

TABLE 2: CO2 EMISSION SAVINGS

ELECTRICITY Savings

	SDG&E			SCG			SCE			PG&E			Statewide		
	2006	2007	2008	2006	2007	2008	2006	2007	2008	2006	2007	2008	2006	2007	2008
Annual Net Electricity Savings (GWh/yr)	307	337	378	10	13	13	1,002	1,121	1,168	876	996	1,149	2,195	2,468	2,708
Incremental Annual CO2 Savings (tons/yr) ¹	115,368	126,837	142,103	3,933	4,930	5,044	376,926	421,473	439,221	329,263	374,542	431,846	825,488	927,782	1,018,214
Cumulative Annual CO2 Savings (tons/yr) ²	115,368	242,205	384,308	3,933	8,862	13,906	376,926	798,399	1,237,620	329,263	703,804	1,135,650	825,488	1,753,270	2,771,484
Cumulative Cars taken off road each year ³	21,922	46,024	73,027	747	1,684	2,642	71,624	151,713	235,174	62,567	133,738	215,798	156,860	333,159	526,641

NATURAL GAS Savings

	SDG&E			SCG			SCE			PG&E			Statewide		
	2006	2007	2008	2006	2007	2008	2006	2007	2008	2006	2007	2008	2006	2007	2008
Annual Net Gas Savings (MTh/yr)	2,775	3,069	3,693	15,790	20,621	24,285	-	-	-	15,082	17,027	19,647	33,648	40,716	47,625
Incremental Annual CO2 Savings (tons/yr) ¹	14,702	16,259	19,566	83,657	109,248	128,663	0	0	0	79,907	90,208	104,088	178,266	215,715	252,317
Cumulative Annual CO2 Savings (tons/yr) ²	14,702	30,961	50,527	83,657	192,905	321,568	0	0	0	79,907	170,114	274,202	178,266	393,981	646,298
Cumulative Cars taken off road each year ³	2,794	5,883	9,601	15,897	36,656	61,105	0	0	0	15,184	32,325	52,104	33,874	74,865	122,810

TOTAL Savings

	SDG&E			SCG			SCE			PG&E			Statewide		
	2006	2007	2008	2006	2007	2008	2006	2007	2008	2006	2007	2008	2006	2007	2008
Total Cumulative Annual CO2 Savings (tons/yr) ²	130,070	273,166	434,835	87,590	201,767	335,475	376,926	798,399	1,237,620	409,169	873,918	1,409,852	1,003,754	2,147,251	3,417,782
Total Cumulative Cars taken off road each year ³	24,716	51,907	82,628	16,644	38,340	63,747	71,624	151,713	235,174	77,751	166,063	267,902	190,735	408,023	649,451

¹ Assumptions: the electric efficiency programs avoid new natural gas baseload (combined cycle) plants with a heat rate of 7,100 Btu / kWh, consistent with the CEC's report on the cost of new California generating technologies. (Source: California Energy Commission's Staff Report, "Comparative Cost of California Central Station Electricity Generation Technologies," August 2003, http://www.energy.ca.gov/reports/2003-08-08_100-03-001.PDF). The emissions factor for natural gas, according to EIA is 14.45 million metric tons of carbon per quadrillion Btu. (Equivalent to 1445 metric tons of carbon per million therms, or 5298 metric tons of CO2 per million therms.) (Source: Energy Information Administration, "Emissions of Greenhouse Gases in the United States 1987-1992," DOE/EIA-0573 (Washington, DC, November 1994), Appendix A, pp. 73-92, www.eia.doe.gov/oiaf/1605/87-92rpt/appa.html). The corresponding electric emission rate, using this heat rate and emissions factor, is 376 metric tons CO2 / GWh.

² "Cumulative annual" totals for a particular year represent the sum of the incremental annual increases in CO2 reductions (or energy savings) in each year up to and including that year. If CO2 reductions were graphed along a timeline (years), this would represent the height of the curve. To calculate the cumulative impact on CO2 reductions for the entire period (i.e., the area under the curve), one would sum the cumulative annual totals for that period.

³ The calculation for this statistic is $x \text{ metric tons CO}_2 / (0.014418 \text{ metric tons CO}_2/\text{day/vehicle}) / 365 \text{ days per year} = \# \text{ vehicles taken off the roads each year due to savings that year}$. This is data on average emissions of Bay Area vehicles was provided by the California Air Resources Board using Emfac2002 V2.2 Sept. 23, 2002; personal communication with Jeff Long, CARV, March 24, 2003. (Cited in D. Bachrach, M. Ardeman, and A. Leupp, Energy Efficiency Leadership in California: Preventing the Next Crisis. April 2003.)

ATTACHMENT 4: PROGRAM BUDGETS AND PROJECTED SAVINGS

SCG Program	2006 Budget	Percent of Budget (without EM&V)	Percent of Budget (with EM&V)
Programs Reporting Energy and Demand Savings			
Multi-Family Rebate Program	\$ 2,500,000	6%	5%
Advanced Home Program	\$ 2,250,000	5%	5%
Third Party Programs *	\$ 8,864,589	20%	19%
Education & Training Program	\$ 1,800,000	4%	4%
Express Efficiency Rebate Program	\$ 5,308,050	12%	11%
Local Business Energy Efficiency Program	\$ 6,137,264	14%	13%
Home Efficiency Rebate Program	\$ 4,500,000	10%	9%
Savings By Design SCG SCE Program	\$ 1,500,000	3%	3%
Savings By Design SCG Muni Program *	\$ 1,000,000	2%	2%
Sustainable Communities Demo/City of Santa Monica *	\$ 300,000	1%	1%
Programs without Reported Savings			
Home Energy Efficiency Survey	\$ 600,000	1%	1%
Codes & Standards Program	\$ 300,000	1%	1%
Energy Efficiency Delivery Channel Innovation Prog *	\$ 1,000,000	2%	2%
Emerging Tech Program	\$ 1,000,000	2%	2%
Statewide Marketing & Outreach *	\$ 2,013,043	5%	4%
On-Bill Financing for Energy Efficiency Equipment *	\$ 1,250,000	3%	3%
Partnership Programs	\$ 4,000,000	9%	8%
Total SCG Program Budget	\$ 44,322,946		
Total SCG EM&V Budget	\$ 3,545,836		
Total SCG Portfolio Budget	\$ 47,868,782		

