

Appendix A:

San Diego Gas & Electric Company

Cost-Effectiveness Requirements

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Core	
Total Program Budget (\$)	\$ 152,469,451	\$ 144,090,999
Net Participant Cost (\$)		\$ 71,574,195

Avoided Cost Version
8/4/2011
2/17/2012
Base Year
2013
SDG&E 2013 v1c4-Draft.xls

Program Impacts							
	Wtd Annual Net kWh	Lifecycle Net kWh	Wtd Annual Net Therms	Lifecycle Net Therms	Wtd Net Jul-Sept PK** (kW)	Wtd Net Dec-Feb Pk** (kW)	Wtd User Entered kW
2013	148,213,827	1,708,578,545	1,499,814	26,971,176	25,015	20,394	21,733
2014	158,161,341	1,933,916,980	1,535,534	27,272,808	25,427	19,112	24,166
2013-2014	306,375,168	3,642,495,525	3,035,348	54,243,984	50,442	39,506	45,899

Cost Effectiveness (Lifecycle Present Value Dollars)							
	Cost	Electric	Gas	Incentives	Benefit - Cost NPV	B/C Ratio	Notes
Program TRC (\$)	\$ 2,152,665,194	\$301,313,683	\$34,933,565	NA	\$120,582,054	1.56	*1
Program PAC (\$)	\$ 144,090,999	\$301,313,683	\$34,933,565	NA	\$192,156,249	2.33	*1,2
Program RIM (\$)	\$ 526,379,450	\$301,313,683	\$34,933,565	NA	(\$190,132,202)	0.64	*1

*1 B/C Ratio is an approximation because any supply cost increases are treated as negative benefits rather than as a cost as in the Standard Practice Manual
*2 PAC benefits include environmental costs. This is to be consistent with the TRC benefits, but is not strictly consistent with the Standard Practice Manual.

Levelized Cost and Benefit (All Measures Installed through 2023)							
	Discounted Savings			Benefit - Cost			
	kWh	Therms	Cost	Benefits	NPV		
TRC (\$/kWh)	2,152,031,326		\$ 0.0854	\$ 0.1400	\$ 0.0546		
PAC (\$/kWh)	2,152,031,326		\$ 0.0574	\$ 0.1400	\$ 0.0826		
RIM (\$/kWh)	2,152,031,326		\$ 0.2192	\$ 0.1400	\$ (0.0792)		
TRC (\$/therm)		31,601,167	\$ 0.91	\$ 1.11	\$ 0.1956		
PAC (\$/therm)		31,601,167	\$ 0.59	\$ 1.11	\$ 0.5170		
RIM (\$/therm)		31,601,167	\$ 1.73	\$ 1.11	\$ (0.6251)		

Wtd Avg Emissions Reductions						
Annual Reductions	Electric Reductions			Gas Reductions		* annual reductions are the units implemented in the year, times the annual emission reduction for the measure, weighted for dual baseline.
	CO2 (tons)	NOX (lbs)	PM-10 (lbs)	CO2 (tons)	NOX (lbs)	
2013	75,548	18,440	9,955	8,774	19,416	
2014	80,001	19,378	10,560	8,983	19,562	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Annual	155,549	37,818	20,515	17,757	38,978	
Lifecycle Reductions						
2013	869,935	212,106	114,656	157,781	344,409	
2014	976,029	235,881	128,902	159,546	343,661	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Lifecycle	1,845,964	447,987	243,558	317,327	688,070	

Reductions based on total annual installations									
	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	Net Annual NCP (kW)	
2013	148,213,827	1,708,578,545	1,499,814	26,971,176	25,015	20,394	21,733	26,465	
2014	158,161,341	1,933,916,980	1,535,534	27,272,808	25,427	19,112	24,166	37,543	
2015	-	-	-	-	-	-	-	17,763	
2016	-	-	-	-	-	-	-	(3,361)	
2017	-	-	-	-	-	-	-	(4,129)	
2018	-	-	-	-	-	-	-	(893)	
2019	-	-	-	-	-	-	-	(8,180)	
2020	-	-	-	-	-	-	-	(8,250)	
2021	-	-	-	-	-	-	-	(2,604)	
2022	-	-	-	-	-	-	-	(1,388)	
2023	-	-	-	-	-	-	-	(3,111)	
Total	306,375,168	3,642,495,525	3,035,348	54,243,984	50,442	39,506	45,899	49,854	

Program Summary	Nominal	Present Value	Avoided Cost Version
Proposer Name	SDG&E		8/4/2011
Program Name	SDG&E Core		2/17/2012
Total Program Budget (\$)	\$ 152,469,451	\$ 144,090,999	Base Year
			2013
Net Participant Cost (\$)		\$ 71,574,195	SDG&E 2013 v1c4-Draft.xls

Wtd Average Net Impacts by Sector (All Measures Installed through 2023)								
	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	306,375,168	3,642,495,525	3,035,348	54,243,984	50,442	39,506	45,899	120,582,054
RES	81,711,985	862,021,159	(152,509)	(1,784,310)	11,406	13,877	9,359	40,797,154
NON_RES	-	-	-	-	-	-	-	-
Residential	47,616,440	381,004,178	381,083	11,783,827	9,428	7,121	7,148	(4,120,385)
Commercial	176,969,707	2,399,085,007	2,587,592	43,112,711	25,768	16,210	29,392	83,405,304
Industrial	-	-	7,375	44,252	-	-	-	21,827
Agricultural	77,036	385,181	209,909	1,049,545	38	4	-	461,481
Not Used	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
Other and unspecified	-	-	1,898	37,959	3,802	2,294	-	16,673

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.
 **These values are only approximations if there are dual baseline measures in the program

Net Impacts by CPUC End Use Categories (All Measures Installed through 2023)								
	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	306,375,168	3,642,495,525	3,035,348	54,243,984	50,442	39,506	45,899	120,582,054
Clothes Dryer	-	-	-	-	-	-	-	-
Clothes Washer	-	-	-	-	-	-	-	-
Consumer Electronics	-	-	-	-	-	-	-	-
Cooking	-	-	-	-	-	-	-	-
Dishwasher	-	-	-	-	-	-	-	-
Other Appliance	-	-	-	-	-	-	-	-
Office Equipment	14,707,208	164,581,010	(11,549)	(149,868)	2,842	1,778	2,703	2,199,871
Building shell	-	-	-	-	-	-	-	-
Space Cooling	30,598,608	490,915,803	956,121	15,702,242	11,232	2,851	10,656	11,434,112
Space Heating	99,458	1,253,978	33,285	654,896	-	9	30	(498,747)
Ventilation	12,679,778	136,916,394	130,995	1,419,125	1,699	1,513	1,189	2,731,457
Interior Lighting	166,895,936	1,836,990,061	(627,849)	(4,153,183)	23,854	24,741	23,155	72,840,204
Exterior Lighting	33,876,564	503,186,681	(649)	(9,750)	714	1,159	2,603	3,641,028
Daylighting	-	-	-	-	-	-	-	-
Motors	2,461,980	36,929,703	820	12,297	332	367	218	1,364,308
Process	287,974	3,586,636	78,743	1,181,145	39	43	53	108,355
Compressed Air	-	-	-	-	-	-	-	-
Food Processor	-	-	-	-	-	-	-	-
Refrigeration	40,279,328	423,261,489	11,748	56,367	5,683	4,506	4,652	15,546,266
Freezers	-	-	-	-	-	-	-	-
Pumps	-	-	-	-	-	-	-	-
Pool Pump	4,500,650	45,006,500	-	-	246	246	639	195,471
Domestic Hot Water	-	-	-	-	-	-	-	-
Water Heating	(12,315)	(132,730)	159,169	1,668,717	(2)	(2)	0	132,444
Other or unspecified	-	-	2,304,514	37,861,996	3,802	2,294	-	10,887,285

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.
 **These values are only approximations if there are dual baseline measures in the program

Net Impacts by Climate Zone (All Measures Installed through 2023)								
	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	306,375,168	3,642,495,525	3,035,348	54,243,984	46,640	37,212	45,899	120,582,054
7	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
System	306,375,168	3,642,495,525	3,035,348	54,243,984	46,640	37,212	45,899	120,582,054
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Core	
Total Program Budget (\$)	\$ 152,469,451	\$ 144,090,999
Net Participant Cost (\$)		\$ 71,574,195

Avoided Cost Version
8/4/2011
2/17/2012
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2013
SDG&E 2013 v1c4-Draft.xls

Persistent reductions in the summer (3rd Qtr) or winter (4th Qtr) of each year		
	Net July-Sept Peak (kW)	Net Annual Dec-Feb (kW)
2013	13,594	21,668
2014	42,180	43,640
2015	56,405	42,254
2016	52,278	38,608
2017	48,987	38,274
2018	47,582	33,889
2019	42,862	28,023
2020	38,360	25,279
2021	36,348	23,725
2022	35,251	23,294
2023	32,210	17,974
2024	26,428	12,630

These values are only approximations if there are dual baseline measures in the program

