton units. The diagnostic work is provided to the customer at no charge, and a small incentive is offered for the upgrade of the roof-top air conditioner unit.

8. New Technology for Multifamily HVAC Controls Program (RMC)

This program is designed to reduce HVAC energy consumption in multifamily housing in inland communities

through new, wireless occupancy sensing technology. By using multiple occupancy sensors through an apartment that communicate with a central "brain", air conditioners and electric heat pumps can be turned off or the thermostat allowed to float to a higher set point, thus reducing operation during periods when an apartment is unoccupied, which frequently occurs during peak demand periods. The energy savings provided by this technology occurs without occupant involvement and will accommodate the residents' daily schedule changes. As a direct installation program, this program is offered at no cost to the owner or tenant. This project proposes to install this new HVAC control technology into 1000 units, with an anticipated savings of 1.9 MWh for the entire project.

9. Air Conditioning (A/C) Energy Hog

(Conservation Services Group)

The purpose of the A/C Energy Hog Roundup program is to generate significant energy savings and produce dramatic summer peak demand reduction through improving central air conditioning efficiency in homes in high cooling hour areas of SCE's service territory. The primary goal will be to identify particularly inefficient central air conditioning (a/c) systems ("energy hogs") and to induce their early retirement and replacement with efficient equipment. The program will also tune-up (retrocommission) a significant number of central a/c units that do not require early retirement. The tune-ups will focus on adjusting the refrigerant charge and the airflow across the coils to bring each central a/c unit into the manufacturer's specifications for its performance. This approach has been

shown to produce considerable and persistent savings. Two complementary marketing strategies are utilized to reach and motivate customers. The first strategy is a broad community mobilization campaign in each targeted community. This will highlight inefficient air conditioning load as a personal and societal economic and environmental problem and motivate residential customers to do something about it. Customers who choose to have an air conditioning tune-up will also receive a compact fluorescent (CFL) 6-pack both to induce and reward their participation and as a way for the program to generate additional savings. The second strategy is a data mining and building science analysis of electric usage records to identify residential customers with a high probability of having very inefficient central air conditioning

equipment. A personal contact shall be made to these customers to offer the services, including, if their air conditioning system warrants, a \$1,000 rebate to replace it with a highly efficient unit.

**10. EnergySolve
Demand
Response
(EnergySolve)**

The program involves installing a new technology, Westinghouse's 2-way wireless dimmable energy efficient T-5 fluorescent lighting unit that snaps into the fixture without the need to access the ballast-- as a retrofit for existing T12 lamps in small commercial facilities at no up front cost to the customer; and to use EnergySolve LLC's Utility Bill Analysis and Reporting ("UBAR") system to measure precisely the energy efficiency savings. The energy savings will be tracked through wireless communication from the T-5 fixture

tranceivers located in the dimmable fixtures, to a cellular base station to the internet, and then to the network operating center NOC. The information as to levels of dimmability by zone will be sent from the NOC to the UBAR system every twenty-four hours. The program accomplishments will be: a) energy efficiency savings of at least 50% by replacing T-12s with T-5s in 40 to 60 small commercial facilities; b) demand savings both from the energy efficiency savings during peak hours and from demand response through dimming of the T-5 lights to a total potential reduction of 75% of the existing demand; and c) precise measurement at 15-minute intervals of energy efficiency savings through the use of EnergySolve's web-based UBAR system.

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11. Refrigerated Warehouse Program (Onsite Energy Corporation)

The goal of this program is to reduce energy usage by almost 4 million kWh within the SCE service territory. Onsite will work directly with customers in the refrigerated warehouse market segment to implement energy efficiency projects with a focus on both demand reduction and energy savings. Onsite will focus primarily on the following technologies:

- Energy efficient freezer and cooler doors, to reduce refrigeration system loads
- Refrigeration controls to optimize refrigeration system operation
- Lighting retrofits involving new T-5 fluorescent fixtures that can operate at very low temperatures

(customized fluorescent fixtures) and associated lighting controls (occupancy sensors)

- Automatic non-condensable purgers
- Variable Frequency Drives on Process Pumps and Fans

Onsite will work with a customized incentive structure based on kWh reduction to provide sufficient motivation to customers to reduce energy usage with these systems. The hardware incentive amount is \$0.16 per kWh for appropriate measures, however, Onsite will not fund the cost of construction as a separate item. Onsite will contact applicable customers via mailings, trade shows, networking with equipment vendors, and then directly by telephone and follow-up meetings. Onsite's engineers will then qualify prospective customers through a

standard questionnaire prior to scheduling a walk-through audit of their facility. Following the audit, Onsite will present potential projects to the customer and propose an investment grade audit, funded by the customer not by SCE, to establish firm costs, savings and incentives associated with the most viable projects. Upon the customer's acceptance and authorization to proceed, Onsite will either implement turnkey projects for customers or work directly with them as they implement projects. Onsite will install monitoring equipment and applicable metering equipment prior to installation of energy savings equipment and then will continue to monitor the energy usage post-installation.

**12. Cool Bill Program
(Honeywell DMC Services)**

This program targets small to mid size lodging facilities and is a turnkey retrofit program utilizing two innovative approaches:

- Direct installation of power controllers and motion and infrared occupancy sensors for package terminal air conditioning systems (PTACs) and
- Contractor incentives for the replacement of old and inefficient PTAC units

The power controller and occupancy sensor work together to sense the presence or absence of people in the hotel room and, if unoccupied, will reduce the energy consumption on the PTAC. The power

controllers and occupancy sensors will be offered 100% free to the small to medium sized motel owner. The program will also offer an incentive for the replacement of pre-1993 PTAC units. Program HVAC contractors are paid an incentive of \$575 - \$650 to replace the old units. This will significantly buy down the cost of the equipment and installation by approximately 50%. The customer will pay the contractor the balance of the cost for the PTAC unit.

13. Convenience Store Energy Efficiency Delivery (Quantum Consulting)

The CSEED Program is a hardware/ incentive program that performs direct installation of hardware measures in the small

nonresidential convenience store market segment within SCE's service territory. The CSEED Program is a unique, program that combines prepackaged, pre-engineered measures, direct installation, customized incentives and 100% project financing to overcome market barriers in this underserved, hard to reach market segment. While energy efficiency programs, such as Express Efficiency, are available to this segment, participation has been limited. CSEED will recommend SCE programs where they apply (e.g. HVAC retrofit) in an attempt to leverage access to this market. The CSEED Program will achieve 3,048,662 annual kWh of energy savings and 175 kW of peak demand savings.

Crosscutting Upstream Programs

EMERGING TECHNOLOGIES

Program Description

The Emerging Technologies (ET) program is a statewide information-only program that seeks to accelerate the introduction of energy-efficient technologies, applications, and analytical tools that are not widely adopted in California. The program consists of two parts: Demonstration & Information Transfer activities, and the Emerging Technologies Coordinating Council (ETCC). The Demonstration & Information Transfer portion of the program focuses on near-commercial applications with significant market opportunities, and commercial energy-efficient applications with low market

penetration. The ETCC is a statewide information exchange and coordination effort between the investor owned utilities (IOU), and the California Energy Commission's Public Interest Energy Research (PIER) program.

The Demonstration & Information Transfer component introduces new energy efficient applications to the market through ET Application Assessment projects. The assessments may include feasibility studies, simulation analyses, field demonstrations, controlled environment tests, commercial product development, design methodologies and tool development. The assessments may take up to four years to complete. Demonstration

projects, conducted at either customer sites or in controlled environments, measure, verify, and document the potential energy savings of specific applications in different market segments, helping to reduce the market barriers to their wider acceptance.

Information Transfer efforts disseminate project results, and are customized to the targeted markets.

The ETCC was founded in 2000, and serves as a statewide information exchange and coordination effort between the IOUs and the PIER program. The ETCC coordination effort ensures an effective linkage among entities involved in either the development or delivery of new energy-efficient

technologies in California. The ETCC has developed a new website at www.etcc-ca.com. The database of ET applications and projects has been transferred to the new website. The old website at www.ca-etcc.com will be maintained through June 2006 so that visitors can be directed to the new website.

2005 Results and Achievements

EMERGING TECHNOLOGY APPLICATION ASSESSMENTS

A set of new selection criteria has been established by the joint effort of the ET program managers of various IOUs. The Emerging Technology Application Assessments require program staff to remain informed of potential emerging technology applications from a variety of sources including the CEC's PIER program, NASA, E-Source, ASHRAE engineers, national laboratories,

universities, journals, manufacturers and vendors. ET assessments may take place at either viable customer field sites, i.e., a customer willing to innovate, or they may be pursued through laboratory testing, simulation modeling and studies, in-house demonstrations, or a combination of these approaches. Staff project managers formulate the project plans and work with utility account representatives to negotiate customer agreements, if required. At times, a single customer site may host several assessments if more than one emerging technology application was included in the planned project for the site. Once project results become available, targeted information transfer activities begin.

Through the four ETCC meetings held throughout the year, several viable emerging technology

applications from the PIER program were identified as potential candidates for assessment projects. Additional opportunities were identified through other sources such as manufacturers. By the end of 2005, SCE had committed a total of 14 ET application assessment projects using either customer sites or SCE facilities. The following is a list of the 14 assessment projects underway:

- In coordination with the other utilities' ET programs through the ETCC, SCE initiated the following two assessments -- Hybrid Light Emitting Diode (LED), Pathway Lights and Bi-Level Parking Lot Lighting Control -- to build upon past PIER work.
- Customer interest in energy efficiency opportunities for the commercial market permitted SCE to initiate nine

Crosscutting Program Area

- ET application assessments including projects which assessed the value of these technologies: Optic Fiber Lighting for Refrigerated Cases, Professional Wet Cleaning, Petroleum Based Dry Cleaning, Carbon Dioxide Based Dry Cleaning, Silicone Based Dry Cleaning, Refrigerant Compressor with Magnetic Bearings, Desuperheater for Refrigeration Systems, LED Street Lights, and LED Airport Taxiway Lights.
- SCE also initiated three ET application assessments in industrial markets: Variable Speed Dust Collection System, Compressed Air Dryer Efficiency Index, and Energy-

Efficiency Initiative for Pumps and Fans.

To transfer information to ratepayers in Southern California, Design and Engineering Services collaborated with SCE's CTAC and AGTAC in 17 of their seminars. Those seminars included information on the latest technologies that are under development.

EMERGING TECHNOLOGY DATABASE UPDATES

The ET database updates began with a review of the existing ET database. During the year, both the IOUs and the CEC updated existing records from the previous database and added new technologies, applications, and project information. SCE staff worked with

the new ETCC web developer to have the commercial readiness of emerging technology applications identified in the new ET database. Specifically, ET applications were characterized to be in one of the following stages: Basic Research, Applied Research, Development, Commercial Introduction, Commercial Growth, Commercial Maturity, or Commercial Decline. It is important to note that the ET database was not intended as a program and project tracking system, but as a means to follow product readiness, facilitate the exchange of information, and as a comprehensive list of energy-efficient emerging technologies originating from a variety of sources.

Crosscutting Upstream Programs

STATEWIDE CODES AND STANDARDS

Program Description

The Codes & Standards (C&S) program directs initiatives that will enhance building and appliance standards to codify cost-effective, reliable and verifiable demand-side measures in support of maximizing portfolio energy and demand savings. The statewide C&S program is in the process of transitioning from an information-only program to a resource acquisition oriented program that advocates upgrades and enhancements in energy efficiency standards and codes which targets all market segments. Program activities are conducted over long-term code upgrade cycles. A normal building code cycle requires four years of

continuous support. Codes and Standards Enhancement (CASE) studies for energy efficiency improvements are performed for promising design practices and technologies and are presented to standards and code-setting bodies. The C&S program offers the state expert testimony to promote standards that approach best practices in energy efficiency, which becomes critically important when dissenting and occasionally conflicting opinions are presented during public workshops and the hearings process. Following the adoption of new C&S, the program supports their implementation through activities designed to ensure compliance that currently include

training. The program also monitors and intervenes as appropriate, in proceedings outside of California that potentially impact state standards. The US Department of Energy conducts federal appliance standards proceedings, for example, that preempt California state standards.

The C&S program activities have inherent synergies with other programs, such as the ET program, energy efficiency equipment rebates, and energy audits, through the advocacy of specific energy efficiency measures. The 2005 C&S efforts are conducted within the long-term code upgrade cycles. For example, the California building

Crosscutting Program Area

code cycles are typically three years while appliance efficiency improvements are conducted on an ad hoc basis.

Historically the training activities associated with this program were identified separately as a "Local Program." This is no longer the case but the goal for training remains imbedded in the overall "Statewide" program. The purpose is to help bring about cost-effective upgrades to the State's energy-related codes and standards that will benefit California as a whole. The CEC has concluded the 2005/2008-revision process for both the Title 24 and Title 20 energy standards. The revised Title 24 standards went into effect in October, 2005. The training component of the Statewide C&S program supports the CEC 2005/2008 standard revision process for both

California Title 20 and Title 24 by educating building officials, engineers, architects, and other building professionals to comply with the latest code changes. For 2005 the goal was to conduct four training sessions. As outlined below, SCE exceeded this objective for 2005.

2005 Results and Achievements

Throughout 2005, the C&S technical staff participated in statewide team meetings, CEC workshops for the 2005/2008 Title 24 code revision cycle for both the Residential and Nonresidential Building Energy Efficiency Standards, CEC public workshops for Time Dependent Valuation Life (TDV) Cycle Costing and Outdoor Lighting Standards. Also, the program's technical staff participated in meetings of organizations that impact California building and appliance standards,

including: American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE), Cool Roof Rating Council (CRRC), and the National Fenestration Rating Council (NFRC).

The targets for this program area were established at six new CASE studies initiated in 2005. SCE exceeded that goal with 10 CASE studies. As part of the process of identifying likely candidates for study, SCE first assembled a long list of potential CASE study projects for review. Each was presented by the initiator of the study idea to SCE's C&S team for a critical review. Members of the team included supervision, engineers and architects from SCE's Design and Engineering Services technical staff. The member of the technical staff proposing the CASE study actively promoted the project based on its fundamental benefit

to the overall program. As part of the group dynamics, the CASE study presentation discussions encompassed issues such as the long-term potential for technology adoption through the standards, market size, savings potential and cost. A series of meetings was required to identify the final portfolio of case studies.

For the 2005 program year, the following ten CASE studies were initiated and represent SCE's CASE study portfolio. The duration of each of the studies varies depending upon the nature and complexity of the work, but all will be completed within the required three-year project limit authorized for this program year.

- Single Zone Stage Volume - Phase 4 - Monitoring/Report
- Compressed Air Dryer Phase 2

- Closed Front Vending Machine (Phase III)
- Glass Front Vending Machine (Phase II)
- Commercial Kitchen Ventilation Design Guide 4: Selecting Exhaust Fans
- Commercial Kitchen Ventilation Design Guide 3: Integrating Ventilation with Building HVAC
- Daylighting Metrics Scoping Study
- Controlling Exterior Signs
- Performance Evaluation of Standard and High Efficiency Ice Machines
- Glazing Performance Modeling - Phase I

As previously indicated, training has been integrated into the 2004/2005 Statewide C&S Program with a goal of four seminars for 2004. Five seminars were conducted in 2004. The following is

a description of each of the five events:

1. **Treatment of Dairy Lagoons and Wastewater Mgmt at AgTAC (Seminar)/ Dairy Energy Management Seminar**
A Dairy Energy Management Seminar was conducted on November 9, 2005, in Tulare at SCE's AgTAC facility. Approximately 20 people attended the seminar. The seminar drew dairy operators, dairy equipment service providers, researchers, and others. The seminar presented several topics that Design & Engineering Services has worked on recently: dairy energy guidelines, the handling and treatment of dairy manure in California. Other presentations were on results of long day lighting tests,

Crosscutting Program Area

dairy energy utilization indices, and examples of wasting energy.

2. Acceptance

Testing Requirements in Title 24

This training class, conducted on December 9, 2005, at CTAC was geared to building designers to make them aware of issues associated with Title 24 acceptance testing. Designers are required to specify on the Title 24 compliance documentation which tests must be performed. This includes design considerations to eliminate some of the tests or make the tests easier to conduct and describe the requirements for documenting the information required by plan check.

3. HID Lighting

This class, conducted on

December 1, 2005, at SCE's CTAC facility in Irwindale, provided valuable information regarding the application of HID lighting systems and its relevance to Title 24.

Commercial and industrial HID lighting issues reviewed included indoor high/low-bay and outdoor parking, security, façade and landscaping applications. CTAC's Lighting Center features demonstrations and a pulse-start metal halide lamp and ballast, and ceramic metal halide with dimming controls. The workshop included a field trip to see HID in installations. Forty six professionals attended this class.

4. Duct Testing for Change-Outs (Two Sessions)

This training workshop was conducted at CTAC for the purpose of educating residential and commercial HVAC contractors of the latest requirements of Title 24 for duct leakage compliance requirements. The sessions were conducted in conjunction with Institute of Heating and Air Conditioning Industries, Inc. (IHACI) for their local members and were part of a statewide effort which included separate training classes conducted by PG&E, SDG&E and SoCalGas. The two sessions conducted by SCE were:

- Valencia, August 4, 2005 (approximately 30 attendees)
- CTAC, August 11, 2005 (approximately 40 attendees)

Crosscutting Upstream Programs

LOCAL GOVERNMENT INITIATIVE

Program Description

SCE's Local Government Initiative (LGI) educates and informs community leaders, local government planners, building officials, builders, building owners, small business owners, and consumers about the economic benefits of energy efficiency in the areas of residential and nonresidential new construction, as well as small business, and residential retrofit and surveys.

Through partnering with local governments and cities, (collectively referred to as Jurisdictions), SCE's LGI facilitates the offering from a statewide perspective, local energy efficiency information and education, hardware rebates, and increased energy efficiency

opportunities using a variety of intervention strategies. The primary target audiences for this initiative are the various departments/offices within the local governments such as: Building Departments, Community Development/ Outreach, Economic Development, and Housing Authorities. The secondary audience and the ultimate benefactors of this initiative include: SCE's business owners, residential customers, existing single and multifamily residential customers, and residential and small commercial builders.

2005 Results and Achievements

The LGI program concentrated on re-enrolling 16

jurisdictions to participate in the 2005 program, or half of the 2004-2005 goal of 32. SCE re-enrolled 15 jurisdictions in 2005, but met the two-year goal by re-enrolling 33 jurisdictions in 2004-2005. A second goal was to enroll ten new HTR jurisdictions in 2004-2005. SCE enrolled 9 new HTR jurisdictions in 2005 and a total of 10 new HTR jurisdictions in the 2004-2005 program period.

A one-page LGI brochure, luggage tags, and a new re-enrollment form were produced in 2004. The new form offers a checklist of energy efficiency programs and services on which they would like more information. When the enrollment form is received, SCE sends out a package of the requested information.

Crosscutting Program Area

In addition, LGI maintained contact with LGI communities and offered on-going support including organizing of community events, development of energy related resolutions and development of energy management strategies including responding to the Governor's Green Building Initiative.

SCE, along with the Building Industry Institute (BII),

continued the training component in the 2005 program year.

Building Energy Code Training (BECT) sessions were conducted for local building officials and contractors on Title 24 requirements.

Information was also provided on how SCE and the BII can support the cities with compliance methods, inspections and education. A component of this training also included an update of the new

Title 24 standards which went into effect in October of 2005.

In addition to working with the cities and community events, LGI continued to nurture important relationships with the League of California Cities and International Code Council (ICC) that provided access to the market actors who were instrumental in getting the word out about energy efficiency.

Table 5.1
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
CROSSCUTTING PROGRAM AREA

	2005 Budget	[1,2,3]	2005 Recorded	[1,2,3,4]	2004-05 Budget	[1,3]	2004-05 Recorded	[1,2,3,5]
Information	\$	4,804,372	\$	4,889,252	\$	9,608,744	\$	9,712,625
EMS	-		-					
EEI								
SPCs	-		-					
Rebates	-		-					
Loans	-		-					
Other	6,264,345		12,796,689		12,528,690		12,918,219	
Upstream Programs								
Information	3,500,000		3,426,370		7,000,000		4,775,539	
Financial Assistance	-		-		-		-	
Crosscutting Total	\$ 14,568,717		\$ 21,112,312		\$ 29,137,434		\$ 27,406,383	

[1] Includes both PGC and Procurement funded programs.
 [2] IDEEA Solicitation 2005 budgets reflect half of the total contract awarded amount.
 [3] Excludes Shareholder Incentives and Other Costs, as shown in Table TA 2.1.
 [4] All Recorded amounts include payments in 2005 and amounts committed to projects in 2005. Committed amounts may not be fully realized.
 [5] All Recorded amounts include payments in 2004-2005 and amounts committed to projects in 2004-2005, unless otherwise noted. Committed amounts may not be fully realized.

Crosscutting Program Area

Table 5.2
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
CROSSCUTTING PROGRAM AREA

Information	2005	2005	2005	2004-05	2004-05	2004-05	2004-05
	First Year Net Annualized Capacity Savings (MW)	[1,2,3]	First Year Net Annualized Energy Savings (kWh)	First Year Net Annualized Capacity Savings (MW)	[1,2,3]	First Year Net Annualized Energy Savings (kWh)	[1,2,3,4]
EMS	-	-	-	-	-	-	-
EEI	-	-	-	-	-	-	-
SPCs	-	-	-	-	-	-	-
Rebates	-	-	-	-	-	-	-
Loans	-	-	-	-	-	-	-
Other	11.06		665,610,449	11.06		60,510,041	665,610,449
Upstream Programs							
Information	-	-	-	-	-	-	-
Financial Assistance	-	-	-	-	-	-	-
Crosscutting Total	<u>11.06</u>		<u>665,610,449</u>	<u>11.06</u>		<u>60,510,041</u>	<u>665,610,449</u>

[1] Includes both PGC and Procurement funded programs.
 [2] Net Savings reflect Commission-adopted net-to-gross ratios.
 [3] Includes savings from projects both installed in 2005 and committed to projects in 2005. Committed amounts may not be fully realized.
 [4] Includes savings from projects both installed in 2004-2005 and committed to projects in 2004-2005. Committed amounts may not be fully realized.

Table 5.3
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
(Benefit-Cost Ratios)
CROSSCUTTING PROGRAM AREA

	2005 Program Administrator Cost Test	[1,2]	2005 Total Resource Cost Test	[1,2]	2005 Levelized Cost (cents/kWh)	2004-05 Program Administrator Cost Test	[1]	2004-05 Total Resource Cost Test	[1]	2004-05 Levelized Cost (cents/kWh)	[1]
Information	-	-	-	-	-	-	-	-	-	-	-
EMS	-	-	-	-	-	-	-	-	-	-	-
EEl	-	-	-	-	-	-	-	-	-	-	-
SPCs	-	-	-	-	-	-	-	-	-	-	-
Rebates	-	-	-	-	-	-	-	-	-	-	-
Loans	-	-	-	-	-	-	-	-	-	-	-
Other	2.81	-	2.26	-	3.51	2.78	-	2.25	-	3.54	-
Upstream Programs	-	-	-	-	-	-	-	-	-	-	-
Information	-	-	-	-	-	-	-	-	-	-	-
Financial Assistance	-	-	-	-	-	-	-	-	-	-	-
Crosscutting Total	1.68		1.47		5.40	1.21		1.16		6.84	

[1] Includes both PGC and Procurement funded programs.
[2] Includes costs depicted in Table 1A 5.1 - Program Cost Estimates Used for Cost-Effectiveness - Crosscutting Program Area.

Crosscutting Program Area

Table 5.4
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
CROSSCUTTING PROGRAM AREA
(Net Benefits)

	2005 TRC	[1,2]	2004-05 TRC	[1]
Information	\$	(4,995,356)	\$	(9,924,833)
EMS		-		-
EEl				
SPCs		-		-
Rebates		-		-
Loans		-		-
Other		20,049,675		19,928,146
Upstream Programs				
Information		(3,520,502)		(4,963,804)
Financial Assistance		-		-
Crosscutting Total	<u>\$</u>	<u>11,533,817</u>	<u>\$</u>	<u>5,039,509</u>

[1] Includes both PGC and Procurement funded programs.

[2] Includes costs depicted in Table TA 5.1 - Program Cost Estimates Used for Cost-Effectiveness - Crosscutting Program Area.

Market Assessment & Evaluation

Program Description

Market Assessment & Evaluation (MA&E) is the set of activities needed to provide market, program, and product assessment studies and analyses useful to energy efficiency program planners and policy makers. Within this broad category, Evaluation, Measurement & Verification (EM&V) is the subset of activities that: (1) independently assess how and whether energy efficiency programs met their stated goals; (2) use program-specific data and measurements, available secondary data, and appropriate sampling and modeling processes to produce reliable estimates of the energy savings achieved by a program; and (3) assess how well the program operated in terms of effectiveness

and efficiency in meeting program goals.

A table of the status of all studies currently under way is periodically posted on the CALMAC website, www.calmac.org. All completed studies are posted on that website, in the Searchable Database. Summaries of all studies completed in 2005 under SCE management can be found by using the Custom Search function, selecting SCE as implementer, and requesting publication dates from January 1, 2005 to December 31, 2005.

Beginning in 2002, the Commission mandated two types of energy efficiency programs, statewide and local. EM&V studies for local programs are funded from the individual program budgets. However, work on

these studies is summarized here and completed studies have been posted on the CALMAC website.

2005 Results and Achievements

The studies that were worked on during 2005 were begun and funded in 2003 and 2004- 2005. SCE, PG&E and SDG&E/SoCalGas each manage some of the various statewide Market Assessment and Evaluation studies. These studies can be broken down into two subcategories, Overarching Studies and Utility Statewide Program EM&V Studies, and are described in Section A below. EM&V studies of utility local programs form a third category of utility-managed studies. They are funded from the specific program budgets rather than from MA&E budgets

MA&E and Regulatory Oversight

and are described in Section B below.

A. STATEWIDE STUDIES

The utilities filed market assessment and evaluation plans with their 2004-5 program plan filings in September 2003. The CPUC approved a final budget and list of studies for 2004-5 MA&E funding in Decision 04-02-059 in

February 2004, and the utilities filed revised and more detailed study plans on March 17, 2004. The CPUC decided that it would not approve the program plans at that point, but at the point when the selected evaluation consultant for each study provided a detailed research plan. The projects, status, and the lead organization for the statewide MA&E studies

authorized for 2004-5 funding are shown in the following tables. Brief descriptions of these studies and of all earlier studies worked on during 2005 follow the tables. Many of the studies that were initiated or completed during 2005 were authorized and funded in earlier program years. The Program Year (PY) designation identifies the funding year.

2004-2005-FUNDED EM&V PROJECT STATUS

Lead	2004-2005 Project	2005 Year-end Status
OVERARCHING STUDIES		
PG&E	CALMAC Website, Workshops and Meetings	Ongoing
SCE	Evaluation Framework Supplementary Work	Project planning
PG&E	Energy Efficiency Potential Study	Study planning
PG&E	Industrial Energy Use Survey	Study planning
SDG&E/SCG	Residential Lighting & Appliance Saturation & Efficiency	Completed
SCE	Database for Energy Efficiency Resources	Completed
PG&E	Best Practices Database	Underway
SCE	Market Share Tracking Study	In progress
SCE	Nonresidential New Construction Technology Trends	Contractor selection
CEC	Retrofit Upgrade Opportunities Study	Completed
PG&E	Demand Response/Energy Efficiency Interaction Study	Completed

EM&V FOR 2004-5 STATEWIDE PROGRAMS		
Residential Retrofit Programs		
PG&E	Single-Family Rebates and Lighting Programs	Contract Awarded
SDG&E/SCG	Multi-Family Rebates Program	In progress
SCE	Home Energy Efficiency Surveys	In progress
SCE	Refrigerator Recycling Program	In progress
Nonresidential Retrofit Programs		
SCE	Standard Performance Contracting Program	Study planning
PG&E	Express Efficiency/Upstream Motors & HVAC Programs	Study planning
PG&E	Nonresidential On-Site Audits Program	Study planning
PG&E	Building Operator Certification Program	In progress
New Construction Programs		
SCE	Savings By Design Building Efficiency Assessment	Contractor selection
SCE	Savings By Design Market & Program Tracking	In progress
PG&E	Residential New Construction Program	In progress
Cross-Cutting Statewide Programs		
SCE	Education & Training Services	In progress
SCE	Emerging Technologies	Study planning
SCE	Codes & Standards Advocacy	Study planning

OVERARCHING STUDIES

CALMAC Website Maintenance, Workshops, and Meetings

MA&E funding allowed CALMAC to hold several regular meetings during 2005, as well as workshops presenting and soliciting public input on MA&E study results or plans. During 2005, funding for the CALMAC website was used to maintain and enhance its capabilities to

provide information on CALMAC activities and energy efficiency program evaluation studies.

The website project objectives include: (1) keep website information current; (2) maintain upload and listserv systems; (3) identify website issues and repair software to keep site operational; (4) as requested by the CALMAC Website Committee, identify and implement enhancements to the design, structure and

operation of the website; and 5) assure that all relevant reports are being added to the CALMAC Searchable Database. Posting of evaluation reports to the CALMAC Searchable Database upon completion of the study is now a CPUC requirement.

PY2002 Master Evaluation Contract and Evaluation Framework

The master contract for coordination was a 2002-funded project that involved monitoring, providing

MA&E and Regulatory Oversight

advice, and reviewing all of the EM&V studies of 2002 and 2003 energy efficiency programs. In 2005, with all studies of individual programs completed, the final part of this project was completed: a summary study, or meta-evaluation, of all the 2002-2003 EM&V studies. This report summarizes the evaluation methodologies used, assesses strengths and weaknesses, and provides a study-based assessment of program and portfolio cost-effectiveness. It is posted on the CALMAC website.

PY2004-2005 Evaluation Framework Supplementary Work

The start of this project was deferred into late 2005 and the first part of 2006 to allow the work to be done to complement the Commission's work on the development of evaluation protocols. The final scope is being determined by consultation with Energy Division staff.

PY2003 Statewide Energy Savings Potential Study

This project was conducted as three separate studies. Results from these studies will assist policymakers and program planners in designing the most efficient and effective energy efficiency programs and program portfolios for the state. The purposes of this work are to: 1) extend existing research on energy efficiency as a cost-effective resource in an integrated portfolio; 2) prepare action plans highlighting the implications of these studies for program designers and implementers for capturing the forecast savings; 3) continue enhancement and updating of existing studies in the energy efficiency potential series; and 4) develop energy efficiency potential estimates for emerging technologies to complement the existing studies,

which are focused on the retrofit market. The scope of work includes the following activities: collect secondary data to conduct the market potential studies; analyze the data to provide market potential results for different sectors; develop emerging technologies forecasts; prepare action plans; assess cost-effectiveness issues related to the overall program portfolio and/or its constituent parts; hold public workshops as appropriate to obtain public input and disseminate results. The outputs will include: 1) updated market potential studies for each sector, including an overarching summary study; 2) inclusion of emerging technologies in the energy efficiency potential models and studies; 3) action plans for program planners and implementers; and 4) updated analyses and reports pertinent to

portfolio planning and risk mitigation.

PY2004-2005 Industrial Energy Use Survey

The Industrial Energy Use Survey (IEUS) is one of a set of studies (residential, commercial, and industrial saturation surveys) that utilities are required by title 20 of the California Code of Regulations to conduct and provide to the California Energy Commission. The IEUS gathers detailed information from a representative sample of industrial electricity and gas customers about their facility/building characteristics, basic business information, equipment holdings and usage patterns, and energy usage by end use. The purpose of the study is to provide information about the distribution of energy use among types of industrial customers and their end uses of energy. A better understanding of their energy use will inform CEC and utility energy demand

forecasting to ensure adequate energy supplies. The study is traditionally funded with energy efficiency funds because enhanced knowledge of the industrial end-use energy distribution will enable further refinement to estimates of energy efficiency potential and programs for these customers, and optimization of an integrated portfolio of energy system investment needs. The four utilities and the Los Angeles Department of Water and Power formed an IEUS Project Advisory Group, developed an initial scope of work for the study, and conducted a competitive bidding process during 2005. The selected consulting team will develop alternative sample designs and survey approaches in early 2006. The final scope of work will be determined in consultation with the CEC. The study is planned to be completed in 2007.

2004-2005 California Statewide Residential Lighting and Appliance Saturation and Efficiency Study

This study is an update to the 1999-2000 California Statewide Residential Lighting and Appliance Saturation and Efficiency Study. The 1999-2000 study was undertaken to collect baseline efficiency data on the saturation of lighting and major appliances in the residential sector in the state of California. Since that study, there has been a tremendous allocation of energy efficiency funding to the residential sector in the form of technology rebates, information programs and advertisement/public awareness campaigns. In addition, shortly after the study was complete the state was exposed to power outages, utility rate increases, and general consumer uncertainty. As a result of these unpredicted market forces, there was a

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great emphasis put on energy conservation and energy efficiency through public awareness campaigns and programs. To assess the success of the energy efficiency funding and the crisis efforts, and to guide public policy and program planning, this study was conducted as a follow-up study to the widely used and accepted 1999-2000 study. The 1999-2000 study was conducted previous to California's energy crisis. This study is a key update to the effectiveness of those programs and campaigns that were designed to change consumer purchasing practices (e.g., compact fluorescent versus incandescent) and behavior (e.g., thermostat set points) related to energy conservation.

This study provides program planners with the data and tools necessary to understand residential appliance saturation by fuel

type and efficiency, a level of detail not provided by any other California statewide study. Major household equipment and appliances are the focus of the study, including heating and cooling equipment, water heating equipment, refrigerators, freezers, dishwashers, cooking equipment, clothes washers and dryers. The study also assesses saturation of lighting technologies used in the residential sector by gathering data on lamp type and fixture types for each room in the home. Data was collected for the study via on-site surveys for a representative sample of single family and multifamily homes (excluding master metered dwellings). While a report of the key findings is available at the statewide and IOU service level, a web-based database tool (<http://www.calresets.com/>) enable program planners the ability to conduct their own "what-if"

analysis on the lighting and appliance efficiency data.

PY2004-2005 Database For Energy Efficiency Resources (DEER)

The 2004-05 enhancements to the DEER are a continuation from the first phase of updates that were initiated in 2002/03. The 2004-05 DEER project schedule was dictated by the need to have the new data needed for 2006-08 program planning. By the end of first quarter of 2005, updates to the unit energy savings and cost estimates for non-weather sensitive measures were completed. The updates to weather sensitive measure savings and cost data continue to be made available on a prioritized list basis and were completed on schedule in August, 2005. All savings estimates are now being expressed at two levels, if applicable: energy savings when changing from an existing measure to a

new high-efficiency measure, and energy savings created by the choice of a new high-efficiency measure versus a standard code compliant efficiency new measure. Similarly, the cost data are available as both the incremental cost and installed cost. Another important aspect of the DEER update has been to build a searchable web-based data for ease of access and use of the DEER. The database can be directly accessed from a designated webpage on the CPUC website (<http://www.energy.ca.gov/deer/>). The report describing how the databases were updated is also available there.

PY2001 Database For Energy Efficiency Resources (DEER)- Measure Cost Study

In PY2001, the CPUC authorized funds for an update of the portion of DEER that provides the costs of high-efficiency measures promoted by energy efficiency programs and of their

standard-efficiency alternatives. These costs are used in cost-effectiveness analysis and in developing appropriate rebate levels for specific efficiency measures. The CEC was to conduct this study. Due to delays in funding approval and the CEC's ultimate loss of ability to direct a contract award without competitive bidding, the CEC was unable to complete the study. The funds reverted to the utilities, and the study was initiated in Fall 2004, under the management of PG&E. The study was completed in 2005 and the measure cost data were added to the DEER database.

PY 2004-05 Measure Cost Study

The 2005 Measure Cost Study was conducted to update the costs of standard-efficiency and high-efficiency measures included in the Database for Energy Efficiency Resources (DEER). The full results are available

online at the DEER website (<http://www.energy.ca.gov/deer/>). The results provide cost information on the complete list of three hundred forty-one measures included in the 2005 DEER update. They were developed in four categories: non-weather-sensitive measures, residential weather-sensitive measures, nonresidential weather-sensitive measures, and refrigeration measures.

Measure cost data are available in three different forms. First, the data are available as part of the measure detail from the DEER website. These data are specific to each measure configuration on the website. Second, the data are available as a supplemental downloadable file under Supporting Documents from the website. These data contain more information and measure variations

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than the pricing included in the measure detail. Finally, the measure cost data are provided in hard copy as part of the final project report.

The measure cost data include installed and incremental cost estimates as appropriate for each of the measures included in the update, and cost detail for a range of sizes, efficiencies, and features.

PY2004-05 Best Practices Study for Energy Efficiency Programs

The Best Practices Website was launched in 2004 at www.eebestpractices.com, developed using 2002 and 2003 funding. 2004-5 funding will be used in 2006 to expand the coverage of programs and update the database.

PY2004-2005 Statewide Market Share Tracking Study

Market data for total sales of selected equipment and the

portion of those that were high-efficiency measures have been gathered for the latter half of 2004 and the first half of 2005. The equipment covered includes clothes washers, dishwashers, refrigerators, room air conditioners, central air conditioners, heating pumps, central gas furnaces, and compact fluorescent lamps as well as halogen and incandescent light bulbs. The following reports analyzing the data and showing the market share trends over time were completed during the year: the California Residential Efficiency Market Share Tracking – Appliances 2004, which tracks the average efficiencies and sales of high-efficiency equipment; the 2004 California Lamp Report, which tracks sales penetration of compact fluorescent lamps, halogen and incandescent light bulbs; and California Residential Efficiency Market Share Tracking – HVAC

2004, which summarizes the average efficiencies and market shares of high-efficiency heating, ventilating, and air conditioning equipment.

PY2004-2005 Nonresidential New Construction Technology Trends Study

The focus of the study is to identify the frequency with which various technologies and systems are being used to meet or exceed Title 24 building standards efficiency requirements. The data it will provide will support 2006-7 program implementation. This study has been included as a task within the 2004-5 Building Efficiency Assessment Study, a part of the Savings By Design program evaluation work that will be completed in 2006.

PY2004-5 Retrofit Upgrade Opportunities Study

The Retrofit Upgrade Opportunities Study was conducted to support Assembly Bill 549 (Statutes of 2001, Chapter 905, Longville) which directed the California Energy Commission (CEC) to "investigate options and develop a plan to decrease wasteful peak load energy consumption in existing residential and nonresidential buildings" and report its findings to the legislature. Funding for the study was removed when the bill was signed into law. It was included in 2004-5 energy efficiency overarching studies funding because of its potential value to portfolio planning. The study recommended a combination of regulatory and market-based strategies to increase adoption rates of energy efficiency in existing buildings. The study was completed in mid-

2005. The CEC held workshops and provided opportunities for comments on study recommendations. CEC staff then used the study as the foundation of their December 2005 staff report to the legislature to fulfill the requirements of AB 549.

PY2004-5 Demand Response/Energy Efficiency Interaction Study

The American Council for an Energy-Efficient Economy (ACEEE) proposed a multi-sponsor study for which the 2004-2005 MA&E budget has provided a share of the funding. The study aims to examine the experience to date around the nation regarding demand response programs and to discuss how such programs

might be best integrated into an effective overall demand-side resource strategy. During 2004, ACEEE formed an advisory group composed of representatives of the study funders and initiated the study. ACEEE completed the draft report in December and requested review by the advisory group. The final report was completed in early March 2005 and posted on the ACEEE and CALMAC websites.

PY2003 Hard-To-Reach Customer Analysis Study

This study, building on the similar 2002 study, assessed the needs of program management for additional information about hard-to-reach customers, then collected and

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presented this information. It was completed in early 2005.

UTILITY STATEWIDE PROGRAM EM&V STUDIES

PY2004-5 Single-Family Energy Efficiency Rebates Program

The Single Family Home Energy Efficiency Rebates program is a statewide program administered by the four California investor-owned utilities that provides rebates on various home improvement products including windows, insulation, heating, ventilation and cooling equipment, appliances, and residential pool equipment. The

2004-5 evaluation is building upon the evaluation of the 2003 and has the following objectives:

- Verification of installed measures, reported savings and hard-to-reach accomplishments
- Estimation of ex-post savings, net-to-gross analyses and ex-ante / ex-post comparisons
- In-depth customer behavior assessment (participation trends, program reach, awareness, and influence)
- Process evaluation of delivery channels, marketing, and satisfaction.

PY2003 Multi-family Energy Efficiency Rebate Program

The statewide PY2003 Multi-Family Energy Efficient Rebate Program built upon the evaluation of the PY2002

program. Program changes from 2002 that were included in the 2003 evaluation include increases and/or decreases in rebate levels and the addition and/or deletion of certain measures. Additionally, the PY2003 Program incorporated a reservation system to assist in the control and systematic distribution of program funding.

The evaluation of the 2003 program was completed in early 2005 and has the following components:

Verification of the number of measures installed in program year 2003

Verification of the achievements in

the Hard-to-Reach markets

- Measure customer behavior and response for both the HTR and non-HTR customers
- Analysis of the program efficiency
- Determined the *ex post* energy savings for the measures in the program

PY2004-2005 Multi-family Energy Efficiency Rebate Program

The California Statewide Multifamily Rebate Program is offered by all four utilities. It promotes energy savings in apartment dwelling units and in the common areas of apartment and condominium complexes and mobile home parks. Property owners (and property managers, as authorized

agents for property owners) of existing residential multi-family complexes with five or more dwelling units may qualify for rebates for installing a variety of energy efficiency measures.

These include:

- Apartment improvement measures (e.g., interior and exterior hardwired fixtures, ceiling fans, compact fluorescent lights (CFLs), clothes washers, and dishwashers)
- Common-area improvement measures (e.g., exit signs, occupancy sensors, photocells, high-performance dual-paned windows)
- Mechanical improvement measures
- High-efficiency heating and cooling equipment.

The electric measures, such as lamps, fixtures and appliances, have made up most of the savings attributed to the program. Gas measures have been much more challenging to sell to both contractors and property managers.

Key objectives for the evaluation of the 2004-05 program include:

- Measurement and verification of energy and peak demand savings through development of *ex post* savings and verification of measure installations
- Process evaluation to assess overall levels of performance and success of the program processes
- Market assessment of response to program interventions

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PY2003 and PY2004-5 Statewide Home Energy Efficiency Survey Program

The Statewide Home Energy Efficiency Survey (HEES) Program involves the use of three energy survey types (mail-in, in-home and on-line) to increase homeowner awareness of opportunities in order to achieve energy efficiency and cost savings. The design for the 2004-2005 evaluation study was developed and the Request for Proposals (RFP) was issued in November 2004, with the contract awarded in January 2005. The final research plan has been reviewed and approved by the Administrative Law Judge, the CPUC's Energy Division staff and their consultants. It will include a rigorous impact evaluation as well as a program theory-driven process evaluation that will focus on recommendations for increasing program effectiveness. The

impact evaluation will provide a better estimate of energy savings that can be attributed to customer participation in HEES, and the process evaluation will help show how HEES serves as a marketing partner to draw customers to the IOU's administered energy efficiency rebate programs. In 2005, the evaluation contractor completed the planned in-depth interviews and helped the program managers refine the program theory. They also completed the initial waves of telephone surveys for the process evaluation. This evaluation study is expected to be completed earlier than their planned date of December 15, 2006.