* New Programs for 2006-2008

ATTACHMENT 4: PROGRAM BUDGETS AND PROJECTED SAVINGS

SCG Program		2005 Budget	Percent of Budget (without EM&V)	Percent of Budget (with EM&V)	2006-8 Budget	Percent of Budget (without EM&V)	Percent of Budget (with EM&V)
Programs Reporting Energy and Demand Savings							
3	Single Family Energy Efficiency Rebate Program	\$ 8,904,090	24%	23%			
	3 Multi-Family Rebate Program	\$ 3,154,690	8%	8%	\$ 9,500,000	6%	5%
	3 Advanced Home Program	\$ 2,180,000	6%	6%	\$ 8,750,000	5%	5%
2,3	Third Party Programs	\$ 5,030,707	13%	13%	\$ 33,784,327	20%	19%
	3 Express Efficiency Rebate Program	\$ 4,778,929	13%	12%	\$ 22,101,237	13%	12%
	3 Local Business Energy Efficiency Program	\$ 2,558,582	7%	7%	\$ 26,846,940	16%	15%
	1 Home Efficiency Rebate Program		0%	0%	\$ 19,500,000	12%	11%
	Savings By Design SCG SCE Program	\$ 2,234,000	6%	6%	\$ 7,500,000	4%	4%
	1 Savings By Design SCG Muni Program		0%	0%	\$ 3,000,000	2%	2%
	1 Sustainable Communities Demo/City of Santa Monica		0%	0%	\$ 900,000	1%	0%
Partnership Programs							
	1 IOU/Community College Partnership		0%	0%			
	1 CA Department of Corrections Partnership		0%	0%			
	IOU/UC/CSU Partnership	\$ 1,019,703	3%	3%			
	South Bay Cities EE Center	\$ 91,252	0%	0%			
	Bakersfield/Kern Energy Watch	\$ 250,000	1%	1%			
	LA County/SCE/SCG Partnership	\$ 325,000	1%	1%			
	Energy Coalition	\$ 611,500	2%	2%			
	Ventura REA	\$ 190,147	1%	0%			
Programs without Reported Savings							
	Home Energy Efficiency Survey	\$ 274,000	1%	1%	\$ 1,900,000	1%	1%
	Codes & Standards Program	\$ 150,000	0%	0%	\$ 900,000	1%	0%
	Nonresidential Energy Audit Program	\$ 932,568	2%	2%			
	Education & Training Program	\$ 1,791,657	5%	5%	\$ 6,450,000	4%	4%
1	Energy Efficiency Delivery Channel Innovation Prog		0%	0%	\$ 3,000,000	2%	2%
	Emerging Tech Program	\$ 753,000	2%	2%	\$ 3,000,000	2%	2%
	Building Operator Certification Program	\$ 165,525	0%	0%			
	Statewide Marketing & Outreach	\$ 2,013,043	5%	5%	\$ 6,039,129		
1	On-Bill Financing for Energy Efficiency Equipment Partnership Programs		0%	0%	\$ 3,750,000	2%	2%
					\$ 12,000,000	7%	7%
Total SCG Program Budget		\$ 37,408,392			\$ 168,921,633		
Total SCG EM&V Budget		\$ 962,807			\$ 13,513,731		
Total SCG Portfolio Budget		\$ 38,371,199			\$ 182,435,364		

ATTACHMENT 4: PROGRAM BUDGETS AND PROJECTED SAVINGS

	2005 Budget	Percent of Budget (without EM&V)	Percent of Budget (with EM&V)
SDG&E Program			
Programs without Reported Savings			
Codes & Standards Program	\$ 100,000	0.2%	0.2%
Emerging Tech Program	\$ 205,000	0.3%	0.3%
Statewide Marketing & Outreach	\$ 2,794,410	4.4%	4.3%
Building Operator Certification	\$ 150,000	0.2%	0.2%
Home Energy Efficiency Survey	\$ 407,333	0.6%	0.6%
Nonresidential Energy Audits	\$ 611,000	1.0%	0.9%
Education & Training	\$ 1,000,000	1.6%	1.5%
1 On-Bill Financing for Energy Efficiency Equipment		0.0%	0.0%
1 Residential Customer Education & Information		0.0%	0.0%
Partnership Programs			
1 IOU/Community College Partnership		0.0%	0.0%
1 CA Department of Corrections Partnership		0.0%	0.0%
IOU/UC/CSU Partnership	\$ 1,535,115	2.4%	2.4%
2 San Diego City Schools Retrofit	\$ 1,131,217	1.8%	1.8%
1 City of Chula Vista Partnership		0.0%	0.0%
1 City of San Diego Partnership		0.0%	0.0%
1 SDREO Energy Resource Center Partnership		0.0%	0.0%
1 County of San Diego Partnership		0.0%	0.0%
1 San Diego Co. Water Authority Partnership		0.0%	0.0%
Programs Reporting Energy and Demand Savings			
Savings By Design	\$ 5,710,000	9%	9%
Energy Savings Bids	\$ 10,206,059	16%	16%
5 Express Efficiency Rebate Program	\$ 3,787,654	6%	6%
Small Business Super Saver	\$ 1,639,000	3%	3%
Upstream HVAC/Motors	\$ 1,403,941	2%	2%
Appliance Recycling Program	\$ 1,350,000	2%	2%
Nonresidential Energy Saver	\$ 490,000	1%	1%
Standard Performance Program	\$ 3,760,000	6%	6%
3,5 Third Party Programs	\$ 8,846,588	14%	14%
4 Upstream Lighting Program		0%	0%
1 Advanced Home Program (CA Energy StarNew Homes Program)	\$ 2,600,000	4%	4%
Sustainable Communities Program	\$ 650,000	1%	1%
Lighting Exchange and Education	\$ 500,000	1%	1%
Limited Income Refrigerator Replacement	\$ 3,000,000	5%	5%
Multi-Family Rebate Program	\$ 2,000,000	3%	3%
4,5 Single Family Rebate Program	\$ 9,427,053	15%	15%
Total SDG&E Program Budget	\$ 63,304,369		
Total SDG&E EM&V Budget	\$ 1,223,392		
Total SDG&E Portfolio Budget	\$ 64,527,761		

Notes:

SDG&E's 2005 program budget is greater than the 2005 authorized Energy Efficiency PPP (\$32.400 million) and Procurement (\$24.793 million) revenue due to carry over funds from previous program years that were authorized for use by D.03-12-060 and D.04-12-019 (Winter Filing).

- 1 New Programs for 2006-2008
- 2 Program discontinued in 2006-2008
- 3 Budget includes IOU administration and Non-IOU program budget.
- 4 In 2005 Single Family Rebate and Upstream Lighting were both part of Single Family Rebate
- 5 Includes Winter Filing funds authorized in D.04-12-019

Attachment 5

PG&E 2006-2008 Energy Efficiency Programs Designed to support Green Building Initiative

The projected savings goals are derived from Attachment 5, Joint IOU Case Management Statement, July 18, 2005. The projected program budgets which include marketing & outreach and financial incentives are based on the savings percentage established in the Joint IOU Case Management Statement. EM&V funding is not included. Financial incentives are incentives paid to participants. The estimated allocation of projected budgets and energy savings are derived from the percentages of incentives paid in program year 2004.