Monthly Impacts						
First Year for Impact Table:	2013	These values are only approximations if there are dual baseline measures in the program				
	Quarter	Hour Avg or TOU Peak	Net Monthly NCP (kW)	Monthly Net kWh	Monthly Net Therms	
January-13	1	-	-	-	-	-
February-13	1	-	-	-	-	-
March-13	1	-	-	-	-	-
April-13	2	4,451	8,543	3,167,096	29,371	
May-13	2	6,530	9,813	3,426,056	29,371	
June-13	2	6,106	9,683	3,335,462	29,371	
July-13	3	13,649	19,675	6,980,885	58,742	
August-13	3	13,654	19,623	7,008,513	58,742	
September-13	3	13,478	19,642	6,822,126	58,742	
October-13	4	19,440	26,465	10,071,910	109,113	
November-13	4	15,624	25,380	9,410,887	109,113	
December-13	4	15,594	25,130	9,623,264	109,113	
January-14	5	21,703	34,040	12,887,849	145,529	
February-14	5	22,528	33,946	12,345,704	145,529	
March-14	5	24,069	33,774	12,941,077	145,529	
April-14	6	22,560	43,245	16,237,693	145,574	
May-14	6	33,325	49,758	17,486,227	145,574	
June-14	6	31,291	49,208	17,077,921	145,574	
July-14	7	42,312	60,934	21,794,962	173,663	
August-14	7	42,352	60,842	21,877,604	173,663	
September-14	7	41,875	60,889	21,373,575	173,663	
October-14	8	44,329	64,009	24,817,703	262,658	
November-14	8	36,893	61,764	23,442,272	262,658	
December-14	8	36,830	61,133	23,835,095	262,658	
January-15	9	43,709	71,352	27,623,544	301,720	
February-15	9	45,034	71,159	26,709,381	301,720	
March-15	9	47,460	70,887	27,733,073	301,720	
April-15	10	36,873	70,769	26,997,666	229,870	
May-15	10	54,868	81,590	28,887,602	229,870	
June-15	10	51,775	80,895	28,318,971	229,870	
July-15	11	56,563	81,771	29,304,258	229,897	
August-15	11	56,627	81,679	29,413,112	229,897	
September-15	11	56,024	81,735	28,776,390	229,897	
October-15	12	49,530	71,947	27,989,999	302,760	
November-15	12	41,290	69,438	26,453,847	302,760	
December-15	12	41,220	68,713	26,885,137	302,760	
January-16	13	42,321	68,989	26,727,802	303,590	
February-16	13	43,651	68,797	25,816,168	303,590	
March-16	13	46,086	68,525	26,834,931	303,590	
April-16	14	34,850	67,293	25,678,021	229,979	
May-16	14	51,730	78,410	27,548,459	229,979	
June-16	14	48,691	77,718	26,983,723	229,979	
July-16	15	52,442	77,599	27,538,367	230,005	
August-16	15	52,496	77,487	27,644,876	230,005	
September-16	15	51,895	77,541	27,008,492	230,005	
October-16	16	46,375	66,540	25,930,867	306,023	
November-16	16	38,120	64,035	24,400,884	306,023	
December-16	16	38,049	63,316	24,833,905	306,023	
January-17	17	38,672	62,781	24,367,286	306,796	
February-17	17	40,006	62,590	23,458,456	306,796	
March-17	17	42,449	62,317	24,472,104	306,796	
April-17	18	31,969	62,364	23,804,266	230,057	
May-17	18	47,265	73,909	25,647,160	230,057	
June-17	18	44,267	73,220	25,085,584	230,057	
July-17	19	49,154	74,281	26,133,815	230,056	
August-17	19	49,203	74,160	26,239,173	230,056	

Program Summary		Nominal		Present Value		Avoided Cost Version	
Proposer Name		SDG&E				8/4/2011	
Program Name		SDG&E Core				2/17/2012	
Total Program Budget (\$)		\$ 152,469,451		\$ 144,090,999		Base Year	
Net Participant Cost (\$)				\$ 71,574,195		2013	
						SDG&E 2013 v1c4-Draft.xls	
September-17	19	48,604	74,213	25,603,149	230,056		
October-17	20	45,141	64,438	25,131,099	308,190		
November-17	20	36,886	61,935	23,603,068	308,190		
December-17	20	36,815	61,218	24,036,211	308,190		
January-18	21	38,338	62,214	24,152,202	308,189		
February-18	21	39,672	62,023	23,243,731	308,189		
March-18	21	42,113	61,751	24,257,014	308,189		
April-18	22	31,654	61,862	23,585,769	227,682		
May-18	22	46,761	73,388	25,410,202	227,682		
June-18	22	43,763	72,700	24,848,810	227,682		
July-18	23	47,728	72,039	25,319,602	225,309		
August-18	23	47,792	71,942	25,424,545	225,309		
September-18	23	47,227	71,984	24,819,214	225,309		
October-18	24	41,088	59,898	23,574,435	326,382		
November-18	24	34,139	57,619	22,179,581	326,382		
December-18	24	34,066	56,838	22,516,623	326,382		
January-19	25	33,942	55,650	21,918,233	339,031		
February-19	25	34,959	55,452	21,176,481	339,031		
March-19	25	36,692	55,241	22,020,578	339,031		
April-19	26	28,085	53,562	20,944,087	218,217		
May-19	26	42,427	65,208	22,644,163	218,217		
June-19	26	39,975	65,076	22,310,606	218,217		
July-19	27	42,926	64,059	22,542,205	215,870		
August-19	27	43,045	64,057	22,645,508	215,870		
September-19	27	42,615	64,052	22,161,743	215,870		
October-19	28	33,221	51,059	20,601,136	376,948		
November-19	28	28,833	49,218	19,467,413	376,948		
December-19	28	28,755	48,313	19,616,022	376,948		
January-20	29	28,060	46,820	18,931,609	389,451		
February-20	29	28,668	46,614	18,405,611	389,451		
March-20	29	29,486	46,482	19,030,762	389,451		
April-20	30	24,111	44,604	18,074,202	211,105		
May-20	30	37,376	56,288	19,615,471	211,105		
June-20	30	35,472	56,714	19,510,494	211,105		
July-20	31	38,356	56,882	20,059,899	211,032		
August-20	31	38,522	56,957	20,161,868	211,032		
September-20	31	38,202	56,914	19,777,001	211,032		
October-20	32	28,024	45,142	18,612,668	409,566		
November-20	32	25,223	43,573	17,640,851	409,566		
December-20	32	25,142	42,590	17,672,628	409,566		
January-21	33	25,310	42,721	17,558,079	409,946		
February-21	33	25,746	42,511	17,123,254	409,946		
March-21	33	26,176	42,413	17,655,882	409,946		
April-21	34	22,835	42,175	17,238,816	210,888		
May-21	34	35,398	53,609	18,670,650	210,888		
June-21	34	33,587	54,131	18,604,356	210,888		
July-21	35	36,330	54,262	19,123,144	210,888		
August-21	35	36,505	54,354	19,224,832	210,888		
September-21	35	36,208	54,302	18,860,789	210,888		
October-21	36	26,045	42,656	17,737,954	410,520		
November-21	36	23,687	41,162	16,811,270	410,520		
December-21	36	23,605	40,158	16,810,479	410,520		
January-22	37	23,754	40,316	16,718,615	410,588		
February-22	37	24,118	40,105	16,321,420	410,588		
March-22	37	24,388	40,020	16,815,861	410,588		
April-22	38	21,928	40,362	16,623,956	210,888		
May-22	38	34,038	51,729	17,998,581	210,888		
June-22	38	32,296	52,321	17,961,213	210,888		
July-22	39	35,227	52,865	18,601,276	210,888		
August-22	39	35,406	52,965	18,702,823	210,888		
September-22	39	35,121	52,910	18,349,172	210,888		
October-22	40	25,317	41,571	17,347,774	410,961		
November-22	40	23,069	40,097	16,432,362	410,961		
December-22	40	22,987	39,088	16,423,436	410,961		
January-23	41	23,323	39,557	16,426,867	411,268		
February-23	41	23,686	39,346	16,029,672	411,268		
March-23	41	23,957	39,261	16,524,113	411,268		
April-23	42	20,535	37,911	15,661,997	202,450		
May-23	42	32,353	49,276	16,998,279	202,450		
June-23	42	30,650	49,854	16,977,627	202,450		
July-23	43	32,182	48,490	16,795,542	194,011		
August-23	43	32,346	48,648	16,885,948	194,011		
September-23	43	32,103	48,604	16,608,818	194,011		
October-23	44	20,145	35,342	14,804,053	389,436		
November-23	44	19,118	34,274	14,147,241	389,436		
December-23	44	19,080	33,332	14,077,407	389,436		

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Total Program Budget (\$)	\$ 152,469,451	\$ 144,090,999
Net Participant Cost (\$)		\$ 71,574,195

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Program Impacts (Gross)					
	Wtd Annual Gross		Wtd Annual		Wtd User
	kWh	Lifecycle Gross kWh	Gross Therms	Lifecycle Gross Therms	
2013	283,192,950	3,211,335,292	2,529,187	45,089,590	39,840
2014	309,457,847	3,782,640,622	2,600,166	45,700,375	47,126
2013-2014	592,650,796	6,993,975,914	5,129,353	90,789,965	86,966

Wtd Avg Emissions Reductions (Gross)						
Annual Reductions	Electric Reductions			Gas Reductions		
	CO2 (tons)	NOX (lbs)	PM-10 (lbs)	CO2 (tons)	NOX (lbs)	
2013	144,665	35,387	19,052	14,796	33,578	* annual reductions are the units implemented in the year, times the annual emission reduction for the measure, weighted for split baseline performance
2014	157,173	38,227	20,727	15,211	33,886	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Annual	301,838	73,615	39,779	30,007	67,464	
Lifecycle Reductions						
2013	1,639,090	400,614	215,906	274,299	611,556	
2014	1,918,251	465,839	253,057	277,422	609,722	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Lifecycle	3,557,341	866,452	468,963	551,720	1,221,278	

Wtd Avg Reductions based on total annual installations (Gross)					
	Wtd Avg Annual Gross kWh	Wtd Avg Lifecycle Gross kWh	Wtd Avg Annual Gross Therms	Wtd Avg Lifecycle Gross Therms	Wtd Avg User Entered kW
2013	283,192,950	3,211,335,292	2,529,187	45,089,590	39,840
2014	309,457,847	3,782,640,622	2,600,166	45,700,375	47,126
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	-	-	-	-
2023	-	-	-	-	-
Total	592,650,796	6,993,975,914	5,129,353	90,789,965	86,966

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Core	
Total Program Budget (\$)	\$ 152,469,451	\$ 144,090,999
Net Participant Cost (\$)		\$ 71,574,195