PY2002, 2003 And 2004-2005 Residential Appliance Recycling Program

A detailed study plan was developed for the 2004-05 statewide program evaluation in the fall of 2005, including impact

evaluation, process evaluation, and market assessment.

The impact evaluation will continue to utilize the DOE protocol metered data to develop energy usage estimates while incorporating the estimated relationship between on site and lab metering data using several levels of analysis. An adjustment factor that includes program attribution (a net-to-gross ratio) and part-use factors will be applied to the gross savings estimates. In the 2004-05 study, the net-to-gross analysis will provide a variety of summary evidence on how the net-to-gross estimation approach can be improved from previous evaluations using better samples and different data, and a clear delineation of how the net-to-gross ratio decomposes into components that the consumer may or may not consider to be related to the net

influence of the program.

The approaches for the process evaluation and market assessment will provide information to support any contemplated program changes for 2006. Specifically, analysis will be conducted to identify gaps in program design and operation, both retrospectively and prospectively and tools will be provided for assessing the impact of a given set of program design changes.

Finally, market assessment will be conducted to examine the market context in which the program operates in enough detail so that both market influences on the program and the program's influences on the market can be identified. In addition, changes and trends will be identified that will affect the savings potential for the program, the operation of the

program, and its ability to achieve goals.

PY2002, PY2003, and PY2004-05
Nonresidential Standard Performance Contract Program

The Nonresidential Standard Performance Contract (SPC) program offers rebates for large energy efficiency retrofit projects. Rebate payments are based on estimated energy savings achieved, with different rebate levels for savings from different energy end uses. Projects may be proposed either by energy efficiency services providers or customers. The studies of this program verify what energy savings were achieved. They also provide process evaluations to assess the efficiency and effectiveness of program operations and procedures and to make recommendations for program improvements.

Both the 2002 and 2003 program evaluations were in progress during 2005. The evaluation of the PY2003 NSPC Program has the following objectives:

- verify the reported energy savings results of the programs, including verification that equipment was installed as reported and a review of the energy savings estimates for a sample of projects and for the program as a whole;
- determine whether the PY2003 program was successfully implemented as designed, and whether program changes have had the desired effects on the operation of and participant satisfaction with the program;
- examine key features of the program for their impact on the program; and

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- recommend any needed program modifications to program planners.

The study was completed in first quarter 2006.

The evaluation of the PY2002 NSPC Program had similar objectives, plus it included an investigation of “unsuccessful” SPC projects that were started but never finished. Hardware installations under the PY2002 program were delayed; in some cases, projects were granted extensions of up to a year beyond the program deadline. Consequently, the impact evaluation was delayed for over a year, and it was completed in 2005.

Initial planning for the 2004-5 program evaluation is completed and a request for proposal is expected in second quarter 2006.

PY2003 Express Efficiency Program

The Express Efficiency program is a statewide program that provides financial incentives to small and medium sized nonresidential customers for installing specific proven gas and electric energy efficiency measures. The evaluation of the 2003 program was completed in March 2005. It includes: 1) analysis of 2003 program accomplishments; 2) review of energy and demand savings estimates; 3) comparisons between program characteristics in 2002 versus 2003 that may result in differences in effectiveness of program design, delivery and implementation; 4) an assessment of program targeting and customer satisfaction with special emphasis on statewide coordination and outreach to hard-to-reach customers; 5) an analysis of incentive levels and options; and 6) sample on-site

verifications of installed measures.

PY2004-05 Statewide Express Efficiency Program and Upstream HVAC/Motors Evaluation

The downstream Express Efficiency component of the program pays rebates to distributors and small to medium sized nonresidential customers for equipping facilities with selected energy efficiency measures. The Upstream motors component paid rebates to distributors of HVAC systems and motors who sell energy efficient equipment to customers. This incentive will only be paid after the equipment has been installed.

The scope of work for the combined evaluation of these two programs was developed in 2004-05. It will include 1) verification of program accomplishments, including on-site verification on a

sampling basis; 2) review of energy and demand savings estimates; 3) ex post impact analysis for measures determined to need updated energy and demand savings estimates; 4) process evaluation, including an assessment of program targeting, customer satisfaction, participation of hard-to-reach customers, and differences in participation rates from earlier years; and 5) an analysis of incentive levels and options. The study will review the reporting of energy and demand savings to ensure that Program accomplishments are being reported properly. An assessment of the verification and inspection process will be undertaken to ensure sampling validity and overall appropriateness of the approach of the Study.

The study, scheduled for completion in third quarter 2006,

will meet the following objectives:

- Obtain credible estimates of savings, both ex-ante and ex-post
- Describe methods and procedures to answer design and implementation questions
- Analyze the goals to increase Hard to Reach participation
- Provide and analysis of the overall purpose of the evaluation plan
- Analyze the limitations on the resources available for the evaluation effort and efficiency of the program
- Analyze the program's effectiveness in aligning with the CPUC requirements
- Provide guidance on how to maximize the cost effectiveness of marketing and outreach

PY2003 Nonresidential Energy Audits Program

This study, completed in March 2005, is an impact and process evaluation of the 2003 Statewide Nonresidential Audit Program. In that year, the program offered mail, CD Rom, online, telephone and on-site audits. Almost thirty thousand audits (slightly over half to hard-to-reach customers) were carried out. The impact assessment has two distinct components: 1. A first year program impact assessment focused on very small and small customers; and 2. A second year program impact assessment for medium and large customers (to ascertain process-level adoption of energy efficiency post-audit). The process assessment included a tracking system assessment and implementation related program elements (participant satisfaction, reasons for participation, and usefulness and practical roles of the Audit). A best

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practices assessment was done by reviewing the 2004 on-site audit tools and reports. Overall, nonresidential audits were shown to lead to significant energy savings.

PY2004-2005 Nonresidential Energy Audits Program

Audits are an information program that can move customers to take energy efficiency actions. However, it may take some time before customers take action. Given the waning impact of the energy crisis of 2000-2001, the IOUs want to continue to examine the ongoing impact audits have over time on customers' behaviors, attitudes and adoption of EEMs. Therefore, the IOUs will conduct surveys for both 2004-2005 audit participants and past participants, to determine how and when audits result in customer adoption of energy efficiency, and better determine the

frequency necessary for auditing customer facilities, as well as gathering data from similar nonparticipating customers to contrast the adoption of energy efficiency between the two groups. Identifying these actions and how customers tap into other energy efficiency programs allows for continuous enhancement of integration among programs. The study will also examine customer satisfaction and actions taken post-audit for the 2004-2005 PG&E local program component that integrated demand response and self-generation opportunities into the energy efficiency audits. A cross-program study will be done to ascertain the impacts of the non-residential programs on the other non-residential offerings.

The study design for the evaluation of the 2004-05 Statewide Nonresidential Energy Audits

Program was developed in 2005, and the contract is being signed in early 2006. The study should get underway second quarter 2006. It has the following objectives:

- Document energy efficiency actions and savings taken by audit program participants over time compared to actions taken by non-participants;
- Document participant satisfaction with the various audit options and marketing strategies;
- Assess current and pilot delivery vehicles and marketing mechanisms to ensure ongoing improvement of program delivery; and
- Estimate energy and/or peak load savings accruing from participation in the audit program over time.
- Estimate the impacts of the Non-residential

- Audits program on Express Efficiency and SPC as well as of these programs on the others.

PY2004-5 Building Operator Certification and Training Program (BOCT)

A study is underway for the program years 2004-05. Building operator certification and training programs educate operators of large and medium commercial buildings, including public buildings, on short and long-term peak demand and energy savings strategies for their buildings. There have been minor modifications to training content since 2002.

The study has the following objectives:

- Examine satisfaction of participants and participants' employers with program process and content of training;
- Gather participants' and

non-participants' recommendations for enhancements to program process and content;

- Understand barriers to participation;
- Understand how to better market the program to non-participants;
- Provide feedback and guidance that will be used to improve future program design and implementation;
- Document participant post-training adoption of energy efficiency actions and possible energy and peak savings that are associated with the actions.

PY2003 and PY2004-5 Nonresidential New Construction Building Efficiency Assessment (BEA) Study

The 2003 and 2004-5 studies quantify the whole-building and end-use energy savings and efficiencies of both participant and non-

participant buildings through detailed data collection and DOE-2 simulations. This study also tracks program participant attitudes and responses to the program and its components, including design assistance services. The approach to developing these data has been used for evaluating statewide nonresidential new construction since 1999 and the results can be referenced back to previous data to develop on-going trends. The results provide timely feedback to program managers and policymakers and should facilitate incremental improvements to program process and operations. The results will also identify changes in design practices as a result of program operation.

The 2003 BEA Study was completed in July 2005 and provides gross and net program impacts.

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The net-to-gross analysis estimates the portion of the savings that can be directly credited to the program using a refined self-report analytical approach.

For the 2004-5 study, the study advisory group first commissioned a white paper on alternative approaches to net-to-gross analysis, to be completed in early 2005. The white paper concluded that the best option for assessing net savings of the 2004-5 program was to conduct a market effects study. Acting on this recommendation, the advisory group began work on a Building Efficiency Assessment study to estimate gross savings of the program and to identify the frequency with which various technologies and systems are being used to meet or exceed Title 24 building standards efficiency requirements among both participants and non-participants. This

study will be completed in 2006, and the market effects study will be initiated in 2006.

PY2004 Market Characterization and Program Activity Tracking (MCPAT) Study

The on-going statewide Market Characterization and Program Activity Tracking (MCPAT) Study tracks trends in the nonresidential new construction (NRNC) market, as well as participation in the Savings By Design statewide NRNC Program. The publication of results, on an ongoing basis, allows program designers, implementers, evaluators, and market participants to determine the extent to which the NRNC Market changes over a given period of time, and if necessary, modify the SBD Program to most effectively enhance energy efficiency practices in the new construction market. This report, published

in May 2005, summarizes the NRNC Market and SBD Program Tracking and penetration results in PY2004.

Technical Support for the 2003-2005 Nonresidential New Construction Program Area

As part of its NRNC MA&E Program Area duties, Southern California Edison (SCE) contracts with a consultant to provide technical expertise for the management of NRNC MA&E studies. This work includes RFP development, proposal review, and review of contractor work and deliverables, as well as planning and participation in the statewide NRNC program and MA&E activities. It is necessary for the thoughtful and responsible administration of the MA&E activity.

PY2003 and PY2004-2005 California Energy Star® New Homes Program

The California Energy Star® New Homes Program is designed to encourage single-family and multifamily builders to construct units that reduce energy usage through a combination of financial incentives, design assistance and education. Program activities have been enhanced since 2002 to encourage increase participation by multifamily builders.

The study of the PY 2003 program is scheduled for completion in the first half of 2006. The study will:

- Document energy savings and compare energy savings estimates for the PY 2003 program with the energy savings estimates from the PY 2002 program;
- Determine if there have been any changes in the building characteristics of

program participants between the PY 2002 and PY 2003 programs;

- Investigate builders' perceptions of the California Energy Star® New Homes Program;
- Evaluate the effectiveness of program modifications made in PY 2003; and
- Recommend additional program modifications if warranted.

The evaluation of the 2004-05 program was initiated in 2004 and is scheduled for completion in third quarter 2006.

PY2003 and PY2004-5 Education and Training Services Program

The Statewide Education and Training Services Program promotes energy efficiency to a broad spectrum of market actors including customers, midstream actors such as design,

engineering, and contract communities, and upstream market actors. The energy centers offer energy efficiency classes to customers provide displays and equipment demonstrations, and contact customers in a variety of venues, including trade shows and community meetings.

The evaluation studies entail a needs assessment to determine how best the energy centers can improve current services and expand their reach to serve a larger market. The PY 2003 study, completed in June 2005, provided process evaluations and case studies for each of the five statewide energy centers: PG&E's Energy Training Center (ETC), SCE's Customer Technology Application Center (CTAC), SCE's Agricultural Technology Application Center (AgTAC), SCG's Energy Resource Center (ERC), and

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SDG&E's education and training seminars. The locally-funded PG&E Pacific Energy Center (PEC) was also included in this evaluation study. Case studies focused on specific challenges that each energy center was facing, providing requested information for center staff. Specifically, the PY2003 study conducted a customer segmentation analysis of each energy center's primary target population(s), exploring barriers to participation in energy center activities (such as distance and time), and developing recommendations for improving the promotion and targeting of existing services as well as new programs and services that focus on the needs and barriers not currently or effectively addressed by the energy centers. Best practices in adult education were also surveyed and presented. Recommendations

were made for further improvements

To prepare for 2006 program needs, SCE added a small case study project to the 2003 evaluation that will document the energy savings achieved by participants in a small group of SCE Customer Technology Application Center courses. The case study report was completed in the second half of 2005.

The basic design for the PY2004-5 study was developed in 2004, building on areas already covered by previous evaluations. The design was completed and the Request for Proposals was issued in March 2005. The study is slated for completion in the second half of 2006.

PY2003 and PY2004-5 Emerging Technologies Program

The Statewide Emerging Technologies Program (ETP) seeks to accelerate the

introduction of energy-efficient technologies, applications, and analytical tools that are not widely adopted in California. The program primarily targets nonresidential customers and is composed of two parts: 1) projects that demonstrate/assess field performance of emerging technologies and the dissemination of assessment results, and 2) project coordination with the statewide IOUs and the CEC-PIER (Public Interest Energy Research) group through the Emerging Technologies Coordinating Council (ETCC). The evaluation of the PY2003 ETP was completed in August, 2005. The design for the 2004-2005 evaluation study was developed and the Request for Proposals was issued in December, 2005, after soliciting a pre-submission review by the CPUC's Master Evaluation

Contractor. Because the ETP is an information-only program that straddles the gap between R&D and commercialization, its effectiveness cannot be evaluated using methods that are normally appropriate for either R&D or commercialization. The study's scope of work include 1) refining and capturing the ET program theory, 2) evaluating program processes for future improvement, and 3) creating case studies on specific technologies to assess the suitability of a variety of evaluation methods for capturing the full value of the ETP. The contract was awarded in March, 2006 after the consultant was approved by the CPUC administrative law judge.

PY2004-5 Codes and Standards Advocacy Studies

The statewide Codes and Standards Program supports upgrades and

enhancements in energy efficiency standards and codes, develops protocols for high-efficiency processes not subject to code, and provides training for code enforcement officials. Codes and Standards Enhancement (CASE) studies for energy efficiency improvements are performed for promising design practices and technologies and are presented to standards and code-setting bodies.

During 2005, the study advisory group commissioned a white paper describing recommended methods to determine the energy savings created through code and standard changes attributable to the Codes and Standards Program. This was followed by a paper that estimated the energy savings from Fall 2005 and 2006 code and standards changes that were attributable to the earlier work of the

utility Codes and Standards Programs.

The plan for the evaluation of the 2004-5 program was developed in late 2005, and the Request for Proposals to conduct the study was issued in early 2006. The study is planned for completion in late 2006.

B. STUDIES OF SCE LOCAL PROGRAMS

These studies are funded as part of the program budgets, but descriptions are given here so that all evaluation activity is summarized in one place. Some of these programs and their studies are funded with Public Goods Charge funds and others with energy procurement funds. All completed studies can be found on the CALMAC website, www.calmac.org

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Local Demonstration and Information Transfer Program- 2003

During 2004, the evaluation for the 2003 program was being conducted as a supplement to the evaluation of the statewide 2003

Emerging Technologies Program, since the activities are similar. This study was completed in August, 2005.

Pump Testing and Hydraulic Services Program – 2004-5

This study includes verification activities, collection of data to develop energy savings impact estimates, and interviews, customer surveys and analysis for process evaluation. The 2004-5 program evaluation was designed to build on the 2003 activities. It includes post-improvement pump testing to establish a realization rate for the energy savings predicted for recommendations arising from pump tests. Its research plan

was developed and submitted to the Energy Division in summer 2004, and study work began after the plan was approved. The final report is expected in April 2006.

2004-5 Local Government Initiative Program

A Request for Proposals for the evaluation of the 2004-5 program was developed and issued. Innovologie was selected as the winning bidder and approved by the Energy Division. The consultant developed and submitted a research plan that has been approved by Energy Division. The research plan includes verification of program activities and a process evaluation that will report on a variety of program design and operational issues: recruitment of jurisdictions; program organization, marketing, reporting and tracking; and a social network analysis of

relationships among jurisdictions, the utility, and their residents/customers. The study is slated for completion in April 2006.

2003 In-Home Audits Program

The study of the 2003 program is being undertaken as a supplement to the evaluation of the 2003 statewide Home Energy Efficiency Surveys program. It shares the same evaluation goals as that study, which is described in Section A. It is expected to be completed in second quarter 2006.

In 2004-5, the In-Home Audits Program was merged into the statewide Home Energy Efficiency Surveys program.

2004-5 Small Business Hard-to-Reach Direct Install Program

EcoNorthwest developed the research design for the 2004-5 program study, submitted it to the Energy Division,

and gained approval. Work on the study began in 2005, and it is scheduled to be completed in second quarter 2006.

University of California – California State Universities – Utilities Partnership

A Request for Proposals for the evaluation of this program was developed and issued. SBW Consulting was selected as the winning bidder and approved by the Energy Division. SBW developed and submitted a research plan that has been approved by Energy Division, and data collection has begun. The evaluation covers all three major aspects of the program: building retrofits, building retro-commissioning, and education/training activities. It includes a process evaluation, verification of activities, and an impact evaluation. The study will be completed in third quarter 2006, when all of the building retrofit

projects funded by the program are expected to be completed

SCE-SoCalGas Los Angeles County Partnership

Data collection and analysis are under way. The evaluation work includes a process evaluation, verification of activities, and an energy savings impact evaluation of the building retrofits undertaken through this program. The report is expected to be completed in mid-2006.

SCE-SoCalGas Ventura County Partnership

Data collection and analysis are in progress. The program scope has changed over the two-year period to include a schools program. The evaluation includes a process evaluation, verification of activities, and an energy savings impact analysis of the building retrofits undertaken through this program. The report is expected to

be completed in second quarter 2006

SCE-SoCalGas South Bay Cities Council of Governments Partnership

Data collection and analysis for this 2004-initiated study continued throughout 2005. The evaluation includes a process evaluation and verification of program activities and is expected to be completed in second quarter 2006.

SCE-SoCalGas Community Energy Partnership

Aloha Systems began data collection for this study during 2004. The evaluation scope includes process evaluation with early feedback, verification of program goal activities, and development of estimates of energy savings created by some program activities. The study should be completed in second quarter 2006.

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PG&E-SCE-SoCalGas Kern County Partnership

PG&E is managing the evaluation of this partnership program on behalf of the partners. It is being conducted as part of a study of multiple PG&E local programs. See the PG&E Annual Report for additional information.

SCE – City of Pomona Partnership

Quantec LLC was selected in 2004 to conduct the evaluation of this small partnership program. The process evaluation, verification, and estimation of retrofit project energy savings will be reported in a study that will be

completed in second quarter 2006.

VeSM Industrial Program

The Value and energy Stream Mapping Program was approved by the CPUC as a pilot program in late 2004. The study includes process evaluation and verification of completion of mapping projects. It is expected to be completed in mid-2006.

Edison's IDEEA Program

Edison's Innovative Designs for Energy Efficiency Activities Program completed a two-phase solicitation of program proposals in fall 2004. A second round of solicitations was scheduled for and

occurred in early 2005. The RFP was issued in Fall 2005. Quantec LLC is initially conducting process evaluations of the 2004-5 overall program and of the 2006 solicitation, which occurred in Fall 2005. Early feedback is being provided for the program managers of the 2006 solicitation for 2007 programs. The Quantec team, including subcontractors, will conduct impact and process evaluations of each of the 2004-5 programs implemented through IDEEA. The full study is scheduled for completion in the second half of 2006.

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Table 6.1
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
MARKET ASSESSMENT & EVALUATION BUDGET (MA&E)

Study/Project (costs in \$000's)	2-Year Statewide Budget	2-Year Utility Budget
STATEWIDE PROGRAM EM&V		
Residential Retrofit	\$ 3,082,100	\$ 1,069,489
Single Family Rebates	1,293,450	448,827
Multi-Family Rebates	638,550	221,577
Residential Audits	408,550	141,767
Appliance Recycling	741,550	257,318
Nonresidential Retrofit	3,580,050	1,242,277
Standard Performance Ct.	1,358,750	471,486
Express Efficiency	1,224,750	424,988
Nonresidential Audits	838,500	290,960
Bldg. Operator Cert.	158,050	54,843
New Construction	2,126,750	737,982
Energy Star Homes	1,023,500	355,155
Nonres. New Construction	1,103,250	382,828
Cross-Cutting Statewide	1,154,100	400,473
Education & Training	611,550	212,208
Emerging Tech. Demo.	284,700	98,791
Codes & Standards	257,850	89,474
Subtotal	<u>\$ 9,943,000</u>	<u>\$ 3,450,221</u>
Energy Division Special Projects (Overarching Studies)		
Special Projects	\$ 1,227,398	\$ 425,907
CALMAC Website & Wkshops	512,100	177,698
Organizations /Conferences	291,100	101,012
Evaluation Framework Additional Work	191,200	66,346
Industrial Energy Use Survey	1,574,750	546,438
Residential Energy Efficiency Onsite Survey	474,550	164,669
Efficiency Market Share Tracking Study	554,550	192,429
Nonresidential New Construction Technology Trends	106,850	37,077
Energy Efficiency Potential Updates	575,000	199,525
Database for Energy Efficiency Resources (DEER)	517,550	179,590
Retrofit Upgrade Opportunities Study	380,700	132,103
Best Practices Database	440,100	152,715
Demand Response/Energy Efficiency Interaction Study	76,850	26,667
CALMAC Study Reserve	384,200	133,317
Subtotal	<u>\$ 7,306,898</u>	<u>\$ 2,535,493</u>
Energy Division Operating Costs		
Energy Division Operating Costs	\$ 600,000	\$ 208,200
Subtotal	<u>\$ 600,000</u>	<u>\$ 208,200</u>
STATEWIDE MA&E TOTAL	<u>\$ 17,849,898</u>	<u>\$ 6,193,914</u>

Shareholder Performance Incentives

Summary

This section is not applicable for the 2005 Energy Efficiency Program Year.

There were no shareholder performance incentives authorized by the California Public Utilities Commission for 2005 Energy Efficiency Programs. The Energy Efficiency

Policy Manual, adopted by Decision 01-11-066 stated, "In the past, the Commission has offered shareholder incentives to large IOUs for successful program delivery, in lieu of a profit margin. The Commission will no longer make a special provision for shareholder earnings." (D.01-11-

066, Attachment 1, p. 28) Decision 02-03-056, authorizing the 2002 Statewide Energy Efficiency Programs, reiterated the Commission's position on this matter. There were no changes to this position for the 2005 energy efficiency programs.

IOU Partnerships Program Area

BAKERSFIELD/KERN ENERGY WATCH

Program Description

SCE, PG&E, SoCalGas, the City of Bakersfield, the County of Kern and Staples/Hutchinson and Associates, Inc. entered into a partnership to reduce energy use by providing energy efficiency information and direct installation of energy-efficient equipment to the City and County's local community.

Specifically, this partnership offers direct installation services to hard-to-reach (HTR) customers, home buyers, and small businesses; free energy audits to both residential and nonresidential HTR customers; marketing and outreach to encourage participation in statewide energy efficiency programs; municipal building

energy efficiency retrofits; support for codes and standards enforcement; and local training seminars for residential contractors, design/build firms, engineers and architects working on commercial properties.

2005 Results and Achievements

Marketing and outreach efforts for the partnership included the following:

- Media conference at the Bakersfield City Fire Station #1 to announce the three-year renewal of the Bakersfield & Kern County Energy Watch Program. Featured guests included Bakersfield City Mayor Harvey Hall and County Board of

Supervisors Chairman Ray Watson. Representatives from PG&E, SCE and SoCalGas described the Energy Watch accomplishments over the last two years and plans for 2006-2008.

- Radio advertisements in both English and Spanish aired throughout the year on local stations covering topics about Energy Watch offerings, the 20/20 Rebate Program, Appliance Recycling Program, and IOU websites as sources for energy efficiency information
- Participation at local community events with information booths at the

IOU Partnerships Program Area

following venues:
Ranch Market,
Walmart, Kern
Regional Center,
Stock Lumber,
Lowe's and the
34th Street Fair,
sponsored by the

Bakersfield
Department of
Economic and
Community
Development.
Also, staff
participated and
distributed

materials at the
Bakersfield Home
Show, Kern
County Fair, and
Hispanic Chamber
of Commerce
Expo.

Following is a list of classes sponsored by the Bakersfield & Kern County Energy Watch Program in 2005:

January 11, 2005	Manual D Duct Design
January 12, 2005	Manual J Equipment Selection and Sizing
January 13, 2005	Static Air Flow and Pressure
January 14, 2005	Duct Testing and Sealing
January 25-26, 2005	2005 Energy Auditing Techniques for Small Businesses
April 14, 2005	1st Annual Business Customer Energy Efficiency Workshop
April 21, 2005	Restaurant and Food Service Technical Workshop
April 28, 2005	Proper Procedures for Charging Air Conditioners and Heat Pumps
May 19, 2005	2005 Title 24 Overview for City of Bakersfield Building Inspectors
June 15, 2005	Ag I.C.E. (internal combustion engine alternative rate) for Agricultural Customers
June 22, 2005	2005 Title 24 Overview for Business Customers

Through the Staples small business element, 44 lighting audits were completed on Kern County Firehouses, libraries, court houses,

senior centers, recreation halls, administration buildings, and sheriff offices. Retrofits will be completed by March 2006.

Other municipal projects include an HVAC retrofit and cool roof installation at the Ridgecrest facility which was completed.

IOU Partnerships Program Area

Additionally, a project was contracted for HVAC retrofits at the California City Library building which was completed by March 2006.

The Partnership completed 30 audits

for small businesses and 114 realtor-based audits.

The residential direct install component provided services in 2005 for 1,312 single family homes and

1,060 multifamily customers. Overall, the Partnership committed 1,984 MWh of annualized energy savings and .3 MW of demand reduction.

IOU Partnerships Program Area

COMMUNITY ENERGY PARTNERSHIP

Program Description

The Community Energy Partnership (CEP) is a complementary delivery mechanism for energy efficiency that draws upon the unique strengths of a myriad of energy stakeholders to create a powerful synergy. This partnership is multidimensional, beginning with SCE and SoCalGas as utility partners, the Community Energy Partnership as a facilitating partner, and ten southern California cities representing their constituents as participants.

The Partnership is between cities that are out to make a difference in the energy equation. Through the model approach, the serving utilities have a unique opportunity to develop strong ties

working with the program's cities. It is about citizens and businesses working closely with community-based organizations to improve their financial condition. It is about dedicated school administrators, teachers, and students, working with their staffs and school districts to save precious resources. It is about hearing of a community event, and telling one's neighbor. It is about creating energy champions in California cities.

2005 Results and Achievements

The Community Energy Partnership delivered annual energy savings of 16,119 MWh and 3.5 MW of demand reduction through the implementation of community events, community energy efficiency tune-ups,

and PEAK Student activities.

Program highlights include the distribution of CFLs to city constituents and PEAK students and families. Torchieres were exchanged for residents' high energy consuming and potentially dangerous halogen torchieres in three participating cities.

The following represents a snapshot of activities by program component targeted by the CEP and its partner cities and utilities.

PEAK School Districts:

Seven school districts have incorporated the PEAK program into their curriculum; exceeding the program's goal of six districts participating in PEAK. They are

Santa Monica Malibu Unified School District, Desert Sands Unified School District in Palm Desert, Irvine Unified School District, Corona Unified School District and represent roughly 25,000 students.

PEAK Households:
Participating PEAK

households exceeded 15,000; nearly double the original program goal.

Municipal Energy Actions:

All ten of the participating cities have been supported on their path to energy sustainability by program efforts through engineering

studies, the generation of energy plans, and the implementation of energy efficiency measures.

Community Efficiency Tune-Ups:

3,767 household Tune-Ups and 271 Small Business Tune-Ups were completed.

IOU Partnerships Program Area

LA COUNTY/SCE/SCG PARTNERSHIP

Program Description

In this program, the County of Los Angeles, SCE, and SoCalGas partnered together to implement energy efficiency projects in existing county facilities. It was designed to achieve immediate peak energy and demand savings in county facilities located in the service territories of SCE and SoCalGas.

The County is SCE's second largest customer. Through its Internal Services Department, the County administers energy efficiency programs on behalf of 38 county departments that serve the community of Los Angeles, including the Sheriffs, Health, Probation, and Social Services departments. The County has nearly 3,250 accounts in

SCE's service territory and 480 accounts in SoCalGas' service territory. The program implemented energy efficiency projects in existing county facilities, leveraged the County's existing in-house facility management expertise, and provided leadership on a technology transfer program for local government facilities managers.

This program provided energy efficiency audits, retrofits, and retro-commissioning services for County of Los Angeles fire stations, libraries, health centers, courthouses and administration buildings. The program provided educational and information benefits related to energy efficiency through

MultiFamily Public Housing and Retrofits, and Public Agency Energy Efficiency Technology Transfer.

2005 Results and Achievements

The results of this program are as follows:

- **Lighting Retrofit Project -** Completed retrofits in county fire stations and libraries. Completed four phases of energy efficiency measures including T12 to T8, HID, Exit Lights and Incandescent to CFLs.
- **Chiller Project -** Completed installation of high efficiency refrigerant based chillers installed at

two county buildings (Dorothy Kirby and ISD Headquarters). Replaced one 160-ton existing water cooled reciprocating chiller with identical capacity energy efficient screw chiller with controls and refrigerant safety system. Replaced a 65-ton existing water-cooled reciprocating chiller with identical capacity energy efficient screw chiller with controls and refrigerant safety system.

- **Building Wide Lighting Controls** Completed installation of an automated Building-Wide Lighting Control System with local and remote control, configuration, monitoring and communication abilities. Integrated automated

Lighting Control System equipment into each existing Lighting Panel Controller (LPC) installed within it. This was done at two county buildings (Ferguson Health Administration Center and Edmund D. Edelman Children's Court). Additional work for motion sensors was authorized and energy savings realized.

- **Retro-Commissioning Project -** The purpose of the retro-commissioning (RCx) project is to optimize the operations of HVAC systems in existing county buildings to achieve sustainable reduction in the demand and consumption of electricity and natural gas. This program element focused on RCx, or commissioning of

existing buildings that have not been through a commissioning process, and not new building commissioning. The County's Energy Management Division (EMD) had selected various facilities for RCx activities. The project scope consisted of the eleven County building stock comprised of office buildings, courthouses, health centers, libraries, and sheriff facilities, varying in size from 68,000 to 500,000 square feet. These facilities include: Compton Courthouse, Santa Monica Courthouse, Beverly Hills Courthouse, Malibu Administration Center and Courthouse, El Monte Courthouse, Rio Hondo, East Los Angeles

IOU Partnerships Program Area

Courthouse,
Whittier
Courthouse,
Downey
Courthouse,
Bellflower
Courthouse,
Public Library,
Administration
Headquarters, and
San Fernando
Courthouse.

- **Gas Boiler Retrofits -**
The County replaced boilers in many of its buildings and was given an incentive to install 85% efficient boilers. SoCalGas has authorized a 2,700 therm savings per boiler replaced. Group 1 locations with 29 boilers were replaced using incremental incentives. Additional buildings in Group 2 received direct-installation of energy efficiency boilers as well. In addition, the retro-commissioning (RCx) project optimized the operations of heating system in

the 11 targeted County buildings to achieve sustainable reduction in the consumption of natural gas.

- **Public Housing Multifamily Metering Project -**
Meters were tested and installed in identified locations in Valencia. This partnership implemented a pilot project and will install 150 state-of-the-art meters in multi-family public housing facilities. The meters will be equipped with an optical sensor that sends signals to a display unit inside the tenant's dwelling. This display shows real-time energy usage. The objective is to determine the tenant's behavioral changes in energy efficiency and conservation as a result of the project. Additional equipment will

also be installed in each complex to provide wireless harvesting of energy data into a collector with the capability to provide remote monitoring of these devices. This program element was shifted to the 2006-2008 effort due to time constraints on data collection and resolution of technical issues with the optical sensing device.

- **The Feasibility Study and Technology Transfer Workshop -**
Completed workshop and interviewed public agency representatives. Completed final report detailing the information supporting the identification, insight, and understanding of public agency needs, as well as opportunities and channels to share ideas and

IOU Partnerships Program Area

collaborate on specific projects. The Feasibility Study Workshop was delivered to 135 public agency

representatives. The workshop presented results of the feasibility study to prominent public agency officials, as

well as, CPUC and CEC commissioners and representatives from state agencies.

IOU Partnerships Program Area

CITY OF POMONA

Program Description

The City of Pomona Partnership Program offers direct installation of lighting and air conditioning measures in City facilities. It also includes the replacement of incandescent pedestrian indicators with more energy efficient LED units within the City. In addition, the partners implement an education and outreach energy efficiency campaign that targets vendors, businesses and residents.

2005 Results and Achievements

Marketing and outreach activities continued in 2005. These activities comprised of vendor seminars, city events, customer meetings, distribution of residential and

business brochures, and website development. The marketing and outreach activities have been implemented as part of the program goal to provide energy efficiency information to HTR residential markets and underserved commercial markets. One of the key successes of the Pomona Partnership is the degree to which events have been coordinated with local networks and organizations – these business meetings, where the primary meeting objective is energy efficiency information dissemination, demonstrates this success.

The partners have identified the following channels for information dissemination and

will work with Pomona's Public Information Officer to place program announcements in City newsletters, website design and also contacting chambers of commerce:

- E-newsletters (English and Spanish) - 200 individuals
- Quarterly newsletter - residence only
- Chambers of Commerce
- Hispanic Chamber of Commerce

SCE assisted the City of Pomona with comprehensive site audits of proposed facilities. These audits quantified lamp fixtures, occupancy sensors, air conditioner cooling capacity, and window film needed for the retrofits. City of Pomona utilized the audit results to

IOU Partnerships Program Area

support its request for proposal process. The Energy Efficiency Retrofit component

proposed high efficiency equipment including T8 lights, HVAC units and LED

Pedestrian Indicators. Installation of these measures began in May 2005.

IOU Partnerships Program Area

SOUTH BAY CITIES ENERGY EFFICIENCY RESOURCE CENTER

Program Description

The South Bay Energy Savings Center (SBESC) is a partnership with the South Bay Cities Council of Governments, SCE and SoCalGas and acts as a resource of energy efficiency information to member agencies, businesses and residential customers. This program is an education and outreach program.

Located in Torrance, California, the SBESC serves as the central clearinghouse for energy efficiency information and statewide and local energy efficiency programs. The center provides energy efficiency information and marketing materials as well as energy efficiency displays and demonstrations.

SBESC'S lending library offers energy efficiency materials on loan to the community.

2005 Results and Achievements

During 2005, the center conducted over 40 workshops for the government, business and residential customers including Title 24 training for city building officials, architects and builders in the South Bay. In addition, the SBESC reached to communities that have not traditionally participated in energy efficiency programs including mobile home residents, non-profit organizations and religious facilities.

The Partnership has been successful coordinating mobile home energy efficiency training in the area with a direct

install program for mobile homes, connecting residents in mobile home parks with energy savings opportunities.

Marketing and Outreach

In 2005, the SBESC continued its aggressive campaign targeting residents, businesses and government organizations in the South Bay. All training events were advertised in a local newspaper, e-mail blasts, community events, business and community organizations and local cable. SBESC also worked with member cities, public officials and community organizations to secure assistance in disseminating energy efficiency information and co-sponsoring training events.

IOU Partnerships Program Area

IOU/UC/CSU PARTNERSHIP

Program Description

The University of California/California State University (UC/CSU) and Investor-Owned Utility (IOU) Energy Efficiency Partnership is a statewide energy efficiency program that provides resources and expertise in energy-efficient equipment and practices for the 33 UC and CSU campuses served by California's four large IOUs. This program capitalizes on the resources and expertise of the UC/CSU and the California IOU's to ensure a successful and cost-effective program that meets all of the CPUC's energy efficiency objectives. It lays the groundwork for not only a continued UC/CSU comprehensive energy efficiency program but also

establishes a model for statewide partnership programs.

This partnership program is comprised of three elements: Energy Efficiency Retrofits, Monitoring Based Commissioning (MBCx), and Energy Efficiency Education and Best Practices Development and Training.

2005 Results and Achievements

In 2005, the program identified an additional six retrofit projects for a total of ten retrofit projects at six different campuses since the program inception. Retrofit project commitments for 2005 resulted in a total net annualized energy savings of 1,599 MWh and a net demand reduction of 0.3 MW. In addition, during 2005 there were a total of seven MBCx Projects being

implemented at seven different campuses. MBCx project commitments for 2005 resulted in a total net annualized energy savings of 3,620 MWh and a net demand reduction of 0.3 MW. There were also a total of 54 training and education events which varied from partial day seminars to week long sessions. These included sessions discussing Building Operator Certification Training, LEED for Project Managers, a Project Managers Guide to Integrated Building Design and Monitoring Based Commissioning training and certification.

IOU Partnerships Program Area

VENTURA REGIONAL ENERGY ALLIANCE

Program Description

The Ventura Regional Energy Alliance (VREA), in partnership with SCE and SoCalGas proposed to build on the VREA's progress to date to further develop its core capabilities, to complete the development of its Energy Resource Center capability, and to implement a targeted Public Sector Program for public agencies throughout the Ventura region. This effort utilizes the strengths of the VREA and its utility partners to jointly overcome identified participation barriers, better serve local needs and HTR customers, and increase participation in energy efficiency programs.

2005 Results and Achievements

During 2005, the Ventura County Energy Resource Center (VCERC) continued to operate in the Ventura County area as a central clearinghouse for energy information and offered energy efficiency training for the public, business and residential sectors.

Thirteen community events and four workshops were conducted over the period including Title 24 training for city building officials, architects and builders in the Ventura region. VCERC also recruited contractors to participate in the public facilities element of the program and implemented several public facilities

energy savings projects in 2005.

VCERC continued to provide energy audits, project management and other technical support to member agencies resulting in a total of 20 completed retrofit projects in the cities of Oxnard, Ventura, Thousand Oaks and the County of Ventura. Projects completed at the end of December 2005 yielded savings of 2,695 MWh and .5 MW. In addition, the VCERC adopted the LivingWise School program providing 1,100 energy savings kits to sixth grade students in Oxnard and Santa Paulo.

Marketing and outreach was included on SCE's website, VCERC's website, e-mail blasts to VCERC members and SCE regional

representatives, press releases and local newspaper advertisements. VCERC staff published energy savings articles in local newspapers, and promotes the public facilities elements through council meetings and other public events. In addition, the VCREA published the *Energy Leader* Newsletter which highlighted provided energy information and a calendar of VCERC public events and workshops.

VCERC also worked with member cities, public officials and community organizations to secure assistance in disseminating energy efficiency information and co-sponsoring training events. Statewide and local energy efficiency marketing materials are displayed at the VCERC and distributed at local community events.

IOU Partnerships Program Area

Table 8.1
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
IOU PARTNERSHIP PROGRAMS

	2005	2005		2004-05		2004-05
	Budget	[1]	Recorded	[1,2]	Budget	Recorded
Bakersfield/Kern Energy Watch - PGC	500,000	\$	594,966		1,000,000	\$ 652,533
The Energy Coalition - PGC	2,000,000		2,279,065		4,000,000	\$ 4,132,753
LA County/SCE/SCG Partnership - PGC	1,500,000		3,693,537		3,000,000	\$ 3,805,226
City of Pomona - PGC	325,512		213,623		651,024	\$ 462,542
South Bay Cities Energy Efficiency Center - PGC	305,494		325,292		610,988	\$ 741,346
IOU/UC/CSU Partnership - PGC	2,250,000		4,382,730		4,500,000	\$ 5,967,616
Ventura REA - PGC	636,575		791,941		1,273,150	\$ 1,030,730
IOU Partnership Programs Total	\$ 7,517,581	\$	12,281,154	\$	15,035,162	\$ 16,792,746

[1] Excludes Shareholder Incentives and Other Costs, as shown in Table TA 8.1.

[2] All Recorded amounts include payments in 2005 and amounts committed to projects in 2005. Committed amounts may not be fully realized.

[3] All Recorded amounts include payments in 2004-2005 and amounts committed to projects in 2004-2005, unless otherwise noted. Committed amounts may not be fully realized.

Table 8.2

2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 IOU PARTNERSHIP PROGRAMS

	2005		2005		2005		2004-05		2004-05		2004-05	
	First Year Net Annualized Capacity Savings (MW)	[1.2]	First Year Net Annualized Energy Savings (kWh)	[1.2]	2005 Net Lifecycle Energy Savings (kWh)	[1.2]	First Year Net Annualized Capacity Savings (MW)	[1.3]	First Year Net Annualized Energy Savings (kWh)	[1.3]	2004-05 Net Lifecycle Energy Savings (kWh)	[1.3]
Bakersfield/Kern Energy Watch - PGC	0.31		1,984,510		26,069,248		0.33		2,156,294		28,325,669	
The Energy Coalition - PGC	3.53		16,119,190		80,595,952		5.21		22,011,923		110,059,614	
LA County/SCE/SCG Partnership - PGC	0.53		6,377,796		98,285,672		0.53		6,377,796		98,285,672	
City of Pomona - PGC	0.04		312,079		4,758,224		0.04		312,079		4,758,224	
South Bay Cities Energy Efficiency Center - PGC	-		5,219,504		77,747,182		-		-		77,747,182	
IOU/UC/CSU Partnership - PGC	0.56		2,695,838		26,958,377		0.49		2,695,838		26,958,377	
Ventura REA - PGC	0.49											
IOU Partnership Programs Total	5.46		32,708,916		314,414,655		7.16		38,773,433		346,134,938	

[1] Net Savings reflect Commission-adopted net-to-gross ratios.

[2] Includes savings from projects both installed in 2005 and committed to projects in 2005. Committed amounts may not be fully realized.

[3] Includes savings from projects both installed in 2004-2005 and committed to projects in 2004-2005. Committed amounts may not be fully realized.

IOU Partnerships Program Area

Table 8.3
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
(Benefit-Cost Ratios)
IOU PARTNERSHIP PROGRAMS

	2005 Program Administrator Cost Test	[1]	2005 Total Resource Cost Test	[1]	2005 Levelized Cost (cents/kWh)	[1]	2004-05 Program Administrator Cost Test	[1]	2004-05 Total Resource Cost Test	[1]	2004-05 Levelized Cost (cents/kWh)	[1]
Bakersfield/Kern Energy Watch - PGC	2.11		2.68		3.64		2.00		2.45		4.80	
The Energy Coalition - PGC	2.34		1.45		3.51		1.76		1.21		5.04	
LA County/SCE/SCG Partnership - PGC	1.23		1.09		10.11		1.19		1.06		12.42	
City of Pomona - PGC	1.03		0.64		17.05		0.48		0.37		35.10	
South Bay Cities Energy Efficiency Center - PGC	-		-		-		-		-		-	
IOU/UC/CSU Partnership - PGC	0.82		1.14		9.36		0.60		0.83		15.34	
Ventura REA - PGC	1.82		1.13		7.29		1.40		0.95		10.36	
IOU Partnership Programs Total	1.34		1.22		6.33		1.10		1.02		8.59	

[1] Includes costs depicted in Table TA 8.1 - Program Cost Estimates Used for Cost-Effectiveness - Partnership Program Area.