Program Name	Program Description	Major Program End-Use/Services		Projected Program Budget (2006-08)	Marketing & Outreach Budget (2006-08)	Financial Incentives Budget (2006-08)	Projected Energy Savings Goals (2006-08)			2006-2008 Projected Program Savings' Lifecycle CO2 Emission Reduction				
							kw	kwh	therms	First Year CO2 reduction due to kWh savings (ton)	First Year CO2 reduction due to therm savings (ton)	Total Lifecycle CO2 reduction (ton)		
PG&E -Mass Markets	This program integrates services and rebates for single family and multi-family residential and small commercial customers who have similar energy efficiency needs and barriers.	Lighting HVAC Motors Others	Govt Buildings											
			Federal	607,771	20,222	267,097	301	1,756,501	30,325	660	161	11,496		
			State	10,745,193	357,512	4,722,194	5,318	31,054,355	536,140	11,676	2,840	203,237		
			Local	17,178,579	571,563	7,549,477	8,503	49,647,290	857,140	18,667	4,541	324,919		
			Subtotal	28,531,543	949,297	12,538,768	14,122	82,458,147	1,423,605	31,004	7,542	539,651		
			Private Buildings											
			Commercial	34,052,390	1,132,986	14,965,017	16,855	98,413,778	1,699,072	37,004	9,002	644,074		
			Industrial	2,094,062	69,673	920,278	1,036	6,051,984	104,485	2,276	554	39,608		
			Agricultural	5,531,515	184,044	2,430,937	2,738	15,986,463	276,000	6,011	1,462	104,624		
			Subtotal	41,677,966	1,386,703	18,316,232	20,629	120,452,225	2,079,557	45,290	11,017	788,305		
Total	70,209,509	2,336,000	30,855,000	34,751	202,910,372	3,503,162	76,294	18,560	1,327,957					
PG&E -School and Colleges	Schools, colleges and universities will be provided analytical, technical, educational, informational and financial assistance for energy efficiency projects.	Lighting HVAC Motors Others	Govt Buildings											
			Federal	167,894	23,470	55,010	86	396,262	-	149	-	2,086		
			State	945,318	132,146	309,728	484	2,231,129	-	839	-	11,745		
			Local	1,754,285	245,232	574,782	899	4,140,444	-	1,557	-	21,795		
			Subtotal	2,867,497	400,847	939,520	1,469	6,767,834	-	2,545	-	35,626		
			Private Buildings											
			Commercial	7,594,309	1,061,609	2,488,236	3,890	17,924,003	-	6,739	-	94,352		
			Industrial	6,846,850	957,121	2,243,334	3,507	16,159,858	-	6,076	-	85,065		
			Agricultural	1,083,215	151,423	354,910	555	2,556,593	-	961	-	13,458		
			Subtotal	15,524,373	2,170,153	5,086,480	7,951	36,640,454	-	13,777	-	192,875		
Total	18,391,870	2,571,000	6,026,000	9,420	43,408,288	-	16,322	-	228,501					
PG&E -Retail Stores	This program offers general retail, big box retail, supermarkets, and restaurants energy efficiency services and rebates especially for lighting, refrigeration and cooking.	Lighting HVAC Motors Others	Govt Buildings											
			Federal	96,412	7,153	56,829	91	421,261	-	158	-	2,218		
			State	84,149	6,244	49,601	80	367,677	-	138	-	1,935		
			Local	559,251	41,495	329,645	530	2,443,573	-	919	-	12,863		
			Subtotal	739,812	54,892	436,074	702	3,232,511	-	1,215	-	17,016		
			Private Buildings											
			Commercial	4,309,335	319,738	2,540,091	4,086	18,829,060	-	7,080	-	99,116		
			Industrial	3,954,507	293,411	2,330,941	3,750	17,278,687	-	6,497	-	90,955		
			Agricultural	430,738	31,959	253,894	408	1,882,052	-	708	-	9,907		
			Subtotal	8,694,580	645,108	5,124,926	8,244	37,989,799	-	14,284	-	199,978		
Total	9,434,392	700,000	5,561,000	8,946	41,222,310	-	15,500	-	216,994					

Attachment 5

PG&E 2006-2008 Energy Efficiency Programs Designed to support Green Building Initiative

The projected savings goals are derived from Attachment 5, Joint IOU Case Management Statement, July 18, 2005. The projected program budgets which include marketing & outreach and financial incentives are based on the savings percentage established in the Joint IOU Case Management Statement. EM&V funding is not included. Financial incentives are incentives paid to participants. The estimated allocation of projected budgets and energy savings are derived from the percentages of incentives paid in program year 2004.

Program Name	Program Description	Major Program End-Use/Services		Projected Program Budget (2006-08)	Marketing & Outreach Budget (2006-08)	Financial Incentives Budget (2006-08)	Projected Energy Savings Goals (2006-08)			2006-2008 Projected Program Savings' Lifecycle CO2 Emission Reduction					
							kw	kwh	therms	First Year CO2 reduction due to kWh savings (ton)	First Year CO2 reduction due to therm savings (ton)	Total Lifecycle CO2 reduction (ton)			
PG&E -High Technology Facilities	Laboratories, clean rooms, data centers, and other high tech facilities will receive services such as benchmarking, retro-commissioning and incentives especially for lighting and specialized HVAC systems.	Lighting HVAC Motors Others	Govt Buildings												
			Federal	133,780	12,998	62,896	67	309,632	-	116	-	1,630			
			State	122,353	11,887	57,523	61	283,183	-	106	-	1,491			
			Local	1,015,849	98,697	477,594	510	2,351,164	-	884	-	12,377			
			Subtotal	1,271,982	123,582	598,013	639	2,943,978	-	1,107	-	15,497			
			Private Buildings												
			Commercial	7,881,345	765,729	3,705,355	3,959	18,241,221	-	6,859	-	96,022			
			Industrial	5,683,406	552,184	2,672,010	2,855	13,154,133	-	4,946	-	69,243			
			Agricultural	633,045	61,505	297,622	318	1,465,171	-	551	-	7,713			
			Subtotal	14,197,796	1,379,418	6,674,987	7,131	32,860,525	-	12,356	-	172,978			
Total	15,469,778	1,503,000	7,273,000	7,770	35,804,503	-	13,462	-	188,475						
PG&E -Medical Facilities	New and existing nursing homes, hospitals, and medical offices will receive services and incentives for energy efficiency retrofit and new construction	Lighting HVAC Motors Others	Govt Buildings												
			Federal	231,229	10,750	130,925	177	814,546	-	306	-	4,288			
			State	211,477	9,832	119,741	162	744,966	-	280	-	3,922			
			Local	1,661,234	77,234	940,614	1,270	5,852,007	-	2,200	-	30,805			
			Subtotal	2,103,939	97,816	1,191,280	1,608	7,411,519	-	2,787	-	39,014			
			Private Buildings												
			Commercial	10,534,999	489,790	5,965,064	8,054	37,111,502	-	13,954	-	195,355			
			Industrial	9,104,580	423,288	5,155,141	6,960	32,072,582	-	12,059	-	168,830			
			Agricultural	991,701	46,106	561,515	758	3,493,453	-	1,314	-	18,390			
			Subtotal	20,631,280	959,184	11,681,720	15,772	72,677,537	-	27,327	-	382,575			
Total	22,735,219	1,057,000	12,873,000	17,380	80,089,056	-	30,113	-	421,589						
PG&E -Large Commercial Buildings	The program will provide large commercial and institutional offices design assistance, education, commissioning and financial incentives for retrofit and new construction.	Lighting HVAC Motors Others	Govt Buildings												
			Federal	319,097	18,844	189,440	289	1,332,913	-	501	-	7,016			
			State	291,840	17,234	173,257	265	1,219,053	-	458	-	6,417			
			Local	2,423,039	143,088	1,438,495	2,196	10,121,357	-	3,806	-	53,279			
			Subtotal	3,033,976	179,165	1,801,192	2,750	12,673,322	-	4,765	-	66,712			
			Private Buildings												
			Commercial	18,798,859	1,110,129	11,160,389	17,040	78,525,338	-	29,526	-	413,357			
			Industrial	13,556,258	800,538	8,047,994	12,288	56,626,292	-	21,291	-	298,081			
			Agricultural	1,509,962	89,168	896,425	1,369	6,307,312	-	2,372	-	33,202			
			Subtotal	33,865,079	1,999,835	20,104,808	30,697	141,458,942	-	53,189	-	744,640			
Total	36,899,055	2,179,000	21,906,000	33,447	154,132,264	-	57,954	-	811,352						

Attachment 5

PG&E 2006-2008 Energy Efficiency Programs Designed to support Green Building Initiative

The projected savings goals are derived from Attachment 5, Joint IOU Case Management Statement, July 18, 2005. The projected program budgets which include marketing & outreach and financial incentives are based on the savings percentage established in the Joint IOU Case Management Statement. EM&V funding is not included. Financial incentives are incentives paid to participants. The estimated allocation of projected budgets and energy savings are derived from the percentages of incentives paid in program year 2004.