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Gross Savings for Goal Attainment - kWh						
	1st Year Annual Savings kWh	Decay of single or first baseline kWh	2nd Baseline Savings kWh	2nd Baseline Decay kWh	Total Cumulative kWh	Net Annual Savings kWh
2013	298,803,925		-	-	298,803,925	298,803,925
2014	645,421,009	-23086.3931	-	-	645,397,923	346,593,998
2015	645,421,009	-17439555.86	7,948,753	-	635,930,207	(9,467,716)
2016	645,421,009	-78584066.84	35,184,044	-	602,020,987	(33,909,220)
2017	645,421,009	-110542510.6	48,716,116	-	583,594,614	(18,426,372)
2018	645,421,009	-127515052.9	50,169,991	-	568,075,947	(15,518,667)
2019	645,421,009	-165267918.8	52,510,714	-	532,663,805	(35,412,143)
2020	645,421,009	-196650684.5	55,090,098	-	503,860,423	(28,803,382)
2021	645,421,009	-213788657.6	57,068,879	-	488,701,231	(15,159,193)
2022	645,421,009	-222778655.8	57,461,430	-	480,103,784	(8,597,447)

Gross Savings for Goal Attainment - kW						
	1st Year Annual Savings kW	Decay or single or first baseline kW	2nd Baseline Savings kW	2nd Baseline Decay kW	Total Cumulative kW	Net Annual Savings kW
2013	42,292		-	-	42,292	42,292
2014	95,513	-4.822194436	-	-	95,508	53,216
2015	95,513	-3104.46826	1,414	-	93,823	(1,685)
2016	95,513	-13775.16035	6,122	-	87,860	(5,963)
2017	95,513	-19366.52341	8,445	-	84,591	(3,269)
2018	95,513	-21092.04573	8,563	-	82,984	(1,608)
2019	95,513	-25049.02389	8,754	-	79,218	(3,766)
2020	95,513	-29127.84706	9,019	-	75,404	(3,814)
2021	95,513	-32151.83957	9,242	-	72,604	(2,800)
2022	95,513	-33786.81496	9,287	-	71,013	(1,591)

Gross Savings for Goal Attainment - Therms						
	1st Year Annual Savings Therms	Decay of single or first baseline Therms	2nd Baseline Savings Therms	2nd Baseline Decay Therms	Total Cumulative Therms	Net Annual Savings Therms
2013	2,685,196		-	-	2,685,196	2,685,196
2014	5,434,597	55.1823425	-	-	5,434,652	2,749,456
2015	5,434,597	9217.088302	(2,716)	-	5,441,098	6,446
2016	5,434,597	33123.1664	(6,779)	-	5,460,941	19,844
2017	5,434,597	48794.89136	(8,238)	-	5,475,154	14,212
2018	5,434,597	-133655.3065	57,677	-	5,358,619	(116,535)
2019	5,434,597	-242119.3364	160,241	-	5,352,719	(5,900)
2020	5,434,597	-172236.7902	198,758	-	5,461,119	108,400
2021	5,434,597	-166233.3565	199,591	-	5,467,955	6,836
2022	5,434,597	-163693.118	199,757	-	5,470,661	2,705

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Partnership Programs	
Total Program Budget (\$)	\$ 17,577,479	\$ 16,973,541
Net Participant Cost (\$)		\$ -

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Program Impacts							
	Wtd Annual Net kWh	Lifecycle Net kWh	Wtd Annual Net Therms	Lifecycle Net Therms	Wtd Net Jul-Sept Pk** (kW)	Wtd Net Dec-Feb Pk** (kW)	Wtd User Entered kW
2013	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-
2013-2014	-	-	-	-	-	-	-

Cost Effectiveness (Lifecycle Present Value Dollars)								
	Cost	Electric	Benefits			Benefit - Cost		Notes
			Gas	Incentives	NPV	B/C Ratio		
Program TRC (\$)	\$ 16,973,541	\$0	\$0	NA	(\$16,973,541)	-	*1	
Program PAC (\$)	\$ 16,973,541	\$0	\$0	NA	(\$16,973,541)	-	*1,2	
Program RIM (\$)	\$ 16,973,541	\$0	\$0	NA	(\$16,973,541)	-	*1	

*1 B/C Ratio is an approximation because any supply cost increases are treated as negative benefits rather than as a cost as in the Standard Practice Manual

*2 PAC benefits include environmental costs. This is to be consistent with the TRC benefits, but is not strictly consistent with the Standard Practice Manual.

Levelized Cost and Benefit (All Measures Installed through 2023)					
	Discounted Savings			Benefit - Cost	
	kWh	Therms	Cost	Benefits	NPV
TRC (\$/kWh)	-	-	#DIV/0!	#DIV/0!	#DIV/0!
PAC (\$/kWh)	-	-	#DIV/0!	#DIV/0!	#DIV/0!
RIM (\$/kWh)	-	-	#DIV/0!	#DIV/0!	#DIV/0!
TRC (\$/therm)	-	-	#DIV/0!	#DIV/0!	#DIV/0!
PAC (\$/therm)	-	-	#DIV/0!	#DIV/0!	#DIV/0!
RIM (\$/therm)	-	-	#DIV/0!	#DIV/0!	#DIV/0!

Wtd Avg Emissions Reductions						
	Electric Reductions			Gas Reductions		
	CO2 (tons)	NOX (lbs)	PM-10 (lbs)	CO2 (tons)	NOX (lbs)	
Annual Reductions						
2013	-	-	-	-	-	* annual reductions are the units implemented in the year, times the annual emission reduction for the measure, weighted for dual baseline.
2014	-	-	-	-	-	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Annual	-	-	-	-	-	
Lifecycle Reductions						
2013	-	-	-	-	-	
2014	-	-	-	-	-	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Lifecycle	-	-	-	-	-	

Reductions based on total annual installations								
	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	Net Annual NCP (kW)
2013	-	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-
2019	-	-	-	-	-	-	-	-
2020	-	-	-	-	-	-	-	-
2021	-	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-	-
2023	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Partnership Programs	
Total Program Budget (\$)	\$ 17,577,479	\$ 16,973,541
Net Participant Cost (\$)		\$ -

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Wtd Average Net Impacts by Sector (All Measures Installed through 2023)

	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	-	-	-	-	-	-	-	#DIV/0!
RES	-	-	-	-	-	-	-	-
NON_RES	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-
Commercial	-	-	-	-	-	-	-	-
Industrial	-	-	-	-	-	-	-	-
Agricultural	-	-	-	-	-	-	-	-
Not Used	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
Other and unspecified	-	-	-	-	-	-	-	#DIV/0!

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.

** These values are only approximations if there are dual baseline measures in the program

Net Impacts by CPUC End Use Categories (All Measures Installed through 2023)

	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	-	-	-	-	-	-	-	(16,973,541)
Clothes Dryer	-	-	-	-	-	-	-	-
Clothes Washer	-	-	-	-	-	-	-	-
Consumer Electronics	-	-	-	-	-	-	-	-
Cooking	-	-	-	-	-	-	-	-
Dishwasher	-	-	-	-	-	-	-	-
Other Appliance	-	-	-	-	-	-	-	-
Office Equipment	-	-	-	-	-	-	-	-
Building shell	-	-	-	-	-	-	-	-
Space Cooling	-	-	-	-	-	-	-	-
Space Heating	-	-	-	-	-	-	-	-
Ventilation	-	-	-	-	-	-	-	-
Interior Lighting	-	-	-	-	-	-	-	-
Exterior Lighting	-	-	-	-	-	-	-	-
Daylighting	-	-	-	-	-	-	-	-
Motors	-	-	-	-	-	-	-	-
Process	-	-	-	-	-	-	-	-
Compressed Air	-	-	-	-	-	-	-	-
Food Processor	-	-	-	-	-	-	-	-
Refrigeration	-	-	-	-	-	-	-	-
Freezers	-	-	-	-	-	-	-	-
Pumps	-	-	-	-	-	-	-	-
Pool Pump	-	-	-	-	-	-	-	-
Domestic Hot Water	-	-	-	-	-	-	-	-
Water Heating	-	-	-	-	-	-	-	-
Other or unspecified	-	-	-	-	-	-	-	(16,973,541)

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.

** These values are only approximations if there are dual baseline measures in the program

Net Impacts by Climate Zone (All Measures Installed through 2023)

	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	-	-	-	-	-	-	-	#DIV/0!
7	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
System	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	#DIV/0!
0	-	-	-	-	-	-	-	#DIV/0!
0	-	-	-	-	-	-	-	#DIV/0!
0	-	-	-	-	-	-	-	#DIV/0!
0	-	-	-	-	-	-	-	#DIV/0!
0	-	-	-	-	-	-	-	#DIV/0!

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Partnership Programs	
Total Program Budget (\$)	\$ 17,577,479	\$ 16,973,541
Net Participant Cost (\$)		\$ -

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Persistent reductions in the summer (3rd Qtr) or winter (4th Qtr) of each year		
	Net July-Sept Peak (kW)	Net Annual Dec-Feb (kW)
2013	-	-
2014	-	-
2015	-	-
2016	-	-
2017	-	-
2018	-	-
2019	-	-
2020	-	-
2021	-	-
2022	-	-
2023	-	-
2024	-	-

These values are only approximations if there are dual baseline measures in the program