IOU Partnerships Program Area

Table 8.4
 2006 Energy Efficiency Annual Report
 SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
 IOU PARTNERSHIP PROGRAMS
 (Net Benefits)

		2005 TRC	[1]		2004-05 TRC
Bakersfield/Kern Energy Watch - PGC	\$	787,437		\$	814,439
The Energy Coalition - PGC		1,661,267		\$	1,262,074
LA County/SCE/SCG Partnerhsip - PGC		356,067		\$	244,378
City of Pomona - PGC		(125,261)		\$	(374,180)
South Bay Cities Energy Efficiency Center - PGC		(325,292)		\$	(741,346)
IOU/UC/CSU Partnership - PGC		436,382		\$	(734,994)
Ventura REA - PGC		164,323		\$	(74,466)
IOU Partnership Programs Total		\$ 2,954,922		\$ 395,905	

[1] Includes costs depicted in Table TA 8.1 - Program Cost Estimates Used for Cost-Effectiveness - Partnership Program Area.

Non-IOU Programs

Program Description

In Decisions 03-12-060 and 04-02-059, the California Public Utilities Commission approved funding for programs to be implemented by entities, other than the investor-owned utilities, that include local governments, non-profit/community based organizations, and private firms.

The non-utility programs for which the Commission authorized funding complement the statewide and local programs offered by the utilities. They generally focus on hard-to-reach sectors such as very small commercial customers, mobile home residents in rural communities, agricultural and industrial customers. Some offer information, education, and training programs to a

variety of customer segments. Among them are non-utility programs funded in 2002-03 that once again were selected by the Commission through a competitive bid process.

2005 Results and Achievements

Energy savings and demand reduction results for the non-utility programs offered in SCE's service territory are in the attached tables

Non-IOU Programs

Table 9.1
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
NON-IOU PROGRAMS

	2005 Budget	[1]	2005 Recorded	[1,2]	2004-05 Budget	[1]	2004-05 Recorded	[1,2]
Mobile Energy Clinic	\$ 362,730	\$	414,329	\$	725,460	\$	647,555	
Green Campus Pilot Program	295,041		302,838		590,081		401,615	
Green Schools Program	756,998		661,723		1,513,995		1,030,302	
Comprehensive Hard-to-Reach Mobile Home Program	1,250,000		1,137,033		2,500,000		2,314,376	
Energy Savers Program	1,766,731	[3]	1,232,245	[3]	3,278,636	[3]	2,664,755	[3]
Building Energy Code Training	362,421	[4]	393,496	[4]	724,842	[4]	672,219	[4]
Nonresidential Fenestration Certification Initiative (NFCI)	154,429		111,310		308,859		126,525	
California Multi Measure Farm Program	56,338		72,892		145,053		128,432	
Emerging Communities Energy Efficiency Program	930,002		746,420		2,000,000		1,732,615	
Chinese Language Efficiency Outreach (CLEOS)	236,245		218,818		507,889		455,657	
Performance 4	1,091,463		315,564		2,182,925		639,531	
Designed for Comfort, Efficient Affordable Housing	423,225	[5]	317,038		846,449	[5]	459,574	
Enhanced Automation Initiative	374,704		593,441		749,407		720,307	
Long Beach B.E.S.T. Program	824,749		1,007,249		1,649,497		1,531,719	
EEGOV B.E.S.T.	1,098,688		1,561,238		2,197,377		1,785,967	
Prototype Community Energy Efficiency Programs	736,834		737,110		1,473,668		1,276,923	
EnergySmart Grocer	1,371,944		1,223,030		2,743,888		2,383,599	
Building Tune-Up Program	1,820,763		2,418,248		3,641,526		3,036,299	
RCA Verification Program for New Air Conditioners	302,313		349,961		604,626		556,341	
Agricultural Pumping Efficiency Program	251,820		136,868		501,500		164,424	
Residential Duct Services	367,500		499,251		735,000		591,940	
Non-IOU Programs Total	\$ 14,834,937		\$ 14,450,101		\$ 29,620,679		\$ 23,320,675	

[1] Data reflects approved workbooks submitted through December 2005, except where otherwise noted.

[2] All Recorded amounts include payments in 2005 and amounts committed to projects in 2005. Committed amounts may not be fully realized.

[3] Reflects a budget increase, authorized by D.05-05-029.

[4] Data reflects the approved workbook through November 2005.

[5] Reflects the Workbook budget, which may differ from the Decision authorized budget.

Table 9.2
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
NON-IOU PROGRAMS

	2005		2005		2005		2004-05		2004-05		2004-05	
	First Year Net Annualized Capacity Savings (MW)	[1,2,3]	First Year Net Annualized Energy Savings (kWh)	[1,2,3]	Net Lifecycle Energy Savings (kWh)	[1,2,3]	First Year Net Annualized Capacity Savings (MW)	[1,2,4]	First Year Net Annualized Energy Savings (kWh)	[1,2,4]	Net Lifecycle Energy Savings (kWh)	[1,2,4]
Mobile Energy Clinic	0.25		1,304,943		10,439,542		0.39		2,044,140		16,353,120	
Green Campus Pilot Program	-		-		-		-		-		-	
Green Schools Program	1.61		3,958,574		40,886,808		3.04		7,244,785		75,060,571	
Comprehensive Hard-to-Reach Mobile Home Program	0.73		3,619,035		57,879,463		2.05		10,202,798		163,100,039	
Energy Savers Program	-	[5]	-	[5]	-	[5]	0.41	[5]	637,545	[5]	12,750,890	[5]
Building Energy Code Training	-		-		-		-		-		-	
Nonresidential Fenestration Certification Initiative (NFCI)	-		-		-		-		-		-	
California Multi Measure Farm Program	0.08		391,500		5,776,500		0.11		546,000		8,088,000	
Emerging Communities Energy Efficiency Program	0.44		1,473,989		18,812,941		1.06		4,128,210		55,153,903	
Chinese Language Efficiency Outreach (GLEOS)	-		-		-		-		-		-	
Performance 4	0.15		181,459		3,072,353		0.27		344,796		5,774,655	
Designed for Comfort, Efficient Affordable Housing	0.11		117,683		1,795,789		0.11		119,136		1,807,411	
Enhanced Automation Initiative	1.29		3,800,000		47,880,000		1.29		3,800,000		47,880,000	
Long Beach B.E.S.T. Program	0.96		3,940,438		58,521,463		1.35		5,617,991		80,313,919	
EEGOV B.E.S.T. Program	1.70		6,928,118		106,078,011		1.78		7,254,625		110,965,136	
Prototype Community Energy Efficiency Programs	-		-		-		-		-		-	
EnergySmart Grocer	1.81		11,652,178		118,734,225		2.89		19,396,821		204,740,756	
Building Tune-Up Program	3.03		11,256,432		90,051,453		3.03		11,256,432		90,051,453	
RCA Verification Program for New Air Conditioners	1.36		1,442,825		21,642,379		1.46		1,566,413		23,496,200	
Agricultural Pumping Efficiency Program	-		701,250		10,518,750		-		701,250		10,518,750	
Residential Duct Services	1.42		1,456,259		23,601,432		1.60		1,609,039		26,225,258	
Non-IOU Programs Total	14.91		52,224,682		615,691,110		20.83		76,469,981		932,260,062	

[1] Data reflects approved workbooks submitted through December 2005, except where otherwise noted.
 [2] Net Savings reflect Commission-adopted net-to-gross ratios.
 [3] Includes savings from projects both installed in 2005 and committed to projects in 2005. Committed amounts may not be fully realized.
 [4] Includes savings from projects both installed in 2004-2005 and committed to projects in 2004-2005. Committed amounts may not be fully realized.
 [5] Data reflects the approved workbook through November 2005.

Non-IOU Programs

Table 9.3
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
(Benefit-Cost Ratios)
NON-IOU PROGRAMS

	2005 Program Administrator Cost Test	2005 Total Resource Cost Test	2005 Levelized Cost (cents/kWh)	2004-05 Program Administrator Cost Test	2004-05 Total Resource Cost Test	2004-05 Levelized Cost (cents/kWh)
Mobile Energy Clinic	1.45	1.73	4.65	1.45	1.73	4.63
Green Campus Pilot Program	-	-	-	-	-	-
Green Schools Program	-	-	-	-	-	-
Comprehensive Hard-to-Reach Mobile Home Program	1.69	2.73	3.71	1.52	2.42	4.12
Energy Savers Program	2.10	4.67	4.92	2.74	1.83	4.45
Building Energy Code Training	-	[1]	-	1.33	1.33	10.86 [1]
Nonresidential Fenestration Certification Initiative (NFCI)	-	-	-	-	-	-
California Multi Measure Farm Program	3.62	2.35	3.41	2.87	1.93	4.16
Emerging Communities Energy Efficiency Program	1.18	1.58	6.01	1.48	2.33	4.59
Chinese Language Efficiency Outreach (CLEOS)	-	-	-	-	-	-
Performance 4	1.12	0.79	27.33	1.03	0.74	28.59
Designed for Comfort, Efficient Affordable Housing	0.45	0.45	31.56	0.31	0.31	45.41
Enhanced Automation Initiative	4.41	2.26	3.96	3.63	2.04	4.39
Long Beach B.E.S.T. Program	2.63	2.56	3.11	2.38	2.23	3.51
EEGOV B.E.S.T.	3.33	2.82	3.11	3.03	2.61	3.33
Prototype Community Energy Efficiency Programs	-	-	-	-	-	-
EnergySmart Grocer	4.74	1.75	4.22	4.15	1.62	4.56
Building Tune-Up Program	2.36	2.70	3.29	1.88	2.35	3.78
RCA Verification Program for New Air Conditioners	2.82	2.99	2.69	1.92	2.02	4.00
Agricultural Pumping Efficiency Program	3.50	1.64	4.90	2.91	1.50	5.37
Residential Duct Services	2.82	1.79	6.10	2.65	1.71	6.43
Non-IOU Programs Total	2.19	1.82	4.60	2.01	1.68	5.00

[1] Data reflects the approved workbook through November 2005.

Non-IOU Programs

Table 9.4
2006 Energy Efficiency Annual Report
SUMMARY OF COST-EFFECTIVENESS: ELECTRIC
NON-IOU PROGRAMS
(Net Benefits)

	2005 TRC	[1]	2004-05 TRC	[1]
Mobile Energy Clinic	\$ 252,297		\$ 396,687	
Green Campus Pilot Program	(302,838)		(401,615)	
Green Schools Program	(661,723)		(1,030,302)	
Comprehensive Hard-to-Reach Mobile Home Program	1,214,773		2,071,736	
Energy Savers Program	1,028,544		3,319,021	
Building Energy Code Training	(393,496)	[2]	224,166	[2]
Nonresidential Fenestration Certification Initiative (NFCI)	(111,310)		(126,525)	
California Multi Measure Farm Program	151,947		177,332	
Emerging Communities Energy Efficiency Program	323,009		1,459,679	
Chinese Language Efficiency Outreach (CLEOS)	(218,818)		(455,657)	
Performance 4	(92,395)		(225,688)	
Designed for Comfort, Efficient Affordable Housing	(176,341)		(318,483)	
Enhanced Automation Initiative	1,458,294		1,331,428	
Long Beach B.E.S.T. Program	1,614,263		2,014,749	
EEGOV B.E.S.T.	3,352,962		3,345,121	
Prototype Community Energy Efficiency Programs	(737,110)		(1,276,923)	
EnergySmart Grocer	2,480,557		3,782,485	
Building Tune-Up Program	3,589,554		3,276,566	
RCA Verification Program for New Air Conditioners	656,754		539,454	
Agricultural Pumping Efficiency Program	187,636		160,080	
Residential Duct Services	622,457		653,424	
Non-IOU Programs Total	<u>\$ 14,239,016</u>		<u>\$ 18,916,735</u>	

[1] Data reflects approved workbooks submitted through December 2005, except where otherwise noted.

[2] Data reflects the approved workbook through November 2005.

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SECTION IX – DSM BALANCING ACCOUNTS

Section I - General Information

This section contains narrative that documents and explains the data shown for Table TA-1.1.

Table TA 1.1 Avoided Costs for 2004-2005 Programs

The avoided cost forecast in Table TA 1.1 represents those costs utilized in the planning and delivery of SCE energy efficiency programs in 2004-2005. This forecast is consistent with the forecast utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

Avoided costs for the 2004-2005 programs, as presented in Table TA 1.1, reflect the statewide inputs to avoided costs as adopted in the Commission's Energy Efficiency Policy Manual, Decision 03-08-067. These costs remained unchanged from those adopted in Decision 01-11-066. These costs were also included in the program workbooks circulated by the Commission for public use in calculating the 2004-2005 program forecast cost effectiveness.

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Table TA 1.1
2005 Energy Efficiency Annual Report
AVOIDED COSTS: ELECTRIC (\$/kWh)

2004-2005				
Year	Gen \$/kWh	T&D \$/kWh	Env.Ext. \$/kWh	Total \$/kWh
2004	\$0.05	\$0.01	\$0.01	\$0.07
2005	\$0.05	\$0.01	\$0.01	\$0.07
2006	\$0.05	\$0.01	\$0.01	\$0.06
2007	\$0.05	\$0.01	\$0.01	\$0.07
2008	\$0.05	\$0.01	\$0.01	\$0.07
2009	\$0.06	\$0.01	\$0.01	\$0.07
2010	\$0.06	\$0.01	\$0.01	\$0.07
2011	\$0.06	\$0.01	\$0.01	\$0.08
2012	\$0.06	\$0.01	\$0.01	\$0.08
2013	\$0.06	\$0.01	\$0.01	\$0.08
2014	\$0.07	\$0.01	\$0.01	\$0.08
2015	\$0.07	\$0.01	\$0.01	\$0.09
2016	\$0.07	\$0.01	\$0.01	\$0.09
2017	\$0.08	\$0.01	\$0.01	\$0.10
2018	\$0.08	\$0.01	\$0.01	\$0.10
2019	\$0.08	\$0.01	\$0.01	\$0.11
2020	\$0.09	\$0.01	\$0.01	\$0.11
2021	\$0.09	\$0.01	\$0.01	\$0.12
2022	\$0.10	\$0.01	\$0.01	\$0.12
2023	\$0.10	\$0.01	\$0.01	\$0.13

Section II - Residential Program Area

This section contains narrative that documents and explains the data shown for Tables TA 2.1 through TA 2.5.

Table TA 2.1 Program Cost Estimates Used for Cost-Effectiveness - Residential Program Area

This table documents those costs used in determining the cost-effectiveness of residential energy efficiency programs. These tables provide all program costs, including costs expended in 2005 and those costs associated with commitments from 2005 programs.

Program Incentives (Recorded)

Incentive costs represent incentives paid to customers during 2005 (Actual) as well as incentives associated with commitments from the 2005 residential programs (Committed).

Program Administrative Costs (Recorded)

These costs include all expenditures directly charged to the program with the exception of incentive costs. The administrative costs consist of labor, non-labor, contract labor, and allocated material costs (See Also Table TA 2.2). These costs represent administrative costs expended during 2005 (Actual) as well as administrative costs associated with the handling of commitments from the 2005 residential programs (Committed).

Shareholder Incentives

Costs represented in the Shareholder Incentives column would represent an allocated amount of the total performance awards earned during a particular program year. There were no shareholder incentives authorized for 2005.

Other Costs

Costs represented in the Other Costs column represent the MA&E costs for the statewide programs. MA&E costs for the applicable Residential Procurement-funded programs are included in the Program Administrative Costs column. Other allocated costs recorded in the Other Costs category in previous Energy Efficiency Annual Reports (e.g., General Support, Regulatory Support, CPUC Staff, and Summer Initiative Administrative) are now recorded in the Program Administrative Costs column.

Total Utility Costs

The sum of the Program Incentives (Recorded) columns, Program Administrative Costs (Recorded) columns, Shareholder Incentives, and Other costs.

Incremental Measure Costs (Net)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. SCE's incremental measure costs are typically derived from the latest cost source available for the particular measure(s), including recent measure cost studies. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. The net-to-gross ratios are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

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Table TA 2.2 Direct and Allocated Administrative Costs - Residential Program Area

This table documents the breakdown of the actual administrative costs used in determining the cost-effectiveness of residential energy efficiency programs. These tables provide detail of all actual program administrative costs expended in 2005. These costs include the costs of Market Assessment & Evaluation for the Residential Procurement-funded Energy Efficiency Programs, regulatory support, and other energy efficiency support costs.

Labor Costs (Actual)

Labor costs consist of SCE labor charges that are directly charged to the program. These costs include salaries and expenses of SCE employees engaged in developing energy efficiency marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems. The reported costs reflect only the actual costs incurred in 2005 in support of 2005 residential programs.

Non-Labor Costs (Actual)

Non-labor costs include materials, consultant fees, vendor contracts, and other miscellaneous costs charged directly to the program. These costs include items such as booklets, brochures, promotions, training, membership dues, postage, telephone, supplies, printing/photocopying services, and computer support services. Several programs contain a significant amount of Non-Labor administrative costs due to the use of vendor contracts in the delivery of these programs.

Contract Labor Costs (Actual)

Labor costs consist of contract employees' labor charges that are directly charged to the program. These costs include salaries and expenses of contract employees engaged in developing energy efficient marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems.

Allocated Administrative Costs (Actual)

Allocated administrative costs represent those for building lease and maintenance costs and management oversight expenditures. In addition, the 2005 Allocated Administrative Costs (Actual) category includes costs related to systems support, regulatory support, internal audits, and other costs which are allocated to the programs.

Total Administrative Costs (Actual)

The summation of the aforementioned utility administrative costs - Labor, Non-labor, Contract, and Allocated Administrative costs.

Table TA 2.3 Market Effects: Projected Annual Program Energy Reductions - Residential Program Area

The projected annual program energy reductions for the residential program area, presented in TA 2.3, are derived from ex ante estimates of energy savings. These estimates are based upon the measure level savings data submitted in SCE's September 23, 2003 Application for 2004-2005 Energy Efficiency Program Funding and adopted in Decisions D.03-12-060 and D.04-02-059. These estimates have been updated, as applicable, to correspond with the actual program implementation during 2005 and to reflect actual program results as of December 31, 2005. Recorded savings amounts reflect all 2005 program impacts, including impacts from measures installed in 2005 and those impacts associated with commitments from 2005 programs.

Inputs and assumptions for these estimates are described in this section. Projections of annual program energy reductions are developed similarly across program areas, but the specifics of each program area will be discussed in the individual sections to this Technical Appendix.

Program Energy Reduction Assumptions

Annual program energy reduction estimates for residential programs supplied in the September 23, 2003 Application for 2004-2005 Energy Efficiency Program Funding and submitted herein as the 2005 program results are the result of a summation of measure-level savings from the measures installed or committed to be installed as a result of the 2005 residential programs. The measure-level savings information used to calculate the 2005 program results are based upon the latest energy savings data available for the particular measure(s), including measurement studies, historical program results, and engineering estimates. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use.

The Effective Useful Life is the length of time (years) for which the load impacts of an energy efficiency measure are expected to last. The useful life estimates are also based upon the Energy Efficiency Policy Manual, adopted in Decision 03-08-067.

Table TA 2.4 Measure Detail - Residential Program Area

Table TA 2.4 provides measure-level detail for all of SCE's residential energy efficiency programs with 2005 energy saving goals.

End Use & Measure Description

Detail the actual measures installed or committed to be installed as a result of the 2005 residential programs.

Quantity (Recorded)

Derived from SCE's program tracking databases, the number of units installed or committed to be installed as a result of the 2005 residential programs.

Total Resource Costs - Administrative Costs (Recorded)

These costs include all expenditures directly charged to the program with the exception of incentive costs. These costs represent administrative costs expended during 2005 as well as administrative costs associated with the handling of commitments from the 2005 residential programs. The Summation of the "Total Resource Costs - Admin" and "Total Resource Costs - IMC" column values comprise the Total Resource Costs for Levelizing ("LCRC") as specified in the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001.

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Total Resource Costs – Incremental Measure Costs (Recorded)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. SCE's incremental measure costs are typically derived from the latest cost source available for the particular measure(s), including recent measure cost studies. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. The net-to-gross ratios are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding. The summation of the "Total Resource Costs – Admin" and "Total Resource Costs – IMC" column values comprise the Total Resource Costs for Levelizing ("LCRC") as specified in the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001.

Total Resource Benefits – Lifecycle kWh

Annual net kWh savings multiplied by the measure Useful Life.

Useful Life

Assumption of the useful life of the measure, used to determine the lifecycle energy savings. The useful life estimates are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

Levelized Costs

The TRC Levelized Cost, calculated pursuant to the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001. These costs, represented as a cents/kWh, are calculated by the summation of the "Total Resource Costs – Admin" and "Total Resource Costs – IMC" column values which comprise the Total Resource Costs for Levelizing ("LCRC") divided by the Total Discounted Load Impacts of the Program ("IMP"). The discount rate utilized is 8.15 %, as specified in the Energy Efficiency Policy Manual, Decision 03-08-067.

Table TA 2.5 Distribution of RCP Payments - Residential Program Area

SCE's Residential Contractor Program (RCP) was designed to provide incentives to different energy service providers and customers. Table TA 2.5 identifies the distribution of recorded payments to project sponsors (multi-family), energy service providers, and contractors (single-family), and delineates any payments made to affiliates of the utility distribution company. Thus, the amounts in the "Total" column represent the total dollar amount allocated to a particular project sponsor or contractor. The table also demonstrates the payments made for particular end-uses. Each of these allocations of payments, by recipient and end-use, is based upon information contained in SCE's tracking system for this program.

Table TA 2.5 is not applicable to SCE's 2005 Energy Efficiency programs. SCE did not offer the RCP or a Residential SPC program in 2005.

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Table TA 2.1
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 PROGRAM COST ESTIMATES USED FOR COST-EFFECTIVENESS - RESIDENTIAL PROGRAM AREA
 2005

	Program Incentives (Recorded)		Program Administrative Costs (Recorded)		Shareholder Incentives [3]	Other Costs [1,2,4]	Total Utility Costs [1,2]	Incremental Measure Costs [1,2]
	Actual	Committed	Actual	Committed				
Information	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EMS	-	-	1,557,366	63,255	-	70,883	1,691,504	-
EEI								
SPCs (RCP)	-	-	-	-	-	-	-	-
Rebates	37,602,987	4,374,457	6,039,057	769,025	-	463,861	49,249,387	61,790,932
Loans	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Upstream Programs								
Information	-	-	-	-	-	-	-	-
Financial Assistance	-	-	-	-	-	-	-	-
Residential Total	\$ 37,602,987	\$ 4,374,457	\$ 7,596,423	\$ 832,280	\$ -	\$ 534,744	\$ 50,940,891	\$ 61,790,932

[1] Includes both PGC and Procurement funded programs.

[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

[3] The Commission authorized no Shareholder Performance Awards in 2005.

[4] Includes program-specific Statewide MA&E costs.

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Table TA 2.2
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DIRECT AND ALLOCATED ADMINISTRATIVE COSTS - RESIDENTIAL PROGRAM AREA
 2005

	Actual Labor	[1,2]	Actual Non-Labor	[1,2]	Actual Contract	[1,2]	Actual Allocated	[1,2]	Actual Admin Total	[1,2]
Information	\$ -		\$ -		\$ -		\$ -		\$ -	
EMS	143,325		1,311,302		4,319		98,420		1,557,366	
EEI										
SPCs (RCP)	-		-		-		-		-	
Rebates	1,426,747		2,711,705		1,040,083		860,523		6,039,057	
Loans	-		-		-		-		-	
Other	-		-		-		-		-	
Upstream Programs										
Information	-		-		-		-		-	
Financial Assistance	-		-		-		-		-	
Residential Total	<u>\$ 1,570,072</u>		<u>\$ 4,023,006</u>		<u>\$ 1,044,402</u>		<u>\$ 958,943</u>		<u>\$ 7,596,423</u>	

[1] Includes both PGC and Procurement funded programs.

[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

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Table TA 2.3
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 MARKET EFFECTS: PROJECTED ANNUAL PROGRAM ENERGY AND DEMAND REDUCTIONS- RESIDENTIAL PROGRAM AREA
 2005

Information			EMS			EEI		
Year	(MW)	(MWH)	Year	(MW)	(MWH)	Year	(MW)	(MWH)
2005	0.000	0	2005	0.000	0	2005	0.000	0
2006	0.000	0	2006	0.000	0	2006	0.000	0
2007	0.000	0	2007	0.000	0	2007	0.000	0
2008	0.000	0	2008	0.000	0	2008	0.000	0
2009	0.000	0	2009	0.000	0	2009	0.000	0
2010	0.000	0	2010	0.000	0	2010	0.000	0
2011	0.000	0	2011	0.000	0	2011	0.000	0
2012	0.000	0	2012	0.000	0	2012	0.000	0
2013	0.000	0	2013	0.000	0	2013	0.000	0
2014	0.000	0	2014	0.000	0	2014	0.000	0
2015	0.000	0	2015	0.000	0	2015	0.000	0
2016	0.000	0	2016	0.000	0	2016	0.000	0
2017	0.000	0	2017	0.000	0	2017	0.000	0
2018	0.000	0	2018	0.000	0	2018	0.000	0
2019	0.000	0	2019	0.000	0	2019	0.000	0
2020	0.000	0	2020	0.000	0	2020	0.000	0
2021	0.000	0	2021	0.000	0	2021	0.000	0
2022	0.000	0	2022	0.000	0	2022	0.000	0
2023	0.000	0	2023	0.000	0	2023	0.000	0
2024	0.000	0	2024	0.000	0	2024	0.000	0
Total	0.000	0	Total	0.000	0	Total	0.000	0

EEI			EEI			EEI		
Rebates			Loans			Other		
Year	(MW)	(MWH)	Year	(MW)	(MWH)	Year	(MW)	(MWH)
2005	102.371	496,058	2005	0.000	0	2005	0.000	0
2006	102.371	496,058	2006	0.000	0	2006	0.000	0
2007	102.371	496,058	2007	0.000	0	2007	0.000	0
2008	102.371	496,058	2008	0.000	0	2008	0.000	0
2009	102.371	496,058	2009	0.000	0	2009	0.000	0
2010	102.371	496,058	2010	0.000	0	2010	0.000	0
2011	102.371	496,058	2011	0.000	0	2011	0.000	0
2012	102.371	496,058	2012	0.000	0	2012	0.000	0
2013	102.371	496,058	2013	0.000	0	2013	0.000	0
2014	102.371	496,058	2014	0.000	0	2014	0.000	0
2015	0.000	0	2015	0.000	0	2015	0.000	0
2016	0.000	0	2016	0.000	0	2016	0.000	0
2017	0.000	0	2017	0.000	0	2017	0.000	0
2018	0.000	0	2018	0.000	0	2018	0.000	0
2019	0.000	0	2019	0.000	0	2019	0.000	0
2020	0.000	0	2020	0.000	0	2020	0.000	0
2021	0.000	0	2021	0.000	0	2021	0.000	0
2022	0.000	0	2022	0.000	0	2022	0.000	0
2023	0.000	0	2023	0.000	0	2023	0.000	0
2024	0.000	0	2024	0.000	0	2024	0.000	0
Total	102.371	4,960,578	Total	0.000	0	Total	0.000	0

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Table TA 2.3
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 MARKET EFFECTS: PROJECTED ANNUAL PROGRAM ENERGY AND DEMAND REDUCTIONS- RESIDENTIAL PROGRAM AREA
 2005

Upstream Programs Information			Upstream Programs Financial Assistance		
Year	(MW)	(MWH)	Year	(MW)	(MWH)
2005	0.000	0	2005	0.000	0
2006	0.000	0	2006	0.000	0
2007	0.000	0	2007	0.000	0
2008	0.000	0	2008	0.000	0
2009	0.000	0	2009	0.000	0
2010	0.000	0	2010	0.000	0
2011	0.000	0	2011	0.000	0
2012	0.000	0	2012	0.000	0
2013	0.000	0	2013	0.000	0
2014	0.000	0	2014	0.000	0
2015	0.000	0	2015	0.000	0
2016	0.000	0	2016	0.000	0
2017	0.000	0	2017	0.000	0
2018	0.000	0	2018	0.000	0
2019	0.000	0	2019	0.000	0
2020	0.000	0	2020	0.000	0
2021	0.000	0	2021	0.000	0
2022	0.000	0	2022	0.000	0
2023	0.000	0	2023	0.000	0
2024	0.000	0	2024	0.000	0
Total	0.000	0	Total	0.000	0

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Table TA 2.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
RESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Residential Refrigerator Recycling - PGC							
Refrigeration	Refrigerators	34,780	\$ 530	\$ 1,631	142,131,948	6	\$ 1.98
Refrigeration	Freezers	5,270	106	381	28,378,318	6	2.24
Residential - Single Family EE Rebates - PGC							
SF Rebates	Pool Pump & Motor - Single Speed	3,048	717	1,287	51,828,192	15	6.84
SF Rebates	Pool Pump & Motor - Two speed	98	13	41	923,160	15	10.38
SF Rebates	Room A/C - 5,000 to 18,000 btuh	1,700	36	144	2,590,800	15	12.29
SF Rebates	Electric Water Heater > .93	-	-	-	-	-	#DIV/0!
SF Rebates	Electric Water Heater > .93 (2005)	33	1	2	65,290	13	6.89
SF Rebates	High Performance Window	217	0	0	4,796	20	16.50
SF Rebates	Programmable Thermostat	26	1	1	79,669	12	5.10
SF Rebates	Programmable Thermostat (2005)	12,154	556	627	37,242,272	12	5.10
SF Rebates	Attic Insulation	2,555	0	1	1,384	20	171.79
SF Rebates	Wall Insulation	-	-	-	-	20	#DIV/0!
SF Rebates	Whole House Fan	471	51	60	3,900,982	18	5.48
SF Rebates	Evaporative Cooler Tier I	301	61	96	3,467,300	7	6.15
SF Rebates	Evaporative Cooler Tier I/damper	85	18	27	1,001,473	7	6.07
SF Rebates	Evaporative Cooler Tier II	-	-	-	-	7	#DIV/0!
SF Rebates	Evaporative Cooler Tier II/damper	9	2	3	123,661	7	5.54
SF Rebates	Energy Star AC - Tier I	1,205	99	682	7,644,424	18	19.83
SF Rebates	Energy Star AC - Tier I with TXV	4	0	2	27,152	18	18.70
SF Rebates	Central AC - Tier II	2,037	229	3,053	17,635,956	18	36.11
SF Rebates	Energy Star HP - Tier I	-	-	-	-	18	#DIV/0!
SF Rebates	Energy Star HP - Tier I (2005)	68	7	24	573,635	18	10.66
SF Rebates	Energy Star HP - Tier I, with TXV	-	-	-	-	18	#DIV/0!
SF Rebates	Central Heat Pump - Tier II	-	-	-	-	18	#DIV/0!
SF Rebates	Central Heat Pump - Tier II (2005)	7	2	4	118,245	18	8.78
SF Rebates	Duct Test - Single Family	-	-	-	-	10	#DIV/0!
SF Rebates	Duct Sealing - Single Family	-	-	-	-	20	#DIV/0!
Upstream Lighting	Screw-in CFL 5 Watt <450 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 7 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 9 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 10 Watt <450 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 10 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 10 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 11 Watt <450 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 11 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 11 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 12 Watt <450 Lumens (closed lamp)	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 12 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 12 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 13 Watt <450 Lumens (closed lamp)	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 13 Watt 450 to 799 Lumens	25,920	3	89	6,439,648	9	2.07
Upstream Lighting	Screw-in CFL 13 Watt 800 to 1,099 Lumens	21,312	5	73	9,216,911	9	1.22
Upstream Lighting	Screw-in CFL 14 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 14 Watt 800 to 1,099 Lumens	139,000	29	476	58,835,030	9	1.25
Upstream Lighting	Screw-in CFL 15 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 15 Watt 800 to 1,099 Lumens	20,900	4	72	8,654,105	9	1.27
Upstream Lighting	Screw-in CFL 16 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 16 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 16 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 17 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 17 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 17 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 18 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 18 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 18 Watt 1,100 to 1,399 Lumens	37,632	10	129	19,737,653	9	1.02
Upstream Lighting	Screw-in CFL 19 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 19 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 19 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 20 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 20 Watt 1,100 to 1,399 Lumens	63,364	16	217	32,067,760	9	1.05

Technical Appendix

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2006 Energy Efficiency Annual Report
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RESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Upstream Lighting	Screw-in CFL 21 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 21 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 22 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 22 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 23 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 23 Watt 1,100 to 1,399 Lumens	5,000	1	17	2,392,416	9	1.11
Upstream Lighting	Screw-in CFL 23 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 23 Watt 1,600 to 1,999 Lumens	30,472	11	104	21,590,119	9	0.77
Upstream Lighting	Screw-in CFL 24 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 24 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 24 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 24 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 25 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 25 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 25 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 25 Watt 1,600 to 1,999 Lumens	249,500	86	854	172,184,940	9	0.79
Upstream Lighting	Screw-in CFL 26 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 26 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 26 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 26 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 27 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 27 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 27 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 27 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 28 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 28 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 28 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 29 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 29 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 29 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 30 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 30 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 30 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 30 Watt 2,000 to 2,599 Lumens	120	0	0	99,377	9	0.67
Upstream Lighting	Screw-in CFL 31 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 31 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 31 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 32 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 32 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 32 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 33 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 33 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 33 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 34 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 34 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 34 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 35 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 35 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 35 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 36 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 36 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 36 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 37 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 37 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 37 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 38 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 38 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 38 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 38 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 39 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 39 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 39 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 39 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 40 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!

Technical Appendix

Table TA 2.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
RESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Upstream Lighting	Screw-in CFL 40 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 40 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 41 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 41 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 41 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 42 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 42 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 42 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 43 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 43 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 43 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 44 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 44 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 44 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 45 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 45 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 45 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 46 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 46 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 46 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 47 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 47 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 47 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 48 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 48 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 48 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 49 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 49 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 49 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 50 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 50 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 50 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 51 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 51 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 51 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 52 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 52 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 52 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 53 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 53 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 53 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 54 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 54 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 54 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 55 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 55 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 55 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Interior Fixture 7 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 8 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 11 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 13 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 13 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 15 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 16 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 17 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 18 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 18 Watt 1,100 to 1,399 Lumens	5,886	3	151	6,860,345	20	4.60
Upstream Lighting	Interior Fixture 18 Watt 1,600 to 1,999 Lumens	1,088	1	28	1,824,289	20	3.22
Upstream Lighting	Interior Fixture 19 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 20 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 20 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 21 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 21 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 22 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!

Technical Appendix

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End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Upstream Lighting	Interior Fixture 22 Watt 1,100 to 1,399 Lumens	180	0	5	195,074	20	4.94
Upstream Lighting	Interior Fixture 23 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 23 Watt 1400 to 1,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 24 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 24 Watt 1400 to 1,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 25 Watt 1400 to 1,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 25 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 26 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 26 Watt 1400 to 1,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 26 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 27 Watt 1400 to 1,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 27 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 28 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 29 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 30 Watt 1,600 to 1,999 Lumens	66	0	2	94,470	20	3.76
Upstream Lighting	Interior Fixture 30 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 32 Watt 2,000 to 2,599 Lumens	112	0	3	201,535	20	3.01
Upstream Lighting	Interior Fixture 36 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 38 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 40 Watt 2,000 to 2,599 Lumens	4,779	3	122	7,817,679	20	3.30
Upstream Lighting	Interior Fixture 42 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 44 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 45 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 48 Watt 3,600 to 4,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 50 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 52 Watt 3,600 to 4,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 54 Watt 3,600 to 4,599 Lumens	90	0	2	268,687	20	1.84
Upstream Lighting	Interior Fixture 55 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 55 Watt 3,600 to 4,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 64 Watt 3,600 to 4,599 Lumens	840	1	22	2,335,980	20	1.97
Upstream Lighting	Interior Fixture 78 Watt 4,600 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Torchiere 55 Watt	-	-	-	-	9	#DIV/0!
Upstream Lighting	Torchiere 63 Watt	-	-	-	-	9	#DIV/0!
Upstream Lighting	Torchiere 65 Watt	-	-	-	-	9	#DIV/0!
Upstream Lighting	Torchiere 70 Watt	-	-	-	-	9	#DIV/0!
Upstream Lighting	Exterior Fixture 7 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 11 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 13 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 13 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 16 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 18 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 18 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 18 Watt 1,600 to 1,999 Lumens	420	1	6	1,642,099	20	0.88
Upstream Lighting	Exterior Fixture 19 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 19 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 20 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 20 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 21 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 22 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 23 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 25 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 26 Watt 1400 to 1,599 Lumens	18	0	0	54,927	20	1.10
Upstream Lighting	Exterior Fixture 26 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 27 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 30 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 32 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 36 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 38 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 40 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 42 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 48 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 50 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 55 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 55 Watt 3,600 to 4,599 Lumens	-	-	-	-	20	#DIV/0!

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Table TA 2.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
RESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Upstream Lighting	Exterior Fixture 65 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 65 Watt 3,600 to 4,599 Lumens	13,396	33	204	86,227,373	20	0.56
Upstream Lighting	Exterior Fixture 70 Watt 3,600 to 4,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 70 Watt ≥4,600 Lumens	-	-	-	-	20	#DIV/0!
Residential - Multi-Family EE Rebates - PGC							
Residential All	ES Screw-in CFL 13 Watt-Exterior	42	0	0	31,399	8	1.67
Residential All	ES Screw-in CFL 20 Watt-Exterior	614	5	2	703,840	8	1.42
Residential All	ES Screw-in CFL 25 Watt-Exterior	76	1	0	118,505	8	1.30
Residential All	ES Screw-in CFL 13 Watt-Interior	2,872	6	11	940,637	8	2.58
Residential All	ES Screw-in CFL 20 Watt-Interior	34,140	116	130	17,015,376	8	2.02
Residential All	ES Screw-in CFL 25 Watt-Interior	7,361	34	28	5,031,391	8	1.73
Residential All	ES R30 Reflector CFL 15 Watt	977	7	4	1,036,480	8	1.46
Residential All	ES R40 Reflector CFL 23 Watt	939	10	4	1,534,096	8	1.28
Residential All	ES Indoor Fluorescent Fixtures	14,010	96	399	17,755,714	16	5.09
Residential All	ES Exterior Fluorescent Fixtures 13 Watt	3,618	31	42	5,667,235	16	2.34
Residential All	ES Exterior Fluorescent Fixtures 27 Watt	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 2-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 2-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 2-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 2-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 2-foot lamp remove	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 3-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 3-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 3-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 3-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 3-foot lamp remove	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 4-foot lamp install	6,277	43	25	7,959,277	16	1.57
Residential All	T-8 or T-5 Lamp and Electronic, 4-foot lamp install	3,717	26	15	4,713,180	16	1.57
Residential All	T-8 or T-5 Lamp and Electronic, 4-foot lamp install	92	1	0	116,657	16	1.57
Residential All	T-8 or T-5 Lamp and Electronic, 4-foot lamp install	92	1	0	116,657	16	1.57
Residential All	T-8 or T-5 Lamp and Electronic, 4-foot lamp remove	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 8-foot lamp remove	-	-	-	-	16	#DIV/0!
Residential All	Electronic Ballast, Non-Dimming	-	-	-	-	16	#DIV/0!
Residential All	Energy Star Ceiling Fan w/ CFL	-	-	-	-	15	#DIV/0!
Residential All	Room A/C - 5,000 to 18,000 btuh	8	0	1	13,564	15	10.82
Residential All	High Performance Window	4,196	1	6	107,713	20	13.03
Residential All	Programmable Thermostat	3,688	65	190	10,592,976	11	3.75
Residential All	Attic Insulation	-	-	-	-	20	#DIV/0!
Residential All	Wall Insulation	-	-	-	-	20	#DIV/0!
Residential All	Energy Star AC - Tier I	-	-	-	-	15	#DIV/0!
Residential All	Energy Star AC - Tier I with TXV	-	-	-	-	15	#DIV/0!
Residential All	Central AC - Tier II	-	-	-	-	15	#DIV/0!
Residential All	Energy Star HP - Tier I	-	-	-	-	15	#DIV/0!
Residential All	Energy Star HP - Tier I with TXV	-	-	-	-	15	#DIV/0!
Residential All	Central Heat Pump - Tier II	-	-	-	-	15	#DIV/0!
Residential All	Package Terminal AC (>2, <50 tons)	-	-	-	-	15	#DIV/0!
Residential All	Package Terminal HP	-	-	-	-	15	#DIV/0!
Residential All	Occupancy Sensor wall mounted	-	-	-	-	8	#DIV/0!
Residential All	Occupancy Sensor ceiling mounted	-	-	-	-	8	#DIV/0!
Residential All	Photocell	2	0	0	1,509	8	18.62
Residential All	Exit Sign Retrofit Kit (LED)	-	-	-	-	16	#DIV/0!
Residential All	LED Exit Sign	74	2	6	332,314	16	4.39
Residential All	2.0 gpm Showerhead	6	0	0	8,042	10	2.95
Residential All	Faucet Aerator	12	0	0	1,250	10	7.14
Residential All	Duct Test - Multifamily	-	-	-	-	10	#DIV/0!
Residential All	Duct Test - Mobile Homes	-	-	-	-	10	#DIV/0!
Residential All	Duct Sealing - Multi Family	-	-	-	-	18	#DIV/0!
Residential All	Duct Sealing - Mobile Homes	-	-	-	-	18	#DIV/0!