Program Name	Program Description	Major Program End-Use/Services		Projected Program Budget (2006-08)	Marketing & Outreach Budget (2006-08)	Financial Incentives Budget (2006-08)	Projected Energy Savings Goals (2006-08)			2006-2008 Projected Program Savings' Lifecycle CO2 Emission Reduction			
							kw	kwh	therms	First Year CO2 reduction due to kWh savings (ton)	First Year CO2 reduction due to therm savings (ton)	Total Lifecycle CO2 reduction (ton)	
PG&E -Hospitality Facilities	Hotels, motels, resorts, bed and breakfast inns and prisons will receive information, audits, and financial assistance for lighting, HVAC, plug load, laundry and cooking end use upgrades during remodeling or new construction.	Lighting HVAC Motors Others	Govt Buildings										
			Federal	41,340	6,529	15,350	26	117,955	-	44	-	621	
			State	37,809	5,971	14,039	23	107,879	-	41	-	568	
			Local	313,912	49,578	116,558	194	895,682	-	337	-	4,715	
			Subtotal	393,060	62,079	145,947	243	1,121,517	-	422	-	5,904	
			Private Buildings										
			Commercial	2,435,446	384,648	904,304	1,508	6,949,044	-	2,613	-	36,580	
			Industrial	1,756,252	277,378	652,113	1,087	5,011,103	-	1,884	-	26,378	
			Agricultural	195,620	30,896	72,636	121	558,161	-	210	-	2,938	
			Subtotal	4,387,318	692,921	1,629,053	2,717	12,518,308	-	4,707	-	65,896	
			Total	4,780,378	755,000	1,775,000	2,960	13,639,825	-	5,129	-	71,800	
GRAND TOTAL FOR 2006-2008				177,920,201	11,101,000	86,269,000	114,674	571,206,618	3,503,162	214,774	18,560	3,266,668	

PG&E Footnotes:

1. The projected energy savings goals are derived from Attachment 5, Joint IOU Case Management Statement, July 18, 2005.
2. The projected program budgets which include marketing & outreach and financial incentives are based on the savings percentage established in the Joint IOU Case Management Statement. The proposed EM&V budget costs were at the portfolio level and are therefore excluded. Financial incentives are incentives paid to participants.
3. The estimated allocation percentage of projected budgets and energy savings goals for the government and private buildings are derived from the percentage amount of financial incentives for participants in program year 2004.
4. The TRC cost-effectiveness calculations are derived from PG&E June 1, 2005 Application filing for approval of the 2006-2008 EE programs and budget.
5. The GHG emission reduction values are: 376 metric tons of CO2/GWH & 5298 metric tons of CO2 per million therms, consistent with Table 2: CO2 Emission Savings

Attachment 5

SCE 2006-2008 Energy Efficiency Programs Designed to support Green Building Initiative

Program Name	Program Description	Major Program End-Use/Services		Projected Program Budget (2006-08)	Marketing & Outreach Budget (2006-08)	Financial Incentives Budget (2006-08)	Projected Energy Savings Goals (2006-08)			2006-2008 Projected Program Savings' Lifecycle CO2 Emission Reduction			
							kW	kWh	Therms	First Year CO2 reduction due to kWh savings (ton)	First Year CO2 reduction due to therm savings (ton)	Total Lifecycle CO2 reduction (ton)	
SCE - Business Incentive Program	The Business Incentive Program will target all nonresidential customers by offering a full range of solutions, including audits, design assistance, and incentives for qualifying measures.	HVAC, Lighting, Refrigeration, Food Processing, Other	Total	\$ 105,923,305	\$ 1,775,743	\$ 77,125,392	192,315	1,043,034,770	-	392,181	-	5,882,716	
			Govt Buildings										
			Federal	\$ 1,105,975	\$ 18,541	\$ 805,288	2,048	11,007,838	-	4,139	-	62,084	
			State	\$ 1,401,366	\$ 23,493	\$ 1,020,369	2,224	14,134,276	-	5,314	-	79,717	
			Local	\$ 3,233,164	\$ 54,202	\$ 2,354,147	5,298	32,531,442	-	12,232	-	183,477	
			Subtotal	\$ 5,740,505	\$ 96,236	\$ 4,179,804	9,570	57,673,557	-	21,685	-	325,279	
			Private Buildings										
			Commercial	\$ 56,614,636	\$ 949,112	\$ 41,222,524	109,449	545,635,118	-	205,159	-	3,077,382	
			Industrial	\$ 38,974,669	\$ 653,388	\$ 28,378,425	64,975	395,602,410	-	148,747	-	2,231,198	
			Agricultural	\$ 4,593,496	\$ 77,007	\$ 3,344,639	8,321	44,123,685	-	16,591	-	248,858	
Subtotal	\$ 100,182,801	\$ 1,679,507	\$ 72,945,588	182,745	985,361,213	-	370,496	-	5,557,437				
SCE - Comprehensive HVAC	Program will target the upstream, midstream and downstream nature of the commercial and residential HVAC market.	HVAC	Total	\$ 47,233,739	\$ 3,384,935	\$ 30,175,634	29,596	138,357,062	-	52,022	-	780,334	
			Govt Buildings										
			Federal	\$ -	\$ -	\$ -	-	-	-	-	-	-	-
			State	\$ -	\$ -	\$ -	-	-	-	-	-	-	-
			Local	\$ 13,523,489	\$ 969,140	\$ 8,639,584	8,474	39,613,002	-	14,894	-	223,417	
			Subtotal	\$ 13,523,489	\$ 969,140	\$ 8,639,584	8,474	39,613,002	-	14,894	-	223,417	
			Private Buildings										
			Commercial	\$ 33,480,482	\$ 2,399,328	\$ 21,389,261	20,978	98,071,024	-	36,875	-	553,121	
			Industrial	\$ 229,768	\$ 16,466	\$ 146,789	144	673,036	-	253	-	3,796	
			Agricultural	\$ -	\$ -	\$ -	-	-	-	-	-	-	-
Subtotal	\$ 33,710,250	\$ 2,415,794	\$ 21,536,050	21,122	98,744,060	-	37,128	-	556,917				
SCE - Retrocommissioning	Program applies a systematic process for improving and optimizing larger sized building's operations and for supporting those improvements with enhanced documentation and training.	Other	Total	\$ 11,756,050	\$ 121,000	\$ 7,200,000	8,472	39,040,000	-	14,679	-	220,186	
			Govt Buildings										
			Federal	\$ 141,610	\$ 1,458	\$ 86,729	221	819,404	-	308	-	4,621	
			State	\$ 211,299	\$ 2,175	\$ 129,410	85	488,328	-	184	-	2,754	
			Local	\$ 474,039	\$ 4,879	\$ 290,326	149	811,395	-	305	-	4,576	
			Subtotal	\$ 826,948	\$ 8,511	\$ 506,465	455	2,119,127	-	797	-	11,952	
			Private Buildings										
			Commercial	\$ 4,329,920	\$ 44,566	\$ 2,651,862	3,835	15,555,683	-	5,849	-	87,734	
			Industrial	\$ 6,269,338	\$ 64,528	\$ 3,839,660	3,952	20,320,112	-	7,640	-	114,605	
			Agricultural	\$ 329,844	\$ 3,395	\$ 202,013	228	1,045,078	-	393	-	5,894	
Subtotal	\$ 10,929,102	\$ 112,489	\$ 6,693,535	8,016	36,920,873	-	13,882	-	208,234				
SCE - Industrial EE	Program is structured to reflect the process industry's reluctance to alter elements of a working production system for reasons other than product output or quality.	HVAC, Lighting, Motors, Other	Total	\$ 40,535,116	\$ 925,040	\$ 15,762,998	42,201	194,474,222	-	73,122	-	1,096,835	
			Govt Buildings										
			Federal	\$ 488,274	\$ 11,143	\$ 189,877	1,103	4,081,786	-	1,535	-	23,021	
			State	\$ 728,564	\$ 16,626	\$ 283,319	422	2,432,564	-	915	-	13,720	
			Local	\$ 1,634,497	\$ 37,300	\$ 635,611	744	4,041,891	-	1,520	-	22,796	
			Subtotal	\$ 2,851,336	\$ 65,069	\$ 1,108,806	2,269	10,556,241	-	3,969	-	59,537	
			Private Buildings										
			Commercial	\$ 14,929,657	\$ 340,705	\$ 5,805,735	19,106	77,489,225	-	29,136	-	437,039	
			Industrial	\$ 21,616,814	\$ 493,311	\$ 8,406,188	19,689	101,222,795	-	38,060	-	570,897	
			Agricultural	\$ 1,137,309	\$ 25,954	\$ 442,268	1,137	5,205,960	-	1,957	-	29,362	
Subtotal	\$ 37,683,780	\$ 859,971	\$ 14,654,191	39,932	183,917,981	-	69,153	-	1,037,297				
SCE - Apricultural EE	Program will encourage agricultural production and water supply customers to improve the energy efficiency of their facilities, including electricity used for water pumping and for non-pumping activities.	HVAC, Lighting, Refrigeration, Other	Total	\$ 38,062,834	\$ 3,987,981	\$ 10,221,554	28,073	129,368,274	-	48,642	-	729,637	
			Govt Buildings										
			Federal	\$ 458,494	\$ 48,038	\$ 123,126	734	2,715,288	-	1,021	-	15,314	
			State	\$ 684,128	\$ 71,679	\$ 183,719	280	1,618,192	-	608	-	9,127	
			Local	\$ 1,534,807	\$ 160,807	\$ 412,164	495	2,688,750	-	1,011	-	15,165	
			Subtotal	\$ 2,677,429	\$ 280,524	\$ 719,008	1,509	7,022,230	-	2,640	-	39,605	
			Private Buildings										
			Commercial	\$ 14,019,081	\$ 1,468,830	\$ 3,764,743	12,710	51,547,435	-	19,382	-	290,728	
			Industrial	\$ 20,298,380	\$ 2,126,735	\$ 5,451,012	13,097	67,335,496	-	25,318	-	379,772	
			Agricultural	\$ 1,067,943	\$ 111,892	\$ 286,790	757	3,463,113	-	1,302	-	19,532	
Subtotal	\$ 35,385,404	\$ 3,707,457	\$ 9,502,545	26,564	122,346,044	-	46,002	-	690,032				