Monthly Impacts						
First Year for Impact Table:	2013	These values are only approximations if there are dual baseline measures in the program				
	Quarter	Hour Avg or TOU Peak	Net Monthly NCP (kW)	Monthly Net kWh	Monthly Net Therms	
January-13	1	-	-	-	-	-
February-13	1	-	-	-	-	-
March-13	1	-	-	-	-	-
April-13	2	-	-	-	-	-
May-13	2	-	-	-	-	-
June-13	2	-	-	-	-	-
July-13	3	-	-	-	-	-
August-13	3	-	-	-	-	-
September-13	3	-	-	-	-	-
October-13	4	-	-	-	-	-
November-13	4	-	-	-	-	-
December-13	4	-	-	-	-	-
January-14	5	-	-	-	-	-
February-14	5	-	-	-	-	-
March-14	5	-	-	-	-	-
April-14	6	-	-	-	-	-
May-14	6	-	-	-	-	-
June-14	6	-	-	-	-	-
July-14	7	-	-	-	-	-
August-14	7	-	-	-	-	-
September-14	7	-	-	-	-	-
October-14	8	-	-	-	-	-
November-14	8	-	-	-	-	-
December-14	8	-	-	-	-	-
January-15	9	-	-	-	-	-
February-15	9	-	-	-	-	-
March-15	9	-	-	-	-	-
April-15	10	-	-	-	-	-
May-15	10	-	-	-	-	-
June-15	10	-	-	-	-	-
July-15	11	-	-	-	-	-
August-15	11	-	-	-	-	-
September-15	11	-	-	-	-	-
October-15	12	-	-	-	-	-
November-15	12	-	-	-	-	-
December-15	12	-	-	-	-	-
January-16	13	-	-	-	-	-
February-16	13	-	-	-	-	-
March-16	13	-	-	-	-	-
April-16	14	-	-	-	-	-
May-16	14	-	-	-	-	-
June-16	14	-	-	-	-	-
July-16	15	-	-	-	-	-
August-16	15	-	-	-	-	-
September-16	15	-	-	-	-	-
October-16	16	-	-	-	-	-
November-16	16	-	-	-	-	-
December-16	16	-	-	-	-	-
January-17	17	-	-	-	-	-
February-17	17	-	-	-	-	-
March-17	17	-	-	-	-	-
April-17	18	-	-	-	-	-
May-17	18	-	-	-	-	-
June-17	18	-	-	-	-	-
July-17	19	-	-	-	-	-
August-17	19	-	-	-	-	-

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Partnership Programs	
Total Program Budget (\$)	\$ 17,577,479	\$ 16,973,541
Net Participant Cost (\$)		\$ -

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September-17	19	-	-	-	-
October-17	20	-	-	-	-
November-17	20	-	-	-	-
December-17	20	-	-	-	-
January-18	21	-	-	-	-
February-18	21	-	-	-	-
March-18	21	-	-	-	-
April-18	22	-	-	-	-
May-18	22	-	-	-	-
June-18	22	-	-	-	-
July-18	23	-	-	-	-
August-18	23	-	-	-	-
September-18	23	-	-	-	-
October-18	24	-	-	-	-
November-18	24	-	-	-	-
December-18	24	-	-	-	-
January-19	25	-	-	-	-
February-19	25	-	-	-	-
March-19	25	-	-	-	-
April-19	26	-	-	-	-
May-19	26	-	-	-	-
June-19	26	-	-	-	-
July-19	27	-	-	-	-
August-19	27	-	-	-	-
September-19	27	-	-	-	-
October-19	28	-	-	-	-
November-19	28	-	-	-	-
December-19	28	-	-	-	-
January-20	29	-	-	-	-
February-20	29	-	-	-	-
March-20	29	-	-	-	-
April-20	30	-	-	-	-
May-20	30	-	-	-	-
June-20	30	-	-	-	-
July-20	31	-	-	-	-
August-20	31	-	-	-	-
September-20	31	-	-	-	-
October-20	32	-	-	-	-
November-20	32	-	-	-	-
December-20	32	-	-	-	-
January-21	33	-	-	-	-
February-21	33	-	-	-	-
March-21	33	-	-	-	-
April-21	34	-	-	-	-
May-21	34	-	-	-	-
June-21	34	-	-	-	-
July-21	35	-	-	-	-
August-21	35	-	-	-	-
September-21	35	-	-	-	-
October-21	36	-	-	-	-
November-21	36	-	-	-	-
December-21	36	-	-	-	-
January-22	37	-	-	-	-
February-22	37	-	-	-	-
March-22	37	-	-	-	-
April-22	38	-	-	-	-
May-22	38	-	-	-	-
June-22	38	-	-	-	-
July-22	39	-	-	-	-
August-22	39	-	-	-	-
September-22	39	-	-	-	-
October-22	40	-	-	-	-
November-22	40	-	-	-	-
December-22	40	-	-	-	-
January-23	41	-	-	-	-
February-23	41	-	-	-	-
March-23	41	-	-	-	-
April-23	42	-	-	-	-
May-23	42	-	-	-	-
June-23	42	-	-	-	-
July-23	43	-	-	-	-
August-23	43	-	-	-	-
September-23	43	-	-	-	-
October-23	44	-	-	-	-
November-23	44	-	-	-	-
December-23	44	-	-	-	-

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Partnership Programs	
Total Program Budget (\$)	\$ 17,577,479	\$ 16,973,541
Net Participant Cost (\$)		\$ -

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Program Impacts (Gross)					
	Wtd Annual Gross		Wtd Annual Gross Therms	Lifecycle Gross Therms	Wtd User Entered kW
	kWh	Lifecycle Gross kWh			
2013	-	-	-	-	-
2014	-	-	-	-	-
2013-2014	-	-	-	-	-

Wtd Avg Emissions Reductions (Gross)					
Annual Reductions	Electric Reductions			Gas Reductions	
	CO2 (tons)	NOX (lbs)	PM-10 (lbs)	CO2 (tons)	NOX (lbs)
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	-	-	-	-
2023	-	-	-	-	-
<i>Total Annual</i>	-	-	-	-	-
Lifecycle Reductions					
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	-	-	-	-
2023	-	-	-	-	-
<i>Total Lifecycle</i>	-	-	-	-	-

* annual reductions are the units implemented in the year, times the annual emission reduction for the measure, weighted for split baseline performance

Wtd Avg Reductions based on total annual installations (Gross)					
	Wtd Avg Annual Gross kWh	Wtd Avg Lifecycle Gross kWh	Wtd Avg	Wtd Avg	Wtd Avg User Entered kW
			Annual Gross Therms	Lifecycle Gross Therms	
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	-	-	-	-
2023	-	-	-	-	-
Total	-	-	-	-	-

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Partnership Programs	
Total Program Budget (\$)	\$ 17,577,479	\$ 16,973,541
Net Participant Cost (\$)		\$ -

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Gross Savings for Goal Attainment - kWh						
	1st Year Annual Savings	Decay of single or first baseline	2nd Baseline Savings	2nd Baseline Decay	Total Cumulative	Net Annual Savings
	kWh	kWh	kWh	kWh	kWh	kWh
2013	-	-	-	-	-	-
2014	-	0	-	-	-	-
2015	-	0	-	-	-	-
2016	-	0	-	-	-	-
2017	-	0	-	-	-	-
2018	-	0	-	-	-	-
2019	-	0	-	-	-	-
2020	-	0	-	-	-	-
2021	-	0	-	-	-	-
2022	-	0	-	-	-	-

Gross Savings for Goal Attainment - kW						
	1st Year Annual Savings	Decay of single or first baseline	2nd Baseline Savings	2nd Baseline Decay	Total Cumulative	Net Annual Savings
	kW	kW	kW	kW	kW	kW
2013	-	-	-	-	-	-
2014	-	0	-	-	-	-
2015	-	0	-	-	-	-
2016	-	0	-	-	-	-
2017	-	0	-	-	-	-
2018	-	0	-	-	-	-
2019	-	0	-	-	-	-
2020	-	0	-	-	-	-
2021	-	0	-	-	-	-
2022	-	0	-	-	-	-

Gross Savings for Goal Attainment - Therms						
	1st Year Annual Savings	Decay of single or first baseline	2nd Baseline Savings	2nd Baseline Decay	Total Cumulative	Net Annual Savings
	Therms	Therms	Therms	Therms	Therms	Therms
2013	-	-	-	-	-	-
2014	-	0	-	-	-	-
2015	-	0	-	-	-	-
2016	-	0	-	-	-	-
2017	-	0	-	-	-	-
2018	-	0	-	-	-	-
2019	-	0	-	-	-	-
2020	-	0	-	-	-	-
2021	-	0	-	-	-	-
2022	-	0	-	-	-	-

Program Summary	Nominal	Present Value	Avoided Cost Version
Proposer Name	SDG&E		8/4/2011
Program Name	SDG&E 3rd Party		2/17/2012
Total Program Budget (\$)	\$ 48,808,800	\$ 45,748,538	Base Year
Net Participant Cost (\$)		\$ 715,264	2013
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Program Impacts							
	Wtd Annual Net kWh	Lifecycle Net kWh	Wtd Annual Net Therms	Lifecycle Net Therms	Wtd Net Jul-Sept Pk** (kW)	Wtd Net Dec-Feb Pk** (kW)	Wtd User Entered kW
2013	30,597,209	282,026,949	130,216	2,528,155	7,525	3,908	7,766
2014	29,794,209	277,196,197	119,491	2,370,667	7,256	3,806	7,461
2013-2014	60,391,417	559,223,146	249,707	4,898,821	14,781	7,714	15,228

Cost Effectiveness (Lifecycle Present Value Dollars)							
	Cost	Electric	Gas	Incentives	Benefit - Cost NPV	B/C Ratio	Notes
Program TRC (\$)	\$ 46,463,803	\$51,729,648	\$3,188,696	NA	\$8,454,542	1.18	*1
Program PAC (\$)	\$ 45,748,538	\$51,729,648	\$3,188,696	NA	\$9,169,806	1.20	*1,2
Program RIM (\$)	\$ 106,367,233	\$51,729,648	\$3,188,696	NA	(\$51,448,888)	0.52	*1

*1 B/C Ratio is an approximation because any supply cost increases are treated as negative benefits rather than as a cost as in the Standard Practice Manual
*2 PAC benefits include environmental costs. This is to be consistent with the TRC benefits, but is not strictly consistent with the Standard Practice Manual.