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Table TA 2.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
RESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Residential All	Turn-In-Torchiere Floor Lamps replacing halogen la	-	-	-	-	9	#DIV/0!
Residential All	Electric Water Heater EF .93	-	-	-	-	13	#DIV/0!
Residential Refrigerator Recycling - IRP							
Refrigeration	Refrigerators	3,310	784	155	13,526,646	6	9.05
Refrigeration	Freezers	412	129	30	2,218,571	6	9.31
SI - Residential Refrigerator Recycling - IRP							
Refrigeration	Refrigerators	22,420	5,308	1,051	91,621,572	6	9.05
Refrigeration	Freezers	3,553	1,108	257	19,132,479	6	9.31
Residential - Single Family EE Rebates - IRP							
SF Rebates	Pool Pump & Motor - Single Speed	823	66	348	13,994,292	15	5.23
SF Rebates	Pool Pump & Motor - Two speed	25	1	11	235,500	15	8.77
SF Rebates	Room A/C - 5,000 to 18,000 btuh	18,097	131	1,535	27,579,828	15	10.68
SF Rebates	Electric Water Heater > .93	-	-	-	-	13	#DIV/0!
SF Rebates	Electric Water Heater > .93 (2005)	4	0	0	7,914	13	5.30
SF Rebates	High Performance Window	-	-	-	-	20	#DIV/0!
SF Rebates	ES Refrigerator	29,879	157	2,343	33,215,887	15	13.31
SF Rebates	Programmable Thermostat	-	-	-	-	12	#DIV/0!
SF Rebates	Programmable Thermostat (2005)	13,905	218	718	42,607,684	12	3.52
SF Rebates	Attic Insulation	1,884	0	1	1,020	20	170.10
SF Rebates	Wall Insulation	-	-	-	-	20	#DIV/0!
SF Rebates	Whole House Fan	90	3	11	745,411	18	3.82
SF Rebates	Evaporative Cooler Tier I	68	5	22	783,310	7	4.58
SF Rebates	Evaporative Cooler Tier I/damper	13	1	4	153,166	7	4.49
SF Rebates	Evaporative Cooler Tier II	1	0	0	12,291	7	4.34
SF Rebates	Evaporative Cooler Tier II/damper	-	-	-	-	7	#DIV/0!
SF Rebates	Desert Area Air Conditioning	571	50	856	11,315,359	18	15.54
SF Rebates	Energy Star AC - Tier I	532	15	301	3,374,965	18	18.18
SF Rebates	Energy Star AC - Tier I with TXV	-	-	-	-	18	#DIV/0!
SF Rebates	Central AC - Tier II	1,613	62	2,417	13,965,046	18	34.46
SF Rebates	Energy Star HP - Tier I	-	-	-	-	18	#DIV/0!
SF Rebates	Energy Star HP - Tier I (2005)	37	1	13	312,125	18	9.01
SF Rebates	Energy Star HP - Tier I, with TXV	-	-	-	-	18	#DIV/0!
SF Rebates	Central Heat Pump - Tier I (2005)	18	1	10	304,060	18	7.13
SF Rebates	Central Heat Pump - Tier II	-	-	-	-	18	#DIV/0!
SF Rebates	Central Heat Pump - Tier II (2005)	12	1	7	202,707	18	7.13
SF Rebates	Duct Test - Single Family	-	-	-	-	10	#DIV/0!
SF Rebates	Duct Sealing - Single Family	-	-	-	-	20	#DIV/0!
Upstream Lighting	Screw-in CFL 5 Watt <450 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 7 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 9 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 10 Watt <450 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 10 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 10 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 11 Watt <450 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 11 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 11 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 12 Watt <450 Lumens (closed lamp)	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 12 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 12 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 13 Watt <450 Lumens (closed lamp)	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 13 Watt 450 to 799 Lumens	33,650	1	115	8,360,114	9	2.01
Upstream Lighting	Screw-in CFL 13 Watt 800 to 1,099 Lumens	534,264	15	1,829	231,055,930	9	1.16
Upstream Lighting	Screw-in CFL 14 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 14 Watt 800 to 1,099 Lumens	583,164	16	1,997	246,837,926	9	1.18
Upstream Lighting	Screw-in CFL 15 Watt 450 to 799 Lumens	51,120	1	175	11,759,645	9	2.17
Upstream Lighting	Screw-in CFL 15 Watt 800 to 1,099 Lumens	125,554	3	430	51,988,396	9	1.21
Upstream Lighting	Screw-in CFL 15 Watt 1,100 to 1,399 Lumens	21,948	1	75	12,117,403	9	0.91

Technical Appendix

Table TA 2.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
RESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Upstream Lighting	Screw-in CFL 16 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 16 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 17 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 17 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 17 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 18 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 18 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 18 Watt 1,100 to 1,399 Lumens	336,252	12	1,151	176,361,215	9	0.96
Upstream Lighting	Screw-in CFL 19 Watt 450 to 799 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 19 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 19 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 20 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 20 Watt 1,100 to 1,399 Lumens	241,730	8	828	122,336,652	9	0.99
Upstream Lighting	Screw-in CFL 21 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 21 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 22 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 22 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 23 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 23 Watt 1,100 to 1,399 Lumens	35,460	1	121	16,967,014	9	1.05
Upstream Lighting	Screw-in CFL 23 Watt 1400 to 1,599 Lumens	10,000	0	34	6,165,072	9	0.81
Upstream Lighting	Screw-in CFL 23 Watt 1,600 to 1,999 Lumens	978,250	46	3,350	693,112,820	9	0.71
Upstream Lighting	Screw-in CFL 24 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 24 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 24 Watt 1400 to 1,599 Lumens	45,400	2	155	27,571,674	9	0.83
Upstream Lighting	Screw-in CFL 24 Watt 1,600 to 1,999 Lumens	207,500	10	710	145,109,232	9	0.72
Upstream Lighting	Screw-in CFL 25 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 25 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 25 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 25 Watt 1,600 to 1,999 Lumens	715,880	33	2,451	494,043,106	9	0.73
Upstream Lighting	Screw-in CFL 26 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 26 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 26 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 26 Watt 1,600 to 1,999 Lumens	797,358	36	2,730	542,935,734	9	0.74
Upstream Lighting	Screw-in CFL 27 Watt 800 to 1,099 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 27 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 27 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 27 Watt 1,600 to 1,999 Lumens	7,992	0	27	5,368,361	9	0.75
Upstream Lighting	Screw-in CFL 28 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 28 Watt 1400 to 1,599 Lumens	20,000	1	68	11,409,984	9	0.88
Upstream Lighting	Screw-in CFL 28 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 29 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 29 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 29 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 30 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 30 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 30 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 30 Watt 2,000 to 2,599 Lumens	7,488	0	26	6,201,142	9	0.61
Upstream Lighting	Screw-in CFL 31 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 31 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 31 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 32 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 32 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 32 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 33 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 33 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 33 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 34 Watt 1,100 to 1,399 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 34 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 34 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 35 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 35 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 35 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 36 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 36 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!

Technical Appendix

Table TA 2.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
RESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Upstream Lighting	Screw-in CFL 36 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 37 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 37 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 37 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 38 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 38 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 38 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 38 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 39 Watt 1400 to 1,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 39 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 39 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 39 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 40 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 40 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 40 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 41 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 41 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 41 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 42 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 42 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 42 Watt 2,600 to 3,599 Lumens	28,512	2	98	28,334,450	9	0.51
Upstream Lighting	Screw-in CFL 43 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 43 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 43 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 44 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 44 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 44 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 45 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 45 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 45 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 46 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 46 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 46 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 47 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 47 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 47 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 48 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 48 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 48 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 49 Watt 1,600 to 1,999 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 49 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 49 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 50 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 50 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 50 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 51 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 51 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 51 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 52 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 52 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 52 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 53 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 53 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 53 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 54 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 54 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 54 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 55 Watt 2,000 to 2,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 55 Watt 2,600 to 3,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Screw-in CFL 55 Watt 3,600 to 4,599 Lumens	-	-	-	-	9	#DIV/0!
Upstream Lighting	Interior Fixture 7 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 8 Watt 450 to 799 Lumens	85	0	2	29,547	20	15.18
Upstream Lighting	Interior Fixture 11 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 13 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!

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2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Upstream Lighting	Interior Fixture 13 Watt 800 to 1,099 Lumens	400	0	10	302,630	20	6.98
Upstream Lighting	Interior Fixture 15 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 16 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 17 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 18 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 18 Watt 1,100 to 1,399 Lumens	20,728	1	531	24,159,230	20	4.53
Upstream Lighting	Interior Fixture 18 Watt 1,600 to 1,999 Lumens	2,062	0	53	3,457,430	20	3.16
Upstream Lighting	Interior Fixture 19 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 20 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 20 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 21 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 21 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 22 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 22 Watt 1,100 to 1,399 Lumens	1,384	0	35	1,499,902	20	4.88
Upstream Lighting	Interior Fixture 23 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 23 Watt 1400 to 1,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 24 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 24 Watt 1400 to 1,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 25 Watt 1400 to 1,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 25 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 26 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 26 Watt 1400 to 1,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 26 Watt 1,600 to 1,999 Lumens	444	0	11	671,839	20	3.50
Upstream Lighting	Interior Fixture 27 Watt 1400 to 1,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 27 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 28 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 29 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 30 Watt 1,600 to 1,999 Lumens	2,886	0	74	4,130,905	20	3.69
Upstream Lighting	Interior Fixture 30 Watt 2,000 to 2,599 Lumens	36,649	3	938	67,445,888	20	2.88
Upstream Lighting	Interior Fixture 32 Watt 2,000 to 2,599 Lumens	760	0	19	1,367,562	20	2.94
Upstream Lighting	Interior Fixture 36 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 38 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 40 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 42 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 44 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 45 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 48 Watt 3,600 to 4,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 50 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 52 Watt 3,600 to 4,599 Lumens	242	0	6	732,366	20	1.75
Upstream Lighting	Interior Fixture 54 Watt 3,600 to 4,599 Lumens	292	0	7	871,739	20	1.78
Upstream Lighting	Interior Fixture 55 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Interior Fixture 55 Watt 3,600 to 4,599 Lumens	17	0	0	50,404	20	1.79
Upstream Lighting	Interior Fixture 64 Watt 3,600 to 4,599 Lumens	3,601	1	92	10,014,122	20	1.91
Upstream Lighting	Interior Fixture 78 Watt ≥4,600 Lumens	49	0	1	122,238	20	2.12
Upstream Lighting	Torchiere 55 Watt	615	0	2	763,963	9	0.48
Upstream Lighting	Torchiere 63 Watt	-	-	-	-	9	#DIV/0!
Upstream Lighting	Torchiere 65 Watt	-	-	-	-	9	#DIV/0!
Upstream Lighting	Torchiere 70 Watt	300	0	4	331,258	9	1.90
Upstream Lighting	Exterior Fixture 7 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 11 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 13 Watt 450 to 799 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 13 Watt 800 to 1,099 Lumens	156	0	2	349,590	20	0.97
Upstream Lighting	Exterior Fixture 16 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 18 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 18 Watt 1,100 to 1,399 Lumens	11,500	2	120	31,254,240	20	0.80
Upstream Lighting	Exterior Fixture 18 Watt 1,600 to 1,999 Lumens	2,802	1	43	10,955,148	20	0.81
Upstream Lighting	Exterior Fixture 19 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 19 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 20 Watt 800 to 1,099 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 20 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 21 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 22 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 23 Watt 1,100 to 1,399 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 25 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!

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RESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Upstream Lighting	Exterior Fixture 26 Watt 1400 to 1,999 Lumens	48	0	1	146,473	20	1.04
Upstream Lighting	Exterior Fixture 26 Watt 1,600 to 1,999 Lumens	303	0	5	1,069,081	20	0.90
Upstream Lighting	Exterior Fixture 27 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 30 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 32 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 36 Watt 1,600 to 1,999 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 38 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 40 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 42 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 48 Watt 2,000 to 2,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 50 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 55 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 55 Watt 3,600 to 4,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 65 Watt 2,600 to 3,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 65 Watt 3,600 to 4,599 Lumens	64,566	21	981	415,598,429	20	0.50
Upstream Lighting	Exterior Fixture 70 Watt 3,600 to 4,599 Lumens	-	-	-	-	20	#DIV/0!
Upstream Lighting	Exterior Fixture 70 Watt ≥4,600 Lumens	-	-	-	-	20	#DIV/0!
Residential - SI - Single Family EE Rebates - IRP							
Residential All	Pool Pump & Motor - Single Speed	3,996	322	1,688	67,947,984	15	5.23
Residential All	Pool Pump & Motor - Two speed	-	-	-	-	15	#DIV/0!
Residential All	Room A/C - 5,000 to 18,000 btuh	18,393	133	1,660	28,030,932	15	10.68
Residential All	Electric Water Heater > .93	-	-	-	-	13	#DIV/0!
Residential All	High Performance Window	-	-	-	-	20	#DIV/0!
Residential All	ES Refrigerator	11,085	58	869	12,322,973	15	13.31
Residential All	Programmable Thermostat	-	-	-	-	12	#DIV/0!
Residential All	Attic Insulation	-	-	-	-	20	#DIV/0!
Residential All	Wall Insulation	-	-	-	-	20	#DIV/0!
Residential All	Whole House Fan	6,389	235	807	52,915,870	18	3.82
Residential All	Evaporative Cooler Tier I	844	59	270	9,701,694	7	4.59
Residential All	Evaporative Cooler Tier I/damper	157	11	50	1,832,948	7	4.53
Residential All	Evaporative Cooler Tier II	2	0	1	24,581	7	4.34
Residential All	Evaporative Cooler Tier II/damper	4	0	1	45,146	7	4.66
Residential All	Desert Area Air Conditioning	838	73	1,256	16,558,868	18	15.58
Residential All	Energy Star AC - Tier I	2,738	77	1,550	17,369,653	18	18.18
Residential All	Central AC - Tier II	6,287	242	9,423	54,431,644	18	34.46
Residential All	Energy Star HP - Tier I	138	5	49	1,155,706	18	9.07
Residential All	Central Heat Pump - Tier II	60	4	33	996,640	18	7.24
Residential - Multi-Family EE Rebates - IRP							
Residential All	ES Screw-in CFL 13 Watt-Exterior	457	1	2	341,653	8	0.92
Residential All	ES Screw-in CFL 20 Watt-Exterior	1,065	2	4	1,220,831	8	0.68
Residential All	ES Screw-in CFL 25 Watt-Exterior	516	1	2	804,588	8	0.55
Residential All	ES Screw-in CFL 13 Watt-Interior	1,043	1	4	341,603	8	1.84
Residential All	ES Screw-in CFL 20 Watt-Interior	64,587	48	246	32,190,161	8	1.28
Residential All	ES Screw-in CFL 25 Watt-Interior	21,561	22	82	14,737,375	8	0.99
Residential All	ES R30 Reflector CFL 15 Watt	2,549	4	32	2,704,183	8	1.85
Residential All	ES R40 Reflector CFL 23 Watt	849	2	12	1,387,058	8	1.43
Residential All	ES Indoor Fluorescent Fixtures	28,138	43	801	35,660,976	16	4.32
Residential All	ES Exterior Fluorescent Fixtures 13 Watt	16,476	31	191	25,808,006	16	1.57
Residential All	ES Exterior Fluorescent Fixtures 27 Watt	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 2-foot lamp installa-	209	0	4	245,199	16	2.99

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			Admin	IMC			
Residential All	T-8 or T-5 Lamp and Electronic, 2-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 2-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 2-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 2-foot lamp Remov	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 3-foot lamp install	619	1	11	850,915	16	2.58
Residential All	T-8 or T-5 Lamp and Electronic, 3-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 3-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 3-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 3-foot lamp remove	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 4-foot lamp install	13,708	21	183	17,381,833	16	2.14
Residential All	T-8 or T-5 Lamp and Electronic, 4-foot lamp install	9,906	15	132	12,560,872	16	2.14
Residential All	T-8 or T-5 Lamp and Electronic, 4-foot lamp install	1,326	2	18	1,681,377	16	2.14
Residential All	T-8 or T-5 Lamp and Electronic, 4-foot lamp install	1,081	2	14	1,370,715	16	2.14
Residential All	T-8 or T-5 Lamp and Electronic, 4-foot lamp remove	1,987	12	62	10,125,210	16	1.33
Residential All	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	13	0	0	13,865	16	3.19
Residential All	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	-	-	-	-	16	#DIV/0!
Residential All	T-8 or T-5 Lamp and Electronic, 8-foot lamp remove	2	0	0	18,724	16	1.09
Residential All	Electronic Ballast, Non-Dimming	-	-	-	-	16	#DIV/0!
Residential All	Energy Star Ceiling Fan w CFL	1	0	0	434	15	18.36
Residential All	Room A/C - 5,000 to 18,000 btuh	24	0	2	40,691	15	10.06
Residential All	High Performance Window	59,380	2	89	1,524,341	20	12.22
Residential All	Programmable Thermostat	6,016	24	311	17,279,648	11	3.00
Residential All	Attic Insulation	-	-	-	-	20	#DIV/0!
Residential All	Wall Insulation	-	-	-	-	20	#DIV/0!
Residential All	Energy Star AC - Tier I	28	0	16	147,978	15	19.16
Residential All	Energy Star AC - Tier I with TXV	-	-	-	-	15	#DIV/0!
Residential All	Central AC - Tier II	-	-	-	-	15	#DIV/0!
Residential All	Energy Star HP - Tier I	18	0	6	126,537	15	9.13
Residential All	Energy Star HP - Tier I with TXV	-	-	-	-	15	#DIV/0!
Residential All	Central Heat Pump - Tier II	-	-	-	-	15	#DIV/0!
Residential All	Package Terminal AC (>2, <50 tons)	-	-	-	-	15	#DIV/0!
Residential All	Package Terminal HP	-	-	-	-	15	#DIV/0!
Residential All	Occupancy Sensor wall mounted	6	0	0	3,992	8	9.01
Residential All	Occupancy Sensor ceiling mounted	2	0	0	1,331	8	22.50
Residential All	Photocell	2	0	0	1,509	8	17.88
Residential All	Exit Sign Retrofit Kit (LED)	-	-	-	-	16	#DIV/0!
Residential All	LED Exit Sign	142	1	12	637,683	16	3.62
Residential All	2.0 gpm Showerhead	10	0	0	13,403	10	2.20
Residential All	Faucet Aerator	-	-	-	-	10	#DIV/0!
Residential All	Turn-In-Torchiere Floor Lamps replacing halogen la	4,200	13	110	9,285,192	9	1.93
Residential All	Pool Pump & Motor - Single Speed	2	0	1	37,834	15	2.98
Residential All	Pool Pump & Motor - Two speed	-	-	-	-	15	#DIV/0!
Residential All	Duct Test - Multifamily	2,310	-	206	-	10	#DIV/0!
Residential All	Duct Test - Mobile Homes	-	-	-	-	10	#DIV/0!
Residential All	Duct Sealing - Multi Family	2,309	13	736	11,198,777	18	12.99
Residential All	Duct Sealing - Mobile Homes	-	-	-	-	18	#DIV/0!
Residential All	Electric Water Heater EF .93	22	0	1	71,526	13	2.94

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Table TA 2.5a
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
DISTRIBUTION OF RCP PAYMENTS - RESIDENTIAL PROGRAM AREA
SINGLE-FAMILY PROGRAM AREA
2005

**THIS TABLE IS NOT APPLICABLE
TO THE 2005 ENERGY EFFICIENCY PROGRAMS**

Table TA 2.5b
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
DISTRIBUTION OF RCP PAYMENTS - RESIDENTIAL PROGRAM AREA
MULTI-FAMILY PROGRAM AREA
2005

**THIS TABLE IS NOT APPLICABLE
TO THE 2005 ENERGY EFFICIENCY PROGRAMS**

Section III - Nonresidential Program Area

This section contains narrative that documents and explains the data shown for Tables TA 3.1 through TA 3.5.

Table TA 3.1 Program Cost Estimates Used for Cost-Effectiveness - Nonresidential Program Area

This table documents those costs used in determining the cost-effectiveness of nonresidential energy efficiency programs. These tables provide all program costs, including costs expended in 2005 and those costs associated with commitments from 2005 programs.

Program Incentives (Recorded)

Incentive costs represent incentives paid to customers during 2005 (Actual) as well as incentives associated with commitments from the 2005 nonresidential programs (Committed).

Program Administrative Costs (Recorded)

These costs include all expenditures directly charged to the program with the exception of incentive costs. The administrative costs consist of labor, non-labor, contract labor, and allocated material costs (See Also Table TA 3.2). These costs represent administrative costs expended during 2005 (Actual) as well as administrative costs associated with the handling of commitments from the 2005 nonresidential programs (Committed).

Shareholder Incentives

Costs represented in the Shareholder Incentives column would represent an allocated amount of the total performance awards earned during a particular program year. There were no shareholder incentives authorized for 2005.

Other Costs

Costs represented in the Other Costs column represent the MA&E costs for the statewide programs. MA&E costs for the applicable Nonresidential Local and Procurement-funded programs are included in the Program Administrative Costs column. Other allocated costs recorded in the Other Costs category in previous Energy Efficiency Annual Reports (e.g., General Support, Regulatory Support, CPUC Staff, and Summer Initiative Administrative) are now recorded in the Program Administrative Costs column.

Total Utility Costs

The sum of the Program Incentives (Recorded) columns, Program Administrative Costs (Recorded) columns, Shareholder Incentives, and Other costs.

Incremental Measure Costs (Net)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. SCE's incremental measure costs are typically derived from the latest cost source available for the particular measure(s), including recent measure cost studies. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. The net-to-gross ratios are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

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**Table TA 3.2 Direct and Allocated Administrative Costs -
Nonresidential Program Area**

This table documents the breakdown of the actual administrative costs used in determining the cost-effectiveness of nonresidential energy efficiency programs. These tables provide detail of all actual program administrative costs expended in 2005. These costs include the costs of Market Assessment & Evaluation for the Nonresidential Local and Procurement-funded Energy Efficiency Programs, regulatory support, and other energy efficiency support costs.

Labor Costs (Actual)

Labor costs consist of SCE labor charges that are directly charged to the program. These costs include salaries and expenses of SCE employees engaged in developing energy efficient marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems. The reporting costs reflect only the actual costs incurred in 2005 in support of 2005 nonresidential programs.

Non-Labor Costs (Actual)

Non-labor costs include materials, consultant fees, vendor contracts, and other miscellaneous costs charged directly to the program. These costs include items such as booklets, brochures, promotions, training, membership dues, postage, telephone, supplies, printing/photocopying services, and computer support services. Several programs contain a significant amount of Non-Labor administrative costs due to the use of vendor contracts in the delivery of these programs.

Contract Labor Costs (Actual)

Labor costs consist of contract employees' labor charges that are directly charged to the program. These costs include salaries and expenses of contract employees engaged in developing energy efficiency marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems.

Allocated Administrative Costs (Actual)

Allocated administrative costs represent those for building lease and maintenance costs and management oversight expenditures. In addition, the 2005 Allocated Administrative Costs (Actual) category includes costs related to systems support, regulatory support, internal audits, and other costs which are allocated to the programs.

Total Administrative Costs (Actual)

The summation of the aforementioned utility administrative costs - Labor, Non-labor, Contract, and Allocated Administrative costs.

**Table TA 3.3 Market Effects: Projected Annual Program Energy
Reductions - Nonresidential Program Area**

The projected annual program energy reductions for the nonresidential program area, presented in TA 3.3, are derived from ex ante estimates of energy savings. These estimates are based upon the measure level savings data submitted in SCE's September 23, 2003 Application for 2004-2005 Energy Efficiency Program Funding and adopted in Decisions D.03-12-060 and D.04-02-059. These estimates have been updated, as applicable, to correspond with the actual program implementation during 2005 and to reflect actual program results as of December 31, 2005. Recorded savings amounts reflect all 2005 program impacts, including impacts from measures installed in 2005 and those impacts associated with commitments from 2005 programs.

Inputs and assumptions for these estimates are described in this section. Projections of annual program energy reductions are developed similarly across program areas, but the specifics of each program area will be discussed in the individual sections to this Technical Appendix.

Program Energy Reduction Assumptions

Annual program energy reduction estimates for nonresidential programs supplied in the September 23, 2003 Application for 2004-2005 Energy Efficiency Program Funding and submitted herein as the 2005 program results are the result of a summation of measure-level savings from the measures installed or committed to be installed as a result of the 2005 nonresidential programs. The measure-level savings information used to calculate the 2005 program results are based upon the latest energy savings data available for the particular measure(s), including measurement studies, historical program results, and engineering estimates. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use.

The Effective Useful Life is the length of time (years) for which the load impacts of an energy efficiency measure are expected to last. The useful life estimates are also based upon the Energy Efficiency Policy Manual, adopted in Decision 03-08-067.

Table TA 3.4 Measure Detail - Nonresidential Program Area

Table TA 3.4 provides measure-level detail for all of SCE's nonresidential energy efficiency programs with 2005 energy saving goals.

End Use & Measure Description

Detail the actual measures installed or committed to be installed as a result of the 2005 nonresidential programs.

Quantity (Recorded)

Derived from SCE's program tracking databases, the number of units installed or committed to be installed as a result of the 2005 nonresidential programs.

Total Resource Costs - Administrative Costs (Recorded)

These costs include all expenditures directly charged to the program with the exception of incentive costs. These costs represent administrative costs expended during 2005 as well as administrative costs associated with the handling of commitments from the 2005 nonresidential programs. The Summation of the "Total Resource Costs - Admin" and "Total Resource Costs - IMC" column values comprise the Total Resource Costs for Levelizing ("LCRC") as specified in the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001.

Total Resource Costs - Incremental Measure Costs (Recorded)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. SCE's incremental measure costs are typically derived from the latest cost source available for the particular measure(s), including recent measure cost studies. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. The net-to-gross ratios are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding. The Summation of the "Total Resource Costs - Admin" and "Total Resource Costs - IMC" column values comprise the Total Resource Costs for Levelizing ("LCRC") as specified in the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001.

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Total Resource Benefits – Lifecycle kWh

Annual net kWh savings multiplied by the measure Useful Life.

Useful Life

Assumption of the useful life of the measure, used to determine the lifecycle energy savings. The useful life estimates are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

Levelized Costs

The TRC Levelized Cost, calculated pursuant to the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001. These costs, represented as a cents/kWh, are calculated by the summation of the "Total Resource Costs – Admin" and "Total Resource Costs – IMC" column values which comprise the Total Resource Costs for Levelizing ("LCRC") divided by the Total Discounted Load Impacts of the Program ("IMP"). The discount rate utilized is 8.15 %, as specified in the Energy Efficiency Policy Manual, Decision 03-08-067.

Table TA 3.5 Distribution of SPC Payments - Nonresidential Program Area

SCE's Nonresidential Standard Performance Contracting (SPC) programs were designed to provide funding to a number of different energy service providers and customers alike. Table TA 3.5 identifies the distribution of recorded payments to energy service providers and customers, and delineates any payments made to affiliates of the utility distribution company. Thus, the amounts in the "Total" column represent the total dollar amount allocated to a particular energy service company or customer. The table also demonstrates the payments made for particular end-uses. Each of these allocations of payments, by recipient and end-use, is based upon information contained in SCE's tracking system for these programs.

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Table TA 3.1
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
PROGRAM COST ESTIMATES USED FOR COST-EFFECTIVENESS - NONRESIDENTIAL PROGRAM AREA
2005

	Program Incentives (Recorded)		[1,2]	Program Administrative Costs (Recorded)		[1,2]	Shareholder Incentives	[3]	Other Costs	[1,2,4]	Total Utility Costs	[1,2]	Incremental Measure Costs	[1,2]
	Actual	Committed		Actual	Committed									
Information	\$ -	\$ -		\$ 482,551	\$ 1,149		\$ -	\$ 27,422		\$ 511,122		\$ -		
EMS														
Large	-	-		-	-		-	-		-		-	-	
Small/Medium	(1,130)	-		3,534,346	58,607		-	145,480		3,737,303		-	-	
EI: Customized Rebates														
Large	200,919	210,000		329,801	1,269		-	-		741,989		205,632	-	
Small/Medium	-	-		-	-		-	-		-		-	-	
EI: Prescriptive Rebates														
Large	-	-		-	-		-	-		-		-	-	
Small/Medium	18,881,684	8,457,566		4,783,840	746,201		-	212,494		33,081,785		30,573,365	-	
EI: SPCs														
Large	32,409,690	16,036,133		6,234,447	279,907		-	235,743		55,195,919		45,354,519	-	
Small/Medium	-	-		-	-		-	-		-		-	-	
Upstream Programs														
Information	-	-		-	-		-	-		-		-	-	
Financial Assistance	-	-		-	-		-	-		-		-	-	
Nonresidential Total	\$ 51,491,163	\$ 24,703,699		\$ 15,364,985	\$ 1,087,133		\$ -	\$ 621,139		\$ 93,268,118		\$ 76,133,517		

[1] Includes both PGC and Procurement funded programs.

[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

[3] The Commission authorized no Shareholder Performance Awards in 2005.

[4] Includes program-specific Statewide MA&E costs.

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Table TA 3.2
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
DIRECT AND ALLOCATED ADMINISTRATIVE COSTS - NONRESIDENTIAL PROGRAM AREA
2005

	Actual Labor	[1,2]	Actual Non-Labor	[1,2]	Actual Contract	[1,2]	Actual Allocated	[1,2]	Actual Admin Total	[1,2]
Information	\$ 173		\$ 452,929		\$ 101		\$ 29,348		\$ 482,551	
EMS										
Large	-		-		-		-		-	
Small/Medium	2,021,146		815,746		247,583		449,872		3,534,346	
EI: Customized Rebates										
Large	-		297,765		25,239		6,797		329,801	
Small/Medium	-		-		-		-		-	
EI: Prescriptive Rebates										
Large	-		-		-		-		-	
Small/Medium	1,400,256		2,190,489		695,427		497,668		4,783,840	
EI: SPCs										
Large	1,365,280		3,604,024		579,507		685,637		6,234,447	
Small/Medium	-		-		-		-		-	
Upstream Programs										
Information	-		-		-		-		-	
Financial Assistance	-		-		-		-		-	
Nonresidential Total	\$ 4,786,855		\$ 7,360,953		\$ 1,547,856		\$ 1,669,321		\$ 15,364,985	

[1] Includes both PGC and Procurement funded programs.

[2] Includes incremental energy efficiency activities for Summer 2005, adopted in D.05-05-012.

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Table TA 3.3
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 MARKET EFFECTS: PROJECTED ANNUAL PROGRAM ENERGY AND DEMAND REDUCTIONS - NONRESIDENTIAL PROGRAM AREA
 2005

Information	EMS Large			EMS Small/Medium					
	Year	(MW)	(MWH)	Year	(MW)	(MWH)	Year	(MW)	(MWH)
2005	0.000	0		2005	0.000	0	2005	0.000	0
2006	0.000	0		2006	0.000	0	2006	0.000	0
2007	0.000	0		2007	0.000	0	2007	0.000	0
2008	0.000	0		2008	0.000	0	2008	0.000	0
2009	0.000	0		2009	0.000	0	2009	0.000	0
2010	0.000	0		2010	0.000	0	2010	0.000	0
2011	0.000	0		2011	0.000	0	2011	0.000	0
2012	0.000	0		2012	0.000	0	2012	0.000	0
2013	0.000	0		2013	0.000	0	2013	0.000	0
2014	0.000	0		2014	0.000	0	2014	0.000	0
2015	0.000	0		2015	0.000	0	2015	0.000	0
2016	0.000	0		2016	0.000	0	2016	0.000	0
2017	0.000	0		2017	0.000	0	2017	0.000	0
2018	0.000	0		2018	0.000	0	2018	0.000	0
2019	0.000	0		2019	0.000	0	2019	0.000	0
2020	0.000	0		2020	0.000	0	2020	0.000	0
2021	0.000	0		2021	0.000	0	2021	0.000	0
2022	0.000	0		2022	0.000	0	2022	0.000	0
2023	0.000	0		2023	0.000	0	2023	0.000	0
2024	0.000	0		2024	0.000	0	2024	0.000	0
Total	0.000	0		Total	0.000	0	Total	0.000	0

EEI: Customized Rebates			
Large			
Year	(MW)	(MWH)	
2005	0.235	2,822	
2006	0.235	2,822	
2007	0.235	2,822	
2008	0.235	2,822	
2009	0.235	2,822	
2010	0.235	2,822	
2011	0.235	2,822	
2012	0.235	2,822	
2013	0.235	2,822	
2014	0.235	2,822	
2015	0.235	2,822	
2016	0.235	2,822	
2017	0.235	2,822	
2018	0.235	2,822	
2019	0.235	2,822	
2020	0.235	2,822	
2021	0.235	2,822	
2022	0.235	2,822	
2023	0.235	2,822	
2024	0.235	2,822	
Total	0.235	56,448	

EEI: Customized Rebates			
Small/Medium			
Year	(MW)	(MWH)	
2005	0.000	0	
2006	0.000	0	
2007	0.000	0	
2008	0.000	0	
2009	0.000	0	
2010	0.000	0	
2011	0.000	0	
2012	0.000	0	
2013	0.000	0	
2014	0.000	0	
2015	0.000	0	
2016	0.000	0	
2017	0.000	0	
2018	0.000	0	
2019	0.000	0	
2020	0.000	0	
2021	0.000	0	
2022	0.000	0	
2023	0.000	0	
2024	0.000	0	
Total	0.000	0	

EEI: Prescriptive Rebates			
Large			
Year	(MW)	(MWH)	
2005	0.000	0	
2006	0.000	0	
2007	0.000	0	
2008	0.000	0	
2009	0.000	0	
2010	0.000	0	
2011	0.000	0	
2012	0.000	0	
2013	0.000	0	
2014	0.000	0	
2015	0.000	0	
2016	0.000	0	
2017	0.000	0	
2018	0.000	0	
2019	0.000	0	
2020	0.000	0	
2021	0.000	0	
2022	0.000	0	
2023	0.000	0	
2024	0.000	0	
Total	0.000	0	

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Table TA 3.3
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 MARKET EFFECTS: PROJECTED ANNUAL PROGRAM ENERGY AND DEMAND REDUCTIONS - NONRESIDENTIAL PROGRAM AREA
 2005

EEI: Prescriptive Rebates Small/Medium			EEI: SPCs Large			EEI: SPCs Small/Medium		
Year	(MW)	(MWH)	Year	(MW)	(MWH)	Year	(MW)	(MWH)
2005	46.771	232,161	2005	50.745	334,782	2005	0.000	0
2006	46.771	232,161	2006	50.745	334,782	2006	0.000	0
2007	46.771	232,161	2007	50.745	334,782	2007	0.000	0
2008	46.771	232,161	2008	50.745	334,782	2008	0.000	0
2009	46.771	232,161	2009	50.745	334,782	2009	0.000	0
2010	46.771	232,161	2010	50.745	334,782	2010	0.000	0
2011	46.771	232,161	2011	50.745	334,782	2011	0.000	0
2012	46.771	232,161	2012	50.745	334,782	2012	0.000	0
2013	46.771	232,161	2013	50.745	334,782	2013	0.000	0
2014	46.771	232,161	2014	50.745	334,782	2014	0.000	0
2015	46.771	232,161	2015	50.745	334,782	2015	0.000	0
2016	46.771	232,161	2016	50.745	334,782	2016	0.000	0
2017	0.000	0	2017	50.745	334,782	2017	0.000	0
2018	0.000	0	2018	50.745	334,782	2018	0.000	0
2019	0.000	0	2019	0.000	0	2019	0.000	0
2020	0.000	0	2020	0.000	0	2020	0.000	0
2021	0.000	0	2021	0.000	0	2021	0.000	0
2022	0.000	0	2022	0.000	0	2022	0.000	0
2023	0.000	0	2023	0.000	0	2023	0.000	0
2024	0.000	0	2024	0.000	0	2024	0.000	0
Total	46.771	2,785,935	Total	50.745	4,686,945	Total	0.000	0

Upstream Programs Information			Upstream Programs Financial Assistance		
Year	(MW)	(MWH)	Year	(MW)	(MWH)
2005	0.000	0	2005	0.000	0
2006	0.000	0	2006	0.000	0
2007	0.000	0	2007	0.000	0
2008	0.000	0	2008	0.000	0
2009	0.000	0	2009	0.000	0
2010	0.000	0	2010	0.000	0
2011	0.000	0	2011	0.000	0
2012	0.000	0	2012	0.000	0
2013	0.000	0	2013	0.000	0
2014	0.000	0	2014	0.000	0
2015	0.000	0	2015	0.000	0
2016	0.000	0	2016	0.000	0
2017	0.000	0	2017	0.000	0
2018	0.000	0	2018	0.000	0
2019	0.000	0	2019	0.000	0
2020	0.000	0	2020	0.000	0
2021	0.000	0	2021	0.000	0
2022	0.000	0	2022	0.000	0
2023	0.000	0	2023	0.000	0
2024	0.000	0	2024	0.000	0
Total	0.000	0	Total	0.000	0

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Table TA 3.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
NONRESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Express Efficiency - PGC							
HVAC	Package Terminal Air Conditioners	1,827	\$ 21	\$ 114	10,078,375	15	\$ 2.37
HVAC	Package single Tier 1-air cooled	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	Split System single Tier 1- air cooled	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	Package single Tier 2- air cooled	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	Split System single Tier 2- air cooled	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	Package single Tier 3- air cooled	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	Split System Tier 3 - air cooled	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	65-135kBTU air cooled, package or split Tier 2	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	65-135kBTU water/evap cooled, package or split Tier 2	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	135-240 kBTU air cooled, package or split Tier 2	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	135-240 kBTU water/evap cooled, package or split Tier 2	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	>240 kBTU air cooled, package or split Tier 2	-	\$ -	\$ -	-	15	#DIV/0!
HVAC	Variable-Frequency Drives - HVAC Fans	468	\$ 11	\$ 91	5,069,196	15	\$ 3.54
HVAC	Setback Programmable Thermostats	4,227	\$ 428	\$ 235	182,699,732	11	\$ 0.56
HVAC	Reflective Window Film - Coastal	20,132	\$ 6	\$ 35	2,512,416	10	\$ 2.43
HVAC	Reflective Window Film - Inland	27,556	\$ 10	\$ 47	4,232,536	10	\$ 2.04
HVAC	Reflective Window Film - Desert	2,523	\$ 1	\$ 4	581,290	10	\$ 1.48
HVAC	Evaporative Coolers	24	\$ 1	\$ 3	371,520	15	\$ 1.77
HVAC	Cool Roof	-	\$ -	\$ -	-	15	#DIV/0!
Lighting	Screw-in Compact Fluorescent Lamp, 5 - 13 watts	426	\$ 1	\$ 6	475,162	8	\$ 2.10
Lighting	Screw-in Compact Fluorescent Lamp, 14-26 watts	68,387	\$ 315	\$ 747	121,800,639	8	\$ 1.22
Lighting	Screw-in Compact Fluorescent Lamp, 14-26 watts w	31,243	\$ 144	\$ 341	55,645,333	8	\$ 1.22
Lighting	Screw-in Compact Fluorescent Lamp, >=27watts	10,894	\$ 95	\$ 220	36,845,635	8	\$ 1.20
Lighting	Hardwired Fluorescent Fixture, 5-13 watts	289	\$ 2	\$ 10	935,861	16	\$ 2.38
Lighting	Hardwired Fluorescent Fixture, 14-26 watts	698	\$ 8	\$ 29	3,716,961	16	\$ 1.82
Lighting	Hardwired Fluorescent Fixture, 27-65 watts/incandesc	1,820	\$ 38	\$ 159	18,597,756	16	\$ 1.94
Lighting	Hardwired Fluorescent Fixture, 27-65 watts/mercury	222	\$ 2	\$ 19	1,070,357	16	\$ 3.68
Lighting	Hardwired Fluorescent Fixture, 66-90 watts/incandesc	78	\$ 2	\$ 11	1,212,409	16	\$ 1.97
Lighting	Hardwired Fluorescent Fixture, 66-90 watts/mercury	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Hardwired Fluorescent Fixture, >90 watts/incandesc	175	\$ 6	\$ 24	2,720,148	16	\$ 1.97
Lighting	Hardwired Fluorescent Fixture, >90 watts/mercury v	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Induction Lamps and fixtures 55 - 100 watts	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Induction Lamps and fixtures >100 watts	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	LED Exit Sign	6,352	\$ 71	\$ 677	34,281,043	16	\$ 3.98
Lighting	LED Channel Signage (Red) indoor <2ft	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) indoor >2ft	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) outdoor <2ft	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) outdoor >2ft	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	T-8 or T-5 Lamp and Electronic ballast - 2 foot Insta	1,038	\$ 2	\$ 21	739,492	16	\$ 5.54
Lighting	T-8 or T-5 Lamp and Electronic, 2-foot lamp remove	198	\$ 1	\$ 4	534,315	16	\$ 1.61
Lighting	T-8 or T-5 Lamp and Electronic ballast - 3 foot Insta	721	\$ 1	\$ 15	601,858	16	\$ 4.78
Lighting	T-8 or T-5 Lamp and Electronic, 3-foot lamp remove	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	T-8 or T-5 Lamp and Electronic ballast - 4 foot Insta	144,186	\$ 229	\$ 621	111,021,651	16	\$ 1.40
Lighting	T-8 or T5 Lamp and Electronic, 4-foot lamp remove	15,471	\$ 99	\$ 520	47,872,670	16	\$ 2.36
Lighting	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	9,331	\$ 12	\$ 175	6,043,263	16	\$ 5.65
Lighting	T-8 or T-5 Lamp and Electronic, 8-foot lamp remove	6,627	\$ 78	\$ 318	37,674,272	16	\$ 1.92
Lighting	Electronic Ballast, Non-Dimming	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Electronic Ballast, Dimming(with daylighting)	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 0-35 watts incandesc	1	\$ 0	\$ 0	3,958	16	\$ 6.26
Lighting	Interior pulse start HID fixture 0-35 watts mercury vs	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 36-70 watts incandesc	8	\$ 0	\$ 1	63,326	16	\$ 4.16
Lighting	Interior pulse start HID fixture 36-70 watts mercury v	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 71-100 watts incandesc	20	\$ 1	\$ 2	246,109	16	\$ 1.80
Lighting	Interior pulse start HID fixture 71-100 watts mercury	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 101-175 watts incand	1	\$ 0	\$ 0	20,869	16	\$ 0.64
Lighting	Interior pulse start HID fixture 101-175 watts mercu	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 176 - 250 watts merc	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 176-250 watts incand	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 251 - 400 watts merc	-	\$ -	\$ -	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 251-400 watts incand	30	\$ 3	\$ 1	1,388,710	16	\$ 0.50
Lighting	Exterior pulse start HID fixture 0-100 watts incandes	35	\$ 1	\$ 3	405,791	16	\$ 1.81
Lighting	Exterior pulse start HID fixture 0-100 watts mercury	29	\$ 0	\$ 3	157,383	16	\$ 3.44
Lighting	Exterior pulse start HID fixture 101-175 watts incand	4	\$ 0	\$ 1	81,405	16	\$ 1.67