Attachment 5

SCE 2006-2008 Energy Efficiency Programs Designed to support Green Building Initiative

Program Name	Program Description	Major Program End-Use/Services		Projected Program Budget (2006-08)	Marketing & Outreach Budget (2006-08)	Financial Incentives Budget (2006-08)	Projected Energy Savings Goals (2006-08)			2006-2008 Projected Program Savings' Lifecycle CO2 Emission Reduction			
							kW	kWh	Therms	First Year CO2 reduction due to kWh savings (ton)	First Year CO2 reduction due to therm savings (ton)	Total Lifecycle CO2 reduction (ton)	
SCE - Savings By Design	Program will provide the nonresidential new construction industry with a broad palette of technical and financial resources to aid them in designing new facilities to the most cost-effective energy and resource efficiency standards.	Other	Total	\$ 30,932,770	\$ 897,831	\$ 21,271,475	11,799	132,261,143	-	49,730	-	745,953	
			Govt Buildings										
			Federal	\$ 150,945	\$ 10,815	\$ 103,800	39	276,608	-	104	-	1,560	
			State	\$ 355,075	\$ 16,137	\$ 244,174	159	512,679	-	193	-	2,892	
			Local	\$ 740,540	\$ 36,203	\$ 509,245	126	4,539,806	-	1,707	-	25,605	
			Subtotal	\$ 1,246,560	\$ 63,156	\$ 857,220	324	5,329,093	-	2,004	-	30,056	
			Private Buildings										
			Commercial	\$ 23,146,617	\$ 330,684	\$ 15,917,187	9,228	97,324,703	-	36,594	-	548,911	
			Industrial	\$ 3,933,874	\$ 478,801	\$ 2,705,199	1,768	17,116,258	-	6,436	-	96,536	
			Agricultural	\$ 2,605,719	\$ 25,191	\$ 1,791,869	480	12,491,088	-	4,697	-	70,450	
Subtotal	\$ 29,686,210	\$ 834,675	\$ 20,414,256	11,475	126,932,050	-	47,726	-	715,897				
SCE - Sustainable Communities	Program provides comprehensive energy efficiency and demand response services to help address the increasing demand for electricity in the State.	Other	Total	\$ 4,429,150	\$ 647,000	\$ 1,400,000	356	8,212,000	-	3,088	-	46,316	
			Govt Buildings										
			Federal	\$ 21,613	\$ 7,794	\$ 6,832	1	17,174	-	6	-	97	
			State	\$ 50,842	\$ 11,629	\$ 16,071	5	31,832	-	12	-	180	
			Local	\$ 106,035	\$ 26,089	\$ 33,516	4	281,873	-	106	-	1,590	
			Subtotal	\$ 178,490	\$ 45,512	\$ 56,419	10	330,880	-	124	-	1,866	
			Private Buildings										
			Commercial	\$ 3,314,279	\$ 238,299	\$ 1,047,603	279	6,042,821	-	2,272	-	34,082	
			Industrial	\$ 563,277	\$ 345,036	\$ 178,045	53	1,062,736	-	400	-	5,994	
			Agricultural	\$ 373,103	\$ 18,153	\$ 117,933	14	775,563	-	292	-	4,374	
Subtotal	\$ 4,250,660	\$ 601,488	\$ 1,343,581	347	7,881,120	-	2,963	-	44,450				
SCE Partnerships	Program targets local Governments, especially cities, counties and special districts who have access to residential, commercial and institutional constituents that are also SCE customers.	Other	Total	\$ 44,491,054	\$ 2,632,578	\$ 31,023,367	28,636	131,961,428	-	49,617	-	744,262	
			Govt Buildings										
			Federal	\$ -	\$ -	\$ -	-	-	-	-	-	-	
			State	\$ 14,579,119	\$ 862,660	\$ 10,165,939	8,079	48,734,812	-	18,324	-	274,864	
			Local	\$ 29,911,935	\$ 1,769,918	\$ 20,857,428	20,557	83,226,616	-	31,293	-	469,398	
			Subtotal	\$ 44,491,054	\$ 2,632,578	\$ 31,023,367	28,636	131,961,428	-	49,617	-	744,262	
			Private Buildings										
			Commercial	\$ -	\$ -	\$ -	-	-	-	-	-	-	
			Industrial	\$ -	\$ -	\$ -	-	-	-	-	-	-	
			Agricultural	\$ -	\$ -	\$ -	-	-	-	-	-	-	
Subtotal	\$ -	\$ -	\$ -	-	-	-	-	-	-				
GRAND TOTAL				\$ 323,364,018	\$ 14,372,108	\$ 194,180,419	341,448	1,816,708,898	-	683,083	-	10,246,238	

SCE Notes:

1. Projected energy savings are based on SCE's 2006-08 Energy Efficiency Application, dated June 1, 2005 using 2004 as a basis for expected participation by customer segments.
2. The projected program budgets which include marketing & outreach and financial incentives are based on SCE's 2006-08 Energy Efficiency Application, dated June 1, 2005 using 2004 as a basis for expected participation by customer segments.
3. The GHG emission reduction values are: 376 metric tons of CO2/GWH & 5298 metric tons of CO2 per million therms, consistent with Table 2: CO2 Emission Savings.