Levelized Cost and Benefit (All Measures Installed through 2023)							
	Discounted Savings			Benefit - Cost			
	kWh	Therms	Cost	Benefits	NPV		
TRC (\$/kWh)	341,790,948		\$ 0.1244	\$ 0.1513	\$ 0.0270		
PAC (\$/kWh)	341,790,948		\$ 0.1223	\$ 0.1513	\$ 0.0290		
RIM (\$/kWh)	341,790,948		\$ 0.2931	\$ 0.1513	\$ (0.1418)		
TRC (\$/therm)		2,856,720	\$ 1.23	\$ 1.12	\$ (0.1144)		
PAC (\$/therm)		2,856,720	\$ 1.23	\$ 1.12	\$ (0.1128)		
RIM (\$/therm)		2,856,720	\$ 2.16	\$ 1.12	\$ (1.0457)		

Wtd Avg Emissions Reductions						
Annual Reductions	Electric Reductions			Gas Reductions		
	CO2 (tons)	NOX (lbs)	PM-10 (lbs)	CO2 (tons)	NOX (lbs)	
2013	15,555	3,787	2,051	762	742	* annual reductions are the units implemented in the year, times the annual emission reduction for the measure, weighted for dual baseline.
2014	15,148	3,688	1,997	699	756	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Annual	30,703	7,475	4,048	1,461	1,499	
Lifecycle Reductions						
2013	143,362	34,898	18,902	14,790	20,126	
2014	140,918	34,306	18,579	13,868	19,533	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Lifecycle	284,279	69,204	37,481	28,658	39,659	

Reductions based on total annual installations								
	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	Net Annual NCP (kW)
2013	30,597,209	282,026,949	130,216	2,528,155	7,525	3,908	7,766	4,790
2014	29,794,209	277,196,197	119,491	2,370,667	7,256	3,806	7,461	9,360
2015	-	-	-	-	-	-	-	4,402
2016	-	-	-	-	-	-	-	(1,291)
2017	-	-	-	-	-	-	-	(3,216)
2018	-	-	-	-	-	-	-	(2,423)
2019	-	-	-	-	-	-	-	(1,231)
2020	-	-	-	-	-	-	-	(699)
2021	-	-	-	-	-	-	-	(2)
2022	-	-	-	-	-	-	-	(3)
2023	-	-	-	-	-	-	-	(720)
Total	60,391,417	559,223,146	249,707	4,898,821	14,781	7,714	15,228	8,969

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E 3rd Party	
Total Program Budget (\$)	\$ 48,808,800	\$ 45,748,538
Net Participant Cost (\$)		\$ 715,264

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Wtd Average Net Impacts by Sector (All Measures Installed through 2023)

	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	60,391,417	559,223,146	249,707	4,898,821	14,781	7,714	15,228	8,454,542
RES	-	-	-	-	-	-	-	-
NON_RES	-	-	-	-	-	-	-	-
Residential	16,369,613	108,545,185	189,764	4,500,816	3,444	1,972	5,902	(872,588)
Commercial	44,021,804	450,677,962	59,943	398,005	11,162	5,613	9,325	9,327,130
Industrial	-	-	-	-	-	-	-	-
Agricultural	-	-	-	-	-	-	-	-
Not Used	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
Other and unspecified	-	-	-	-	174	128	-	-

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.

**These values are only approximations if there are dual baseline measures in the program

Net Impacts by CPUC End Use Categories (All Measures Installed through 2023)

	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	60,391,417	559,223,146	249,707	4,898,821	14,781	7,714	15,228	8,454,542
Clothes Dryer	-	-	-	-	-	-	-	-
Clothes Washer	-	-	-	-	-	-	-	-
Consumer Electronics	-	-	-	-	-	-	-	-
Cooking	-	-	-	-	-	-	-	-
Dishwasher	-	-	-	-	-	-	-	-
Other Appliance	-	-	-	-	-	-	-	-
Office Equipment	11,239,565	163,253,387	(26,069)	(391,037)	2,173	1,359	2,555	995,774
Building shell	-	-	-	-	-	-	-	-
Space Cooling	23,349,041	164,475,444	140,647	2,308,157	8,801	3,032	5,523	5,539,053
Space Heating	1,411,269	25,402,851	131,455	2,366,195	-	129	2,315	586,425
Ventilation	-	-	-	-	-	-	-	-
Interior Lighting	12,257,942	146,296,144	(58,625)	(536,836)	1,757	1,600	2,517	2,468,296
Exterior Lighting	-	-	-	-	-	-	-	-
Daylighting	-	-	-	-	-	-	-	-
Motors	-	-	-	-	-	-	-	-
Process	-	-	-	-	-	-	-	-
Compressed Air	-	-	-	-	-	-	-	-
Food Processor	-	-	-	-	-	-	-	-
Refrigeration	12,133,600	59,795,321	(148,518)	(716,942)	1,875	1,466	2,317	(1,172,648)
Freezers	-	-	-	-	-	-	-	-
Pumps	-	-	-	-	-	-	-	-
Pool Pump	-	-	-	-	-	-	-	-
Domestic Hot Water	-	-	-	-	-	-	-	-
Water Heating	-	-	28,405	284,052	-	-	-	(17,623)
Other or unspecified	-	-	182,411	1,585,233	174	128	-	55,266

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.

**These values are only approximations if there are dual baseline measures in the program

Net Impacts by Climate Zone (All Measures Installed through 2023)

	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	60,391,417	559,223,146	249,707	4,898,821	14,606	7,586	15,228	8,454,542
7	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
System	60,391,417	559,223,146	249,707	4,898,821	14,606	7,586	15,228	8,454,542
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E 3rd Party	
Total Program Budget (\$)	\$ 48,808,800	\$ 45,748,538
Net Participant Cost (\$)		\$ 715,264

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Persistent reductions in the summer (3rd Qtr) or winter (4th Qtr) of each year		
	Net July-Sept Peak (kW)	Net Annual Dec-Feb (kW)
2013	3,848	4,025
2014	11,351	7,898
2015	14,884	7,686
2016	13,442	6,726
2017	11,009	5,867
2018	9,413	5,025
2019	8,464	4,268
2020	7,998	4,221
2021	7,997	4,219
2022	7,994	4,216
2023	7,019	3,467
2024	4,966	2,607

These values are only approximations if there are dual baseline measures in the program

Monthly Impacts						
First Year for Impact Table:	2013	These values are only approximations if there are dual baseline measures in the program				
	Quarter	Hour Avg or TOU Peak	Net Monthly NCP (kW)	Monthly Net kWh	Monthly Net Therms	
January-13	1	-	-	-	-	-
February-13	1	-	-	-	-	-
March-13	1	-	-	-	-	-
April-13	2	971	1,467	582,397	4,165	
May-13	2	1,879	2,308	737,965	4,165	
June-13	2	1,748	2,370	737,000	4,165	
July-13	3	3,804	4,723	1,536,873	8,330	
August-13	3	3,887	4,785	1,555,814	8,330	
September-13	3	3,854	4,790	1,528,735	8,330	
October-13	4	2,960	4,663	1,885,692	3,512	
November-13	4	3,030	4,426	1,744,147	3,512	
December-13	4	3,006	4,280	1,716,457	3,512	
January-14	5	4,037	5,815	2,313,599	4,683	
February-14	5	4,030	5,808	2,241,155	4,683	
March-14	5	3,857	5,758	2,337,485	4,683	
April-14	6	4,816	7,293	2,894,547	20,610	
May-14	6	9,300	11,433	3,658,854	20,610	
June-14	6	8,644	11,740	3,653,941	20,610	
July-14	7	11,217	13,947	4,547,843	24,560	
August-14	7	11,467	14,135	4,604,628	24,560	
September-14	7	11,369	14,151	4,523,606	24,560	
October-14	8	6,791	10,754	4,346,751	7,505	
November-14	8	6,955	10,205	4,017,347	7,505	
December-14	8	6,900	9,866	3,952,832	7,505	
January-15	9	7,922	11,467	4,557,465	8,446	
February-15	9	7,907	11,454	4,412,707	8,446	
March-15	9	7,562	11,356	4,605,310	8,446	
April-15	10	7,579	11,505	4,567,734	32,459	
May-15	10	14,580	17,949	5,753,556	32,459	
June-15	10	13,554	18,438	5,746,868	32,459	
July-15	11	14,710	18,298	5,971,321	32,459	
August-15	11	15,034	18,533	6,045,057	32,459	
September-15	11	14,907	18,553	5,937,107	32,459	
October-15	12	7,635	12,008	4,867,913	8,805	
November-15	12	7,782	11,386	4,500,547	8,805	
December-15	12	7,718	11,011	4,430,845	8,805	
January-16	13	7,704	11,099	4,440,354	8,984	
February-16	13	7,704	11,089	4,300,907	8,984	
March-16	13	7,385	10,989	4,482,298	8,984	
April-16	14	7,194	10,897	4,351,061	33,001	
May-16	14	13,642	16,767	5,437,711	33,001	
June-16	14	12,770	17,262	5,440,728	33,001	
July-16	15	13,289	16,444	5,489,584	33,543	
August-16	15	13,578	16,612	5,555,386	33,543	
September-16	15	13,459	16,627	5,447,182	33,543	
October-16	16	6,932	10,990	4,463,319	11,201	
November-16	16	6,995	10,376	4,114,115	11,201	
December-16	16	6,928	10,024	4,052,570	11,201	
January-17	17	6,735	9,924	3,978,567	11,940	
February-17	17	6,756	9,917	3,846,341	11,940	
March-17	17	6,473	9,814	4,012,487	11,940	
April-17	18	6,273	9,740	3,887,532	35,083	
May-17	18	11,120	13,554	4,650,944	35,083	
June-17	18	10,400	14,046	4,662,439	35,083	
July-17	19	10,873	13,331	4,711,917	35,539	
August-17	19	11,133	13,451	4,770,710	35,539	
September-17	19	11,020	13,464	4,666,187	35,539	

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E 3rd Party	
Total Program Budget (\$)	\$ 48,808,800	\$ 45,748,538
Net Participant Cost (\$)		\$ 715,264