Technical Appendix

Table TA.3.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
NONRESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Lighting	Exterior pulse start HID fixture 101-175 watts mercu	7	\$ 0	\$ 1	49,645	16	\$ 4.08
Lighting	Exterior pulse start HID fixture > 176 watts incandes	262	\$ 16	\$ 50	7,787,985	16	\$ 1.56
Lighting	Exterior pulse start HID fixture > 176 watts mercury	102	\$ 2	\$ 20	1,170,011	16	\$ 3.43
Lighting	Ceramic Metal Halide (CMH) .75 watts	466	\$ 5	\$ 34	2,455,112	16	\$ 2.87
Lighting	Interior Pulse Start Metal Halide (400 W replacemer	808	\$ 8	\$ 99	3,444,019	10	\$ 4.69
Lighting	Interior HO T-5 4 lamp fixture retrofits	12,565	\$ 357	\$ 3,040	172,926,566	16	\$ 3.58
Lighting	Occupancy Sensor wall mounted	1,180	\$ 10	\$ 51	3,778,704	8	\$ 2.25
Lighting	Occupancy Sensor ceiling mounted	3,373	\$ 96	\$ 259	37,015,788	8	\$ 1.34
Lighting	Plug Load sensor	-	\$ -	\$ -	-	8	#DIV/0!
Lighting	Photocell	89	\$ 3	\$ 1	1,216,871	8	\$ 0.46
Lighting	Timeclock	31	\$ 1	\$ 1	423,854	8	\$ 0.67
Refrigeration	Night Covers for Display Cases - med temp	-	-	-	-	5	#DIV/0!
Refrigeration	Night Covers for Display Cases - low temp	86	0	1	24,355	5	4.32
Refrigeration	Infiltration Barrier for Walk-ins (strip curtains)	3,324	19	45	5,936,209	4	1.30
Refrigeration	Retrofit Glass doors on open vertical display cases (	-	-	-	-	12	#DIV/0!
Refrigeration	Retrofit Glass doors on open vertical display cases (	12	0	3	159,667	12	3.41
Refrigeration	Replace reach in case w/doors with hi eff case with	180	7	121	2,948,659	12	6.95
Refrigeration	New Low Temp reach in Display Case with doors/ r	571	22	247	10,588,899	16	4.63
Refrigeration	New Medium Temp reach in Display Case with Doo	48	1	21	431,751	16	9.21
Refrigeration	Special Doors with Low Anti-Sweat Heat low temp)	-	-	-	-	12	#DIV/0!
Refrigeration	Anti-Sweat Heat Controller	63	0	3	164,640	8	3.22
Refrigeration	Insulate Bare Suction Pipes	-	-	-	-	11	#DIV/0!
Refrigeration	Main door Cooler Door Gaskets (Walk-in)	536	14	3	4,304,422	4	0.46
Refrigeration	Main Door Freezer Door Gaskets(Walk-in)	194	5	1	1,557,792	4	0.46
Refrigeration	Auto-closer for Coolers	-	-	-	-	8	#DIV/0!
Refrigeration	Auto-closer for Freezers	-	-	-	-	8	#DIV/0!
Refrigeration	Auto-closer for Glass Doors for Walk-In Coolers	-	-	-	-	8	#DIV/0!
Refrigeration	Oversized Air Cooled Condenser	1	0	0	25,383	16	2.94
Refrigeration	Oversized Evaporative Cooled Condenser	426	13	114	6,137,672	16	3.77
Refrigeration	Air cooled to Evaporative cooled condensers - comve	2	0	1	86,876	16	2.39
Refrigeration	Air cooled to Evaporative cooled condensers - multi	-	-	-	-	16	#DIV/0!
Refrigeration	Multiplex Compressor System air cooled	63	5	106	1,995,840	12	8.88
Refrigeration	Multiplex Compressor System - evap cooled	-	-	-	-	12	#DIV/0!
Refrigeration	Multiplex Compressor System w/ eff cond - air coole	-	-	-	-	12	#DIV/0!
Refrigeration	Multiplex Compressor System w/ eff cond - evap coo	-	-	-	-	12	#DIV/0!
Refrigeration	Floating Head Pressure Controller - air cooled	-	-	-	-	16	#DIV/0!
Refrigeration	Floating Head Pressure Controller - evap cooled	-	-	-	-	16	#DIV/0!
Refrigeration	Efficient Evaporator Fan Motors (SHP to PSC)	-	-	-	-	16	#DIV/0!
Refrigeration	Efficient Evaporator Fan Motors (SHP to ECM)	-	-	-	-	16	#DIV/0!
Refrigeration	High Efficiency Compressor	-	-	-	-	15	#DIV/0!
Refrigeration	Evaporative Fan Controller	2	0	1	10,646	5	7.18
Refrigeration	Vending Machine Controller	55	3	11	1,259,280	15	1.86
Agricultural	Sprinkler to Micro-Irrigation conversion	1,164	24	335	12,496,199	20	5.92
Agricultural	Low pressure impact sprinkler nozzles(permanent)	-	-	-	-	5	#DIV/0!
Agricultural	Low pressure impact sprinkler nozzles(portable)	-	-	-	-	5	#DIV/0!
Agricultural	Variable Frequency Drives for Injectin Molding Mact	-	-	-	-	15	#DIV/0!
Motors	Motors 1-200 HP	-	-	-	-	15	#DIV/0!
Food Service	Pressureless Steamers <=0.4 kW idle	1	0	-	76,262	12	0.37
Food Service	Pressureless Steamers <=0.2 kW idle	2	0	1	179,251	12	1.22
Food Service	Insulated Holding Cabinet- Full Size <=8 kW	5	1	5	224,640	12	3.79
Food Service	Insulated Holding Cabinet- Full Size <=6 kW	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Three Quarter Size <=8	16	1	12	514,253	12	4.20
Food Service	Insulated Holding Cabinet-Three Quarter Size <=6	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Half Size <=4 kW	76	4	44	1,707,264	12	4.48
Food Service	Insulated Holding Cabinet-Half Size <=3 kW	-	-	-	-	12	#DIV/0!
SPC - PGC							
Air Conditioning	Com. Early Retirement Package Units	-	-	-	-	5	#DIV/0!
Air Conditioning	Com. Customized - Space Conditioning	2,866,509	85	433	30,098,345	15	3.05

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Table TA 3.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
NONRESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Air Conditioning	Com. EMS (Space Conditioning)	-	-	-	-	15	#DIV/0!
Air Conditioning	Com. Chillers	3,216,703	115	241	45,033,842	20	1.63
Air Conditioning	Com. Early Retirement Chillers, traditional	-	-	-	-	20	#DIV/0!
Air Conditioning	Com. Early Retirement Chillers	6,087	0	1	34,087	8	4.16
Air Conditioning	Ind. Customized - Space Conditioning	-	-	-	-	15	#DIV/0!
Air Conditioning	Ind. Chillers	-	-	-	-	20	#DIV/0!
Lighting	Com. Indoor Lighting Sys. Mod.	562,628	17	57	6,301,434	16	2.15
Lighting	Com. Indoor Lighting Sys. Repl.	7,331,186	227	352	82,109,283	16	1.29
Lighting	Com. Outdoor Lighting	1,767,940	55	85	19,800,928	16	1.29
Lighting	Com. Lighting Controls	3,110,473	96	314	34,837,298	16	2.15
Lighting	Ind. Indoor Lighting Sys. Mod.	-	-	-	-	16	#DIV/0!
Lighting	Ind. Indoor Lighting Sys. Repl.	1,360,193	42	65	15,234,162	16	1.29
Lighting	Ind. Outdoor Lighting Sys. Mod.	-	-	-	-	16	#DIV/0!
Lighting	Ind. Outdoor Lighting Sys. Repl.	-	-	-	-	16	#DIV/0!
Lighting	Ind. LED Lamps	-	-	-	-	16	#DIV/0!
Other	Com. Customized - Process	36,054,283	1,071	5,552	378,569,972	15	3.09
Other	Com. Customized - Refrigeration	1,962,207	58	343	20,603,174	15	3.45
Other	Com. Customized - Pumping	222,225	7	34	2,333,363	15	3.09
Other	Ind. Motors	-	-	-	-	15	#DIV/0!
Other	Ind. Adj. Speed Drive	1,804,288	54	278	18,945,024	15	3.09
Other	Ind. Pump System Controls	-	-	-	-	15	#DIV/0!
Other	Ind. Cooling Towers	28,163	1	4	295,712	15	3.09
Other	Ind. Customized - Process	11,834,281	352	1,822	124,269,951	15	3.09
Other	Early Retirement Motors	-	-	-	-	7	#DIV/0!
HVAC	Package Terminal Air Conditioners	335	4	15	1,347,486	15	2.50
HVAC	Package single Tier 1-air cooled	-	-	-	-	15	#DIV/0!
HVAC	Split System single Tier 1- air cooled	-	-	-	-	15	#DIV/0!
HVAC	Package single Tier 2 - air cooled	-	-	-	-	15	#DIV/0!
HVAC	Split System single Tier 2- air cooled	-	-	-	-	15	#DIV/0!
HVAC	Package single Tier 3 - air cooled	-	-	-	-	15	#DIV/0!
HVAC	Split System Tier 3 - air cooled	-	-	-	-	15	#DIV/0!
HVAC	65-135kBTU air cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	65-135kBTU water/evap cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	135-240 kBTU air cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	135-240 kBTU water/evap cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	>240 kBTU air cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	Variable-Frequency Drives - HVAC Fans	2,678	60	379	21,173,607	15	3.66
HVAC	Setback Programmable Thermostats	1,323	131	54	41,695,800	11	0.69
HVAC	Reflective Window Film - Coastal	1,345	0	2	122,395	10	2.55
HVAC	Reflective Window Film - Inland	14,096	5	18	1,578,752	10	2.16
HVAC	Reflective Window Film - Desert	-	-	-	-	10	#DIV/0!
HVAC	Evaporative Coolers	-	-	-	-	15	#DIV/0!
HVAC	Cool Roof	-	-	-	-	15	#DIV/0!
Lighting	Screw-in Compact Fluorescent Lamp, 5 - 13 watts	163	0	2	132,569	8	2.22
Lighting	Screw-in Compact Fluorescent Lamp, 14-26 watts	2,673	12	21	3,471,378	8	1.35
Lighting	Screw-in Compact Fluorescent Lamp, 14-26 watts w	1,279	6	10	1,661,010	8	1.35
Lighting	Screw-in Compact Fluorescent Lamp, >=27watts	1,874	16	28	4,621,624	8	1.32
Lighting	Linear Fluorescent Electronic Ballast, Non-Dimming	-	-	-	-	16	#DIV/0!
Lighting	Linear Fluorescent Electronic Ballast, Dimming	-	-	-	-	16	#DIV/0!
Lighting	Hardwired Fluorescent Fixture, 5-13 watts	-	-	-	-	16	#DIV/0!
Lighting	Hardwired Fluorescent Fixture, 14-26 watts	-	-	-	-	16	#DIV/0!
Lighting	Hardwired Fluorescent Fixture, 27-65 watts(incande	-	-	-	-	16	#DIV/0!
Lighting	Hardwired Fluorescent Fixture, 27-65 watts(mercury	87	1	6	305,861	16	3.81
Lighting	Hardwired Fluorescent Fixture, 66-90 watts(incande	78	2	8	884,048	16	2.09
Lighting	Hardwired Fluorescent Fixture, 66-90 watts(mercury	-	-	-	-	16	#DIV/0!
Lighting	Hardwired Fluorescent Fixture, >90 watts(incandesc	93	3	9	1,054,058	16	2.09
Lighting	Hardwired Fluorescent Fixture, >90 watts(mercury v	-	-	-	-	16	#DIV/0!
Lighting	Induction Lamps and fixtures 55 - 100 watts	-	-	-	-	16	#DIV/0!
Lighting	Induction Lamps and fixtures >100 watts	-	-	-	-	16	#DIV/0!
Lighting	LED Exit Sign	1,145	12	89	4,505,842	16	4.11

Technical Appendix

Table TA 3.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
NONRESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Lighting	LED Channel Signage (Red) indoor <2ft	-	-	-	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) indoor >2ft	-	-	-	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) outdoor <2ft	-	-	-	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) outdoor >2ft	-	-	-	-	16	#DIV/0!
Lighting	T-8 or T-5 Lamp and Electronic ballast - 2 foot	1,208	2	18	627,534	16	5.67
Lighting	T-8 or T-5 Lamp and Electronic, 2-foot lamp remove	-	-	-	-	16	#DIV/0!
Lighting	T-8 or T-5 Lamp and Electronic ballast - 3 foot	327	1	5	199,035	16	4.91
Lighting	T-8 or T-5 Lamp and Electronic, 3-foot lamp remove	4	0	0	9,240	16	1.56
Lighting	T-8 or T-5 Lamp and Electronic ballast - 4 foot	25,492	40	80	14,312,496	16	1.53
Lighting	T-8 or T5 Lamp and Electronic, 4-foot lamp remove	3,101	19	76	6,996,752	16	2.49
Lighting	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	246	0	3	116,162	16	5.78
Lighting	T-8 or T-5 Lamp and Electronic, 8-foot lamp remove	431	5	15	1,786,613	16	2.05
Lighting	Interior pulse start HID fixture 0-35 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 0-35 watts mercury ve	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 36-70 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 36-70 watts mercury \	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 71-100 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 71-100 watts mercury	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 101-175 watts incand	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 101-175 watts mercur	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 176 - 250 watts merco	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 176-250 watts incand	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 251 - 400 watts merco	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 251-400 watts incand	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture 0-100 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture 0-100 watts mercury	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture 101-175 watts incand	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture 101-175 watts mercur	155	2	16	801,550	16	4.21
Lighting	Exterior pulse start HID fixture > 176 watts incandesc	8	0	1	173,398	16	1.68
Lighting	Exterior pulse start HID fixture > 176 watts mercury	-	-	-	-	16	#DIV/0!
Lighting	Ceramic Metal Halide (CMH), 75 watts	-	-	-	-	16	#DIV/0!
Lighting	Interior Pulse Start Metal Halide (400 W replacem	67	1	6	208,236	10	4.81
Lighting	Interior HO T-5 4 lamp fixture retrofits	3,251	90	573	32,624,435	16	3.71
Lighting	Occupancy Sensor wall mounted	2,277	18	72	5,316,812	8	2.37
Lighting	Occupancy Sensor ceiling mounted	10,493	292	588	83,964,776	8	1.47
Lighting	Plug Load sensor	-	-	-	-	8	#DIV/0!
Lighting	Photocell	9	0	0	89,723	8	0.58
Lighting	Timedlock	131	5	3	1,306,032	8	0.79
Refrigeration	Night Covers for Display Cases - med temp	-	-	-	-	5	#DIV/0!
Refrigeration	Night Covers for Display Cases - low temp	-	-	-	-	5	#DIV/0!
Refrigeration	Infiltration Barrier for Walk-ins (strip curtains)	1,190	7	12	1,549,380	4	1.43
Refrigeration	Retrofit Glass doors on open vertical display cases (	-	-	-	-	12	#DIV/0!
Refrigeration	Retrofit Glass doors on open vertical display cases (	-	-	-	-	12	#DIV/0!
Refrigeration	Replace reach in case w/doors with hi eff case with	-	-	-	-	12	#DIV/0!
Refrigeration	New Low Temp reach in Display Case with doors/rt	-	-	-	-	16	#DIV/0!
Refrigeration	New Medium Temp reach in Display Case with Doo	-	-	-	-	16	#DIV/0!
Refrigeration	Special Doors with Low Anti-Sweat Heat low temp)	-	-	-	-	12	#DIV/0!
Refrigeration	Anti-Sweat Heat Controller	-	-	-	-	8	#DIV/0!
Refrigeration	Insulate Bare Suction Pipes	-	-	-	-	11	#DIV/0!
Refrigeration	Main door Cooler Door Gaskets (Walk-in)	319	8	1	1,867,681	4	0.60
Refrigeration	Main Door Freezer Door Gaskets(Walk-in)	909	23	3	5,322,013	4	0.60
Refrigeration	Auto-closer for Coolers	-	-	-	-	8	#DIV/0!
Refrigeration	Auto-closer for Freezers	-	-	-	-	8	#DIV/0!
Refrigeration	Auto-closer for Glass Doors for Walk-In Coolers	-	-	-	-	8	#DIV/0!
Refrigeration	Oversized Air Cooled Condenser	-	-	-	-	16	#DIV/0!
Refrigeration	Oversized Evaporative Cooled Condenser	1,170	34	229	12,291,552	16	3.90
Refrigeration	Air cooled to Evaporative cooled condensers -comve	-	-	-	-	16	#DIV/0!
Refrigeration	Air cooled to Evaporative cooled condensers - multi	-	-	-	-	16	#DIV/0!
Refrigeration	Multiplex Compressor System air cooled	-	-	-	-	12	#DIV/0!
Refrigeration	Multiplex Compressor System - evap cooled	-	-	-	-	12	#DIV/0!
Refrigeration	Multiplex Compressor System w/ eff cond - air coole	-	-	-	-	12	#DIV/0!
Refrigeration	Multiplex Compressor System w/ eff cond - evap coo	-	-	-	-	12	#DIV/0!
Refrigeration	Floating Head Pressure Controller - air cooled	-	-	-	-	16	#DIV/0!

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Table TA 3.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
NONRESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Refrigeration	Floating Head Pressure Controller - evap cooled	-	-	-	-	16	#DIV/0!
Refrigeration	Efficient Evaporator Fan Motors (SHP to PSC)	-	-	-	-	16	#DIV/0!
Refrigeration	Efficient Evaporator Fan Motors (SHP to ECM)	-	-	-	-	16	#DIV/0!
Refrigeration	High Efficiency Compressor	-	-	-	-	15	#DIV/0!
Refrigeration	Evaporative Fan Controller	-	-	-	-	5	#DIV/0!
Refrigeration	Vending Machine Controller	404	19	57	6,744,780	15	1.98
Agricultural	Sprinkler to Micro-Irrigation conversion	-	-	-	-	20	#DIV/0!
Agricultural	Low pressure impact sprinkler nozzles (permanent)	-	-	-	-	5	#DIV/0!
Agricultural	Low pressure impact sprinkler nozzles (portable)	-	-	-	-	5	#DIV/0!
Agricultural	Variable Frequency Drives for Injectin Molding Mach	-	-	-	-	15	#DIV/0!
Motors	Motors 1-200 HP	-	-	-	-	15	#DIV/0!
Food Service	Pressureless Steamers <=0.4 kW idle	-	-	-	-	12	#DIV/0!
Food Service	Pressureless Steamers <=0.2 kW idle	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet- Full Size <= 8 KW	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet- Full Size <= 6 KW	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Three Quarter Size <= 8	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Three Quarter Size <= 6	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Half Size <= 4 KW	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Half Size <= 3 KW	-	-	-	-	12	#DIV/0!
SI - SPC - PGC							
Lighting	Com. Indoor Lighting Sys. Mod.	8,312,714	88	839	93,102,396	16	1.82
Lighting	Com. Indoor Lighting Sys. Repl.	88,245,176	933	4,239	988,345,975	16	0.95
Lighting	Ind. Indoor Lighting Sys. Repl.	8,049,728	85	387	90,156,956	16	0.95
Lighting	Ind. Indoor Lighting Sys. Mod.	1,022,345	11	103	11,450,263	16	1.82
Lighting	Outdoor Lighting	146,079	2	15	1,636,087	16	1.82
Lighting	LED Lamps	232,102	2	11	2,599,540	16	0.95
Local Small Hard to Reach - PGC							
Lighting	Screw-in Compact Fluorescent Lamp, 5-13 Watts	3,466	16	31	7,739,391	16	1.10
Lighting	Screw-in Compact Fluorescent Lamp, 14-26 Watts	7,943	58	92	28,293,347	16	0.97
Lighting	Screw-in Compact Fluorescent Lamp, >27 Watts	824	11	9	5,572,505	16	0.69
Lighting	LED Exit Sign	742	7	67	3,386,085	16	3.99
Lighting	2nd Gen. (1) 24" T-8 Lamp with Elec. Bal.	250	0	20	143,693	16	25.94
Lighting	2nd Gen. (1) 36" T-8 Lamp with Elec. Bal.	125	0	3	161,655	16	3.76
Lighting	2nd Gen. (1) 48" T-8 Lamp with Elec. Bal.	1,529	2	34	880,465	8	5.73
Lighting	2nd Gen. (2) 48" T-8 Lamp with Elec. Bal.	11,376	30	69	14,736,210	16	1.24
Lighting	2nd Gen. (3) 48" T-8 Lamp with Elec. Bal.	584	3	20	1,638,481	16	2.62
Lighting	2nd Gen. (4) 48" T-8 Lamp with Elec. Bal.	13,195	76	215	37,063,770	16	1.44
Lighting	2nd Gen. (3) 48" T-8 Lamp with (2) Elec. Bal.	1,048	5	40	2,413,765	16	3.42
Lighting	2nd Gen. (4) 48" T-8 Lamp with (2) Elec. Bal.	6,449	51	248	24,598,280	16	2.21
Lighting	(4) 48" T-12 to (3) 48" T-8 Lamp with Elec. Bal.	98	1	3	481,509	16	1.67
Lighting	(4) 48" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	4,224	46	26	22,493,469	16	0.59
Lighting	(3) 48" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	88	1	1	283,679	16	0.72
Lighting	(1) 96" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	122	0	3	184,073	16	2.87
Lighting	(2) 96" T-12 to (4) 48" T-8 Lamp with Elec. Bal.	9,167	31	207	15,173,822	16	2.86
Lighting	(1) 96" T-12 to (1) 96" T-8 Lamp with Elec. Bal.	1,431	4	49	1,750,720	16	5.53
Lighting	(2) 96" T-12 to (2) 96" T-8 Lamp with Elec. Bal.	12,212	34	129	16,694,489	16	1.79
Lighting	(2) U-Tube T-8 with Elec. Bal.	1,064	2	38	995,267	16	7.31
Lighting	[4] 8ft Fixtures [4] 8ft	1,945	10	243	5,019,560	16	9.20
Lighting	[4] 8ft Fixtures [8] 4ft	127	1	15	656,474	16	4.47
Lighting	Interior HID fixture 0-35 watts incandescent basecat	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 0-35 watts mercury vapor basecat	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 36-70 watts incandescent basecat	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 36-70 watts mercury vapor basecat	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 71-100 watts incandescent basecat	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 71-100 watts mercury vapor basecat	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 101-175 watts incandescent basecat	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 101-175 watts mercury vapor basecat	-	-	-	-	16	#DIV/0!

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Table TA 3.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
NONRESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Lighting	Interior HID fixture 176 - 250 watts mercury vapro ba	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 176-250 watts incandescent base	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 251 - 400 watts mercury vapro ba	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 251-400 watts incandescent base	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 251-400 watts metal halide base	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture 0-100 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture 0-100 watts mercury vapor base	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture 101-175 watts incandescent bas	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture 101-175 watts mercury vapor ba	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture > 176 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture > 176 watts mercury vapor base	-	-	-	-	16	#DIV/0!
Lighting	Interior Pulse Start Metal Halide (400 W replacemer	-	-	-	-	10	#DIV/0!
HVAC	Reflective Window Film - Coastal	-	-	-	-	16	#DIV/0!
HVAC	Reflective Window Film - Inland	-	-	-	-	16	#DIV/0!
HVAC	Reflective Window Film - Desert	-	-	-	-	16	#DIV/0!
HVAC	Setback Programmable Thermostats	212	2	12	1,066,826	16	2.40
HVAC	Package Terminal Air Conditioners	1	0	0	3,530	16	2.10
HVAC	>5 ton Basic HVAC Diagnostic	-	-	-	-	8	#DIV/0!
HVAC	<= 5 ton Basic HVAC Diagnostic	-	-	-	-	8	#DIV/0!
Express Efficiency - IRP							
HVAC	Package Terminal Air Conditioners	366	1	23	2,018,985	15	2.05
HVAC	Package single Tier 1-air cooled	-	-	-	-	15	#DIV/0!
HVAC	Split System single Tier 1- air cooled	-	-	-	-	15	#DIV/0!
HVAC	Package single Tier 2 - air cooled	-	-	-	-	15	#DIV/0!
HVAC	Split System single Tier 2- air cooled	-	-	-	-	15	#DIV/0!
HVAC	Package single Tier 3 - air cooled	-	-	-	-	15	#DIV/0!
HVAC	Split System Tier 3 - air cooled	-	-	-	-	15	#DIV/0!
HVAC	65-135kBTU air cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	65-135kBTU water/evap cooled, package or split Tie	-	-	-	-	15	#DIV/0!
HVAC	135-240 kBTU air cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	135-240 kBTU water/evap cooled, package or split 1	-	-	-	-	15	#DIV/0!
HVAC	>240 kBTU air cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	Variable-Frequency Drives - HVAC Fans	330	1	64	3,578,256	15	3.21
HVAC	Setback Programmable Thermostats	2,420	33	135	104,597,434	11	0.25
HVAC	Reflective Window Film - Coastal	2,149	0	4	268,228	10	2.11
HVAC	Reflective Window Film - Inland	23,572	1	41	3,620,688	10	1.73
HVAC	Reflective Window Film - Desert	2,357	0	4	543,053	10	1.17
HVAC	Evaporative Coolers	-	-	-	-	15	#DIV/0!
HVAC	Cool Roof	-	-	-	-	15	#DIV/0!
Lighting	Screw-in Compact Fluorescent Lamp, 5 - 13 watts	7,017	3	97	7,826,795	8	1.78
Lighting	Screw-in Compact Fluorescent Lamp, 14-26 watts	30,470	19	333	54,268,581	8	0.91
Lighting	Screw-in Compact Fluorescent Lamp, 14-26 watts w	9,520	6	104	16,955,592	8	0.91
Lighting	Screw-in Compact Fluorescent Lamp, >=27watts	5,376	6	108	18,182,681	8	0.88
Lighting	Hardwired Fluorescent Fixture, 5-13 watts	2,757	2	98	8,927,916	16	2.05
Lighting	Hardwired Fluorescent Fixture, 14-26 watts	712	1	30	3,791,513	16	1.50
Lighting	Hardwired Fluorescent Fixture, 27-65 watts/incande	209	1	18	2,135,676	16	1.61
Lighting	Hardwired Fluorescent Fixture, 27-65 watts/mercury	320	0	28	1,542,857	16	3.36
Lighting	Hardwired Fluorescent Fixture, 66-90 watts/incande	35	0	5	544,030	16	1.64
Lighting	Hardwired Fluorescent Fixture, 66-90 watts/mercury	172	0	23	1,435,778	16	3.01
Lighting	Hardwired Fluorescent Fixture, >90 watts/incandesc	28	0	4	435,224	16	1.64
Lighting	Hardwired Fluorescent Fixture, >90 watts/mercury v	152	0	21	1,268,827	16	3.01
Lighting	Induction Lamps and fixtures 55 - 100 watts	52	0	15	673,561	16	4.04
Lighting	Induction Lamps and fixtures >100 watts	67	0	9	1,653,750	16	1.01
Lighting	LED Exit Sign	3,069	5	327	16,563,054	16	3.65
Lighting	LED Channel Signage (Red) indoor <2ft	-	-	-	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) indoor >2ft	-	-	-	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) outdoor <2ft	-	-	-	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) outdoor >2ft	-	-	-	-	16	#DIV/0!
Lighting	T-8 or T-5 Lamp and Electronic ballast - 2 foot Insta	987	0	20	703,158	16	5.21
Lighting	T-8 or T-5 Lamp and Electronic, 2-foot lamp remove	28	0	1	75,560	16	1.28

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Table TA 3.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
NONRESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Lighting	T-8 or T-5 Lamp and Electronic ballast - 3 foot Insta	647	0	13	540,086	16	4.46
Lighting	T-8 or T-5 Lamp and Electronic, 3-foot lamp remove	30	0	1	94,989	16	1.10
Lighting	T-8 or T-5 Lamp and Electronic ballast - 4 foot Insta	86,542	18	373	66,636,398	16	1.07
Lighting	T-8 or T5 Lamp and Electronic, 4-foot lamp remove	11,103	10	373	34,366,555	16	2.03
Lighting	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	5,003	1	94	3,240,215	16	5.33
Lighting	T-8 or T-5 Lamp and Electronic, 8-foot lamp remove	2,690	4	129	15,292,560	16	1.59
Lighting	Electronic Ballast, Non-Dimming	-	-	-	-	16	#DIV/0!
Lighting	Electronic Ballast, Dimming(with daylighting)	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 0-35 watts incandes	40	0	5	168,316	16	5.94
Lighting	Interior pulse start HID fixture 0-35 watts mercury va	20	0	1	168,316	16	1.38
Lighting	Interior pulse start HID fixture 36-70 watts incandes	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 36-70 watts mercury v	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 71-100 watts incande	4	0	0	49,222	16	1.47
Lighting	Interior pulse start HID fixture 71-100 watts mercury	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 101-175 watts incand	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 101-175 watts mercur	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 176 - 250 watts mercur	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 176-250 watts incand	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 251 - 400 watts mercur	10	0	1	347,575	16	0.81
Lighting	Interior pulse start HID fixture 251-400 watts incand	18	0	1	821,226	16	0.17
Lighting	Exterior pulse start HID fixture 0-100 watts incandes	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture 0-100 watts mercury	20	0	2	108,540	16	3.12
Lighting	Exterior pulse start HID fixture 101-175 watts incand	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture 101-175 watts mercur	5	0	1	35,460	16	3.76
Lighting	Exterior pulse start HID fixture > 176 watts incandes	23	0	4	683,678	16	1.23
Lighting	Exterior pulse start HID fixture > 176 watts mercury	251	1	48	2,879,144	16	3.11
Lighting	Ceramic Metal Halide (CMH) .75 watts	18	0	1	94,833	16	2.54
Lighting	Interior Pulse Start Metal Halide (400 W replacemer	161	0	20	686,246	10	4.37
Lighting	Interior HO T-5 4 lamp fixture retrofits	7,540	29	1,824	103,769,702	16	3.26
Lighting	Occupancy Sensor wall mounted	2,146	3	93	7,812,511	8	1.71
Lighting	Occupancy Sensor ceiling mounted	8,970	34	689	97,622,027	8	1.04
Lighting	Plug Load sensor	-	-	-	-	8	#DIV/0!
Lighting	Photocell	21	0	0	287,127	8	0.15
Lighting	Timedlock	27	0	1	369,163	8	0.35
Refrigeration	Night Covers for Display Cases - med temp	-	-	-	-	5	#DIV/0!
Refrigeration	Night Covers for Display Cases - low temp	293	0	3	82,978	5	3.99
Refrigeration	Infiltration Barrier for Walk-ins (strip curtains)	521	0	7	931,030	4	0.96
Refrigeration	Retrofit Glass doors on open vertical display cases (	-	-	-	-	12	#DIV/0!
Refrigeration	Retrofit Glass doors on open vertical display cases (	2	0	1	26,611	12	3.09
Refrigeration	Replace reach in case w/doors with hi eff case with	343	2	230	5,613,264	12	6.63
Refrigeration	New Low Temp reach in Display Case with doors(r	8	0	3	148,439	16	4.30
Refrigeration	New Medium Temp reach in Display Case with Doo	78	0	34	696,084	16	8.89
Refrigeration	Special Doors with Low Anti-Sweat Heat low temp)	447	1	129	3,856,931	12	5.41
Refrigeration	Anti-Sweat Heat Controller	130	0	7	342,451	8	2.91
Refrigeration	Insulate Bare Suction Pipes	-	-	-	-	11	#DIV/0!
Refrigeration	Main door Cooler Door Gaskets (Walk-in)	1,019	4	5	8,182,802	4	0.12
Refrigeration	Main Door Freezer Door Gaskets(Walk-in)	268	1	1	2,153,656	4	0.12
Refrigeration	Auto-closer for Coolers	-	-	-	-	8	#DIV/0!
Refrigeration	Auto-closer for Freezers	-	-	-	-	8	#DIV/0!
Refrigeration	Auto-closer for Glass Doors for Walk-In Coolers	4	0	0	108,595	8	0.67
Refrigeration	Oversized Air Cooled Condenser	4	0	1	95,785	16	2.61
Refrigeration	Oversized Evaporative Cooled Condenser	-	-	-	-	16	#DIV/0!
Refrigeration	Air cooled to Evaporative cooled condensers - come	5	0	2	217,190	16	2.07
Refrigeration	Air cooled to Evaporative cooled condensers - multi	-	-	-	-	16	#DIV/0!
Refrigeration	Multiplex Compressor System air cooled	1	0	2	31,680	12	8.56
Refrigeration	Multiplex Compressor System - evap cooled	5	0	8	86,400	12	15.65
Refrigeration	Multiplex Compressor System w/ eff cond - air coole	-	-	-	-	12	#DIV/0!
Refrigeration	Multiplex Compressor System w/ eff cond - evap coo	-	-	-	-	12	#DIV/0!
Refrigeration	Floating Head Pressure Controller - air cooled	-	-	-	-	16	#DIV/0!
Refrigeration	Floating Head Pressure Controller - evap cooled	-	-	-	-	16	#DIV/0!
Refrigeration	Efficient Evaporator Fan Motors (SHP to PSC)	2,274	3	166	11,736,023	16	2.63
Refrigeration	Efficient Evaporator Fan Motors (SHP to ECM)	14,304	41	1,044	147,864,453	16	1.34
Refrigeration	High Efficiency Compressor	-	-	-	-	15	#DIV/0!

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Table TA.3.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
NONRESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Refrigeration	Evaporative Fan Controller	-	-	-	-	5	#DIV/0!
Refrigeration	Vending Machine Controller	1	0	0	22,896	15	1.53
Agricultural	Sprinkler to Micro-Irrigation conversion	915	3	264	9,820,512	20	5.58
Agricultural	Low pressure impact sprinkler nozzles (permanent)	-	-	-	-	5	#DIV/0!
Agricultural	Low pressure impact sprinkler nozzles (portable)	-	-	-	-	5	#DIV/0!
Agricultural	Variable Frequency Drives for Injectin Molding Mach	-	-	-	-	15	#DIV/0!
Motors	Motors 1-200 HP	-	-	-	-	15	#DIV/0!
Food Service	Pressureless Steamers <=0.4 kW idle	-	-	-	-	12	#DIV/0!
Food Service	Pressureless Steamers <=0.2 kW idle	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet- Full Size <= 6 kW	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet- Full Size <= 6 kW	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Three Quarter Size <= 8	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Three Quarter Size <= 6	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Half Size <= 4 kW	1	0	1	22,464	12	4.16
Food Service	Insulated Holding Cabinet-Half Size <= 3 kW	-	-	-	-	12	#DIV/0!
SPC - IRP							
Air Conditioning	Com. Early Retirement Package Units	-	-	-	-	5	#DIV/0!
Air Conditioning	Com. Customized - Space Conditioning	4,537,017	45	685	47,638,679	15	2.71
Air Conditioning	Com. EMS (Space Conditioning)	511,381	5	77	5,369,501	15	2.71
Air Conditioning	Com. Chillers	6,181,016	73	463	86,534,224	20	1.28
Air Conditioning	Com. Early Retirement Chillers, traditional	-	-	-	-	20	#DIV/0!
Air Conditioning	Com. Early Retirement Chillers	149,491	1	22	837,150	8	3.84
Air Conditioning	Ind. Customized - Space Conditioning	2,986,730	30	451	31,360,665	15	2.71
Air Conditioning	Ind. Chillers	81,673	1	6	1,143,422	20	1.28
Lighting	Com. Indoor Lighting Sys. Mod.	208,929	2	21	2,340,005	16	1.81
Lighting	Com. Indoor Lighting Sys. Repl.	9,436,133	97	453	105,684,690	16	0.95
Lighting	Com. Outdoor Lighting	2,593,567	27	125	29,047,950	16	0.95
Lighting	Com. Lighting Controls	2,790,408	29	282	31,252,570	16	1.81
Lighting	Ind. Indoor Lighting Sys. Mod.	-	-	-	-	16	#DIV/0!
Lighting	Ind. Indoor Lighting Sys. Repl.	108,961	1	5	1,220,363	16	0.95
Lighting	Ind. Outdoor Lighting Sys. Mod.	-	-	-	-	16	#DIV/0!
Lighting	Ind. Outdoor Lighting Sys. Repl.	-	-	-	-	16	#DIV/0!
Lighting	Ind. LED Lamps	-	-	-	-	16	#DIV/0!
Other	Com. Customized - Process	52,125,300	517	8,027	547,315,650	15	2.76
Other	Com. Customized - Refrigeration	1,643,885	16	288	17,260,793	15	3.11
Other	Com. Customized - Pumping	381,336	4	59	4,004,028	15	2.76
Other	Ind. Motors	5,444,323	54	838	57,165,392	15	2.76
Other	Ind. Adj. Speed Drive	6,477,730	64	998	68,016,165	15	2.76
Other	Ind. Pump System Controls	-	-	-	-	15	#DIV/0!
Other	Ind. Cooling Towers	-	-	-	-	15	#DIV/0!
Other	Ind. Customized - Process	45,808,518	454	7,055	480,989,439	15	2.76
Other	Early Retirement Motors	-	-	-	-	7	#DIV/0!
HVAC	Package Terminal Air Conditioners	176	1	8	707,931	15	2.17
HVAC	Package single Tier 1- air cooled	-	-	-	-	15	#DIV/0!
HVAC	Split System single Tier 1- air cooled	-	-	-	-	15	#DIV/0!
HVAC	Package single Tier 2 - air cooled	-	-	-	-	15	#DIV/0!
HVAC	Split System single Tier 2- air cooled	-	-	-	-	15	#DIV/0!
HVAC	Package single Tier 3 - air cooled	-	-	-	-	15	#DIV/0!
HVAC	Split System Tier 3 - air cooled	-	-	-	-	15	#DIV/0!
HVAC	65-135kBtu air cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	65-135kBtu water/evap cooled, package or split Tier	-	-	-	-	15	#DIV/0!
HVAC	135-240 kBtu air cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	135-240 kBtu water/evap cooled, package or split 1	-	-	-	-	15	#DIV/0!
HVAC	>240 kBtu air cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	Variable-Frequency Drives - HVAC Fans	2,094	16	296	16,556,211	15	3.33
HVAC	Setback Programmable Thermostats	1,672	55	68	52,694,919	11	0.36

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Table TA.3.4
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End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
HVAC	Reflective Window Film - Coastal	-	-	-	-	10	#DIV/0!
HVAC	Reflective Window Film - Inland	6,162	1	8	690,144	10	1.84
HVAC	Reflective Window Film - Desert	-	-	-	-	10	#DIV/0!
HVAC	Evaporative Coolers	-	-	-	-	15	#DIV/0!
HVAC	Cool Roof	-	-	-	-	15	#DIV/0!
Lighting	Screw-in Compact Fluorescent Lamp, 5 - 13 watts	154	0	2	125,250	8	1.90
Lighting	Screw-in Compact Fluorescent Lamp, 14-26 watts	2,427	4	19	3,151,898	8	1.02
Lighting	Screw-in Compact Fluorescent Lamp, 14-26 watts w	260	0	2	337,658	8	1.02
Lighting	Screw-in Compact Fluorescent Lamp, >=27watts	454	1	7	1,119,647	8	1.00
Lighting	Linear Fluorescent Electronic Ballast, Non-Dimming	-	-	-	-	16	#DIV/0!
Lighting	Linear Fluorescent Electronic Ballast, Dimming	-	-	-	-	16	#DIV/0!
Lighting	Hardwired Fluorescent Fixture, 5-13 watts	16	0	0	37,789	16	2.17
Lighting	Hardwired Fluorescent Fixture, 14-26 watts	80	0	2	310,632	16	1.62
Lighting	Hardwired Fluorescent Fixture, 27-65 watts(incandesc	12	0	1	89,410	16	1.73
Lighting	Hardwired Fluorescent Fixture, 27-65 watts(mercury	90	0	6	316,411	16	3.48
Lighting	Hardwired Fluorescent Fixture, 66-90 watts(incandesc	-	-	-	-	16	#DIV/0!
Lighting	Hardwired Fluorescent Fixture, 66-90 watts(mercury	-	-	-	-	16	#DIV/0!
Lighting	Hardwired Fluorescent Fixture, >90 watts(incandesc	20	0	2	226,688	16	1.76
Lighting	Hardwired Fluorescent Fixture, >90 watts(mercury v	-	-	-	-	16	#DIV/0!
Lighting	Induction Lamps and fixtures 55 - 100 watts	-	-	-	-	16	#DIV/0!
Lighting	Induction Lamps and fixtures >100 watts	-	-	-	-	16	#DIV/0!
Lighting	LED Exit Sign	1,238	4	96	4,871,826	16	3.77
Lighting	LED Channel Signage (Red) indoor <2ft	-	-	-	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) indoor >2ft	-	-	-	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) outdoor <2ft	-	-	-	-	16	#DIV/0!
Lighting	LED Channel Signage (Red) outdoor >2ft	-	-	-	-	16	#DIV/0!
Lighting	T-8 or T-5 Lamp and Electronic ballast - 2 foot	1,199	1	18	622,866	16	5.33
Lighting	T-8 or T-5 Lamp and Electronic, 2-foot lamp remove	513	1	7	1,009,434	16	1.40
Lighting	T-8 or T-5 Lamp and Electronic ballast - 3 foot	68	0	1	41,395	16	4.58
Lighting	T-8 or T-5 Lamp and Electronic, 3-foot lamp remove	74	0	1	170,845	16	1.22
Lighting	T-8 or T-5 Lamp and Electronic ballast - 4 foot	112,987	59	355	63,436,582	16	1.19
Lighting	T-8 or T5 Lamp and Electronic, 4-foot lamp remove	5,293	11	130	11,937,224	16	2.15
Lighting	T-8 or T-5 Lamp and Electronic, 8-foot lamp install	2,453	1	33	1,158,427	16	5.44
Lighting	T-8 or T-5 Lamp and Electronic, 8-foot lamp remove	118	1	4	693,795	16	1.25
Lighting	Interior pulse start HID fixture 0-35 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 0-35 watts mercury vs	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 36-70 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 36-70 watts mercury v	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 71-100 watts incandesc	36	0	3	323,019	16	1.59
Lighting	Interior pulse start HID fixture 71-100 watts mercury	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 101-175 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 101-175 watts mercury	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 176 - 250 watts mercu	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 176-250 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 251 - 400 watts mercu	-	-	-	-	16	#DIV/0!
Lighting	Interior pulse start HID fixture 251-400 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture 0-100 watts incandesc	24	0	2	202,899	16	1.60
Lighting	Exterior pulse start HID fixture 0-100 watts mercury	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture 101-175 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture 101-175 watts mercury	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture > 176 watts incandesc	-	-	-	-	16	#DIV/0!
Lighting	Exterior pulse start HID fixture > 176 watts mercury	55	0	8	460,029	16	3.22
Lighting	Ceramic Metal Halide (CMH), 75 watts	-	-	-	-	16	#DIV/0!
Lighting	Interior Pulse Start Metal Halide (400 W replacement)	285	1	26	885,780	10	4.49
Lighting	Interior HO T-5 4 lamp fixture retrofits	12,252	113	2,161	122,951,270	16	3.38
Lighting	Occupancy Sensor wall mounted	5,704	15	180	13,318,883	8	2.05
Lighting	Occupancy Sensor ceiling mounted	17,396	154	974	132,992,925	8	1.19
Lighting	Plug Load sensor	-	-	-	-	8	#DIV/0!
Lighting	Photozell	183	2	1	1,824,446	8	0.26
Lighting	Timedlock	207	2	4	2,063,729	8	0.47
Refrigeration	Night Covers for Display Cases - med temp	-	-	-	-	5	#DIV/0!
Refrigeration	Night Covers for Display Cases - low temp	-	-	-	-	5	#DIV/0!