Attachment 5

SDGE & SCG 2006-2008 Energy Efficiency Programs Designed to support Green Building Initiative

Program Name	Program Description	Major Program End-Use/Services		Projected Program Budget (2006-08)	Marketing & Outreach Budget (2006-08)	Financial Incentives Budget (2006-08)	Projected Energy Savings Goals (2006-08)			2006-2008 Projected Program Savings' Lifecycle CO2 Emission Reduction				
							kw	kwh	therms	First Year CO2 reduction due to kWh savings (ton)	First Year CO2 reduction due to therm savings (ton)	Total Lifecycle CO2 reduction (ton)		
SDGE IOU/Community College Partnership	Program will offer incentives for retrofit and new construction projects, continuous commissioning, and educational training for the community colleges.	Energy Efficiency Retrofits and Load Management Projects, along with New Construction Assistance. Primarily targets Lighting, HVAC, Gas Measures and Other.	Govt Buildings											
			Federal	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			State	\$ 6,000,000	\$ -	\$ 4,200,000	1,614	12,000,000	410,556	4,512	2,175	93,620		
			Local	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Subtotal	\$ 6,000,000	\$ -	\$ 4,200,000	1,614	12,000,000	410,556	4,512	2,175	93,620		
			Private Buildings											
			Commercial	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Industrial	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Agricultural	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Subtotal	\$ -	\$ -	\$ -	-	-	-	0	0	0		
Total	\$ 6,000,000	\$ -	\$ 4,200,000	1,614	12,000,000	410,556	4,512	2,175	93,620					
SDGE CA Department of Corrections Partnership	The program will offer incentives for retrofit projects, continuous commissioning, and educational training for the prisons and youth facilities.	Energy Efficiency retrofits, education, and Monitoring Based Commissioning. Primarily targets Lighting, HVAC, Gas Measures and Other.	Govt Buildings											
			Federal	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			State	\$ 1,200,000	\$ -	\$ 900,005	57	267,858	14,664	101	78	2,498		
			Local	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Subtotal	\$ 1,200,000	\$ -	\$ 900,005	57	267,858	14,664	101	78	2,498		
			Private Buildings											
			Commercial	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Industrial	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Agricultural	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Subtotal	\$ -	\$ -	\$ -	-	-	-	0	0	0		
Total	\$ 1,200,000	\$ -	\$ 900,005	57	267,858	14,664	101	78	2,498					
SDGE Energy Savings Bids	Local incentive program designed for large commercial or industrial energy-efficiency projects including the military and public agencies.	The targeted measure types include Lighting/Daylighting, HVAC/Refrigeration, central plant optimization via variable speed drives, and other technologies.	Govt Buildings											
			Federal	\$ 5,840,084	\$ 161,296	\$ 4,240,520	2,932	19,152,593	19,315	7,201	102	102,252		
			State	\$ 831,046	\$ 22,953	\$ 603,427	761	2,725,421	5,996	1,025	32	14,791		
			Local	\$ 2,638,281	\$ 72,866	\$ 1,915,672	2,908	8,652,260	27,821	3,253	147	47,609		
			Subtotal	\$ 9,309,411	\$ 257,115	\$ 6,759,619	6,601	30,530,274	53,131	11,479	281	164,652		
			Private Buildings											
			Commercial	\$ 35,050,764	\$ 968,062	\$ 25,450,567	16,906	114,949,202	268,361	43,221	1,422	624,997		
			Industrial	\$ 5,721,076	\$ 158,010	\$ 4,154,107	3,617	18,762,306	39,657	7,055	210	101,706		
			Agricultural	\$ 862,037	\$ 23,808	\$ 625,930	464	2,827,056	9,851	1,063	52	15,612		
			Subtotal	\$ 41,633,878	\$ 1,149,880	\$ 30,230,605	20,987	136,538,564	317,869	51,339	1,684	742,316		
Total	\$ 50,943,289	\$ 1,406,995	\$ 36,990,224	27,588	167,068,838	371,000	62,818	1,966	906,968					
SDGE Express Efficiency Rebate Program	Statewide prescriptive rebate program that encourages nonresidential customers to retrofit existing equipment with high efficiency equipment.	The targeted measure types include Lighting, HVAC/Refrigeration, and other technologies.	Govt Buildings											
			Federal	\$ 1,141,620	\$ 172,944	\$ 586,362	578	5,551,310	47,931	2,087	254	32,777		
			State	\$ 162,453	\$ 24,610	\$ 83,440	150	789,953	14,878	297	79	5,262		
			Local	\$ 515,731	\$ 78,128	\$ 264,891	574	2,507,826	69,041	943	366	18,322		
			Subtotal	\$ 1,819,804	\$ 275,681	\$ 934,693	1,302	8,849,089	131,849	3,327	699	56,361		
			Private Buildings											
			Commercial	\$ 6,851,724	\$ 1,037,965	\$ 3,519,203	3,334	33,317,610	665,958	12,527	3,528	224,779		
			Industrial	\$ 1,118,356	\$ 169,419	\$ 574,413	713	5,438,186	98,411	2,045	521	35,926		
			Agricultural	\$ 168,511	\$ 25,528	\$ 86,551	92	819,412	24,446	308	130	6,127		
			Subtotal	\$ 8,138,591	\$ 1,232,912	\$ 4,180,168	4,138	39,575,208	788,816	14,880	4,179	266,832		
Total	\$ 9,958,395	\$ 1,508,593	\$ 5,114,861	5,440	48,424,297	920,665	18,208	4,878	323,193					
SDGE Small Business Super Saver	Local program targeting nonresidential customers under 100kW of monthly demand and/or under an average monthly of 20,800 therms.	The targeted measure types include Lighting, HVAC/Refrigeration, and other technologies.	Govt Buildings											
			Federal	\$ 3,547,666	\$ 261,269	\$ 2,319,140	2,316	17,939,838	65,781	6,745	349	99,314		
			State	\$ 504,834	\$ 37,179	\$ 330,015	601	2,552,845	20,420	960	108	14,953		
			Local	\$ 1,602,672	\$ 118,029	\$ 1,047,681	2,297	8,104,393	94,754	3,047	502	49,690		
			Subtotal	\$ 5,655,172	\$ 416,476	\$ 3,696,836	5,214	28,597,077	180,955	10,753	959	163,957		
			Private Buildings											
			Commercial	\$ 21,292,226	\$ 1,568,071	\$ 13,918,916	13,353	107,670,544	913,984	40,484	4,842	634,570		
			Industrial	\$ 3,475,372	\$ 255,945	\$ 2,271,881	2,857	17,574,265	135,063	6,608	716	102,529		
			Agricultural	\$ 523,660	\$ 38,565	\$ 342,321	367	2,648,045	33,550	996	178	16,428		
			Subtotal	\$ 25,291,259	\$ 1,862,581	\$ 16,533,119	16,577	127,892,854	1,082,597	48,083	5,736	753,526		
Total	\$ 30,946,431	\$ 2,279,057	\$ 20,229,955	21,791	156,489,931	1,263,552	58,840	6,694	917,483					

Attachment 5

SDGE & SCG 2006-2008 Energy Efficiency Programs Designed to support Green Building Initiative