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October-17	20	6,060	9,922	4,003,326	15,163
November-17	20	6,094	9,331	3,676,889	15,163
December-17	20	6,030	9,003	3,621,298	15,163
January-18	21	5,876	8,974	3,563,504	16,179
February-18	21	5,895	8,968	3,440,770	16,179
March-18	21	5,635	8,871	3,595,563	16,179
April-18	22	5,461	8,833	3,470,819	35,772
May-18	22	9,283	11,199	4,014,787	35,772
June-18	22	8,560	11,623	4,016,277	35,772
July-18	23	9,287	11,317	4,067,236	35,093
August-18	23	9,530	11,455	4,119,707	35,093
September-18	23	9,421	11,483	4,041,003	35,093
October-18	24	5,112	8,766	3,443,220	24,895
November-18	24	5,267	8,298	3,198,724	24,895
December-18	24	5,226	8,029	3,149,797	24,895
January-19	25	5,048	7,900	3,048,452	28,045
February-19	25	5,016	7,895	2,972,630	28,045
March-19	25	4,801	7,834	3,081,798	28,045
April-19	26	4,657	7,725	2,959,621	33,055
May-19	26	8,549	10,116	3,503,640	33,055
June-19	26	7,778	10,393	3,485,306	33,055
July-19	27	8,352	10,083	3,482,089	32,375
August-19	27	8,569	10,253	3,524,967	32,375
September-19	27	8,470	10,300	3,488,545	32,375
October-19	28	4,146	7,570	2,877,303	35,869
November-19	28	4,478	7,242	2,725,734	35,869
December-19	28	4,462	7,035	2,680,714	35,869
January-20	29	4,302	6,917	2,594,919	38,476
February-20	29	4,223	6,912	2,560,453	38,476
March-20	29	4,030	6,881	2,629,264	38,476
April-20	30	4,103	6,917	2,603,214	31,017
May-20	30	8,034	9,329	3,146,506	31,017
June-20	30	7,240	9,518	3,118,481	31,017
July-20	31	7,892	9,453	3,194,834	31,017
August-20	31	8,098	9,639	3,233,388	31,017
September-20	31	8,005	9,694	3,217,294	31,017
October-20	32	3,848	7,211	2,719,678	39,210
November-20	32	4,247	6,921	2,592,663	39,210
December-20	32	4,236	6,728	2,546,706	39,210
January-21	33	4,255	6,847	2,572,844	39,210
February-21	33	4,172	6,842	2,540,423	39,210
March-21	33	3,971	6,812	2,607,158	39,210
April-21	34	4,102	6,916	2,602,736	31,017
May-21	34	8,033	9,328	3,146,007	31,017
June-21	34	7,239	9,517	3,117,982	31,017
July-21	35	7,890	9,452	3,193,837	31,017
August-21	35	8,097	9,637	3,232,391	31,017
September-21	35	8,003	9,692	3,216,297	31,017
October-21	36	3,846	7,209	2,718,244	39,211
November-21	36	4,245	6,918	2,591,229	39,211
December-21	36	4,234	6,726	2,545,272	39,211
January-22	37	4,252	6,844	2,570,932	39,211
February-22	37	4,170	6,839	2,538,511	39,211
March-22	37	3,968	6,809	2,605,246	39,211
April-22	38	4,099	6,913	2,600,824	31,017
May-22	38	8,030	9,325	3,144,014	31,017
June-22	38	7,236	9,514	3,115,989	31,017
July-22	39	7,887	9,449	3,191,844	31,017
August-22	39	8,093	9,634	3,230,398	31,017
September-22	39	8,000	9,689	3,214,304	31,017
October-22	40	3,843	7,206	2,716,332	39,211
November-22	40	4,242	6,916	2,589,317	39,211
December-22	40	4,232	6,723	2,543,360	39,211
January-23	41	4,250	6,841	2,569,019	39,211
February-23	41	4,167	6,836	2,536,599	39,211
March-23	41	3,965	6,806	2,603,334	39,211
April-23	42	3,909	6,705	2,511,918	29,279
May-23	42	7,561	8,789	2,976,174	29,279
June-23	42	6,765	8,969	2,946,479	29,279
July-23	43	6,913	8,341	2,846,526	27,542
August-23	43	7,118	8,538	2,884,710	27,542
September-23	43	7,027	8,587	2,871,070	27,542
October-23	44	3,276	6,534	2,442,504	32,149
November-23	44	3,676	6,291	2,325,417	32,149
December-23	44	3,670	6,118	2,281,497	32,149

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E 3rd Party	
Total Program Budget (\$)	\$ 48,808,800	\$ 45,748,538
Net Participant Cost (\$)		\$ 715,264

Avoided Cost Version
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2/17/2012
Base Year
2013
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Program Impacts (Gross)					
	Wtd Annual Gross kWh		Wtd Annual Lifecycle Gross kWh		Wtd User Entered kW
2013	40,351,194	349,558,817	114,454	2,945,240	10,330
2014	39,277,476	343,037,594	101,689	2,754,109	9,918
2013-2014	79,628,671	692,596,411	216,143	5,699,349	20,248

Wtd Avg Emissions Reductions (Gross)						
Annual Reductions	Electric Reductions			Gas Reductions		* annual reductions are the units implemented in the year, times the annual emission reduction for the measure, weighted for split baseline performance
	CO2 (tons)	NOX (lbs)	PM-10 (lbs)	CO2 (tons)	NOX (lbs)	
2013	20,498	4,986	2,703	670	455	
2014	19,954	4,854	2,631	595	474	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Annual	40,452	9,841	5,334	1,264	928	
Lifecycle Reductions						
2013	177,582	43,202	23,417	16,969	22,493	
2014	174,283	42,403	22,982	15,852	21,764	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Lifecycle	351,865	85,605	46,399	32,821	44,257	

Wtd Avg Reductions based on total annual installations (Gross)					
	Wtd Avg Annual Gross kWh	Wtd Avg Lifecycle Gross kWh	Wtd Avg Annual Gross Therms	Wtd Avg Lifecycle Gross Therms	Wtd Avg User Entered kW
2013	40,351,194	349,558,817	114,454	2,945,240	10,330
2014	39,277,476	343,037,594	101,689	2,754,109	9,918
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	-	-	-	-
2023	-	-	-	-	-
Total	79,628,671	692,596,411	216,143	5,699,349	20,248

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E 3rd Party	
Total Program Budget (\$)	\$ 48,808,800	\$ 45,748,538
Net Participant Cost (\$)		\$ 715,264

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Gross Savings for Goal Attainment - kWh						
	1st Year Annual Savings	Decay of single or first baseline	2nd Baseline Savings	2nd Baseline Decay	Total Cumulative	Net Annual Savings
	kWh	kWh	kWh	kWh	kWh	kWh
2013	41,368,340		-	-	41,368,340	41,368,340
2014	81,635,770	-211371.875	-	-	81,424,399	40,056,059
2015	81,635,770	-2012469.402	685,686	-	80,308,987	(1,115,412)
2016	81,635,770	-9823510.048	1,839,826	-	73,652,086	(6,656,901)
2017	81,635,770	-19434686.92	2,339,033	-	64,540,116	(9,111,970)
2018	81,635,770	-29485592.87	2,371,175	-	54,521,352	(10,018,764)
2019	81,635,770	-39908185.53	2,371,175	-	44,098,760	(10,422,593)
2020	81,635,770	-43845869.61	2,371,175	-	40,161,076	(3,937,684)
2021	81,635,770	-43863027.91	2,371,175	-	40,143,917	(17,158)
2022	81,635,770	-43890481.19	2,371,175	-	40,116,464	(27,453)

Gross Savings for Goal Attainment - kW						
	1st Year Annual Savings	Decay or single or first baseline	2nd Baseline Savings	2nd Baseline Decay	Total Cumulative	Net Annual Savings
	kW	kW	kW	kW	kW	kW
2013	10,611		-	-	10,611	10,611
2014	20,799	-61.875	-	-	20,737	10,125
2015	20,799	-503.426232	163	-	20,458	(279)
2016	20,799	-2450.53418	444	-	18,792	(1,666)
2017	20,799	-4837.407189	574	-	16,535	(2,257)
2018	20,799	-6879.914685	586	-	14,505	(2,031)
2019	20,799	-8754.519648	586	-	12,630	(1,875)
2020	20,799	-9447.038999	586	-	11,938	(693)
2021	20,799	-9449.376129	586	-	11,935	(2)
2022	20,799	-9453.115537	586	-	11,931	(4)

Gross Savings for Goal Attainment - Therms						
	1st Year Annual Savings	Decay of single or first baseline	2nd Baseline Savings	2nd Baseline Decay	Total Cumulative	Net Annual Savings
	Therms	Therms	Therms	Therms	Therms	Therms
2013	112,015		-	-	112,015	112,015
2014	211,311	0	-	-	211,311	99,296
2015	211,311	3826.905358	(1,806)	-	213,332	2,021
2016	211,311	32326.26337	(4,792)	-	238,846	25,514
2017	211,311	77918.75832	(6,023)	-	283,207	44,361
2018	211,311	161869.7257	(6,077)	-	367,104	83,897
2019	211,311	263416.6217	(6,077)	-	468,651	101,547
2020	211,311	303223.3138	(6,077)	-	508,457	39,807
2021	211,311	303223.6641	(6,077)	-	508,458	0
2022	211,311	303224.2245	(6,077)	-	508,458	1

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Portfolio	
Total Program Budget (\$)	\$ 218,855,730	\$ 206,813,078
Net Participant Cost (\$)		\$ 72,289,459

Avoided Cost Version
8/4/2011
2/17/2012
Base Year
2013
SDG&E 2013 v1c4-Draft.xls

Program Impacts							
	Wtd Annual Net kWh	Lifecycle Net kWh	Wtd Annual Net Therms	Lifecycle Net Therms	Wtd Net Jul-Sept Pk** (kW)	Wtd Net Dec-Feb Pk** (kW)	Wtd User Entered kW
2013	178,811,036	1,990,605,494	1,630,030	29,499,331	32,540	24,302	29,499
2014	187,955,550	2,211,113,177	1,655,025	29,643,475	32,682	22,918	31,627
2013-2014	366,766,586	4,201,718,671	3,285,055	59,142,805	65,222	47,220	61,126

Cost Effectiveness (Lifecycle Present Value Dollars)							
	Cost	Electric	Gas	Incentives	Benefit - Cost NPV	B/C Ratio	Notes
Program TRC (\$)	\$ 279,102,538	\$353,043,331	\$38,122,261	NA	\$112,063,055	1.40	*1
Program PAC (\$)	\$ 206,813,078	\$353,043,331	\$38,122,261	NA	\$184,352,514	1.89	*1,2
Program RIM (\$)	\$ 649,720,224	\$353,043,331	\$38,122,261	NA	(\$258,554,632)	0.60	*1

*1 B/C Ratio is an approximation because any supply cost increases are treated as negative benefits rather than as a cost as in the Standard Practice Manual
*2 PAC benefits include environmental costs. This is to be consistent with the TRC benefits, but is not strictly consistent with the Standard Practice Manual.