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End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Refrigeration	Infiltration Barrier for Walk-ins (strip curtains)	420	1	4	546,840	4	1.09
Refrigeration	Retrofit Glass doors on open vertical display cases (	-	-	-	-	12	#DIV/0!
Refrigeration	Retrofit Glass doors on open vertical display cases (	-	-	-	-	12	#DIV/0!
Refrigeration	Replace reach in case w/doors with hi eff case with	67	1	33	746,374	12	7.22
Refrigeration	New Low Temp reach in Display Case with doors (r	-	-	-	-	16	#DIV/0!
Refrigeration	New Medium Temp reach in Display Case with Doo	-	-	-	-	16	#DIV/0!
Refrigeration	Special Doors with Low Anti-Sweat Heat low temp)	-	-	-	-	12	#DIV/0!
Refrigeration	Anti-Sweat Heat Controller	-	-	-	-	8	#DIV/0!
Refrigeration	Insulate Bare Suction Pipes	-	-	-	-	11	#DIV/0!
Refrigeration	Main door Cooler Door Gaskets (Walk-in)	698	6	2	4,086,650	4	0.25
Refrigeration	Main Door Freezer Door Gaskets (Walk-in)	206	2	1	1,206,089	4	0.25
Refrigeration	Auto-closer for Coolers	-	-	-	-	8	#DIV/0!
Refrigeration	Auto-closer for Freezers	-	-	-	-	8	#DIV/0!
Refrigeration	Auto-closer for Glass Doors for Walk-In Coolers	-	-	-	-	8	#DIV/0!
Refrigeration	Oversized Air Cooled Condenser	-	-	-	-	16	#DIV/0!
Refrigeration	Oversized Evaporative Cooled Condenser	-	-	-	-	16	#DIV/0!
Refrigeration	Air cooled to Evaporative cooled condensers - comve	-	-	-	-	16	#DIV/0!
Refrigeration	Air cooled to Evaporative cooled condensers - multt	-	-	-	-	16	#DIV/0!
Refrigeration	Multiplex Compressor System air cooled	-	-	-	-	12	#DIV/0!
Refrigeration	Multiplex Compressor System - evap cooled	-	-	-	-	12	#DIV/0!
Refrigeration	Multiplex Compressor System w/ eff cond - air coole	-	-	-	-	12	#DIV/0!
Refrigeration	Multiplex Compressor System w/ eff cond - evap coo	-	-	-	-	12	#DIV/0!
Refrigeration	Floating Head Pressure Controller - air cooled	-	-	-	-	16	#DIV/0!
Refrigeration	Floating Head Pressure Controller - evap cooled	-	-	-	-	16	#DIV/0!
Refrigeration	Efficient Evaporator Fan Motors (SHP to PSC)	-	-	-	-	16	#DIV/0!
Refrigeration	Efficient Evaporator Fan Motors (SHP to ECM)	180	1	10	1,356,768	16	1.46
Refrigeration	High Efficiency Compressor	-	-	-	-	15	#DIV/0!
Refrigeration	Evaporative Fan Controller	-	-	-	-	5	#DIV/0!
Refrigeration	Vending Machine Controller	493	8	69	8,230,635	15	1.65
Agricultural	Sprinkler to Micro-Irrigation conversion	-	-	-	-	20	#DIV/0!
Agricultural	Low pressure impact sprinkler nozzles(permanent)	-	-	-	-	5	#DIV/0!
Agricultural	Low pressure impact sprinkler nozzles(portable)	-	-	-	-	5	#DIV/0!
Agricultural	Variable Frequency Drives for Injectin Molding Macz	-	-	-	-	15	#DIV/0!
Motors	Motors 1-200 HP	-	-	-	-	15	#DIV/0!
Food Service	Pressureless Steamers <=0.4 kW idle	-	-	-	-	12	#DIV/0!
Food Service	Pressureless Steamers <=0.2 kW idle	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet- Full Size <= 8 kW	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet- Full Size <= 6 kW	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Three Quarter Size <= 8	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Three Quarter Size <= 6	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Half Size <= 4 kW	-	-	-	-	12	#DIV/0!
Food Service	Insulated Holding Cabinet-Half Size <= 3 kW	-	-	-	-	12	#DIV/0!
SI - SPC - IRP							
Lighting	Com. Indoor Lighting Sys. Mod.	5,030,326	40	508	56,339,652	16	1.77
Lighting	Com. Indoor Lighting Sys. Repl.	53,400,372	425	2,565	598,084,162	16	0.91
Lighting	Ind. Indoor Lighting Sys. Repl.	4,871,184	39	234	54,557,259	16	0.91
Lighting	Ind. Indoor Lighting Sys. Mod.	618,668	5	62	6,928,971	16	1.77
Lighting	Outdoor Lighting	88,398	1	9	990,056	16	1.77
Lighting	LED Lamps	140,453	1	7	1,573,076	16	0.91
Upstream Motors and HVAC Rebates - IRP							
HVAC	Package single Tier 1-air cooled	12,366	384	1,876	110,364,302	15	3.62
HVAC	Split System single Tier 1- air cooled	53	1	10	400,592	15	5.18
HVAC	Package single Tier 2- air cooled	13,306	461	4,037	132,311,432	15	6.01
HVAC	Split System single Tier 2- air cooled	337	11	131	3,244,966	15	7.78
HVAC	Package single Tier 3 - air cooled	305	12	123	3,332,716	15	7.16
HVAC	Split System Tier 3 - air cooled	64	2	33	697,146	15	9.10

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			Admin	IMC			
HVAC	65-135kBTU air cooled, package or split Tier 2	12,628	164	958	47,031,143	15	4.22
HVAC	65-135kBTU water/evap cooled, package or split Tier 2	401	5	30	1,493,789	15	4.22
HVAC	135-240 kBTU air cooled, package or split Tier 2	6,051	85	459	24,449,024	15	3.94
HVAC	135-240 kBTU water/evap cooled, package or split Tier 2	-	-	-	-	15	#DIV/0!
HVAC	>240 kBTU air cooled, package or split Tier 2	6,298	97	478	27,883,165	15	3.65
Motors	Motors 1 HP	249	1	3	214,180	8	2.85
Motors	Motors 1.5 HP	62	0	1	64,758	8	2.06
Motors	Motors 2 HP	156	1	2	216,852	8	1.70
Motors	Motors 3 HP	157	2	3	368,963	8	1.80
Motors	Motors 5 HP	221	4	8	1,140,572	16	1.88
Motors	Motors 7.5 HP	79	3	3	742,625	16	1.44
Motors	Motors 10 HP	161	6	14	1,743,437	16	2.09
Motors	Motors 15 HP	92	4	8	1,317,028	16	1.73
Motors	Motors 20 HP	102	7	14	1,947,433	16	1.91
Motors	Motors 25 HP	66	18	9	5,225,933	16	0.93
Motors	Motors 30 HP	79	26	11	7,673,795	16	0.88
Motors	Motors 40 HP	73	29	10	8,383,811	16	0.84
Motors	Motors 50 HP	52	27	15	7,937,679	16	0.96
Motors	Motors 60 HP	16	8	2	2,459,812	16	0.77
Motors	Motors 75 HP	15	10	2	2,826,086	16	0.72
Motors	Motors 100 HP	26	21	0	6,088,643	16	0.63
Motors	Motors 125 HP	7	8	0	2,222,761	16	0.64
Motors	Motors 150 HP	7	8	0	2,335,119	16	0.63
Motors	Motors 200 HP	10	15	0	4,447,949	16	0.63
VeSM Advantage Plus2 - IRP							
Other	Value Energy Stream Implementation - Medium	12	118	100	20,160,000	20	2.23
Other	Value Energy Stream Implementation - Large	12	213	106	36,288,000	20	1.81
Local Small Hard to Reach - IRP							
Lighting	Screw-in Compact Fluorescent Lamp, 5-13 Watts	2,311	11	20	5,159,594	16	1.10
Lighting	Screw-in Compact Fluorescent Lamp, 14-26 Watts	5,295	39	61	18,862,231	16	0.97
Lighting	Screw-in Compact Fluorescent Lamp, >27 Watts	549	8	6	3,715,003	16	0.69
Lighting	LED Exit Sign	495	5	45	2,257,390	16	3.99
Lighting	2nd Gen. (1) 24" T-8 Lamp with Elec. Bal.	166	0	13	95,795	16	25.94
Lighting	2nd Gen. (1) 36" T-8 Lamp with Elec. Bal.	83	0	2	107,770	16	3.76
Lighting	2nd Gen. (1) 48" T-8 Lamp with Elec. Bal.	1,020	2	23	586,976	8	5.73
Lighting	2nd Gen. (2) 48" T-8 Lamp with Elec. Bal.	7,584	20	46	9,824,140	16	1.24
Lighting	2nd Gen. (3) 48" T-8 Lamp with Elec. Bal.	389	2	13	1,092,321	16	2.62
Lighting	2nd Gen. (4) 48" T-8 Lamp with Elec. Bal.	8,797	51	144	24,709,180	16	1.44
Lighting	2nd Gen. (3) 48" T-8 Lamp with (2) Elec. Bal.	699	3	27	1,609,177	16	3.42
Lighting	2nd Gen. (4) 48" T-8 Lamp with (2) Elec. Bal.	4,300	34	165	16,398,853	16	2.21
Lighting	(4) 48" T-12 to (3) 48" T-8 Lamp with Elec. Bal.	66	1	2	321,006	16	1.67
Lighting	(4) 48" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	2,816	31	17	14,995,646	16	0.59
Lighting	(3) 48" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	58	0	0	189,120	16	0.72
Lighting	(1) 96" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	81	0	2	122,715	16	2.87
Lighting	(2) 96" T-12 to (4) 48" T-8 Lamp with Elec. Bal.	6,112	21	138	10,115,881	16	2.86
Lighting	(1) 96" T-12 to (1) 96" T-8 Lamp with Elec. Bal.	954	2	33	1,167,146	16	5.53
Lighting	(2) 96" T-12 to (2) 96" T-8 Lamp with Elec. Bal.	8,141	23	86	11,129,659	16	1.79
Lighting	(2) U-Tube T-8 with Elec. Bal.	709	1	25	663,512	16	7.31
Lighting	[4] 8ft Fixtures [4] 8ft	1,296	7	162	3,346,366	16	9.20
Lighting	[4] 8ft Fixtures [8] 4ft	85	1	10	437,649	16	4.47
Lighting	Interior HID fixture 0-35 watts incandescent basecc	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 0-35 watts mercury vapor basecc	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 36-70 watts incandescent basecc	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 36-70 watts mercury vapor basecc	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 71-100 watts incandescent basecc	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 71-100 watts mercury vapor basecc	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 101-175 watts incandescent basecc	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 101-175 watts mercury vapor basecc	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 176 - 250 watts incandescent basecc	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 176 - 250 watts mercury vapor basecc	-	-	-	-	16	#DIV/0!

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			Admin	IMC			
Lighting	Interior HID fixture 251 - 400 watts mercury vapro ba	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 251-400 watts incandescent base	-	-	-	-	16	#DIV/0!
Lighting	Interior HID fixture 251-400 watts metal halide base	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture 0-100 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture 0-100 watts mercury vapor base	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture 101-175 watts incandescent bas	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture 101-175 watts mercury vapor ba	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture > 176 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting	Exterior HID fixture > 176 watts mercury vapor base	-	-	-	-	16	#DIV/0!
Lighting	Interior Pulse Start Metal Halide (400 W replacem	-	-	-	-	10	#DIV/0!
HVAC	Reflective Window Film - Coastal	-	-	-	-	16	#DIV/0!
HVAC	Reflective Window Film - Inland	-	-	-	-	16	#DIV/0!
HVAC	Reflective Window Film - Desert	-	-	-	-	16	#DIV/0!
HVAC	Setback Programmable Thermostats	142	1	8	711,217	16	2.40
HVAC	Package Terminal Air Conditioners	0	0	0	2,354	16	2.10
HVAC	>5 ton Basic HVAC Diagnostic	-	-	-	-	8	#DIV/0!
HVAC	<= 5 ton Basic HVAC Diagnostic	-	-	-	-	8	#DIV/0!
SI - Small Commercial Lighting - IRP							
Lighting - Vendor ECC	Screw-in Compact Fluorescent Lamp, 5-13 Watts	5,886	6	52	1,641,375	2	3.99
Lighting - Vendor ECC	Screw-in Compact Fluorescent Lamp, 14-26 Watts	28,842	51	332	12,842,397	2	3.35
Lighting - Vendor ECC	Screw-in Compact Fluorescent Lamp, >27 Watts	1,635	5	19	1,382,472	2	1.97
Lighting - Vendor ECC	LED Exit Sign	1,608	15	145	7,336,061	16	3.99
Lighting - Vendor ECC	2nd Gen. (1) 24" T-8 Lamp with Elec. Bal.	208	0	17	119,744	16	25.94
Lighting - Vendor ECC	2nd Gen. (1) 36" T-8 Lamp with Elec. Bal.	221	1	5	286,263	16	3.76
Lighting - Vendor ECC	2nd Gen. (1) 48" T-8 Lamp with Elec. Bal.	1,722	4	38	1,982,686	16	3.88
Lighting - Vendor ECC	2nd Gen. (2) 48" T-8 Lamp with Elec. Bal.	12,254	33	75	15,872,714	16	1.24
Lighting - Vendor ECC	2nd Gen. (3) 48" T-8 Lamp with Elec. Bal.	1,511	9	52	4,240,741	16	2.62
Lighting - Vendor ECC	2nd Gen. (4) 48" T-8 Lamp with Elec. Bal.	25,034	145	409	70,259,904	16	1.44
Lighting - Vendor ECC	2nd Gen. (3) 48" T-8 Lamp with (2) Elec. Bal.	1,939	9	74	4,465,073	16	3.42
Lighting - Vendor ECC	2nd Gen. (4) 48" T-8 Lamp with (2) Elec. Bal.	13,389	105	514	51,066,203	16	2.21
Lighting - Vendor ECC	(4) 48" T-12 to (3) 48" T-8 Lamp with Elec. Bal.	2,482	25	86	12,145,391	16	1.67
Lighting - Vendor ECC	(4) 48" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	1,233	14	8	6,565,920	16	0.59
Lighting - Vendor ECC	(3) 48" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	23	0	0	74,482	16	0.72
Lighting - Vendor ECC	(1) 96" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	158	0	3	238,781	16	2.87
Lighting - Vendor ECC	(2) 96" T-12 to (4) 48" T-8 Lamp with Elec. Bal.	1,136	4	26	1,880,300	16	2.86
Lighting - Vendor ECC	(1) 96" T-12 to (1) 96" T-8 Lamp with Elec. Bal.	1,552	4	54	1,898,754	16	5.53
Lighting - Vendor ECC	(2) 96" T-12 to (2) 96" T-8 Lamp with Elec. Bal.	16,140	46	170	22,068,984	16	1.79
Lighting - Vendor ECC	(2) U-Tube T-8 with Elec. Bal.	1,387	3	49	1,297,646	16	7.31
Lighting - Vendor ECC	[4] 8ft Fixtures [4] 8ft	769	4	96	1,984,389	16	9.20
Lighting - Vendor ECC	[4] 8ft Fixtures [8] 4ft	213	2	25	1,099,284	16	4.47
Lighting - Vendor ECC	Interior HID fixture 0-35 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior HID fixture 0-35 watts mercury vapor basec	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior HID fixture 36-70 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior HID fixture 36-70 watts mercury vapor basec	14	0	1	110,821	16	1.93
Lighting - Vendor ECC	Interior HID fixture 71-100 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior HID fixture 71-100 watts mercury vapor base	2	0	0	10,794	16	2.97
Lighting - Vendor ECC	Interior HID fixture 101-175 watts incandescent bas	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior HID fixture 101-175 watts mercury vapro ba	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior HID fixture 176 - 250 watts mercury vapro ba	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior HID fixture 176-250 watts incandescent base	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior HID fixture 251 - 400 watts mercury vapro ba	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior HID fixture 251-400 watts incandescent base	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior HID fixture 251-400 watts metal halide base	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Exterior HID fixture 0-100 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Exterior HID fixture 0-100 watts mercury vapor base	13	0	1	70,551	16	3.44
Lighting - Vendor ECC	Exterior HID fixture 101-175 watts incandescent bas	6	0	1	122,107	16	1.57
Lighting - Vendor ECC	Exterior HID fixture 101-175 watts mercury vapor ba	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Exterior HID fixture > 176 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Exterior HID fixture > 176 watts mercury vapor base	-	-	-	-	16	#DIV/0!
Lighting - Vendor ECC	Interior Pulse Start Metal Halide (400 W replacem	-	-	-	-	10	#DIV/0!
Lighting - Vendor CRI	Screw-in Compact Fluorescent Lamp, 5-13 Watts	1,243	1	11	346,611	2	3.99
Lighting - Vendor CRI	Screw-in Compact Fluorescent Lamp, 14-26 Watts	13,120	23	151	5,841,811	2	3.35

Technical Appendix

Table TA.3.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
NONRESIDENTIAL PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Lighting - Vendor CRI	Screw-in Compact Fluorescent Lamp, >27 Watts	96	0	1	81,173	2	1.97
Lighting - Vendor CRI	LED Exit Sign	1,051	10	95	4,794,956	16	3.99
Lighting - Vendor CRI	2nd Gen. (1) 24" T-8 Lamp with Elec. Bal.	28	0	2	16,119	16	25.94
Lighting - Vendor CRI	2nd Gen. (1) 36" T-8 Lamp with Elec. Bal.	119	0	3	154,142	16	3.76
Lighting - Vendor CRI	2nd Gen. (1) 48" T-8 Lamp with Elec. Bal.	202	0	4	232,580	16	3.88
Lighting - Vendor CRI	2nd Gen. (2) 48" T-8 Lamp with Elec. Bal.	2,591	7	16	3,356,145	16	1.24
Lighting - Vendor CRI	2nd Gen. (3) 48" T-8 Lamp with Elec. Bal.	241	1	8	676,352	16	2.62
Lighting - Vendor CRI	2nd Gen. (4) 48" T-8 Lamp with Elec. Bal.	15,530	97	253	47,092,275	16	1.36
Lighting - Vendor CRI	2nd Gen. (3) 48" T-8 Lamp with (2) Elec. Bal.	1,118	7	43	3,294,114	16	2.75
Lighting - Vendor CRI	2nd Gen. (4) 48" T-8 Lamp with (2) Elec. Bal.	7,258	63	279	30,377,420	16	2.05
Lighting - Vendor CRI	(4) 48" T-12 to (3) 48" T-8 Lamp with Elec. Bal.	85	1	3	428,172	16	1.63
Lighting - Vendor CRI	(4) 48" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	4,576	52	28	25,356,165	16	0.58
Lighting - Vendor CRI	(3) 48" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	614	4	4	2,120,852	16	0.70
Lighting - Vendor CRI	(1) 96" T-12 to (2) 48" T-8 Lamp with Elec. Bal.	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	(2) 96" T-12 to (4) 48" T-8 Lamp with Elec. Bal.	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	(1) 96" T-12 to (1) 96" T-8 Lamp with Elec. Bal.	1,529	4	53	1,870,477	16	5.53
Lighting - Vendor CRI	(2) 96" T-12 to (2) 96" T-8 Lamp with Elec. Bal.	9,783	28	103	13,375,705	16	1.79
Lighting - Vendor CRI	(2) U-Tube T-8 with Elec. Bal.	495	1	18	463,062	16	7.31
Lighting - Vendor CRI	[4] 8ft Fixtures [4] 8ft	419	2	52	1,081,221	16	9.20
Lighting - Vendor CRI	[4] 8ft Fixtures [8] 4ft	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 0-35 watts incandescent baseca	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 36-70 watts mercury vapor basecc	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 36-70 watts incandescent basecc	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 36-70 watts mercury vapor basecc	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 71-100 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 71-100 watts mercury vapor basec	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 101-175 watts incandescent basec	1	0	0	20,869	16	0.64
Lighting - Vendor CRI	Interior HID fixture 101-175 watts mercury vapro bas	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 176 - 250 watts mercury vapro b	10	0	1	130,970	16	2.38
Lighting - Vendor CRI	Interior HID fixture 176-250 watts incandescent bas	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 251 - 400 watts mercury vapro b	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 251-400 watts incandescent bas	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior HID fixture 251-400 watts metal halide base	221	4	7	1,765,289	16	1.08
Lighting - Vendor CRI	Exterior HID fixture 0-100 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Exterior HID fixture 0-100 watts mercury vapor base	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Exterior HID fixture 101-175 watts incandescent bas	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Exterior HID fixture 101-175 watts mercury vapor ba	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Exterior HID fixture > 176 watts incandescent basec	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Exterior HID fixture > 176 watts mercury vapor base	-	-	-	-	16	#DIV/0!
Lighting - Vendor CRI	Interior Pulse Start Metal Halide (400 W replacem	367	4	45	1,564,301	10	4.69

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Table TA 3.5a
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DISTRIBUTION OF SPC PAYMENTS - NONRESIDENTIAL PROGRAM AREA
 LARGE SPC
 2005

	Lighting	[1,2]	HVAC	[1,2]	Other	[1,2]	Total	[1,2]
Edison Source	\$ -		\$ -		\$ -		\$ -	
Total Affiliate	\$ -		\$ -		\$ -		\$ -	
ESCO 1	\$ -		\$ -		\$ 1,650		\$ 1,650	
ESCO 2	-		-		91,282		91,282	
ESCO 3	82,104		-		-		82,104	
ESCO 4	-		88,458		-		88,458	
ESCO 5	3,964		-		-		3,964	
ESCO 6	184,638		87,143		66,033		337,815	
ESCO 7	218,148		-		-		218,148	
ESCO 8	-		-		7,476		7,476	
ESCO 9	18,050		-		-		18,050	
ESCO 10	33,300		-		-		33,300	
ESCO 11	76,505		-		-		76,505	
ESCO 12	1,598,261		-		-		1,598,261	
ESCO 13	39,713		107,298		-		147,011	
ESCO 14	16,650		-		-		16,650	
ESCO 15	9,064		-		-		9,064	
ESCO 16	405,391		-		-		405,391	
ESCO 17	148,357		-		-		148,357	
ESCO 18	32,094		-		-		32,094	
ESCO 19	2,023		-		-		2,023	
ESCO 20	3,630		3,200		121,634		128,464	
ESCO 21	247,445		-		-		247,445	
ESCO 22	788		-		-		788	
ESCO 23	-		84,345		647,655		732,000	
ESCO 24	47,519		-		-		47,519	
ESCO 25	4,819		-		-		4,819	
ESCO 26	54,725		-		29,160		83,886	
ESCO 27	-		979		-		979	
ESCO 28	-		-		104,963		104,963	
ESCO 29	2,167		-		-		2,167	
ESCO 30	19,787		-		-		19,787	
ESCO 31	536,960		-		72,969		609,929	
ESCO 32	95,044		-		-		95,044	
ESCO 33	-		-		39,431		39,431	
ESCO 34	69,377		-		-		69,377	
ESCO 35	9,291		-		45,211		54,502	
ESCO 36	-		-		1,067		1,067	
ESCO 37	542,303		-		-		542,303	
ESCO 38	450,885		-		-		450,885	
ESCO 39	445,504		-		-		445,504	
ESCO 40	47,439		-		-		47,439	
ESCO 41	370,796		-		-		370,796	
ESCO 42	-		6,645		-		6,645	
ESCO 43	-		-		5,148		5,148	
ESCO 44	-		-		5,905		5,905	
ESCO 45	6,136		-		-		6,136	
ESCO 46	82,620		-		-		82,620	
ESCO 47	756,698		-		-		756,698	
ESCO 48	166,206		-		-		166,206	
ESCO 49	86,915		-		-		86,915	
ESCO 50	448,074		-		-		448,074	
ESCO 51	61,855		-		-		61,855	
ESCO 52	100,058		37,438		24,300		161,796	
ESCO 53	94,171		-		-		94,171	
ESCO 54	48,384		-		-		48,384	
ESCO 55	71,466		-		-		71,466	
ESCO 56	42,131		-		-		42,131	
ESCO 57	20,809		-		-		20,809	
ESCO 58	1,125,980		-		-		1,125,980	
ESCO 59	-		3,309		-		3,309	
ESCO 60	23,606		-		-		23,606	
ESCO 61	-		-		500,000		500,000	
ESCO 62	-		66,024		-		66,024	
ESCO 63	377		-		-		377	
ESCO 64	105,224		-		-		105,224	
ESCO 65	-		-		32,642		32,642	
ESCO 66	292,261		-		-		292,261	
ESCO 67	34,236		-		-		34,236	
ESCO 68	178,986		-		-		178,986	
ESCO 69	399,422		-		-		399,422	
ESCO 70	764,917		-		-		764,917	
ESCO 71	4,113		-		-		4,113	
ESCO 72	598,595		-		-		598,595	

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Table TA 3.5a
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DISTRIBUTION OF SPC PAYMENTS - NONRESIDENTIAL PROGRAM AREA
 LARGE SPC
 2005

	Lighting	[1,2]	HVAC	[1,2]	Other	[1,2]	Total	[1,2]
ESCO 73	47,536		-		-		47,536	
ESCO 74	1,983		-		-		1,983	
ESCO 75	-		-		1,411		1,411	
ESCO 76	-		837		-		837	
ESCO 77	67,635		-		-		67,635	
ESCO 78	4,826,925		-		-		4,826,925	
ESCO 79	2,091		-		-		2,091	
ESCO 80	55,993		-		-		55,993	
ESCO 81	18,186		-		-		18,186	
ESCO 82	-		68		-		68	
ESCO 83	42,564		-		50,563		93,126	
ESCO 84	5,743		-		16,596		22,339	
ESCO 85	1,095,108		-		-		1,095,108	
ESCO 86	67,781		-		-		67,781	
ESCO 87	33,189		-		-		33,189	
ESCO 88	91,219		-		-		91,219	
ESCO 89	61,144		-		-		61,144	
ESCO 90	28,710		-		-		28,710	
ESCO 91	27,139		-		-		27,139	
ESCO 92	1,999		-		-		1,999	
ESCO 93	-		-		97,075		97,075	
ESCO 94	320,815		-		-		320,815	
ESCO 95	18,383		-		-		18,383	
ESCO 96	165,574		-		-		165,574	
ESCO 97	99,124		-		-		99,124	
ESCO 98	-		-		-		-	
ESCO 99	26,879		-		-		26,879	
ESCO 100	71,400		-		-		71,400	
ESCO 101	625,597		-		-		625,597	
ESCO 102	-		-		15,210		15,210	
Total ESCO	\$ 19,132,699		\$ 485,745		\$ 1,977,382		\$ 21,595,825	
Customer Project 1	\$ 987		\$ -		\$ -		\$ 987	
Customer Project 2	2,177		-		-		2,177	
Customer Project 3	7,306		-		-		7,306	
Customer Project 4	1,080		-		-		1,080	
Customer Project 5	12,440		-		-		12,440	
Customer Project 6	7,331		-		-		7,331	
Customer Project 7	-		33,840		-		33,840	
Customer Project 8	54,632		-		-		54,632	
Customer Project 9	-		27,823		-		27,823	
Customer Project 10	-		-		17,566		17,566	
Customer Project 11	-		-		42,365		42,365	
Customer Project 12	19,646		-		-		19,646	
Customer Project 13	18,131		-		-		18,131	
Customer Project 14	33,994		-		-		33,994	
Customer Project 15	-		-		9,311		9,311	
Customer Project 16	28,992		-		9,131		38,123	
Customer Project 17	-		-		3,058		3,058	
Customer Project 18	254		-		893		1,147	
Customer Project 19	-		-		15,596		15,596	
Customer Project 20	110,815		-		-		110,815	
Customer Project 21	40,805		-		-		40,805	
Customer Project 22	8,990		-		-		8,990	
Customer Project 23	-		-		296,526		296,526	
Customer Project 24	66,230		-		-		66,230	
Customer Project 25	52,566		-		-		52,566	
Customer Project 26	-		-		14,878		14,878	
Customer Project 27	-		-		6,801		6,801	
Customer Project 28	-		-		298,960		298,960	
Customer Project 29	-		-		199		199	
Customer Project 30	433,889		-		-		433,889	
Customer Project 31	3,973		-		-		3,973	
Customer Project 32	-		-		6,007		6,007	
Customer Project 33	12,452		-		-		12,452	

Technical Appendix

Table TA 3.5a
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DISTRIBUTION OF SPC PAYMENTS - NONRESIDENTIAL PROGRAM AREA
 LARGE SPC
 2005

	Lighting	[1,2]	HVAC	[1,2]	Other	[1,2]	Total	[1,2]
Customer Project 34	308		-		-		308	
Customer Project 35	24,952		-		-		24,952	
Customer Project 36	570		-		9,345		9,915	
Customer Project 37	13,351		-		-		13,351	
Customer Project 38	-		1,000		-		1,000	
Customer Project 39	43,843		-		-		43,843	
Customer Project 40	5,350		-		-		5,350	
Customer Project 41	320		-		-		320	
Customer Project 42	-		-		15,130		15,130	
Customer Project 43	-		-		3,770		3,770	
Customer Project 44	538		-		-		538	
Customer Project 45	-		-		42,542		42,542	
Customer Project 46	9,408		-		-		9,408	
Customer Project 47	66,041		-		-		66,041	
Customer Project 48	26,192		-		-		26,192	
Customer Project 49	233,099		-		-		233,099	
Customer Project 50	-		8,454		-		8,454	
Customer Project 51	289,884		-		-		289,884	
Customer Project 52	843,599		-		-		843,599	
Customer Project 53	26,724		-		-		26,724	
Customer Project 54	115,216		-		-		115,216	
Customer Project 55	-		-		45,000		45,000	
Customer Project 56	-		-		114,653		114,653	
Customer Project 57	1,147		-		-		1,147	
Customer Project 58	24,704		-		-		24,704	
Customer Project 59	-		-		12,000		12,000	
Customer Project 60	4,204		-		29,280		33,484	
Customer Project 61	-		33,500		-		33,500	
Customer Project 62	-		-		2,018		2,018	
Customer Project 63	-		18,000		-		18,000	
Customer Project 64	19,747		-		-		19,747	
Customer Project 65	-		-		10,961		10,961	
Customer Project 66	2,134		-		-		2,134	
Customer Project 67	29,447		-		550,000		579,447	
Customer Project 68	-		-		229,128		229,128	
Customer Project 69	534		-		9,226		9,760	
Customer Project 70	21,429		-		-		21,429	
Customer Project 71	6,676		-		-		6,676	
Customer Project 72	-		-		1,090		1,090	
Customer Project 73	21,097		-		-		21,097	
Customer Project 74	-		-		13,841		13,841	
Customer Project 75	11,394		-		-		11,394	
Customer Project 76	7,334		-		-		7,334	
Customer Project 77	-		-		254,727		254,727	
Customer Project 78	9,837		-		9,606		19,442	
Customer Project 79	-		214		-		214	
Customer Project 80	-		-		7,354		7,354	
Customer Project 81	-		-		10,744		10,744	
Customer Project 82	-		-		25,666		25,666	
Customer Project 83	15,486		-		-		15,486	
Customer Project 84	6,472		-		-		6,472	
Customer Project 85	-		1,774		-		1,774	
Customer Project 86	23,586		-		-		23,586	
Customer Project 87	46,216		-		-		46,216	
Customer Project 88	-		-		28,000		28,000	
Customer Project 89	-		18,662		-		18,662	
Customer Project 90	5,524		-		-		5,524	
Customer Project 91	28,894		2,054		-		30,948	
Customer Project 92	4,125		-		186,199		190,324	
Customer Project 93	-		36,922		-		36,922	
Customer Project 94	94,446		-		-		94,446	
Customer Project 95	129,057		-		-		129,057	
Customer Project 96	-		-		2,645		2,645	
Customer Project 97	23,249		-		-		23,249	
Customer Project 98	-		-		5,730		5,730	
Customer Project 99	-		-		10,612		10,612	

Technical Appendix

Table TA 3.5a
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DISTRIBUTION OF SPC PAYMENTS - NONRESIDENTIAL PROGRAM AREA
 LARGE SPC
 2005

	Lighting	[1,2]	HVAC	[1,2]	Other	[1,2]	Total	[1,2]
Customer Project 100	32,256		-		-		32,256	
Customer Project 101	10,958		-		-		10,958	
Customer Project 102	-		-		26,869		26,869	
Customer Project 103	15,384		-		-		15,384	
Customer Project 104	-		-		9,360		9,360	
Customer Project 105	11,909		-		-		11,909	
Customer Project 106	73,757		-		-		73,757	
Customer Project 107	16,375		-		-		16,375	
Customer Project 108	14,392		-		-		14,392	
Customer Project 109	-		-		19,922		19,922	
Customer Project 110	-		2,080		5,447		7,527	
Customer Project 111	-		-		770		770	
Customer Project 112	-		34,055		-		34,055	
Customer Project 113	15,592		-		-		15,592	
Customer Project 114	133,493		-		-		133,493	
Customer Project 115	11,700		-		-		11,700	
Customer Project 116	14,710		-		-		14,710	
Customer Project 117	-		12,392		-		12,392	
Customer Project 118	106		-		-		106	
Customer Project 119	-		-		59,520		59,520	
Customer Project 120	-		6,240		-		6,240	
Customer Project 121	219,434		-		-		219,434	
Customer Project 122	86,438		-		-		86,438	
Customer Project 123	7,125		-		-		7,125	
Customer Project 124	54,353		-		-		54,353	
Customer Project 125	-		-		3,991		3,991	
Customer Project 126	-		-		5,317		5,317	
Customer Project 127	-		-		3,970		3,970	
Customer Project 128	83,551		-		-		83,551	
Customer Project 129	462		-		-		462	
Customer Project 130	-		-		1,972		1,972	
Customer Project 131	-		-		1,518		1,518	
Customer Project 132	-		-		3,552		3,552	
Customer Project 133	-		-		4,195		4,195	
Customer Project 134	29,500		-		-		29,500	
Customer Project 135	6,869		-		-		6,869	
Customer Project 136	39,982		-		-		39,982	
Customer Project 137	6,188		-		-		6,188	
Customer Project 138	50,511		-		-		50,511	
Customer Project 139	-		42,924		54,410		97,334	
Customer Project 140	1,007		-		-		1,007	
Customer Project 141	-		-		1,882		1,882	
Customer Project 142	-		-		2,882		2,882	
Customer Project 143	3,110		-		-		3,110	
Customer Project 144	-		-		5,536		5,536	
Customer Project 145	14,922		-		-		14,922	
Customer Project 146	-		-		12,177		12,177	
Customer Project 147	-		-		10,396		10,396	
Customer Project 148	-		-		39,339		39,339	
Customer Project 149	-		-		107,707		107,707	
Customer Project 150	-		852		-		852	
Customer Project 151	-		8,828		-		8,828	
Customer Project 152	-		34,635		19,169		53,804	
Customer Project 153	-		-		38,488		38,488	
Customer Project 154	-		42,485		-		42,485	
Customer Project 155	53,679		-		-		53,679	
Customer Project 156	30,224		-		-		30,224	
Customer Project 157	31,571		-		-		31,571	
Customer Project 158	219,822		-		-		219,822	
Customer Project 159	64,682		-		-		64,682	
Customer Project 160	-		11,623		20,323		31,946	
Customer Project 161	-		-		420		420	
Customer Project 162	27,600		-		-		27,600	
Customer Project 163	14,902		-		-		14,902	
Customer Project 164	-		-		91,344		91,344	
Customer Project 165	536		-		864		1,400	

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Table TA 3.5a
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 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DISTRIBUTION OF SPC PAYMENTS - NONRESIDENTIAL PROGRAM AREA
 LARGE SPC
 2005

	Lighting	[1,2]	HVAC	[1,2]	Other	[1,2]	Total	[1,2]
Customer Project 166	10,800		-		1,750		12,550	
Customer Project 167	-		-		15,720		15,720	
Customer Project 168	10,240		-		-		10,240	
Customer Project 169	130,665		-		-		130,665	
Customer Project 170	10,461		-		-		10,461	
Customer Project 171	2,015		16,000		-		18,015	
Customer Project 172	-		-		7,500		7,500	
Customer Project 173	13,235		-		-		13,235	
Customer Project 174	455,271		-		-		455,271	
Customer Project 175	-		-		200,000		200,000	
Customer Project 176	17,029		-		-		17,029	
Customer Project 177	36,557		-		-		36,557	
Customer Project 178	4,650		-		73,785		78,435	
Customer Project 179	19,441		-		-		19,441	
Customer Project 180	24,460		-		-		24,460	
Customer Project 181	19,840		-		-		19,840	
Customer Project 182	397,062		-		-		397,062	
Customer Project 183	15,827		-		-		15,827	
Customer Project 184	500		-		-		500	
Customer Project 185	5,079		4,800		352,561		362,441	
Customer Project 186	46,844		9,600		-		56,444	
Customer Project 187	12,589		-		-		12,589	
Customer Project 188	50,410		-		-		50,410	
Customer Project 189	6,683		-		-		6,683	
Customer Project 190	-		-		4,148		4,148	
Customer Project 191	452		-		-		452	
Customer Project 192	30,881		-		-		30,881	
Customer Project 193	31,875		-		-		31,875	
Customer Project 194	990		-		-		990	
Customer Project 195	3,240		-		-		3,240	
Customer Project 196	-		-		26,056		26,056	
Customer Project 197	51,124		-		50,235		101,360	
Customer Project 198	-		-		169,536		169,536	
Customer Project 199	-		-		6,780		6,780	
Customer Project 200	-		34,174		28,700		62,873	
Customer Project 201	49,672		-		-		49,672	
Customer Project 202	80,242		-		4,612		84,854	
Customer Project 203	1,499		-		-		1,499	
Customer Project 204	6,331		-		-		6,331	
Customer Project 205	760		-		-		760	
Customer Project 206	29,775		-		-		29,775	
Customer Project 207	-		8,260		-		8,260	
Customer Project 208	9,205		-		-		9,205	
Customer Project 209	-		99		-		99	
Customer Project 210	-		21,600		-		21,600	
Customer Project 211	-		-		1,583		1,583	
Customer Project 212	17,755		-		22,817		40,571	
Customer Project 213	-		-		13,577		13,577	
Customer Project 214	4,758		-		-		4,758	
Customer Project 215	12,723		-		-		12,723	
Customer Project 216	101,381		-		-		101,381	
Customer Project 217	2,412		-		-		2,412	
Customer Project 218	30,678		-		227,384		258,061	
Customer Project 219	77,786		-		-		77,786	
Customer Project 220	36,693		200,451		349,549		586,693	
Customer Project 221	2,528		-		-		2,528	
Customer Project 222	-		7,018		-		7,018	
Customer Project 223	5,083		-		-		5,083	
Customer Project 224	408,758		-		-		408,758	
Customer Project 225	415,488		-		-		415,488	
Customer Project 226	84,617		-		-		84,617	
Customer Project 227	83,049		-		-		83,049	
Customer Project 228	116,281		-		-		116,281	
Customer Project 229	117,186		-		-		117,186	
Customer Project 230	107,269		-		-		107,269	
Customer Project 231	86,751		-		-		86,751	

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 DISTRIBUTION OF SPC PAYMENTS - NONRESIDENTIAL PROGRAM AREA
 LARGE SPC
 2005

	Lighting	[1,2]	HVAC	[1,2]	Other	[1,2]	Total	[1,2]
Customer Project 232	14,297		-		-		14,297	
Customer Project 233	6,663		-		-		6,663	
Customer Project 234	9,361		-		-		9,361	
Customer Project 235	-		-		500,000		500,000	
Customer Project 236	-		-		5,525		5,525	
Customer Project 237	32,237		-		-		32,237	
Customer Project 238	-		282,747		-		282,747	
Customer Project 239	-		21,406		-		21,406	
Customer Project 240	-		-		10,296		10,296	
Customer Project 241	15,239		-		-		15,239	
Customer Project 242	1,072		2,214		10,495		13,781	
Customer Project 243	-		4,800		-		4,800	
Customer Project 244	41,549		-		-		41,549	
Customer Project 245	-		-		2,556		2,556	
Customer Project 246	-		-		19,218		19,218	
Customer Project 247	49,339		-		-		49,339	
Customer Project 248	5,355		-		-		5,355	
Customer Project 249	-		-		6,944		6,944	
Customer Project 250	-		-		6,114		6,114	
Customer Project 251	-		216		24,131		24,347	
Customer Project 252	-		-		1,750		1,750	
Customer Project 253	-		70,000		-		70,000	
Customer Project 254	1,850		-		-		1,850	
Customer Project 255	-		-		164,523		164,523	
Customer Project 256	29,515		-		-		29,515	
Customer Project 257	-		-		234,410		234,410	
Customer Project 258	-		-		9,023		9,023	
Customer Project 259	75,960		-		-		75,960	
Customer Project 260	65,871		-		-		65,871	
Customer Project 261	2,889		-		-		2,889	
Customer Project 262	29,851		-		-		29,851	
Customer Project 263	240		13,600		-		13,840	
Customer Project 264	-		-		36,150		36,150	
Customer Project 265	-		5,200		-		5,200	
Customer Project 266	-		-		18,270		18,270	
Customer Project 267	87,788		-		-		87,788	
Customer Project 268	80,916		-		-		80,916	
Customer Project 269	35,530		-		-		35,530	
Customer Project 270	-		-		16,305		16,305	
Customer Project 271	37,464		-		-		37,464	
Customer Project 272	15,696		-		-		15,696	
Customer Project 273	10,300		-		-		10,300	
Customer Project 274	-		5,067		1,008		6,075	
Customer Project 275	8,808		-		-		8,808	
Customer Project 276	25,312		-		-		25,312	
Customer Project 277	132,564		-		167,808		300,372	
Customer Project 278	-		7,655		-		7,655	
Customer Project 279	-		-		1,260		1,260	
Customer Project 280	155,621		-		-		155,621	
Customer Project 281	56,634		-		18,144		74,778	
Customer Project 282	36,959		-		-		36,959	
Customer Project 283	8,970		-		-		8,970	
Customer Project 284	-		6,400		2,253		8,653	
Customer Project 285	-		166,348		-		166,348	
Customer Project 286	54,043		-		964		55,007	
Customer Project 287	14,579		-		-		14,579	
Customer Project 288	31,553		-		-		31,553	
Customer Project 289	-		-		2,432		2,432	
Customer Project 290	3,510		-		-		3,510	
Customer Project 291	39,457		-		-		39,457	
Customer Project 292	134,625		-		-		134,625	
Customer Project 293	10,208		-		-		10,208	
Customer Project 294	498,526		-		-		498,526	
Customer Project 295	-		35,995		-		35,995	
Customer Project 296	4,854		-		-		4,854	
Customer Project 297	8,057		-		11,672		19,729	

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 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DISTRIBUTION OF SPC PAYMENTS - NONRESIDENTIAL PROGRAM AREA
 LARGE SPC
 2005