Program Name	Program Description	Major Program End-Use/Services		Projected Program Budget (2006-08)	Marketing & Outreach Budget (2006-08)	Financial Incentives Budget (2006-08)	Projected Energy Savings Goals (2006-08)			2006-2008 Projected Program Savings' Lifecycle CO2 Emission Reduction				
							kw	kwh	therms	First Year CO2 reduction due to kWh savings (ton)	First Year CO2 reduction due to therm savings (ton)	Total Lifecycle CO2 reduction (ton)		
SDGE Standard Performance Program	SPC targets mid to large-sized customers but will accommodate small non-residential customers that cannot be served by other programs.	Primarily targets Lighting, HVAC, Gas Measures and Other.	Govt Buildings											
			Federal	\$ 1,252,769	\$ 39,507	\$ 812,857	482	4,172,687	25,783	1,569	137	23,877		
			State	\$ 178,269	\$ 5,622	\$ 115,670	125	593,775	8,003	223	42	3,719		
			Local	\$ 565,943	\$ 17,847	\$ 367,212	478	1,885,028	37,139	709	197	12,677		
			Subtotal	\$ 1,996,981	\$ 62,976	\$ 1,295,739	1,085	6,651,490	70,925	2,501	376	40,274		
			Private Buildings											
			Commercial	\$ 7,518,812	\$ 237,111	\$ 4,878,572	2,779	25,043,451	358,237	9,416	1,898	158,400		
			Industrial	\$ 1,227,240	\$ 38,702	\$ 796,293	595	4,087,657	52,938	1,537	280	25,444		
			Agricultural	\$ 184,917	\$ 5,832	\$ 119,983	76	615,918	13,150	232	70	4,218		
			Subtotal	\$ 8,930,970	\$ 281,645	\$ 5,794,849	3,450	29,747,025	424,325	11,185	2,248	188,061		
Total			\$ 10,927,951	\$ 344,621	\$ 7,090,588	4,535	36,398,515	495,250	13,686	2,624	228,335			
SDGE IOU/UC/CSU Partnership	The program will offer incentives for retrofit projects, continuous commissioning, and educational training for campus energy managers.	Primarily targets Lighting, HVAC, Gas Measures and Other.	Govt Buildings											
			Federal	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			State	\$ 6,000,000	\$ -	\$ 4,200,000	1,731	12,000,000	439,971	4,512	2,331	95,802		
			Local	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Subtotal	\$ 6,000,000	\$ -	\$ 4,200,000	1,731	12,000,000	439,971	4,512	2,331	95,802		
			Private Buildings											
			Commercial	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Industrial	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Agricultural	\$ -	\$ -	\$ -	-	-	-	0	0	0		
			Subtotal	\$ -	\$ -	\$ -	-	-	-	0	0	0		
Total			\$ 6,000,000	\$ -	\$ 4,200,000	1,731	12,000,000	439,971	4,512	2,331	95,802			
SDGE Savings By Design	The program promotes integrated design and emphasizes early design involvement by offering building owners and their design teams a wide range of services including education, design assistance, and owner incentives as well as design	The targeted measure types include Lighting/Daylighting, HVAC, Refrigeration, Water Heating, and other technologies. Systems and Whole Building approaches.	Govt Buildings											
			Federal	\$ 1,559,082	\$ 252,021	\$ 741,276	659	2,365,038	18,273	889	97	13,805		
			State	\$ 221,858	\$ 35,863	\$ 105,484	171	336,546	5,672	127	30	2,192		
			Local	\$ 704,322	\$ 113,852	\$ 334,874	654	1,068,415	26,321	402	139	7,576		
			Subtotal	\$ 2,485,262	\$ 401,736	\$ 1,181,634	1,485	3,769,999	50,266	1,418	266	23,574		
			Private Buildings											
			Commercial	\$ 9,357,234	\$ 1,512,571	\$ 4,448,957	3,803	14,194,382	253,886	5,337	1,345	93,550		
			Industrial	\$ 1,527,312	\$ 246,886	\$ 726,170	814	2,316,844	37,518	871	199	14,979		
			Agricultural	\$ 230,131	\$ 37,200	\$ 109,417	104	349,096	9,320	131	49	2,529		
			Subtotal	\$ 11,114,677	\$ 1,796,657	\$ 5,284,545	4,721	16,860,321	300,723	6,339	1,593	111,058		
Total			\$ 13,599,939	\$ 2,198,392	\$ 6,466,179	6,206	20,630,320	350,989	7,757	1,860	134,632			
SDGE Sustainable Communities	local program designed to promote sustainable development, showcase energy-efficient design and building practices, and encourage local developers to incorporate clean on-site energy generation systems in their multifamily and	Incorporates high performance energy efficiency and demand reduction technologies, along with clean on-site generation, water conservation, transportation efficiencies and waste reduction strategies.	Govt Buildings											
			Federal	\$ 194,293	\$ 39,332	\$ 96,448	48	235,496	2,113	89	11	1,396		
			State	\$ 27,648	\$ 5,597	\$ 13,725	12	33,511	656	13	3	225		
			Local	\$ 87,773	\$ 17,768	\$ 43,571	48	106,386	3,044	40	16	786		
			Subtotal	\$ 309,714	\$ 62,697	\$ 153,743	108	375,394	5,814	141	31	2,407		
			Private Buildings											
			Commercial	\$ 1,166,102	\$ 236,061	\$ 578,857	276	1,413,392	29,364	531	156	9,618		
			Industrial	\$ 190,334	\$ 38,530	\$ 94,482	59	230,697	4,339	87	23	1,536		
			Agricultural	\$ 28,679	\$ 5,806	\$ 14,236	8	34,761	1,078	13	6	263		
			Subtotal	\$ 1,385,116	\$ 280,397	\$ 687,575	343	1,678,850	34,781	631	184	11,417		
Total			\$ 1,694,830	\$ 343,094	\$ 841,319	451	2,054,244	40,595	772	215	13,825			

SDGE Notes:

1) Percentage Factors used to allocate Budget and Savings into Government/Private Categories were derived from kwh consumption by SIC/NAICS codes.

2) The emissions factor for natural gas, according to EIA is 14.45 million metric tons of carbon per quadrillion Btu. (Equivalent to 5298 metric tons of CO2 per million therms or .005298 metric tons of CO2 per therm.) (Source: Energy Information Administration, "Emissions of Greenhouse Gases in the United States 1987-1992," DOE/EIA-0573 (Washington, DC, November 1994), Appendix A, pp. 73-92, www.eia.doe.gov/oiat/1605/87-92rpt/appa.html). The corresponding electric emission rate, using this heat rate and emissions factor, is 376 metric tons CO2 / GWh or .000376 metric tons CO2/kWh.

3) Life Cycle CO2 reduction was calculated assuming a 14 year life.

Attachment 5

SDG&E & SCG 2006-2008 Energy Efficiency Programs Designed to support Green Building Initiative