Levelized Cost and Benefit (All Measures Installed through 2023)						
	Discounted Savings			Benefit - Cost		
	kWh	Therms	Cost	Benefits	NPV	
TRC (\$/kWh)	2,493,822,274		\$ 0.0968	\$ 0.1416	\$ 0.0448	
PAC (\$/kWh)	2,493,822,274		\$ 0.0723	\$ 0.1416	\$ 0.0693	
RIM (\$/kWh)	2,493,822,274		\$ 0.2351	\$ 0.1416	\$ (0.0936)	
TRC (\$/therm)		34,457,887	\$ 0.99	\$ 1.11	\$ 0.1132	
PAC (\$/therm)		34,457,887	\$ 0.70	\$ 1.11	\$ 0.4080	
RIM (\$/therm)		34,457,887	\$ 1.84	\$ 1.11	\$ (0.7313)	

Wtd Avg Emissions Reductions						
Annual Reductions	Electric Reductions			Gas Reductions		
	CO2 (tons)	NOX (lbs)	PM-10 (lbs)	CO2 (tons)	NOX (lbs)	
2013	91,103	22,227	12,005	9,536	20,158	* annual reductions are the units implemented in the year, times the annual emission reduction for the measure, weighted for dual baseline.
2014	95,149	23,066	12,557	9,682	20,319	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Annual	186,252	45,293	24,563	19,218	40,477	
Lifecycle Reductions						
2013	1,013,297	247,004	133,557	172,571	364,536	
2014	1,116,946	270,187	147,481	173,414	363,193	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Lifecycle	2,130,243	517,191	281,039	345,985	727,729	

Reductions based on total annual installations								
	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	Net Annual NCP (kW)
2013	178,811,036	1,990,605,494	1,630,030	29,499,331	32,540	24,302	29,499	31,128
2014	187,955,550	2,211,113,177	1,655,025	29,643,475	32,682	22,918	31,627	43,911
2015	-	-	-	-	-	-	-	25,248
2016	-	-	-	-	-	-	-	(5,110)
2017	-	-	-	-	-	-	-	(7,500)
2018	-	-	-	-	-	-	-	(3,090)
2019	-	-	-	-	-	-	-	(9,119)
2020	-	-	-	-	-	-	-	(8,861)
2021	-	-	-	-	-	-	-	(2,613)
2022	-	-	-	-	-	-	-	(1,395)
2023	-	-	-	-	-	-	-	(3,776)
Total	366,766,586	4,201,718,671	3,285,055	59,142,805	65,222	47,220	61,126	58,823

Program Summary		Nominal	Present Value	Avoided Cost Version	
Proposer Name	SDG&E			8/4/2011	
Program Name	SDG&E Portfolio			2/17/2012	
Total Program Budget (\$)	\$ 218,855,730		\$ 206,813,078	Base Year	2013
Net Participant Cost (\$)			\$ 72,289,459	SDG&E 2013 v1c4-Draft.xls	

Wtd Average Net Impacts by Sector (All Measures Installed through 2023)								
	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	366,766,586	4,201,718,671	3,285,055	59,142,805	65,222	47,220	61,126	112,063,055
RES	81,711,985	862,021,159	(152,509)	(1,784,310)	11,406	13,877	9,359	37,289,309
NON_RES	-	-	-	-	-	-	-	-
Residential	63,986,053	489,549,362	570,847	16,284,643	12,872	9,094	13,050	(7,375,568)
Commercial	220,991,511	2,849,762,969	2,647,535	43,510,717	36,930	21,824	38,717	81,695,231
Industrial	-	-	7,375	44,252	-	-	-	20,301
Agricultural	77,036	385,181	209,909	1,049,545	38	4	-	418,208
Not Used	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
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0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-	-
Other and unspecified	-	-	1,898	37,959	3,976	2,422	-	15,574

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.
**These values are only approximations if there are dual baseline measures in the program

Net Impacts by CPUC End Use Categories (All Measures Installed through 2023)								
	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	366,766,586	4,201,718,671	3,285,055	59,142,805	65,222	47,220	61,126	112,063,055
Clothes Dryer	-	-	-	-	-	-	-	-
Clothes Washer	-	-	-	-	-	-	-	-
Consumer Electronics	-	-	-	-	-	-	-	-
Cooking	-	-	-	-	-	-	-	-
Dishwasher	-	-	-	-	-	-	-	-
Other Appliance	-	-	-	-	-	-	-	-
Office Equipment	25,946,773	327,834,397	(37,618)	(540,905)	5,015	3,137	5,258	2,341,431
Building shell	-	-	-	-	-	-	-	-
Space Cooling	53,947,648	655,391,248	1,096,768	18,010,399	20,033	5,883	16,179	13,694,425
Space Heating	1,510,728	26,656,828	164,740	3,021,091	-	138	2,345	24,584
Ventilation	12,679,778	136,916,394	130,995	1,419,125	1,699	1,513	1,189	2,173,212
Interior Lighting	179,153,878	1,983,286,205	(686,474)	(4,690,019)	25,611	26,341	25,672	67,679,531
Exterior Lighting	33,876,564	503,186,681	(649)	(9,750)	714	1,159	2,603	2,338,984
Daylighting	-	-	-	-	-	-	-	-
Motors	2,461,980	36,929,703	820	12,297	332	367	218	1,232,857
Process	287,974	3,586,636	78,743	1,181,145	39	43	53	58,650
Compressed Air	-	-	-	-	-	-	-	-
Food Processor	-	-	-	-	-	-	-	-
Refrigeration	52,412,928	483,056,810	(136,770)	(660,575)	7,558	5,972	6,969	12,661,356
Freezers	-	-	-	-	-	-	-	-
Pumps	-	-	-	-	-	-	-	-
Pool Pump	4,500,650	45,006,500	-	-	246	246	639	12,698
Domestic Hot Water	-	-	-	-	-	-	-	-
Water Heating	(12,315)	(132,730)	187,575	1,952,769	(2)	(2)	0	56,130
Other or unspecified	-	-	2,486,925	39,447,229	3,976	2,422	-	9,789,198

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.
**These values are only approximations if there are dual baseline measures in the program

Net Impacts by Climate Zone (All Measures Installed through 2023)								
	Annual Wtd Avg Net kWh	Lifecycle Net kWh	Annual Wtd Avg Net Therms	Lifecycle Net Therms	Net July-Sept Wtd Avg Peak** (kW)	Net Wtd Avg Dec-Feb** (kW)	Wtd Avg User Entered kW	TRC Lifecycle Net Benefits* (\$)
Total	366,766,586	4,201,718,671	3,285,055	59,142,805	61,246	44,798	61,126	112,063,055
7	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
System	366,766,586	4,201,718,671	3,285,055	59,142,805	61,246	44,798	61,126	112,063,055
0	-	-	-	-	-	-	-	-

* Include program-level and admin costs allocated based to total gas and electric programs at the measure level.

Program Summary	Nominal	Present Value
Proposer Name	SDG&E	
Program Name	SDG&E Portfolio	
Total Program Budget (\$)	\$ 218,855,730	\$ 206,813,078
Net Participant Cost (\$)		\$ 72,289,459

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Persistent reductions in the summer (3rd Qtr) or winter (4th Qtr) of each year		
	Net July-Sept Peak (kW)	Net Annual Dec-Feb (kW)
2013	17,442	25,693
2014	53,531	51,538
2015	71,288	49,940
2016	65,719	45,334
2017	59,996	44,140
2018	56,995	38,914
2019	51,326	32,290
2020	46,358	29,500
2021	44,345	27,944
2022	43,245	27,510
2023	39,230	21,441
2024	31,394	15,237

These values are only approximations if there are dual baseline measures in the program

Monthly Impacts					
First Year for Impact Table:	2013 These values are only approximations if there are dual baseline measures in the program				
	Quarter	Hour Avg or TOU Peak	Net Monthly NCP (kW)	Monthly Net kWh	Monthly Net Therms
January-13	1	-	-	-	-
February-13	1	-	-	-	-
March-13	1	-	-	-	-
April-13	2	5,422	10,010	3,749,493	33,536
May-13	2	8,409	12,121	4,164,021	33,536
June-13	2	7,854	12,053	4,072,462	33,536
July-13	3	17,453	24,398	8,517,758	67,072
August-13	3	17,541	24,408	8,564,327	67,072
September-13	3	17,333	24,432	8,350,862	67,072
October-13	4	22,400	31,128	11,957,602	112,625
November-13	4	18,654	29,806	11,155,034	112,625
December-13	4	18,600	29,410	11,339,721	112,625
January-14	5	25,740	39,855	15,201,449	150,212
February-14	5	26,558	39,754	14,586,859	150,212
March-14	5	27,926	39,532	15,278,562	150,212
April-14	6	27,376	50,539	19,132,240	166,184
May-14	6	42,625	61,191	21,145,081	166,184
June-14	6	39,935	60,948	20,731,862	166,184
July-14	7	53,529	74,881	26,342,805	198,223
August-14	7	53,818	74,976	26,482,232	198,223
September-14	7	53,244	75,039	25,897,181	198,223
October-14	8	51,121	74,762	29,164,454	270,163
November-14	8	43,848	71,969	27,459,619	270,163
December-14	8	43,731	71,000	27,787,927	270,163
January-15	9	51,632	82,819	32,181,009	310,166
February-15	9	52,941	82,613	31,122,089	310,166
March-15	9	55,021	82,243	32,338,383	310,166
April-15	10	44,452	82,274	31,565,400	262,329
May-15	10	69,448	99,539	34,641,159	262,329
June-15	10	65,329	99,333	34,065,838	262,329
July-15	11	71,273	100,069	35,275,579	262,357
August-15	11	71,661	100,212	35,458,169	262,357
September-15	11	70,931	100,287	34,713,497	262,357
October-15	12	57,165	83,955	32,857,913	311,565
November-15	12	49,072	80,824	30,954,395	311,565
December-15	12	48,938	79,724	31,315,982	311,565
January-16	13	50,025	80,089	31,168,156	312,573
February-16	13	51,355	79,886	30,117,075	312,573
March-16	13	53,471	79,514	31,317,229	312,573
April-16	14	42,044	78,190	30,029,082	262,980
May-16	14	65,372	95,177	32,986,169	262,980
June-16	14	61,461	94,980	32,424,451	262,980
July-16	15	65,731	94,043	33,027,951	263,549
August-16	15	66,074	94,099	33,200,262	263,549
September-16	15	65,354	94,168	32,455,675	263,549
October-16	16	53,306	77,530	30,394,186	317,225
November-16	16	45,115	74,410	28,514,998	317,225
December-16	16	44,977	73,340	28,886,475	317,225
January-17	17	45,407	72,704	28,345,853	318,737
February-17	17	46,762	72,507	27,304,797	318,737
March-17	17	48,922	72,131	28,484,590	318,737
April-17	18	38,242	72,104	27,691,798	265,140
May-17	18	58,385	87,463	30,298,103	265,140
June-17	18	54,667	87,266	29,748,023	265,140
July-17	19	60,027	87,612	30,845,733	265,596