	Lighting	[1,2]	HVAC	[1,2]	Other	[1,2]	Total	[1,2]
Customer Project 298	20,000		-		-		20,000	
Customer Project 299	14,942		-		-		14,942	
Customer Project 300	24,844		-		-		24,844	
Customer Project 301	-		162		-		162	
Customer Project 302	56,707		-		-		56,707	
Customer Project 303	-		102,035		1,429		103,463	
Customer Project 304	-		12,777		5,329		18,106	
Customer Project 305	-		-		75,591		75,591	
Customer Project 306	200,811		-		-		200,811	
Customer Project 307	73,460		-		-		73,460	
Customer Project 308	8,467		-		-		8,467	
Customer Project 309	6,384		-		702		7,086	
Customer Project 310	-		-		91,897		91,897	
Customer Project 311	14,167		-		-		14,167	
Customer Project 312	-		26,166		8,228		34,394	
Customer Project 313	259,564		-		-		259,564	
Customer Project 314	-		-		37,142		37,142	
Customer Project 315	24,157		-		-		24,157	
Customer Project 316	7,861		-		-		7,861	
Customer Project 317	4,875		-		-		4,875	
Customer Project 318	-		-		13,779		13,779	
Customer Project 319	-		-		80,348		80,348	
Customer Project 320	11,862		-		-		11,862	
Customer Project 321	-		-		9,250		9,250	
Customer Project 322	21,240		-		-		21,240	
Customer Project 323	-		-		708		708	
Customer Project 324	779		-		-		779	
Customer Project 325	20,418		-		-		20,418	
Customer Project 326	-		-		1,082		1,082	
Customer Project 327	-		3,054		-		3,054	
Customer Project 328	2,912		-		-		2,912	
Customer Project 329	-		16,600		-		16,600	
Customer Project 330	-		-		18,016		18,016	
Customer Project 331	-		-		27,868		27,868	
Customer Project 332	68,609		-		-		68,609	
Customer Project 333	610,166		-		27,000		637,166	
Customer Project 334	-		11,434		1,695		13,129	
Customer Project 335	-		-		3,010		3,010	
Customer Project 336	13,991		-		960		14,951	
Customer Project 337	12,655		-		-		12,655	
Customer Project 338	196,582		-		-		196,582	
Customer Project 339	20,450		-		-		20,450	
Customer Project 340	-		-		6,744		6,744	
Customer Project 341	6,225		20,929		-		27,154	
Customer Project 342	-		47,671		23,298		70,969	
Customer Project 343	92,465		-		-		92,465	
Customer Project 344	-		35,839		1,093		36,932	
Customer Project 345	-		5,265		24,005		29,270	
Customer Project 346	23,557		-		-		23,557	
Customer Project 347	14,734		-		-		14,734	
Customer Project 348	7,291		-		-		7,291	
Customer Project 349	22,553		-		47,236		69,790	
Customer Project 350	13,194		-		-		13,194	
Customer Project 351	131,206		-		-		131,206	
Customer Project 352	-		192,497		-		192,497	
Customer Project 353	3,168		-		-		3,168	
Customer Project 354	1,581		-		-		1,581	
Customer Project 355	-		-		114,931		114,931	
Customer Project 356	-		-		205		205	
Customer Project 357	-		-		17,035		17,035	
Customer Project 358	-		3,872		-		3,872	
Customer Project 359	193,506		-		-		193,506	
Customer Project 360	11,143		-		-		11,143	
Customer Project 361	22,234		-		-		22,234	
Customer Project 362	-		-		859		859	
Customer Project 363	22,285		-		-		22,285	

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 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DISTRIBUTION OF SPC PAYMENTS - NONRESIDENTIAL PROGRAM AREA
 LARGE SPC
 2005

	Lighting	[1,2]	HVAC	[1,2]	Other	[1,2]	Total	[1,2]
Customer Project 364	-		-		3,621		3,621	
Customer Project 365	-		-		7,355		7,355	
Customer Project 366	5,019		-		-		5,019	
Customer Project 367	15,357		-		-		15,357	
Customer Project 368	-		-		3,469		3,469	
Customer Project 369	-		-		25,125		25,125	
Customer Project 370	1,545		-		6,966		8,511	
Customer Project 371	121,569		-		-		121,569	
Customer Project 372	-		-		105,243		105,243	
Customer Project 373	15,370		-		1,800		17,170	
Customer Project 374	-		-		29,952		29,952	
Customer Project 375	-		-		4,335		4,335	
Customer Project 376	751		-		-		751	
Customer Project 377	-		-		18,573		18,573	
Customer Project 378	8,436		-		-		8,436	
Customer Project 379	5,754		-		-		5,754	
Customer Project 380	7,938		-		-		7,938	
Customer Project 381	-		-		6,468		6,468	
Customer Project 382	31,354		-		-		31,354	
Customer Project 383	55,275		-		-		55,275	
Customer Project 384	-		41,600		22,754		64,354	
Customer Project 385	4,037		-		-		4,037	
Customer Project 386	6,909		-		-		6,909	
Customer Project 387	49,407		-		-		49,407	
Customer Project 388	35,824		-		-		35,824	
Customer Project 389	177		-		-		177	
Customer Project 390	7,725		-		-		7,725	
Customer Project 391	45,351		-		-		45,351	
Customer Project 392	-		-		5,224		5,224	
Customer Project 393	1,485		5,200		-		6,685	
Customer Project 394	-		-		3,471		3,471	
Customer Project 395	89,822		-		-		89,822	
Customer Project 396	-		-		27,566		27,566	
Customer Project 397	19,517		-		-		19,517	
Customer Project 398	7,840		-		-		7,840	
Customer Project 399	7,785		-		-		7,785	
Customer Project 400	-		-		21,384		21,384	
Customer Project 401	199,012		-		-		199,012	
Customer Project 402	32,280		-		-		32,280	
Customer Project 403	18,573		-		-		18,573	
Customer Project 404	99,314		-		80,000		179,314	
Customer Project 405	-		9,763		-		9,763	
Customer Project 406	1,440		-		-		1,440	
Customer Project 407	6,688		-		-		6,688	
Customer Project 408	-		19,200		-		19,200	
Customer Project 409	245,576		-		-		245,576	
Customer Project 410	-		3,327		-		3,327	
Customer Project 411	-		-		1,631		1,631	
Customer Project 412	-		23,760		-		23,760	
Customer Project 413	555,631		-		-		555,631	
Customer Project 414	-		11,375		211		11,586	
Customer Project 415	40,437		-		-		40,437	
Customer Project 416	-		-		29,258		29,258	
Customer Project 417	-		24,000		30,000		54,000	
Customer Project 418	-		-		54,117		54,117	
Customer Project 419	19,858		-		-		19,858	
Customer Project 420	81,039		-		-		81,039	
Customer Project 421	-		50,570		-		50,570	
Customer Project 422	-		-		3,613		3,613	
Customer Project 423	-		-		71,242		71,242	
Customer Project 424	109,187		-		-		109,187	
Customer Project 425	1,599		-		299		1,898	
Customer Project 426	595		-		-		595	
Customer Project 427	-		-		854,309		854,309	
Customer Project 428	-		-		33,067		33,067	
Customer Project 429	944		-		-		944	
Customer Project 430	-		-		5,590		5,590	

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DISTRIBUTION OF SPC PAYMENTS - NONRESIDENTIAL PROGRAM AREA
LARGE SPC
2005

	Lighting	[1,2]	HVAC	[1,2]	Other	[1,2]	Total	[1,2]
Customer Project 431	-		-		89,295		89,295	
Customer Project 432	79,626		-		-		79,626	
Customer Project 433	-		-		23,622		23,622	
Customer Project 434	1,264		-		-		1,264	
Customer Project 435	-		-		20,613		20,613	
Customer Project 436	369,313		5,022		-		374,335	
Customer Project 437	52,885		24,720		-		77,605	
Customer Project 438	24,849		-		-		24,849	
Customer Project 439	-		-		64,500		64,500	
Customer Project 440	-		-		196,224		196,224	
Customer Project 441	53,400		-		-		53,400	
Customer Project 442	480		-		-		480	
Customer Project 443	-		-		18,464		18,464	
Customer Project 444	55,143		-		-		55,143	
Customer Project 445	25,272		-		-		25,272	
Customer Project 446	88,325		10,200		-		98,525	
Customer Project 447	95,820		13,974		22,469		132,262	
Customer Project 448	82,505		554,838		37,728		675,071	
Customer Project 449	2,477		-		-		2,477	
Customer Project 450	-		-		6,600		6,600	
Customer Project 451	-		-		1,523		1,523	
Customer Project 452	-		-		29,883		29,883	
Customer Project 453	35,539		-		-		35,539	
Customer Project 454	-		-		4,585		4,585	
Customer Project 455	-		-		119,180		119,180	
Customer Project 456	-		20,400		5,100		25,500	
Customer Project 457	-		-		72,958		72,958	
Customer Project 458	-		-		4,936		4,936	
Customer Project 459	34,261		-		-		34,261	
Customer Project 460	-		-		13,641		13,641	
Customer Project 461	-		-		93,502		93,502	
Customer Project 462	-		-		6,139		6,139	
Customer Project 463	61,712		-		-		61,712	
Customer Project 464	5,209		-		-		5,209	
Customer Project 465	233		-		484		717	
Customer Project 466	-		67,292		-		67,292	
Customer Project 467	-		-		23,230		23,230	
Customer Project 468	-		-		6,574		6,574	
Customer Project 469	45,049		-		-		45,049	
Customer Project 470	-		-		308		308	
Customer Project 471	3,830		-		-		3,830	
Customer Project 472	-		-		5,240		5,240	
Customer Project 473	-		-		3,026		3,026	
Customer Project 474	36,803		-		-		36,803	
Customer Project 475	-		-		19,599		19,599	
Customer Project 476	-		-		540		540	
Customer Project 477	-		-		5,770		5,770	
Customer Project 478	-		27,786		25,156		52,943	
Customer Project 479	-		-		1,482		1,482	
Customer Project 480	101,472		-		-		101,472	
Total Customer Projects	\$ 15,202,781		\$ 2,683,568		\$ 8,747,892		\$ 26,634,241	
Total Payments	<u>\$ 34,335,479</u>		<u>\$ 3,169,313</u>		<u>\$ 10,725,274</u>		<u>\$ 48,230,067</u>	

[1] Includes 110% contingent funds up to defined caps.

[2] Includes Actual and Committed Payments

Table TA 3.5b
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
DISTRIBUTION OF SPC PAYMENTS - NONRESIDENTIAL PROGRAM AREA
SMALL SPC
2005

**THIS TABLE IS NOT APPLICABLE
TO THE 2005 ENERGY EFFICIENCY PROGRAMS**

Section IV - New Construction Program Area

This section contains narrative that documents and explains the data shown for Tables TA 4.1 through TA 4.4.

Table TA 4.1 Program Cost Estimates Used for Cost-Effectiveness - New Construction Program Area

This table documents those costs used in determining the cost-effectiveness of new construction energy efficiency programs. These tables provide all program costs, including costs expended in 2005 and those costs associated with commitments from 2005 programs.

Program Incentives (Recorded)

Incentive costs represent incentives paid to customers during 2005 (Actual) as well as incentives associated with commitments from the 2005 new construction programs (Committed).

Program Administrative Costs (Recorded)

These costs include all expenditures directly charged to the program with the exception of incentive costs. The administrative costs consist of labor, non-labor, contract labor, and allocated material costs (See Also Table TA 4.2). These costs represent administrative costs expended during 2005 (Actual) as well as administrative costs associated with the handling of commitments from the 2005 new construction programs (Committed).

Shareholder Incentives

Costs represented in the Shareholder Incentives column would represent an allocated amount of the total performance awards earned during a particular program year. There were no shareholder incentives authorized for 2005.

Other Costs

Costs represented in the Other Costs column represent the MA&E costs for the statewide programs. MA&E costs for the applicable New Construction Procurement-funded programs are included in the Program Administrative Costs column. Other allocated costs recorded in the Other Costs category in previous Energy Efficiency Annual Reports (e.g., General Support, Regulatory Support, CPUC Staff, and Summer Initiative Administrative) are now recorded in the Program Administrative Costs column.

Total Utility Costs

The sum of the Program Incentives (Recorded) columns, Program Administrative Costs (Recorded) columns, Shareholder Incentives, and Other costs.

Incremental Measure Costs (Net)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. SCE's incremental measure costs are typically derived from the latest cost source available for the particular measure(s), including recent measure cost studies. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. The net-to-gross ratios are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

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Table TA 4.2 Direct and Allocated Administrative Costs - New Construction Program Area

This table documents the breakdown of the actual administrative costs used in determining the cost-effectiveness of new construction energy efficiency programs. These tables provide detail of all actual program administrative costs expended in 2005. These costs include the costs of Market Assessment & Evaluation for the New Construction Procurement-funded Energy Efficiency Programs, regulatory support, and other energy efficiency support costs.

Labor Costs (Actual)

Labor costs consist of SCE labor charges that are directly charged to the program. These costs include salaries and expenses of SCE employees engaged in developing energy efficiency marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems. The reported costs reflect only the actual costs incurred in 2005 in support of 2005 new construction programs.

Non-Labor Costs (Actual)

Non-labor costs include materials, consultant fees, vendor contracts, and other miscellaneous costs charged directly to the program. These costs include items such as booklets, brochures, promotions, training, membership dues, postage, telephone, supplies, printing/photocopying services, and computer support services. Several programs contain a significant amount of Non-Labor administrative costs due to the use of vendor contracts in the delivery of these programs.

Contract Labor Costs (Actual)

Labor costs consist of contract employees' labor charges that are directly charged to the program. These costs include salaries and expenses of contract employees engaged in developing energy efficient marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems.

Allocated Administrative Costs (Actual)

Allocated administrative costs represent those for building lease and maintenance costs and management oversight expenditures. In addition, the 2005 Allocated Administrative Costs (Actual) category includes costs related to systems support, regulatory support, internal audits, and other costs which are allocated to the programs.

Total Administrative Costs (Actual)

The summation of the aforementioned utility administrative costs - Labor, Non-labor, Contract, and Allocated Administrative costs.

Table TA 4.3 Market Effects: Projected Annual Program Energy Reductions - New Construction Program Area

The projected annual program energy reductions for the new construction program area, presented in TA 4.3, are derived from ex ante estimates of energy savings. These estimates are based upon the measure level savings data submitted in SCE's September 23, 2003 Application for 2004-2005 Energy Efficiency Program Funding and adopted in Decisions D.03-12-060 and D.04-02-059. These estimates have been updated, as applicable, to correspond with the actual program implementation during 2005 and to reflect actual program results as of December 31, 2005. Recorded savings amounts reflect all 2005 program impacts, including impacts from measures installed in 2005 and those impacts associated with commitments from 2005 programs.

Inputs and assumptions for these estimates are described in this section. Projections of annual program energy reductions are developed similarly across program areas, but the specifics of each program area will be discussed in the individual sections to this Technical Appendix.

Program Energy Reduction Assumptions

Annual program energy reduction estimates for new construction programs supplied in SCE's September 23, 2003 Application for 2004-2005 Energy Efficiency Program Funding and submitted herein as the 2005 program results are the result of a summation of measure-level savings from the measures installed or committed to be installed as a result of the 2005 new construction programs. The measure-level savings information used to calculate the 2005 program results are based upon the latest energy savings data available for the particular measure(s), including measurement studies, historical program results, and engineering estimates. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use.

The Effective Useful Life is the length of time (years) for which the load impacts of an energy efficiency measure are expected to last. The useful life estimates are also based upon the Energy Efficiency Policy Manual, adopted in Decision 03-08-067.

Table TA 4.4 Measure Detail – New Construction Program Area

Table TA 4.4 provides measure-level detail for all of SCE's new construction energy efficiency programs with 2005 energy saving goals.

End Use & Measure Description

Detail the actual measures installed or committed to be installed as a result of the 2005 new construction programs.

Quantity (Recorded)

Derived from SCE's program tracking databases, the number of units installed or committed to be installed as a result of the 2005 new construction programs.

Total Resource Costs – Administrative Costs (Recorded)

These costs include all expenditures directly charged to the program with the exception of incentive costs. These costs represent administrative costs expended during 2005 as well as administrative costs associated with the handling of commitments from the 2005 new construction programs. The Summation of the "Total Resource Costs – Admin" and "Total Resource Costs – IMC" column values comprise the Total Resource Costs for Levelizing ("LCRC") as specified in the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001.

Total Resource Costs – Incremental Measure Costs (Recorded)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. SCE's incremental measure costs are typically derived from the latest cost source available for the particular measure(s), including recent measure cost studies. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. The net-to-gross ratios are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding. The Summation of the "Total Resource Costs – Admin" and "Total Resource Costs – IMC" column values comprise the Total Resource Costs for Levelizing ("LCRC") as specified in the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001.

Total Resource Benefits – Lifecycle kWh

Annual net kWh savings multiplied by the measure Useful Life.

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Useful Life

Assumption of the useful life of the measure, used to determine the lifecycle energy savings. The useful life estimates are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

Levelized Costs

The TRC Levelized Cost, calculated pursuant to the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001. These costs, represented as a cents/kWh, are calculated by the summation of the "Total Resource Costs - Admin" and "Total Resource Costs - IMC" column values which comprise the Total Resource Costs for Levelizing ("LCRC") divided by the Total Discounted Load Impacts of the Program ("IMP"). The discount rate utilized is 8.15 %, as specified in the Energy Efficiency Policy Manual, Decision 03-08-067.

Technical Appendix

Table TA 4.1
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 PROGRAM COST ESTIMATES USED FOR COST-EFFECTIVENESS - NEW CONSTRUCTION PROGRAM AREA
 2005

	Program Incentives (Recorded) [1]		Program Administrative Costs (Recorded) [1]		Shareholder Incentives [2]	Other Costs [1,3]	Total Utility Costs [1]	Incremental Measure Costs [1]
	Actual	Committed	Actual	Committed				
Residential	\$ (23,500)	\$ 6,950,860	\$ 1,550,090	\$ 812,038	\$ -	\$ 177,577	\$ 9,467,065	\$ 6,135,267
Nonresidential	1,130,739	6,200,279	2,373,960	2,810,696	-	191,414	12,707,088	30,796,056
New Construction Total	\$ 1,107,239	\$ 13,151,139	\$ 3,924,049	\$ 3,622,735	\$ -	\$ 368,991	\$ 22,174,153	\$ 36,931,324

[1] Includes both PGC and Procurement funded programs.

[2] The Commission authorized no Shareholder Performance Awards in 2005.

[3] Includes program-specific Statewide MA&E costs.

Technical Appendix

Table TA 4.2
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DIRECT AND ALLOCATED ADMINISTRATIVE COSTS - NEW CONSTRUCTION PROGRAM AREA
 2005

	Actual Labor	[1]	Actual Non-Labor	[1]	Actual Contract	[1]	Actual Allocated	[1]	Actual Admin Total	[1]
Residential	\$ 263,532		\$ 1,010,057		\$ 68,132		\$ 208,368		\$ 1,550,090	
Nonresidential	1,173,044		530,307		98,478		572,130		2,373,960	
New Construction Total	<u>\$ 1,436,577</u>		<u>\$ 1,540,364</u>		<u>\$ 166,610</u>		<u>\$ 780,499</u>		<u>\$ 3,924,049</u>	

[1] Includes both PGC and Procurement funded programs.

Technical Appendix

Table TA 4.3
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 MARKET EFFECTS: PROJECTED ANNUAL PROGRAM ENERGY AND DEMAND REDUCTIONS - NEW CONSTRUCTION PROGRAM
 2005

Residential			Nonresidential		
Year	(MW)	(MWH)	Year	(MW)	(MWH)
2005	12.931	11,978	2005	20.688	148,954
2006	12.931	11,978	2006	20.688	148,954
2007	12.931	11,978	2007	20.688	148,954
2008	12.931	11,978	2008	20.688	148,954
2009	12.931	11,978	2009	20.688	148,954
2010	12.931	11,978	2010	20.688	148,954
2011	12.931	11,978	2011	20.688	148,954
2012	12.931	11,978	2012	20.688	148,954
2013	12.931	11,978	2013	20.688	148,954
2014	12.931	11,978	2014	20.688	148,954
2015	12.931	11,978	2015	20.688	148,954
2016	12.931	11,978	2016	20.688	148,954
2017	12.931	11,978	2017	20.688	148,954
2018	12.931	11,978	2018	20.688	148,954
2019	12.931	11,978	2019	20.688	148,954
2020	12.931	11,978	2020	20.688	148,954
2021	12.931	11,978	2021	20.688	148,954
2022	12.931	11,978	2022	20.688	148,954
2023	0.000	0	2023	0.000	0
2024	0.000	0	2024	0.000	0
Total	12.931	215,609	Total	20.688	2,681,166

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Table TA 4.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
NEW CONSTRUCTION PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
California Energy Star New Homes Program - PGC							
Whole House - Single Family	SF Home 15% Inland	1,530	\$ 327	\$ 574	25,402,896	18	\$ 6.89
Whole House - Single Family	SF Home 20% Inland	3,178	881	2,097	68,370,221	18	8.45
Whole House - Multi-Family	MF Home 15%	2,014	488	363	9,019,498	18	18.30
Savings By Design - PGC							
Nonresidential Cooling	HVAC: Energy Reduction	8,122,915	117	1,399	99,594,828	15	2.69
Nonresidential Lighting	Daylighting Controls	5,837,541	88	718	76,345,518	16	1.93
Nonresidential Lighting	LPD Reductions	12,890,858	194	1,691	168,591,403	16	2.04
Nonresidential Refrigeration	Supermarket Systems	7,741,276	107	762	88,587,859	14	1.68
Nonresidential Other	Whole Building - Owner Incentive	12,320,334	185	2,829	161,129,880	16	3.41
Nonresidential Other	Whole Building - Design Team Incentive	-	-	-	-	16	#DIV/0!
Nonresidential Other	Process Systems	62,473,479	1,237	12,920	1,170,774,641	20	2.49
California Energy Star Homes Program - IRP							
Whole House - Single Family	SF Home 15% Inland	3,106	258	1,165	51,569,539	18	5.36
Whole House - Single Family	SF Home 20% Inland	2,569	277	1,696	55,268,438	18	6.93
Whole House - Single Family	SF Tier I	-	-	-	-	18	#DIV/0!
Whole House - Single Family	SF Tier II	-	-	-	-	18	#DIV/0!
Whole House - Multi-Family	MF Home 15%	1,335	130	240	5,978,664	18	12.02
Whole House - Multi-Family	MF Tier I	-	-	-	-	18	#DIV/0!
Savings By Design - IRP							
Nonresidential Cooling	HVAC: Energy Reduction	590,423	26	102	7,239,159	15	3.13
Nonresidential Lighting	Daylighting Controls	1,541,217	72	190	20,156,605	16	2.37
Nonresidential Lighting	LPD Reductions	6,196,113	289	813	81,035,055	16	2.48
Nonresidential Refrigeration	Supermarket Systems	8,460,588	362	833	96,819,359	14	2.11
Nonresidential Other	Whole Building - Owner Incentive	1,593,517	74	366	20,840,604	16	3.86
Nonresidential Other	Whole Building - Design Team Incentive	-	-	-	-	16	#DIV/0!
Nonresidential Other	Process Systems	39,532,992	2,434	8,175	740,861,967	20	2.95

Section V - Crosscutting Program Area

This section contains narrative that documents and explains the data shown for Tables TA 5.1 through TA 5.4.

Table TA 5.1 Program Cost Estimates Used for Cost-Effectiveness - Crosscutting Program Area

This table documents those costs used in determining the cost-effectiveness of crosscutting energy efficiency programs. These tables provide all program costs, including costs expended in 2005 and those costs associated with commitments from 2005 programs.

Program Incentives (Recorded)

Incentive costs represent incentives paid to customers during 2005 (Actual) as well as incentives associated with commitments from the 2005 crosscutting programs (Committed).

Program Administrative Costs (Recorded)

These costs include all expenditures directly charged to the program with the exception of incentive costs. The administrative costs consist of labor, non-labor, contract labor, and allocated material costs (See Also Table TA 5.2). These costs represent administrative costs expended during 2005 (Actual) as well as administrative costs associated with the handling of commitments from the 2005 crosscutting programs (Committed).

Shareholder Incentives

Costs represented in the Shareholder Incentives column would represent an allocated amount of the total performance awards earned during a particular program year. There were no shareholder incentives authorized for 2005.

Other Costs

Costs represented in the Other Costs column represent the MA&E costs for the statewide programs. MA&E costs for the applicable Crosscutting Local and Procurement-funded programs are included in the Program Administrative Costs column. Other allocated costs recorded in the Other Costs category in previous Energy Efficiency Annual Reports (e.g., General Support, Regulatory Support, CPUC Staff, and Summer Initiative Administrative) are now recorded in the Program Administrative Costs column.

Total Utility Costs

The sum of the Program Incentives (Recorded) columns, Program Administrative Costs (Recorded) columns, Shareholder Incentives, and Other costs.

Incremental Measure Costs (Net)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. SCE's incremental measure costs are typically derived from the latest cost source available for the particular measure(s), including recent measure cost studies. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. The net-to-gross ratios are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

Technical Appendix

Table TA 5.2 Direct and Allocated Administrative Costs - Crosscutting Program Area

This table documents the breakdown of the actual administrative costs used in determining the cost-effectiveness of crosscutting energy efficiency programs. These tables provide detail of all actual program administrative costs expended in 2005. These costs include the costs of Market Assessment & Evaluation for the Crosscutting Local and Procurement-funded Energy Efficiency Programs, regulatory support, and other energy efficiency support costs.

Labor Costs (Actual)

Labor costs consist of SCE labor charges that are directly charged to the program. These costs include salaries and expenses of SCE employees engaged in developing energy efficiency marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems. The reported costs reflect only the actual costs incurred in 2005 in support of 2005 crosscutting programs.

Non-Labor Costs (Actual)

Non-labor costs include materials, consultant fees, vendor contracts, and other miscellaneous costs charged directly to the program. These costs include items such as booklets, brochures, promotions, training, membership dues, postage, telephone, supplies, printing/photocopying services, and computer support services. Several programs contain a significant amount of Non-Labor administrative costs due to the use of vendor contracts in the delivery of these programs.

Contract Labor Costs (Actual)

Labor costs consist of contract employees' labor charges that are directly charged to the program. These costs include salaries and expenses of contract employees engaged in developing energy efficient marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems.

Allocated Administrative Costs (Actual)

Allocated administrative costs represent those for building lease and maintenance costs and management oversight expenditures. In addition, the 2005 Allocated Administrative Costs (Actual) category includes costs related to systems support, regulatory support, internal audits, and other costs which are allocated to the programs.

Total Administrative Costs (Actual)

The summation of the aforementioned utility administrative costs - Labor, Non-labor, Contract, and Allocated Administrative costs.

Table TA 5.3 Market Effects: Projected Annual Program Energy Reductions - Crosscutting Program Area

The projected annual program energy reductions for the crosscutting program area, presented in TA 5.3, are derived from ex ante estimates of energy savings. These estimates are based upon the measure level savings data submitted in SCE's September 23, 2003 Application for 2004-2005 Energy Efficiency Program Funding and adopted in Decisions D.03-12-060 and D.04-02-059. These estimates have been updated, as applicable, to correspond with the actual program implementation during 2005 and to reflect actual program results as of December 31, 2005. Recorded savings amounts reflect all 2005 program impacts, including impacts from measures installed in 2005 and those impacts associated with commitments from 2005 programs.

Inputs and assumptions for these estimates are described in this section. Projections of annual program energy reductions are developed similarly across program areas, but the specifics of each program area will be discussed in the individual sections to this Technical Appendix.

Program Energy Reduction Assumptions

Annual program energy reduction estimates for crosscutting programs supplied in the September 23, 2003 Application for 2004-2005 Energy Efficiency Program Funding and submitted herein as the 2005 program results are the result of a summation of measure-level savings from the measures installed or committed to be installed as a result of the 2005 crosscutting programs. The measure-level savings information used to calculate the 2005 program results are based upon the latest energy savings data available for the particular measure(s), including measurement studies, historical program results, and engineering estimates. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use.

The Effective Useful Life is the length of time (years) for which the load impacts of an energy efficiency measure are expected to last. The useful life estimates are also based upon the Energy Efficiency Policy Manual, adopted in Decision 03-08-067.

Table TA 5.4 Measure Detail – Crosscutting Program Area

Table TA 5.4 provides measure-level detail for all of SCE's crosscutting energy efficiency programs with 2005 energy saving goals.

End Use & Measure Description

Detail the actual measures installed or committed to be installed as a result of the 2005 crosscutting programs.

Quantity (Recorded)

Derived from SCE's program tracking databases, the number of units installed or committed to be installed as a result of the 2005 crosscutting programs.

Total Resource Costs – Administrative Costs (Recorded)

These costs include all expenditures directly charged to the program with the exception of incentive costs. These costs represent administrative costs expended during 2005 as well as administrative costs associated with the handling of commitments from the 2005 crosscutting programs. The Summation of the "Total Resource Costs – Admin" and "Total Resource Costs – IMC" column values comprise the Total Resource Costs for Levelizing ("LCRC") as specified in the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001.

Total Resource Costs – Incremental Measure Costs (Recorded)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. SCE's incremental measure costs are typically derived from the latest cost source available for the particular measure(s), including recent measure cost studies. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. The net-to-gross ratios are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding. The Summation of the "Total Resource Costs – Admin" and "Total Resource Costs – IMC" column values comprise the Total Resource Costs for Levelizing ("LCRC") as specified in the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001.

Total Resource Benefits – Lifecycle kWh

Annual net kWh savings multiplied by the measure Useful Life.

Technical Appendix

Useful Life

Assumption of the useful life of the measure, used to determine the lifecycle energy savings. The useful life estimates are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

Levelized Costs

The TRC Levelized Cost, calculated pursuant to the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001. These costs, represented as a cents/kWh, are calculated by the summation of the "Total Resource Costs - Admin" and "Total Resource Costs - IMC" column values which comprise the Total Resource Costs for Levelizing ("LCRC") divided by the Total Discounted Load Impacts of the Program ("IMP"). The discount rate utilized is 8.15 %, as specified in the Energy Efficiency Policy Manual, Decision 03-08-067.

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Table TA 5.1
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 PROGRAM COST ESTIMATES USED FOR COST-EFFECTIVENESS - CROSSCUTTING PROGRAM AREA
 2005

	Program Incentives (Recorded)		[1]	Program Administrative Costs (Recorded)		[1]	Shareholder Incentives	[2]	Other Costs	[1,3]	Total Utility Costs	[1]	Incremental Measure Costs	[1]
	Actual	Committed		Actual	Committed									
Information	\$ -	\$ -		\$ 4,878,084	\$ 11,169		\$ -		\$ 106,104		\$ 4,995,356		\$ -	
EMS	-	-		-	-		-		-		-		-	
EEI														
SPCs	-	-		-	-		-		-		-		-	
Rebates	-	-		-	-		-		-		-		-	
Loans	-	-		-	-		-		-		-		-	
Other	-	5,434,745		5,237,739	2,124,206		-		-		12,796,689		8,488,100	
Upstream Programs														
Information	-	-		1,865,131	1,561,239		-		94,132		3,520,502		-	
Financial Assistance	-	-		-	-		-		-		-		-	
Crosscutting Total	<u>\$ -</u>	<u>\$ 5,434,745</u>		<u>\$ 11,980,953</u>	<u>\$ 3,696,614</u>		<u>\$ -</u>		<u>\$ 200,236</u>		<u>\$ 21,312,548</u>		<u>\$ 8,488,100</u>	

[1] Includes both PGC and Procurement funded programs.

[2] The Commission authorized no Shareholder Performance Awards in 2005.

[3] Includes program-specific Statewide MA&E costs.

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Table TA 5.2
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DIRECT AND ALLOCATED ADMINISTRATIVE COSTS - CROSSCUTTING PROGRAM AREA
 2005

	Actual Labor	[1]	Actual Non-Labor	[1]	Actual Contract	[1]	Actual Allocated	[1]	Actual Admin Total	[1]
Information	\$ 2,638,892		\$ 1,704,777		\$ 181,978		\$ 352,437		\$ 4,878,084	
EMS	-		-		-		-		-	
EEl										
SPCs	-		-		-		-		-	
Rebates	-		-		-		-		-	
Loans	-		-		-		-		-	
Other	113,489		5,042,362		20,104		61,783		5,237,739	
Upstream Programs										
Information	334,583		1,206,905		115,964		207,679		1,865,131	
Financial Assistance	-		-		-		-		-	
Crosscutting Total	<u>\$ 3,086,964</u>		<u>\$ 7,954,045</u>		<u>\$ 318,046</u>		<u>\$ 621,899</u>		<u>\$ 11,980,953</u>	

[1] Includes both PGC and Procurement funded programs.

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Table TA 5.3
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 MARKET EFFECTS: PROJECTED ANNUAL PROGRAM ENERGY AND DEMAND REDUCTIONS - CROSSCUTTING PROGRAM AREA
 2005

Information			EMS			EEl SPCs		
Year	(MW)	(MWH)	Year	(MW)	(MWH)	Year	(MW)	(MWH)
2005	0.000	0	2005	0.000	0	2005	0.000	0
2006	0.000	0	2006	0.000	0	2006	0.000	0
2007	0.000	0	2007	0.000	0	2007	0.000	0
2008	0.000	0	2008	0.000	0	2008	0.000	0
2009	0.000	0	2009	0.000	0	2009	0.000	0
2010	0.000	0	2010	0.000	0	2010	0.000	0
2011	0.000	0	2011	0.000	0	2011	0.000	0
2012	0.000	0	2012	0.000	0	2012	0.000	0
2013	0.000	0	2013	0.000	0	2013	0.000	0
2014	0.000	0	2014	0.000	0	2014	0.000	0
2015	0.000	0	2015	0.000	0	2015	0.000	0
2016	0.000	0	2016	0.000	0	2016	0.000	0
2017	0.000	0	2017	0.000	0	2017	0.000	0
2018	0.000	0	2018	0.000	0	2018	0.000	0
2019	0.000	0	2019	0.000	0	2019	0.000	0
2020	0.000	0	2020	0.000	0	2020	0.000	0
2021	0.000	0	2021	0.000	0	2021	0.000	0
2022	0.000	0	2022	0.000	0	2022	0.000	0
2023	0.000	0	2023	0.000	0	2023	0.000	0
2024	0.000	0	2024	0.000	0	2024	0.000	0
Total	0.000	0	Total	0.000	0	Total	0.000	0

EEl Rebates			EEl Loans			EEl Other		
Year	(MW)	(MWH)	Year	(MW)	(MWH)	Year	(MW)	(MWH)
2005	0.000	0	2005	0.000	0	2005	11.060	60,510
2006	0.000	0	2006	0.000	0	2006	11.060	60,510
2007	0.000	0	2007	0.000	0	2007	11.060	60,510
2008	0.000	0	2008	0.000	0	2008	11.060	60,510
2009	0.000	0	2009	0.000	0	2009	11.060	60,510
2010	0.000	0	2010	0.000	0	2010	11.060	60,510
2011	0.000	0	2011	0.000	0	2011	11.060	60,510
2012	0.000	0	2012	0.000	0	2012	11.060	60,510
2013	0.000	0	2013	0.000	0	2013	11.060	60,510
2014	0.000	0	2014	0.000	0	2014	11.060	60,510
2015	0.000	0	2015	0.000	0	2015	11.060	60,510
2016	0.000	0	2016	0.000	0	2016	0.000	0
2017	0.000	0	2017	0.000	0	2017	0.000	0
2018	0.000	0	2018	0.000	0	2018	0.000	0
2019	0.000	0	2019	0.000	0	2019	0.000	0
2020	0.000	0	2020	0.000	0	2020	0.000	0
2021	0.000	0	2021	0.000	0	2021	0.000	0
2022	0.000	0	2022	0.000	0	2022	0.000	0
2023	0.000	0	2023	0.000	0	2023	0.000	0
2024	0.000	0	2024	0.000	0	2024	0.000	0
Total	0.000	0	Total	0.000	0	Total	11.060	665,610

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Table TA 5.3
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
 MARKET EFFECTS: PROJECTED ANNUAL PROGRAM ENERGY AND DEMAND REDUCTIONS - CROSSCUTTING PROGRAM AREA
 2005

Upstream Programs Information			Upstream Programs Financial Assistance		
Year	(MW)	(MWH)	Year	(MW)	(MWH)
2005	0.000	0	2005	0.000	0
2006	0.000	0	2006	0.000	0
2007	0.000	0	2007	0.000	0
2008	0.000	0	2008	0.000	0
2009	0.000	0	2009	0.000	0
2010	0.000	0	2010	0.000	0
2011	0.000	0	2011	0.000	0
2012	0.000	0	2012	0.000	0
2013	0.000	0	2013	0.000	0
2014	0.000	0	2014	0.000	0
2015	0.000	0	2015	0.000	0
2016	0.000	0	2016	0.000	0
2017	0.000	0	2017	0.000	0
2018	0.000	0	2018	0.000	0
2019	0.000	0	2019	0.000	0
2020	0.000	0	2020	0.000	0
2021	0.000	0	2021	0.000	0
2022	0.000	0	2022	0.000	0
2023	0.000	0	2023	0.000	0
2024	0.000	0	2024	0.000	0
Total	0.000	0	Total	0.000	0

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Table TA 5.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
CROSSCUTTING PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
IDEEA - Air Care Plus - IRP							
All Crosscutting	HVAC replacement	-	\$ -	\$ -	-	15	#DIV/0!
All Crosscutting	Economizer Control Pkge	373	\$ 29	\$ 32	3,431,600	8	\$ 2.46
All Crosscutting	AirCare Basic Package	8,712	\$ 232	\$ 523	27,878,400	8	\$ 3.79
All Crosscutting	AirCare - Refrigerant Tuneup	161	\$ 19	\$ 16	2,254,000	8	\$ 2.16
All Crosscutting	AirCare - 2 unit refrigerant	90	\$ 13	\$ 14	1,584,000	8	\$ 2.36
All Crosscutting	Programmable Thermostat	2,817	\$ 135	\$ 282	16,225,920	8	\$ 3.59
All Crosscutting	AirCare - Air Flow	1,089	\$ 27	\$ 109	3,223,440	8	\$ 5.89
All Crosscutting	Economizer Adjustments	532	\$ 33	\$ 27	3,936,800	8	\$ 2.11
All Crosscutting	ECMs	-	\$ -	\$ -	-	8	#DIV/0!
All Crosscutting	Programmable Thermostat Upgrade plus Economiz	-	\$ -	\$ -	-	8	#DIV/0!
All Crosscutting	Prog therm Upgrade (res to com)	1,296	\$ 310	\$ 194	37,324,800	8	\$ 1.89
IDEEA - Convenience Store EE Delivery Program- IRP							
All Crosscutting	Convenience Store Installation	38	\$ 189	\$ 348	23,169,834	14	\$ 3.97
IDEEA - LACCD - IRP							
All Crosscutting	Crafton FIM1 - Interior - 2nd Gen T8, T5, controls, e	579,665	\$ 29	\$ 83	8,903,654	16	\$ 2.30
All Crosscutting	FIM 2-Exterior - induction fluorescents, CFL, MH	657,753	\$ 33	\$ 94	10,103,086	16	\$ 2.30
All Crosscutting	FIM 3-Chiller Plant Upgrades	102,000	\$ 5	\$ 17	1,566,720	16	\$ 2.53
All Crosscutting	FIM 4-Multizone units to Variable Air Vol.	440,000	\$ 22	\$ 72	6,758,400	16	\$ 2.53
All Crosscutting	FIM 5-Repair Economizer Dampers	20,500	\$ 1	\$ 3	314,880	16	\$ 2.53
All Crosscutting	FIM 6-Skylights	23,000	\$ 1	\$ 4	353,280	16	\$ 2.53
All Crosscutting	Chaffey: T-12 to T-8 Fluoresc., CFLs, LED Exit sign:	718,870	\$ 30	\$ 166	8,281,382	12	\$ 3.79
All Crosscutting	Chaffey: Central plant upgrades (replace packaged	1,067,000	\$ 51	\$ 92	15,364,800	15	\$ 1.65
All Crosscutting	Compton: HVAC and Lighting Retrofits	1,484,580	\$ 71	\$ 143	21,377,952	15	\$ 1.77
All Crosscutting	LACCD: Surveyor PC Power saving measures	965,250	\$ 35	\$ 50	9,266,400	10	\$ 1.39
All Crosscutting	Motors, Vending Misers, surveyor, others	173,670	\$ 8	\$ 12	2,500,848	15	\$ 1.41
All Crosscutting	Orange Coast FIM1: T-12 to T-8, T5, Fixtures, LED	20,370	\$ 1	\$ 2	234,662	12	\$ 1.78
IDEEA - HTR Mobile Home Evaporative Cooler - IRP							
All Crosscutting	Evaporator Cooling Tune-up	2,178	\$ 293	\$ 173	18,027,306	10	\$ 3.87
All Crosscutting	Evaporative Cooler Fan De-Powement	749	\$ 78	\$ 43	5,499,533	15	\$ 3.90
All Crosscutting	Evaporative Cooler PV Installation	-	\$ -	\$ -	-	15	#DIV/0!
All Crosscutting	Programmable Thermostat	-	\$ -	\$ -	-	15	#DIV/0!
All Crosscutting	Energy Star CFL's	1,065	\$ 39	\$ 4	2,176,264	7	\$ 2.71
All Crosscutting	Energy Star CFL's	6,079	\$ 68	\$ 24	3,749,345	7	\$ 3.30
All Crosscutting	Energy Star Hardwire Fixtures CFL's	-	\$ -	\$ -	-	16	#DIV/0!
All Crosscutting	Energy Star Hardwire Fixtures CFL's	-	\$ -	\$ -	-	16	#DIV/0!
All Crosscutting	Common Area Energy Star CFL's	1,043	\$ 42	\$ 4	2,300,253	7	\$ 2.69
All Crosscutting	Common Area Energy Star CFL's	542	\$ 22	\$ 2	1,197,695	7	\$ 2.69
All Crosscutting	Common Area ES Hardwire CFL's	-	\$ -	\$ -	-	16	#DIV/0!
All Crosscutting	Common Area ES Hardwire CFL's	-	\$ -	\$ -	-	16	#DIV/0!
IDEEA - 80 Plus - IRP							
All Crosscutting	80 Plus Desktop Power Supply	16,500	\$ 92	\$ 66	4,488,000	4	\$ 4.26
All Crosscutting	80 Plus Server Power Supply	3,300	\$ 65	\$ 26	3,178,560	4	\$ 3.48

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Table TA 5.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
CROSSCUTTING PROGRAM AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
IDEEA - Cold Cathode DL - IRP							
All Crosscutting	Decorative 28 Watt Incandescent to 5 Watt Cold Ca	13,052	\$ 13	\$ 41	2,699,780	8	\$ 2.82
All Crosscutting	Decorative 28 Watt Incandescent to 5 Watt Cold Ca	23,228	\$ 48	\$ 73	9,609,331	8	\$ 1.76
All Crosscutting	Decorative 28 Watt Incandescent to 5 Watt Cold Ca	43,029	\$ 129	\$ 135	26,062,493	8	\$ 1.42
All Crosscutting	Decorative 40 Watt Incandescent to 8 Watt Cold Ca	697	\$ 1	\$ 1	199,844	8	\$ 1.48
All Crosscutting	Decorative 40 Watt Incandescent to 8 Watt Cold Ca	3,840	\$ 11	\$ 6	2,202,010	8	\$ 1.08
All Crosscutting	Decorative 40 Watt Incandescent to 8 Watt Cold Ca	3,807	\$ 16	\$ 6	3,196,174	8	\$ 0.96
All Crosscutting	Decorative 25 Watt Incandescent to 5 Watt Cold Ca	-	\$ -	\$ -	-	8	#DIV/0!
All Crosscutting	Decorative 25 Watt Incandescent to 5 Watt Cold Ca	4,505	\$ 8	\$ 11	1,614,592	8	\$ 1.62
All Crosscutting	Decorative 25 Watt Incandescent to 5 Watt Cold Ca	2,956	\$ 8	\$ 7	1,551,120	8	\$ 1.33
All Crosscutting	Decorative 20 Watt Incandescent to 5 Watt Cold Ca	-	\$ -	\$ -	-	8	#DIV/0!
All Crosscutting	Decorative 20 Watt Incandescent to 5 Watt Cold Ca	-	\$ -	\$ -	-	8	#DIV/0!
All Crosscutting	Decorative 20 Watt Incandescent to 5 Watt Cold Ca	-	\$ -	\$ -	-	8	#DIV/0!
All Crosscutting	Decorative 15 Watt Incandescent to 3 Watt Cold Ca	-	\$ -	\$ -	-	8	#DIV/0!
All Crosscutting	Decorative 15 Watt Incandescent to 3 Watt Cold Ca	11,831	\$ 13	\$ 32	2,544,138	8	\$ 2.45
All Crosscutting	Decorative 15 Watt Incandescent to 3 Watt Cold Ca	2,272	\$ 4	\$ 6	715,262	8	\$ 1.90
All Crosscutting	Decorative 11 Watt Incandescent to 3 Watt Cold Ca	4,886	\$ 2	\$ 12	345,225	8	\$ 5.39
All Crosscutting	Decorative 11 Watt Incandescent to 3 Watt Cold Ca	-	\$ -	\$ -	-	8	#DIV/0!
All Crosscutting	Decorative 11 Watt Incandescent to 3 Watt Cold Ca	-	\$ -	\$ -	-	8	#DIV/0!
All Crosscutting	Decorative 40 Watt Incandescent to 4 Watt Cold Ca	4,836	\$ 22	\$ 8	4,350,079	8	\$ 0.94
IDEEA - Energy Efficiency Services for Oil Production - IRP							
All Crosscutting	Oil well measures (motors, controls, vfds)	18,691,016	\$ 872	\$ 1,705	224,292,192	15	\$ 2.03
IDEEA - Multifamily HVAC Optimization							
All Crosscutting	HVAC Controls with Occupancy Sensing	1,415	\$ 555	\$ 41	40,752,000	15	\$ 2.58
IDEEA - A/C Energy Hog Roundup							
All Crosscutting	Central A/C Tune-up	651	\$ 64	\$ 47	2,670,662	8	\$ 5.80
All Crosscutting	Energy Hog Replacement	178	\$ 77	\$ 53	2,804,568	5	\$ 5.86
All Crosscutting	CFLs	2,736	\$ 24	\$ 10	1,015,603	8	\$ 4.67
IDEEA - Cool Bill - IRP							
All Crosscutting	Smart System PTAC Controller	802	\$ 255	\$ 210	16,514,784	15	\$ 4.98
All Crosscutting	Small PTAC Unit (up to 7,200 BTU)	-	\$ -	\$ -	-	15	#DIV/0!
All Crosscutting	Med PTAC Unit (up to 12,000 BTU)	-	\$ -	\$ -	-	15	#DIV/0!
All Crosscutting	Lg PTAC Unit (up to 14,400 BTU)	52	\$ 11	\$ 3	692,640	15	\$ 3.42
IDEEA - Agricultural Ventilation Efficiency Program - IRP							
All Crosscutting	12-14" fan	98	\$ -	\$ 35	-	15	#DIV/0!
All Crosscutting	16-18" fan	-	\$ -	\$ -	-	15	#DIV/0!
All Crosscutting	20" - 26" fan	754	\$ 89	\$ 311	11,310,000	15	\$ 6.25
All Crosscutting	27" - 30" fan	-	\$ -	\$ -	-	15	#DIV/0!
All Crosscutting	36" fan	34	\$ 4	\$ 19	510,000	15	\$ 8.02
All Crosscutting	48" fan	80	\$ 6	\$ 48	810,000	15	\$ 11.87
All Crosscutting	50"-56"	1,308	\$ 66	\$ 834	8,430,000	15	\$ 18.88
All Crosscutting	8' - 24' HVLS fans	2	\$ -	\$ 6	-	15	#DIV/0!
IDEEA - Dimmable T5 - IRP							
All Crosscutting	2x4 2L Retrolux Prismatic lense	1,101	\$ -	\$ 9	5,601,719	16	\$ 0.30
All Crosscutting	1x8 2L T5	1,146	\$ -	\$ 10	5,949,665	16	\$ 0.31
All Crosscutting	1x8 2L T5	-	\$ -	\$ -	-	16	#DIV/0!
All Crosscutting	1x8 2L T5	904	\$ -	\$ 7	2,956,766	16	\$ 0.46
All Crosscutting	2x4 2L Retrolux Prismatic lense	2,523	\$ -	\$ 21	12,836,636	16	\$ 0.30
All Crosscutting	1x8 2L T5	-	\$ -	\$ -	-	16	#DIV/0!
All Crosscutting	1x8 2L T5	-	\$ -	\$ -	-	16	#DIV/0!
All Crosscutting	1x8 2L T5	-	\$ -	\$ -	-	16	#DIV/0!
IDEEA - Refrigerated Warehouses - IRP							
All Crosscutting	Custom Freezer Lighting Fixture Retrofit	4,551,865	\$ 82	\$ 1,138	50,980,888	16	\$ 4.37
All Crosscutting	VFD's on Process Pumps & Fans	505,950	\$ 10	\$ 120	6,071,400	15	\$ 3.79
All Crosscutting	Consolidated Refrigeration Controls	2,263,626	\$ 44	\$ 818	27,163,512	15	\$ 5.61
All Crosscutting	Auto-Purger - Non-Condensables	30,000	\$ 1	\$ 5	360,000	15	\$ 2.86
All Crosscutting	Fast Acting Cooler Doors	217,700	\$ 3	\$ 78	1,393,280	8	\$ 8.09

Section VI - MA&E and Regulatory Oversight; Annotated Bibliography

This bibliography includes all studies completed during 2005 under the management of SCE. Statewide studies managed by the other three utilities are summarized in Section 6 of this Annual Report but are not listed here. All of the reports described below are available on the website of the California Measurement Advisory Council (CALMAC), in the Searchable Database at www.calmac.org.