Program Name	Program Description	Major Program End-Use/Services		Projected Program Budget (2006-08)	Marketing & Outreach Budget (2006-08)	Financial Incentives Budget (2006-08)	Projected Energy Savings Goals (2006-08)			2006-2008 Projected Program Savings' Lifecycle CO2 Emission Reduction				
							kw	kwh	therms	First Year CO2 reduction due to kWh savings (ton)	First Year CO2 reduction due to therm savings (ton)	Total Lifecycle CO2 reduction (ton)		
SCG Express Efficiency Rebate Program	Program that encourages nonresidential customers to retrofit existing equipment with high efficiency equipment.	The targeted measure types include water and space heating retrofits, and other technologies.	Govt Buildings											
			Federal	\$ 87,012	\$ 19,177	\$ 36,350	-	-	44,804	0	237	3,323		
			State	\$ 175,509	\$ 38,681	\$ 73,320	-	-	90,373	0	479	6,703		
			Local	\$ 3,101,433	\$ 683,540	\$ 1,295,642	-	-	1,596,982	0	8,461	118,451		
			Subtotal	\$ 3,363,954	\$ 741,399	\$ 1,405,311	-	-	1,732,158	0	9,177	128,478		
			Private Buildings											
			Commercial	\$ 2,983,468	\$ 657,542	\$ 1,246,361	-	-	1,536,239	0	8,139	113,946		
			Industrial	\$ 15,381,264	\$ 3,389,955	\$ 6,425,612	-	-	7,920,079	0	41,961	587,448		
			Agricultural	\$ 372,551	\$ 82,108	\$ 155,635	-	-	191,833	0	1,016	14,229		
			Subtotal	\$ 18,737,283	\$ 4,129,605	\$ 7,827,609	-	-	9,648,152	0	51,116	715,623		
Total	\$ 22,101,237	\$ 4,871,004	\$ 9,232,920	-	-	11,380,310	0	60,293	844,100					
SCG Local Business Energy Efficiency Program	Targets all nonresidential customers, including commercial, industrial and agricultural customers.	Program consists of prescriptive Efficient Equipment Rebates, Process Equipment Replacement incentives, Custom Process Improvement Incentives, Grant and Recognition programs. The targeted	Govt Buildings											
			Federal	\$ 105,696	\$ 6,601	\$ 56,992	-	-	70,735	0	375	5,247		
			State	\$ 213,195	\$ 13,314	\$ 114,956	-	-	142,676	0	756	10,583		
			Local	\$ 3,767,390	\$ 235,273	\$ 2,031,395	-	-	2,521,246	0	13,358	187,006		
			Subtotal	\$ 4,086,281	\$ 255,188	\$ 2,203,343	-	-	2,734,657	0	14,488	202,835		
			Private Buildings											
Commercial	\$ 3,624,095	\$ 226,325	\$ 1,954,130	-	-	2,425,349	0	12,849	179,893					
Industrial	\$ 18,684,016	\$ 1,166,816	\$ 10,074,512	-	-	12,503,881	0	66,246	927,438					
Agricultural	\$ 452,547	\$ 28,262	\$ 244,016	-	-	302,858	0	1,605	22,464					
Subtotal	\$ 22,760,659	\$ 1,421,402	\$ 12,272,657	-	-	15,232,087	0	80,700	1,129,794					
Total	\$ 26,846,940	\$ 1,676,590	\$ 14,476,000	-	-	17,966,744	0	95,188	1,332,629					
SCG Savings By Design SCG SCE Program	Through this joint program SoCalGas will offer incentives for gas energy savings	The targeted measure types include Space heating, Water Heating, and other technologies. Systems and Whole Building approaches.	Govt Buildings											
			Federal	\$ 29,527	\$ 5,473	\$ 12,177	-	-	20,746	0	110	1,539		
			State	\$ 59,558	\$ 11,040	\$ 24,561	-	-	41,846	0	222	3,104		
			Local	\$ 1,052,464	\$ 195,080	\$ 434,021	-	-	739,469	0	3,918	54,848		
			Subtotal	\$ 1,141,549	\$ 211,593	\$ 470,759	-	-	802,062	0	4,249	59,491		
			Private Buildings											
Commercial	\$ 1,012,432	\$ 187,660	\$ 417,513	-	-	711,343	0	3,769	52,762					
Industrial	\$ 5,219,594	\$ 967,482	\$ 2,152,486	-	-	3,667,328	0	19,430	272,013					
Agricultural	\$ 126,424	\$ 23,433	\$ 52,136	-	-	88,827	0	471	6,588					
Subtotal	\$ 6,358,451	\$ 1,178,575	\$ 2,622,135	-	-	4,467,498	0	23,669	331,363					
Total	\$ 7,500,000	\$ 1,390,168	\$ 3,092,893	-	-	5,269,560	0	27,918	390,854					
SCG Savings By Design SCG Muni Program	Through this joint program SoCalGas will offer incentives for gas energy savings	The targeted measure types include Space heating, Water Heating, and other technologies. Systems and Whole Building approaches.	Govt Buildings											
			Federal	\$ 11,811	\$ 1,190	\$ 7,087	-	-	11,811	0	63	876		
			State	\$ 23,823	\$ 2,401	\$ 14,294	-	-	23,823	0	126	1,767		
			Local	\$ 420,985	\$ 42,433	\$ 252,591	-	-	420,985	0	2,230	31,225		
			Subtotal	\$ 456,620	\$ 46,024	\$ 273,972	-	-	456,620	0	2,419	33,868		
			Private Buildings											
Commercial	\$ 404,973	\$ 40,819	\$ 242,984	-	-	404,973	0	2,146	30,038					
Industrial	\$ 2,087,838	\$ 210,441	\$ 1,252,702	-	-	2,087,838	0	11,061	154,859					
Agricultural	\$ 50,570	\$ 5,097	\$ 30,342	-	-	50,570	0	268	3,751					
Subtotal	\$ 2,543,380	\$ 256,356	\$ 1,526,027	-	-	2,543,380	0	13,475	188,648					
Total	\$ 3,000,000	\$ 302,381	\$ 1,799,999	-	-	3,000,000	0	15,894	222,516					

Attachment 5

SDG&E & SCG 2006-2008 Energy Efficiency Programs Designed to support Green Building Initiative

Program Name	Program Description	Major Program End-Use/Services		Projected Program Budget (2006-08)	Marketing & Outreach Budget (2006-08)	Financial Incentives Budget (2006-08)	Projected Energy Savings Goals (2006-08)			2006-2008 Projected Program Savings' Lifecycle CO2 Emission Reduction			
							kw	kwh	therms	First Year CO2 reduction due to kWh savings (ton)	First Year CO2 reduction due to therm savings (ton)	Total Lifecycle CO2 reduction (ton)	
SCG Sustainable Communities Demo/City of Santa Monica	local program designed to promote sustainable development, showcase energy-efficient design and building practices, and encourage local developers to incorporate clean on-site energy generation systems in their multifamily and	Incorporates high performance energy efficiency and demand reduction technologies, along with clean on-site generation, water conservation, transportation efficiencies and waste reduction strategies.	Govt Buildings				-	-	-	0	0	2	
			Federal	\$ 3,543	\$ 1,106	\$ 512	-	-	22	0	0	3	
			State	\$ 7,147	\$ 2,232	\$ 1,032	-	-	44	0	0	57	
			Local	\$ 126,296	\$ 39,439	\$ 18,243	-	-	772	0	4	62	
			Subtotal	\$ 136,986	\$ 42,777	\$ 19,787	-	-	837	0	4	55	
			Private Buildings			-	-	-	-	-	0	4	284
			Commercial	\$ 121,492	\$ 37,939	\$ 17,549	-	-	742	0	20	7	
			Industrial	\$ 626,351	\$ 195,593	\$ 90,473	-	-	3,828	0	25	346	
			Agricultural	\$ 15,171	\$ 4,737	\$ 2,191	-	-	93	0	0	408	
			Subtotal	\$ 763,014	\$ 238,269	\$ 110,213	-	-	4,663	0	29		
Total	\$ 900,000	\$ 281,047	\$ 130,000	-	-	5,500	0	29	408				
GRAND TOTAL				\$ 191,619,012	\$ 16,601,942	\$ 114,764,941	69,413	455,334,003	41,929,356	171,206	222,142	5,506,862	

SCG Notes:

1) Percentage Factors used to allocate Budget and Savings into Government/Private Categories were derived from (Equivalent to 5298 metric tons of CO2 per million therms or .005298 metric tons of CO2 per therm.) (Source: Energy Information Administration, "Emissions of Greenhouse Gases in the United States 1987-1992," DOE/EIA-0573 (Washington, DC, November 1994), Appendix A, pp. 73-92, www.eia.doe.gov/oiaf/1605/87-92rpt/appa.html). The corresponding electric emission rate, using this heat rate and emissions factor, is 376 metric tons CO2 / GWh or .000376 metric tons CO2/kWh.

3) Partnerships for 2006-2008 were not included in this analysis. SCG did not forecast savings for partnerships in the June 1st, 2005 filing pending the completion of the competitive solicitation process.