CODES AND STANDARDS WHITE PAPER ON METHODS FOR ESTIMATING SAVINGS

**HESCHONG MAHONE GROUP
APRIL 2005**

This white paper first describes the role of California utility codes and standards (C&S) programs in enabling the adoption of particular California Title 20 building standards and appliance energy efficiency standards. It then focuses on how to estimate the energy savings created by program-enabled codes and standards changes. It explores numerous issues that must be considered in developing defensible energy savings estimates and makes recommendations on preferred methods to handle them. While its details may only be fully reviewed by energy efficiency program evaluators and program designers, the intended audience for its conclusions is utility program portfolio planners and regulatory policymakers. The paper was developed by the intensive interaction of an experienced team of evaluation consultants with oversight and review by a project advisory committee composed of utility evaluation staff, C&S program managers, and regulatory staff.

2002 STATEWIDE NONRESIDENTIAL STANDARD PERFORMANCE CONTRACT PROGRAM MEASUREMENT AND EVALUATION STUDY: IMPACT EVALUATION REPORT

**QUANTUM CONSULTING, INC.
MAY 2005**

This report presents results from an impact evaluation conducted for California's Nonresidential Standard Performance Contract (SPC) Program for program year 2002 (PY2002). The overall PY2002 evaluation scope included process, market, and impact evaluation components. This report covers only the gross impact evaluation objective. Independent ex post impact evaluation had never been performed on the California SPC Program prior to this evaluation. In the first years of the Program, measurement of savings was conducted as part of the program participation process and was the basis for incentive payments. Since then, the amount of in-program measurement declined dramatically as the program switched to basing savings estimates and incentives on ex ante calculations. The primary goals of the evaluation are to develop a gross savings realization rate and to provide qualitative feedback on how to improve the SPC Program's resource performance in the future.

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NRNC MARKET CHARACTERIZATION AND PROGRAM ACTIVITIES TRACKING REPORT PY2004

**QUANTUM CONSULTING, INC
MAY 2005**

The on-going statewide Market Characterization and Program Activity Tracking (MCPAT) Study tracks trends in the nonresidential new construction (NRNC) Market, as well as participation in the Savings By Design (SBD) statewide NRNC Program. The publication of results, on an ongoing basis, allows program designers, implementers, evaluators, and market participants to determine the extent to which the NRNC Market changes over a given period of time, and if necessary, modify the SBD Program to most effectively enhance energy efficiency practices in the new construction market. This Report summarizes the NRNC Market and SBD Program Tracking and penetration results in PY2004.

EVALUATION OF THE 2003 STATEWIDE EDUCATION AND TRAINING SERVICES PROGRAM FINAL REPORT

**WIRSTSHAFTER ASSOCIATES
JUNE 2005**

In addition to a process evaluation, case studies were conducted for each of the five statewide energy centers: PG&E's Energy Training Center (ETC), SCE's Customer Technology Application Center (CTAC), SCE's Agricultural Technology Application Center (AgTAC), SoCalGas's Energy Resource Center (ERC), SDG&E's education and training seminars. The locally-funded PG&E Pacific Energy Center (PEC) was also included in this evaluation study. Case studies focused on specific challenges that each energy center was facing, providing requested information for center staff. Best practices in adult education were also surveyed and presented. Recommendations were made for further improvements.

CALIFORNIA LAMP REPORT 2004

**ITRON, INC.
JUNE 2005**

The California Lamp Report 2004 presents the analysis of lamp sales for residential use in California and the U.S. from 1998 through 2004. The data used for the analysis in this report contain the level of detail needed to offer a comprehensive look at the market for lamps. Specifically, point-of-sale (POS) data representing five major retail channels through which lamps are sold (food, drug, mass merchandiser, home improvement, and hardware stores) contain line-item detail on monthly lamp sales for both California and the U.S. These data are used to obtain information about overall lamp sales in the residential lighting market and to characterize lamp sales trends over time, by lamp types, in different geographic regions, and through various retail channels, including a national comparison which provides a context in which to evaluate the success of California's lighting initiatives. This report provides an overview of the key findings, discusses the POS data used for the analysis and details how the lamp data are classified, presents the analysis of residential-use lamps by retail market channel and by lamp type, and provides a detailed analysis of medium screw-based lamp sales.

STATEWIDE HARD TO REACH MARKET UPDATE STUDY

WIRTSCHAFTER ASSOCIATES

JULY 2005

This examines the residential programs for the four California Investor-Owned Utilities for 2002 and 2003 to determine if programs are being delivered to hard to reach (HTR) household specifically the: multi-family, rural, non-English speaking, moderate income, and renters. This report is the first attempt to assemble and analyze all of the California Energy Efficiency residential programs as a portfolio. Methodology used a geographic information system (GIS), census data, and Residential Needs Assessment study to analyze residential rebate programs' performance in reaching HTR. (Note: The full report for this publication is over 5 MB and may take some time to download. Certain ISPs may not allow such large downloads)

FINAL REPORT 2003 BUILDING EFFICIENCY ASSESSMENT STUDY - AN EVALUATION OF THE SAVINGS BY DESIGN PROGRAM

RLW ANALYTICS

JULY 2005

This document is the final report for the Building Efficiency Assessment (BEA) study for the 2003 statewide Non-Residential New Construction (NRNC) program. The report contains summary results for both program participants of Savings By Design (SBD) and non-participants. SBD is the statewide NRNC energy efficiency program administered by the California IOUs. The 2003 BEA Study is an evaluation of SBD projects that were paid incentives in program year (PY) 2003. The key objectives of the study are to provide: 1) impact estimates for the gross whole-building energy and demand savings resulting from the program; 2) impact estimates of rebated and non-rebated measure categories; and 3) estimates of free ridership and spillover at the measure and end-use level. Detailed on site surveys and end-use metered data were used to inform DOE-2 engineering models. The output of the engineering models is statistically projected to the program population to show program impacts at the 90% confidence level. The study is further informed by in-depth decision-maker telephone surveys. The decision maker survey results are used to adjust the engineering models for estimating the program's net impacts.

Technical Appendix

EVALUATION OF THE 2003 CALIFORNIA STATEWIDE AND LOCAL EMERGING TECHNOLOGIES PROGRAMS

RIDGE & ASSOCIATES AUGUST 2005

This study evaluated both the Statewide Emerging Technologies Program (ETP), which is an information-only program that seeks to accelerate the introduction of energy efficient technologies, applications, and analytical tools that are not widely adopted in California, and the SCE Local Demonstration and Information Transfer (DIT) program, which is closely related to the statewide ETP, but is local in scope. The results of this evaluation indicate that: 1) All four utilities either met or exceeded their goals with respect to the number of technology assessments that were to be initiated in 2003, 2) The ETCC data was updated to include these technology assessments begun in 2003, and 3) To date, some of the recommendations from the previous evaluation have been implemented and discussions regarding the others have taken place. Others, such as refinement of the program theory, have not taken place because the ETP managers have indicated that the statewide program is undergoing significant changes in design and delivery.

CODES AND STANDARDS PROGRAM SAVINGS ESTIMATE - FOR 2005 BUILDING STANDARDS AND 2006/2007 APPLIANCE STANDARDS

HESCHONG MAHONE GROUP AUGUST 2005

The purpose of this document is to estimate, per the orders of the CPUC, the energy, demand and gas savings that can be reasonably attributed to the efforts of the utilities' Statewide Codes and Standards Program (hereinafter C&S Program). The C&S Program has contributed expertise, research, analysis and other kinds of support to the California Energy Commission to support its efforts to develop and adopt energy efficiency standards for appliances (appliance standards, through Title 20 regulations) and for residential and nonresidential buildings (building standards, through Title 24 regulations). In the past, no savings claims were made for the C&S Program, and so no thorough efforts were made to calculate those savings in a way that estimated their effects over time. This document explains the methodology and model we have developed to calculate those savings.

CALIFORNIA RESIDENTIAL EFFICIENCY MARKET SHARE TRACKING – APPLIANCES 2004

ITRON, INC. DECEMBER 2005

This report presents the total estimated unit sales, average energy efficiency ratings, and percent of ENERGY STAR qualified clothes washers, refrigerators, dishwashers, and room air conditioners sold in the state from 1998 through 2004. Results are presented by IOU service area, statewide, and by retailer type (national chain versus independent retailer), if the data can support such segmentation. This report also contains a review of data collection and analysis methodologies, general market information, and summaries of applicable efficiency standards for each appliance type, including federal energy use standards, national ENERGY STAR program standards, and California's appliance efficiency standards. The information presented, such as trends in share of ENERGY STAR qualified appliances sold for each appliance type tracked in the RMST, is especially relevant for program administrators like the California IOUs that have adopted the ENERGY STAR platform for their appliance programs. California's statewide appliance program uses the ENERGY STAR threshold as the qualifying criterion for appliance eligibility and has partnered with the federal ENERGY STAR program for marketing and outreach. The share of ENERGY STAR qualifying appliances sold in the state can be a valuable indicator of program success and is used to support the evaluation of the statewide program.

CALIFORNIA RESIDENTIAL EFFICIENCY MARKET SHARE TRACKING - HVAC 2004

ITRON, INC. DECEMBER 2005

This report presents the total estimated unit sales, average efficiencies, and percent of ENERGY STAR® qualified units sold in the state for three types of heating, ventilating, and air conditioning (HVAC) equipment: central air conditioners (CACs), air-source heat pumps, and central gas furnaces. Results are also presented by utility service area or aggregated service areas if the data cannot support such segmentation. This report also contains general market information and efficiency standards for each equipment type, including federal energy use standards, national ENERGY STAR program standards, and California's appliance efficiency standards. Of particular interest regarding this study is the consistency of input data over time. Since the inception of the study, Itron has obtained sales data from a panel of HVAC equipment distributors serving the residential new construction and contracting markets throughout California. The consistent and ongoing nature of the data collection process has produced valuable and meaningful trends of HVAC equipment sales.

Technical Appendix

2003 STATEWIDE NONRESIDENTIAL STANDARD PERFORMANCE CONTRACT (SPC) PROGRAM MEASUREMENT AND EVALUATION STUDY

**QUANTUM CONSULTING, INC.
DECEMBER 2005**

California's Nonresidential Standard Performance Contract (SPC) program for 2003 offered cash incentives for completing energy-savings retrofits of existing equipment or systems to businesses and industrial customers. A primary objective for the PY2003 evaluation was to supplement the PY2002 evaluation effort by increasing the number of sites available for an impact evaluation. This report presents the combined impact-related results as well as the combined research findings for both program years. The PY2003 evaluation focused on developing verification, ex post energy savings estimates, and free-ridership estimates for a sample of 25 sites. Also included are: a summary of the PY2003 tracking data; the site-specific results for PY2003 impact evaluation sample; 25 detailed site-level impact evaluation reports; and a summary of customer and energy-efficiency service provider participant experiences with the PY2003 SPC program. The PY2003 results are combined with those of PY2002 to produce weighted gross savings realization rates and net-of-free-ridership estimates for the two program years.

2004-2005 DATABASE FOR ENERGY EFFICIENT RESOURCES (DEER) UPDATE STUDY

**ITRON, INC.
DECEMBER 2005**

The Database for Energy Efficient Resources (DEER) provides information on a comprehensive group of energy efficiency measures commonly installed in the residential and nonresidential market sectors. The database contains estimates of a measure's natural gas and electrical gross impacts, incremental cost, and effective useful life. The savings estimates are based on either engineering calculations, building simulations, measurement studies and surveys, econometric regressions, or a combination of approaches. The DEER data serves as a starting point in the planning and forecasting of the impacts and cost-benefits analysis of energy efficiency programs in California. The report as presented here contains hyperlinks that do not function. To view the document with functioning hyperlinks, the database and complete documentation follow the DEER link on CALMAC.org/links.

Section VII - Shareholder Performance Incentives

This section is not applicable for the 2005 Energy Efficiency Program Year.

There were no shareholder performance incentives authorized by the California Public Utilities Commission for 2005 Energy Efficiency Programs.

Section VIII - IOU Partnership Programs

This section contains narrative that documents and explains the data shown for Tables TA 8.1 through TA 8.4.

Table TA 8.1 Program Cost Estimates Used for Cost-Effectiveness – IOU Partnerships Program Area

This table documents those costs used in determining the cost-effectiveness of IOU partnership energy efficiency programs. These tables provide all program costs, including costs expended in 2005 and those costs associated with commitments from 2005 programs.

Program Incentives (Recorded)

Incentive costs represent incentives paid to customers during 2005 (Actual) as well as incentives associated with commitments from the 2005 IOU partnership programs (Committed).

Program Administrative Costs (Recorded)

These costs include all expenditures directly charged to the program with the exception of incentive costs. The administrative costs consist of labor, non-labor, contract labor, and allocated material costs (See Also Table TA 5.2). These costs represent administrative costs expended during 2005 (Actual) as well as administrative costs associated with the handling of commitments from the 2005 IOU partnership programs (Committed).

Shareholder Incentives

Costs represented in the Shareholder Incentives column would represent an allocated amount of the total performance awards earned during a particular program year. There were no shareholder incentives authorized for 2005.

Other Costs

Costs represented in the Other Costs column represent the MA&E costs for the statewide programs. MA&E costs for the Partnership programs are included in the Program Administrative Costs column. Other allocated costs recorded in the Other Costs category in previous Energy Efficiency Annual Reports (e.g., General Support, Regulatory Support, CPUC Staff, and Summer Initiative Administrative) are now recorded in the Program Administrative Costs column.

Total Utility Costs

The sum of the Program Incentives (Recorded) columns, Program Administrative Costs (Recorded) columns, Shareholder Incentives, and Other costs.

Incremental Measure Costs (Net)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. SCE's incremental measure costs are typically derived from the latest cost source available for the particular measure(s), including recent measure cost studies. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. The net-to-gross ratios are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

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Table TA 8.2 Direct and Allocated Administrative Costs – IOU Partnerships Program Area

This table documents the breakdown of the actual administrative costs used in determining the cost-effectiveness of IOU partnership energy efficiency programs. These tables provide detail of all actual program administrative costs expended in 2005. These costs include the costs of Market Assessment & Evaluation for the Partnership Energy Efficiency Programs, regulatory support, and other energy efficiency support costs.

Labor Costs (Actual)

Labor costs consist of SCE labor charges that are directly charged to the program. These costs include salaries and expenses of SCE employees engaged in developing energy efficiency marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems. The reported costs reflect only the actual costs incurred in 2005 in support of 2005 IOU partnership programs.

Non-Labor Costs (Actual)

Non-labor costs include materials, consultant fees, vendor contracts, and other miscellaneous costs charged directly to the program. These costs include items such as booklets, brochures, promotions, training, membership dues, postage, telephone, supplies, printing/photocopying services, and computer support services. Several programs contain a significant amount of Non-Labor administrative costs due to the use of vendor contracts in the delivery of these programs.

Contract Labor Costs (Actual)

Labor costs consist of contract employees' labor charges that are directly charged to the program. These costs include salaries and expenses of contract employees engaged in developing energy efficient marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems.

Allocated Administrative Costs (Actual)

Allocated administrative costs represent those for building lease and maintenance costs and management oversight expenditures. In addition, the 2005 Allocated Administrative Costs (Actual) category includes costs related to systems support, regulatory support, internal audits, and other costs which are allocated to the programs.

Total Administrative Costs (Actual)

The summation of the aforementioned utility administrative costs - Labor, Non-labor, Contract, and Allocated Administrative costs.

Table TA 8.3 Market Effects: Projected Annual Program Energy Reductions – IOU Partnerships Program Area

The projected annual program energy reductions for the IOU partnership program area, presented in TA 8.3, are derived from ex ante estimates of energy savings. These estimates are based upon the measure level savings data submitted in SCE's September 23, 2003 Application for 2004-2005 Energy Efficiency Program Funding and adopted in Decisions D.03-12-060 and D.04-02-059. These estimates have been updated, as applicable, to correspond with the actual program implementation during 2005 and to reflect actual program results as of December 31, 2005. Recorded savings amounts reflect all 2005 program impacts, including impacts from measures installed in 2005 and those impacts associated with commitments from 2005 programs.

Inputs and assumptions for these estimates are described in this section. Projections of annual program energy reductions are developed similarly across program areas, but the specifics of each program area will be discussed in the individual sections to this Technical Appendix.

Program Energy Reduction Assumptions

Annual program energy reduction estimates for IOU partnership programs supplied in the September 23, 2003 Application for 2004-2005 Energy Efficiency Program Funding and submitted herein as the 2005 program results are the result of a summation of measure-level savings from the measures installed or committed to be installed as a result of the 2005 IOU partnership programs. The measure-level savings information used to calculate the 2005 program results are based upon the latest energy savings data available for the particular measure(s), including measurement studies, historical program results, and engineering estimates. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use.

The Effective Useful Life is the length of time (years) for which the load impacts of an energy efficiency measure are expected to last. The useful life estimates are also based upon the Energy Efficiency Policy Manual, adopted in Decision 03-08-067.

Table TA 8.4 Measure Detail – IOU Partnerships Program Area

Table TA 8.4 provides measure-level detail for all of SCE's IOU partnership energy efficiency programs with 2005 energy saving goals.

End Use & Measure Description

Detail the actual measures installed or committed to be installed as a result of the 2005 IOU partnership programs.

Quantity (Recorded)

Derived from SCE's program tracking databases, the number of units installed or committed to be installed as a result of the 2005 IOU partnership programs.

Total Resource Costs – Administrative Costs (Recorded)

These costs include all expenditures directly charged to the program with the exception of incentive costs. These costs represent administrative costs expended during 2005 as well as administrative costs associated with the handling of commitments from the 2005 IOU partnership programs. The Summation of the "Total Resource Costs – Admin" and "Total Resource Costs – IMC" column values comprise the Total Resource Costs for Levelizing ("LCRC") as specified in the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001.

Total Resource Costs – Incremental Measure Costs (Recorded)

These costs generally represent the incremental costs of energy efficiency measures over the standard replacement measures. SCE's incremental measure costs are typically derived from the latest cost source available for the particular measure(s), including recent measure cost studies. The gross amounts of these costs are reduced by appropriate net-to-gross ratios for the particular measure or end-use. The net-to-gross ratios are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding. The Summation of the "Total Resource Costs – Admin" and "Total Resource Costs – IMC" column values comprise the Total Resource Costs for Levelizing ("LCRC") as specified in the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001.

Total Resource Benefits – Lifecycle kWh

Annual net kWh savings multiplied by the measure Useful Life.

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Useful Life

Assumption of the useful life of the measure, used to determine the lifecycle energy savings. The useful life estimates are consistent with the ratios utilized in SCE's September 23, 2003 Application for 2004-2005 energy efficiency program funding.

Levelized Costs

The TRC Levelized Cost, calculated pursuant to the California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects, October 2001. These costs, represented as a cents/kWh, are calculated by the summation of the "Total Resource Costs - Admin" and "Total Resource Costs - IMC" column values which comprise the Total Resource Costs for Levelizing ("LCRC") divided by the Total Discounted Load Impacts of the Program ("IMP"). The discount rate utilized is 8.15 %, as specified in the Energy Efficiency Policy Manual, Decision 03-08-067.

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Table TA 8.1
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 PROGRAM COST ESTIMATES USED FOR COST-EFFECTIVENESS - IOU PARTNERSHIP PROGRAMS AREA
 2005

	Program Incentives (Recorded)		Program Administrative Costs (Recorded)		Shareholder Incentives [1]	Other Costs [2]	Total Utility Costs	Incremental Measure Costs
	Actual	Committed	Actual	Committed				
Bakersfield/Kern Energy Watch - PGC	\$ -	\$ 505,799	\$ 87,472	\$ 1,695	\$ -	\$ -	\$ 594,966	\$ 379,305
The Energy Coalition - PGC	-	-	2,279,065	-	-	-	2,279,065	1,395,120
LA County/SCE/SCG Partnership - PGC	-	1,281,634	2,409,184	2,720	-	-	3,693,537	1,775,384
City of Pomona - PGC	-	-	212,786	836	-	-	213,623	131,872
South Bay Cities Energy Efficiency Center - PGC	-	-	325,255	38	-	-	325,292	-
IOU/UC/CSU Partnership - PGC	1,896,994	1,282,162	1,200,575	2,998	-	-	4,382,730	1,969,250
Ventura REA - PGC	-	-	791,821	121	-	-	791,941	484,391
IOU Partnership Programs Total	\$ 1,896,994	\$ 3,069,595	\$ 7,306,158	\$ 8,408	\$ -	\$ -	\$ 12,281,154	\$ 6,135,322

[1] The Commission authorized no Shareholder Performance Awards in 2005.

[2] Includes program-specific Statewide MA&E costs.

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Table TA 8.2
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DIRECT AND ALLOCATED ADMINISTRATIVE COSTS - IOU PARTNERSHIP PROGRAMS AREA
 2005

	Actual Labor	Actual Non-Labor	Actual Contract	Actual Allocated	Actual Admin Total
Bakersfield/Kern Energy Watch - PGC	\$ 12,648	\$ 31,960	\$ 190	\$ 42,674	\$ 87,472
The Energy Coalition - PGC	8,754	2,270,311	-	-	2,279,065
LA County/SCE/SCG Partnerhsip - PGC	83,184	2,230,299	20,091	75,609	2,409,184
City of Pomona - PGC	9,340	175,397	2,958	25,092	212,786
South Bay Cities Energy Efficiency Center - PGC	24,736	292,680	6,038	1,800	325,255
IOU/UC/CSU Partnership - PGC	48,013	979,196	88,736	84,631	1,200,575
Ventura REA - PGC	26,684	720,234	41,304	3,599	791,821
IOU Partnership Programs Total	\$ 213,358	\$ 6,700,076	\$ 159,318	\$ 233,405	\$ 7,306,158

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Table TA 8.3
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY PROGRAM EFFECTS: ELECTRIC
MARKET EFFECTS: PROJECTED ANNUAL PROGRAM ENERGY AND DEMAND REDUCTIONS - IOU PARTNERSHIP PROGRAMS AREA
2005

IOU Partnership Programs

Year	(MW)	(MWH)
2005	5.457	32,709
2006	5.457	32,709
2007	5.457	32,709
2008	5.457	32,709
2009	5.457	32,709
2010	5.457	32,709
2011	5.457	32,709
2012	5.457	32,709
2013	5.457	32,709
2014	0.000	0
2015	0.000	0
2016	0.000	0
2017	0.000	0
2018	0.000	0
2019	0.000	0
2020	0.000	0
2021	0.000	0
2022	0.000	0
2023	0.000	0
2024	0.000	0
Total	5.457	294,380

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Table TA 8.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
IOU PARTNERSHIP PROGRAMS AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
Bakersfield Kern Energy Watch - PGC							
Single Family Direct Install	ES Screw-in CFL (21 to 30 watts) for calc. use 25 W	2,588	\$ 7	\$ 15	1,765,495	8	\$ 1.76
Single Family Direct Install	ES Interior Hardwired CFL Fixtures (30 Watts)	2,933	12	157	3,735,126	16	8.24
Single Family Direct Install	ES Programmable Thermostats	114	1	5	276,309	11	3.42
Multi-family Direct Install	ES Screw-in CFL (21 to 30 watts) for calc. use 25 W	1,904	5	11	1,298,880	8	1.76
Multi-family Direct Install	ES Interior Hardwired CFL Fixtures (30 Watts)	2,075	9	92	2,642,478	16	6.97
Multi-family Direct Install	ES Exterior Hardwired CFL Fixtures (27 Watts)	1,229	12	33	3,823,785	16	2.16
Multi-family Direct Install	ES Programmable Thermostats	26	0	1	63,018	11	3.42
Multi-family Direct Install	T-5 or T-8 Int. lamps with electronic ballasts - (4 ft. 1	218	1	10	276,284	16	7.00
Multi-family Direct Install	T-5 or T-8 Int. lamps with electronic ballasts - (4 ft. 2	9	0	0	22,812	16	3.80
Multi-family Direct Install	T-5 or T-8 Int. lamps with electronic ballasts - (8 ft. 1	-	-	-	-	16	#DIV/0!
Multi-family Direct Install	T-5 or T-8 Int. lamps with electronic ballasts - (8 ft. 2	-	-	-	-	16	#DIV/0!
SPC PLUS	Lighting	814,578	30	37	9,123,274	16	1.33
SPC PLUS	HVAC/Refrigeration	17,610	1	2	246,540	20	2.63
SPC PLUS	Motors/Other	3,560	0	0	37,380	15	2.10
Realtor Program	ES Screw-in CFL (14 to 20 watts)	560	2	4	382,014	8	2.18
Realtor Program	ES Programmable Thermostats	16	0	1	38,781	11	3.88
SPC PLUS	Screw-in Compact Fluorescent Lamps - 14-26 watts	1,146	8	4	2,041,017	8	0.87
SPC PLUS	PREMIUM T8/T5 Lamp & Electronic Ballast/New Fix	293	1	5	225,607	16	4.35
SPC PLUS	Occupancy Sensor-Wallbox Lighting Sensor	22	0	1	70,450	8	2.88
The Energy Coalition - PGC							
Residential All	PEAK Students	34,240	176	-	14,682,112	5	1.50
Residential All	PEAK Households	35,478	1,018	2,838	85,147,200	5	5.69
Residential All	PEAK School Districts	11	164	176	13,750,000	5	3.11
Residential All	Municipal Energy Actions	17	305	272	25,500,000	5	2.84
Residential All	Community Promotions	31,205	160	-	13,380,704	5	1.50
Residential All	Community Promotions	4,082	65	-	5,408,650	5	1.50
Residential All	Mobile Home Activities	2,144	51	-	4,288,000	5	1.50
Residential All	Mobile Home Activities	2,144	26	-	2,144,000	5	1.50
Residential All	Mobile Home Activities	714	12	-	999,600	5	1.50
Residential All	Rental Apartment Activities	4,759	114	-	9,518,000	5	1.50
Residential All	Rental Apartment Activities	4,759	57	-	4,759,000	5	1.50
Residential All	Rental Apartment Activities	1,563	26	-	2,188,200	5	1.50
Residential All	Owner-Occupied Apt Activities	773	18	-	1,546,000	5	1.50
Residential All	Owner-Occupied Apt Activities	773	9	-	773,000	5	1.50
Residential All	Owner-Occupied Apt Activities	249	4	-	348,600	5	1.50
Residential All	Small Business Tune-Ups	559	48	-	3,982,875	5	1.50
Residential All	Small Business Tune-Ups	559	16	-	1,327,625	5	1.50
Residential All	Small Business Tune-Ups	192	11	-	912,000	5	1.50
LA County/SCE/SCG Partnership - PGC							
Nonresidential All	HID Retrofit	159	33	45	1,341,952	16	10.48
Nonresidential All	Exit Light Retrofit	45	1	7	45,411	16	33.79
Nonresidential All	T-12 to T8	7,313	562	491	23,205,939	16	8.29
Nonresidential All	Incandescent to Compact Fluorescent	877	36	40	1,487,299	16	9.33
Nonresidential All	Lighting Controls	543,930	170	222	7,031,927	16	10.18
Nonresidential All	Chiller Replacement	230	49	193	2,196,813	20	22.71
Nonresidential All	Retrocommissioning - Electric	1,494,246	1,561	777	62,976,330	15	6.57

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Table TA 8.4
2006 Energy Efficiency Annual Report
MEASURE DETAIL: ELECTRIC
IOU PARTNERSHIP PROGRAMS AREA
2005

End Use	Measure Description	Quantity (Recorded)	Total Resource Costs (Recorded, \$000)		Total Resource Benefits (Lifecycle kWh)	Useful Life	Levelized Costs (cents/kWh)
			Admin	IMC			
IOU/UC/CSU Partnership - PGC							
Nonresidential All	Dominguez Hills: Gym Lighting	1	28	57	1,858,624	16	8.41
Nonresidential All	Dominguez Hills: Gym, Pool, Multiple Bldg	1	111	174	7,311,693	16	7.11
Nonresidential All	Dominguez Hills: Sciences	1	43	96	2,808,000	16	9.02
Nonresidential All	Fullerton: Central Plant	1	102	125	6,720,000	16	6.17
Nonresidential All	Long Beach: Campus Wide Lighting	1	72	73	4,042,648	10	5.40
Nonresidential All	Long Beach: Molecular Life Sciences	1	83	160	5,926,000	20	8.45
Nonresidential All	Pomona: Lighting and VAC	1	109	106	7,004,556	15	5.44
Nonresidential All	Pomona: Biotechnology Bldg 4	1	36	84	2,352,000	16	9.26
Nonresidential All	Pomona: Engineering Lab Bldg 17	1	34	84	2,236,800	16	9.59
Nonresidential All	Pomona: Engineering Lab Bldg 8	1	45	84	2,932,800	16	7.97
Nonresidential All	San Bernardino: University Hall	1	36	110	2,037,000	10	10.78
Nonresidential All	Irvine: Elevator Lighting	1	30	27	2,165,888	20	5.49
Nonresidential All	Irvine: Fume Hood	1	11	6	736,474	16	4.38
Nonresidential All	Irvine: Berkeley Place	1	65	194	4,267,200	16	11.09
Nonresidential All	Irvine: McCaugh Hall	1	124	194	6,960,000	10	6.87
Nonresidential All	Santa Barbara: Broida Hall	1	112	131	8,000,000	20	6.27
Nonresidential All	Santa Barbara: Engineering Sciences	1	93	131	6,000,000	15	6.63
Nonresidential All	Santa Barbara: Chilled Water Loop	1	68	131	4,387,500	15	8.05
City of Pomona - PGC							
Nonresidential All	T12 to T8 conversion	501	23	14	1,484,048	16	4.50
Nonresidential All	Occupancy Controls	54	6	2	378,080	16	3.76
Nonresidential All	High eff packaged unit retrofit (Sites)	5	4	3	274,350	15	4.43
Nonresidential All	Compact Fluorescent lights	159	6	0	361,250	10	2.81
Nonresidential All	LED Pedestrian Indicator	960	34	113	2,260,496	16	11.89
Nonresidential All	LED Pedestrian Indicator	-	-	-	-	16	#DIV/0!
Ventura Regional Energy Alliance - PGC							
Residential All	City of Oxnard: Del Norte Transfer Station	1	40	32	1,371,970	10	7.95
Residential All	City of Ventura: Beachfront Parking Structure	1	30	17	1,017,140	10	6.87
Residential All	City of Ventura: Booster Station, 330 Zone	1	86	44	2,925,460	10	6.66
Residential All	City of Ventura: Downtown Parking Structure	1	16	23	537,690	10	10.76
Residential All	City of Ventura: Police and Fire Headquarters	1	79	29	2,681,720	10	6.03
Residential All	City of Ventura: San Jon Maintenance Facility	1	52	34	1,776,470	10	7.25
Residential All	County of Ventura: County Offices 646 Country Squ	1	46	40	1,574,020	10	8.22
Residential All	County of Ventura: County Government Center Hall	1	9	6	316,930	10	7.15
Residential All	County of Ventura: County Government Center Hall	1	32	8	1,096,620	10	5.51
Residential All	County of Ventura: Simi Valley Library	1	14	16	475,400	10	9.36
Residential All	County of Ventura: Todd Road Jail (Interior Lighting)	1	86	63	2,912,810	10	7.64
Residential All	County of Ventura: Todd Road Jail (Central services)	1	25	8	844,140	10	5.75
Residential All	County of Ventura: Todd Road Jail (VFD on chiller)	1	51	23	1,726,650	10	6.40
Residential All	City of Thousand Oaks: Civic Arts Plaza (lighting)	1	87	60	2,964,090	10	7.47
Residential All	City of Ventura: City Hall (lighting)	1	65	44	2,224,030	10	7.41
Residential All	City of Ventura: City Hall (chillers)	1	4	1	147,040	10	5.63
Residential All	City of Ventura: City Hall (VFDs)	1	23	12	793,090	10	6.71
Residential All	LivingWise: 16 Watt CFL	803	8	8	283,941	10	8.90
Residential All	LivingWise: Nightlite	826	21	9	717,546	10	6.24
Residential All	LivingWise: Air Filter Alarm	284	8	3	255,600	10	6.17
Residential All	LivingWise: Showerhead	159	4	2	133,465	10	6.30
Residential All	LivingWise: Faucet Aerator (Kitchen)	149	3	2	93,796	10	6.93
Residential All	LivingWise: Faucet Aerator (Bath)	141	3	1	88,760	10	6.93

Section IX – DSM Balancing Accounts

This section contains narrative that documents and explains the data shown for Table TA 9.1 through TA 9.2.

Table TA 9.1 Demand-Side Balancing Accounts

The balancing accounts described in Table TA 9.1 were authorized in Decision 97-12-103, the Interim Opinion on 1998 Utility Energy Efficiency Programs, and recently updated pursuant to Resolution E-3792.

In Decision 97-12-103, Ordering Paragraph 13, the Commission stated the following:

In Phase 1, before the CBEE has legal authority to receive funds, the utilities will continue to administer and implement 1998 energy efficiency programs and incurs expenses associated with pre-1998 commitments. Procedures will be set up to track funds and expenditures associated with 1998 activities and pre-1998 commitments, and two balancing accounts will be created. The existing demand-side management balancing accounting will be maintained in one account, with unspent pre-1998 balancing account funds and expenditures associated with pre-1998 commitments (such as pre-1998 bidding program obligations) reflected in this account. No PGC moneys will be credited to the demand-side management balancing account; rather, a second new account will be established to track PGC funds that are allocable to the allowed 1998 energy efficiency programs, operating costs of the CBEE and the funds directed by the CBEE to a new administrator.

In Resolution E-3792 (as corrected by Resolution E-3807), Ordering Paragraph 1, the Commission stated the following:

Edison, PG&E, and SDG&E are directed to collect and track program funds, along with interest earned on collected funds, as specified in this Resolution, in separate balancing accounts. This tracking will begin with customer billings on January 1, 2002 forward.

In Decision 03-12-062, Ordering Paragraph 21, the Commission stated the following::

Respondent utilities shall establish a one-way Procurement Energy Efficiency and Balancing Account to track the costs and revenues associated with authorized programs in this proceeding. Costs associated with these accounts shall be submitted simultaneously with utility monthly Energy Resource Recovery Account filings to the Energy Division for review on a monthly basis. Within 20 days of the effective date of this decision, utilities shall file advice letters establishing the methodology and surcharge rate for incremental procurement energy efficiency programs for Program Year 2004 and 2005.

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**Table TA 9.2 Direct and Allocated Administrative Costs –
Utility Administration of Non-IOU Programs**

This table documents the breakdown of the actual administrative costs used in the non-utility energy efficiency programs. These tables provide detail of all actual program administrative costs expended in 2005. These costs are representative of the utility administrative costs only. No administrative costs on the part of other parties are included in these administrative costs.

Labor Costs (Actual)

Labor costs consist of SCE labor charges that are directly charged to the program. These costs include salaries and expenses of SCE employees engaged in developing energy efficient marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems. The reported costs reflect only the actual costs incurred in 2005 in support of 2005 non-utility programs.

Non-Labor Costs (Actual)

Non-labor costs include materials, consultant fees, vendor contracts, and other miscellaneous costs charged directly to the program. These costs include items such as booklets, brochures, promotions, training, membership dues, postage, telephone, supplies, printing/photocopying services, and computer support services.

Contract Labor Costs (Actual)

Labor costs consist of contract employees' labor charges that are directly charged to the program. These costs include salaries and expenses of contract employees engaged in developing energy efficient marketing strategies, plans, and programs; developing program implementation procedures; reporting, monitoring, and evaluating systems.

Allocated Administrative Costs (Actual)

Allocated administrative costs represent those for building lease and maintenance costs and management oversight expenditures.

Total Administrative Costs (Actual)

The summation of the aforementioned utility administrative costs - Labor, Non-labor, Contract, and Allocated Administrative costs.

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Table TA 9.1
2006 Energy Efficiency Annual Report
SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
PUBLIC PURPOSE PROGRAMS DSM BALANCING ACCOUNTS
2005

Account Name	Description	Authorized by
Public Purpose Programs Adjustment Mechanism (PPPAM)	Records Public Goods Charge Expenses authorized in P.U. Code 399.8.	Decision D.97-12-103; Resolution E-3792
Procurement Energy Efficiency Balancing Account (PEEBA)	Tracks the difference between recorded incremental energy efficiency costs and incremental energy efficiency revenues authorized in D.03-12-062.	Decision D.03-12-062

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Table TA 9.2
 2006 Energy Efficiency Annual Report
 SUMMARY OF ENERGY EFFICIENCY EXPENDITURES: ELECTRIC
 DIRECT AND ALLOCATED ADMINISTRATIVE COSTS - UTILITY ADMINISTRATION OF NON-IOU PROGRAMS
 2005

Program	Actual Labor	Actual Non-Labor	Actual Contract	Actual Allocated	Actual Admin Total
Non-IOU Program Administration	\$ 141,279	\$ 17,159	\$ 126,680	\$ 5,889	\$ 291,008
Total	<u>\$ 141,279</u>	<u>\$ 17,159</u>	<u>\$ 126,680</u>	<u>\$ 5,889</u>	<u>\$ 291,008</u>

notes -

Does not include various support activities expenditures (e.g., procurement, legal support, etc.).