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August-17	19	60,336	87,611	31,009,882	265,596
September-17	19	59,625	87,678	30,269,336	265,596
October-17	20	51,201	74,360	29,134,425	323,353
November-17	20	42,981	71,266	27,279,957	323,353
December-17	20	42,845	70,220	27,657,509	323,353
January-18	21	44,214	71,188	27,715,706	324,368
February-18	21	45,566	70,992	26,684,501	324,368
March-18	21	47,748	70,622	27,852,577	324,368
April-18	22	37,115	70,695	27,056,588	263,454
May-18	22	56,045	84,587	29,424,989	263,454
June-18	22	52,324	84,323	28,865,087	263,454
July-18	23	57,016	83,356	29,386,838	260,402
August-18	23	57,321	83,398	29,544,252	260,402
September-18	23	56,648	83,466	28,860,217	260,402
October-18	24	46,200	68,664	27,017,655	351,277
November-18	24	39,407	65,917	25,378,305	351,277
December-18	24	39,292	64,867	25,666,421	351,277
January-19	25	38,990	63,550	24,966,685	367,076
February-19	25	39,975	63,347	24,149,111	367,076
March-19	25	41,493	63,075	25,102,375	367,076
April-19	26	32,742	61,287	23,903,708	251,271
May-19	26	50,975	75,324	26,147,802	251,271
June-19	26	47,753	75,469	25,795,911	251,271
July-19	27	51,278	74,142	26,024,295	248,245
August-19	27	51,614	74,310	26,170,475	248,245
September-19	27	51,086	74,351	25,650,288	248,245
October-19	28	37,367	58,629	23,478,439	412,817
November-19	28	33,311	56,460	22,193,147	412,817
December-19	28	33,216	55,348	22,296,736	412,817
January-20	29	32,362	53,737	21,526,528	427,927
February-20	29	32,891	53,526	20,966,064	427,927
March-20	29	33,516	53,363	21,660,025	427,927
April-20	30	28,214	51,520	20,677,416	242,121
May-20	30	45,410	65,616	22,761,976	242,121
June-20	30	42,712	66,232	22,628,974	242,121
July-20	31	46,248	66,335	23,254,733	242,049
August-20	31	46,620	66,596	23,395,256	242,049
September-20	31	46,206	66,608	22,994,295	242,049
October-20	32	31,872	52,353	21,332,346	448,777
November-20	32	29,470	50,493	20,233,514	448,777
December-20	32	29,378	49,318	20,219,334	448,777
January-21	33	29,565	49,568	20,130,923	449,156
February-21	33	29,918	49,353	19,663,678	449,156
March-21	33	30,147	49,225	20,263,040	449,156
April-21	34	26,937	49,091	19,841,552	241,904
May-21	34	43,431	62,937	21,816,657	241,904
June-21	34	40,826	63,648	21,722,339	241,904
July-21	35	44,221	63,714	22,316,981	241,904
August-21	35	44,602	63,991	22,457,223	241,904
September-21	35	44,211	63,994	22,077,086	241,904
October-21	36	29,891	49,865	20,456,198	449,731
November-21	36	27,932	48,081	19,402,499	449,731
December-21	36	27,840	46,884	19,355,751	449,731
January-22	37	28,006	47,160	19,289,547	449,799
February-22	37	28,287	46,944	18,859,931	449,799
March-22	37	28,356	46,829	19,421,107	449,799
April-22	38	26,028	47,275	19,224,779	241,904
May-22	38	42,068	61,054	21,142,595	241,904
June-22	38	39,532	61,835	21,077,202	241,904
July-22	39	43,114	62,314	21,793,119	241,904
August-22	39	43,500	62,599	21,933,221	241,904
September-22	39	43,121	62,599	21,563,476	241,904
October-22	40	29,160	48,778	20,064,105	450,172
November-22	40	27,311	47,013	19,021,678	450,172
December-22	40	27,219	45,811	18,966,796	450,172
January-23	41	27,572	46,398	18,995,886	450,479
February-23	41	27,853	46,182	18,566,271	450,479
March-23	41	27,923	46,067	19,127,447	450,479
April-23	42	24,444	44,616	18,173,915	231,729
May-23	42	39,914	58,065	19,974,452	231,729
June-23	42	37,415	58,823	19,924,106	231,729
July-23	43	39,095	56,831	19,642,068	221,553
August-23	43	39,464	57,186	19,770,659	221,553
September-23	43	39,130	57,191	19,479,889	221,553
October-23	44	23,420	41,876	17,246,557	421,585
November-23	44	22,794	40,564	16,472,658	421,585
December-23	44	22,750	39,450	16,358,904	421,585

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Program Impacts (Gross)					
	Wtd Annual Gross kWh	Lifecycle Gross kWh	Wtd Annual Gross Therms	Lifecycle Gross Therms	Wtd User Entered kW
2013	323,544,144	3,560,894,109	2,643,640	48,034,830	50,171
2014	348,735,323	4,125,678,216	2,701,855	48,454,484	57,044
2013-2014	672,279,467	7,686,572,325	5,345,495	96,489,314	107,214

Wtd Avg Emissions Reductions (Gross)						
Annual Reductions	Electric Reductions			Gas Reductions		
	CO2 (tons)	NOX (lbs)	PM-10 (lbs)	CO2 (tons)	NOX (lbs)	
2013	165,163	40,374	21,755	15,465	34,033	* annual reductions are the units implemented in the year, times the annual emission reduction for the measure, weighted for split baseline performance
2014	177,127	43,082	23,358	15,806	34,359	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Annual	342,290	83,455	45,113	31,271	68,392	
Lifecycle Reductions						
2013	1,816,672	443,816	239,323	291,267	634,049	
2014	2,092,534	508,242	276,038	293,274	631,486	
2015	-	-	-	-	-	
2016	-	-	-	-	-	
2017	-	-	-	-	-	
2018	-	-	-	-	-	
2019	-	-	-	-	-	
2020	-	-	-	-	-	
2021	-	-	-	-	-	
2022	-	-	-	-	-	
2023	-	-	-	-	-	
Total Lifecycle	3,909,206	952,058	515,361	584,541	1,265,535	

Wtd Avg Reductions based on total annual installations (Gross)					
	Wtd Avg Annual Gross kWh	Wtd Avg Lifecycle Gross kWh	Wtd Avg Annual Gross Therms	Wtd Avg Lifecycle Gross Therms	Wtd Avg User Entered kW
2013	323,544,144	3,560,894,109	2,643,640	48,034,830	50,171
2014	348,735,323	4,125,678,216	2,701,855	48,454,484	57,044
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	-	-	-	-
2023	-	-	-	-	-
Total	672,279,467	7,686,572,325	5,345,495	96,489,314	107,214

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Gross Savings for Goal Attainment - kWh						
	1st Year Annual Savings	Decay of single or first baseline	2nd Baseline Savings	2nd Baseline Decay	Total Cumulative	Net Annual Savings
	kWh	kWh	kWh	kWh	kWh	kWh
2013	340,172,264		-	-	340,172,264	340,172,264
2014	727,056,780	-234458.2681		-	726,822,322	386,650,057
2015	727,056,780	-19452025.27	8,634,439		716,239,194	(10,583,128)
2016	727,056,780	-88407576.89	37,023,870		675,673,073	(40,566,121)
2017	727,056,780	-129977197.5	51,055,148		648,134,731	(27,538,342)
2018	727,056,780	-157000645.8	52,541,166		622,597,300	(25,537,431)
2019	727,056,780	-205176104.3	54,881,889		576,762,565	(45,834,735)
2020	727,056,780	-240496554.1	57,461,273		544,021,499	(32,741,066)
2021	727,056,780	-257651685.5	59,440,054		528,845,148	(15,176,351)
2022	727,056,780	-266669137	59,832,605		520,220,248	(8,624,900)

Gross Savings for Goal Attainment - kW						
	1st Year Annual Savings	Decay or single or first baseline	2nd Baseline Savings	2nd Baseline Decay	Total Cumulative	Net Annual Savings
	kW	kW	kW	kW	kW	kW
2013	52,904		-	-	52,904	52,904
2014	116,312	-66.69719444		-	116,245	63,341
2015	116,312	-3607.894492	1,577		114,281	(1,964)
2016	116,312	-16225.69453	6,567		106,653	(7,628)
2017	116,312	-24203.9306	9,019		101,127	(5,526)
2018	116,312	-27971.96042	9,148		97,488	(3,638)
2019	116,312	-33803.54354	9,340		91,848	(5,640)
2020	116,312	-38574.88606	9,605		87,341	(4,507)
2021	116,312	-41601.2157	9,828		84,539	(2,803)
2022	116,312	-43239.9305	9,873		82,944	(1,594)

Gross Savings for Goal Attainment - Therms						
	1st Year Annual Savings	Decay of single or first baseline	2nd Baseline Savings	2nd Baseline Decay	Total Cumulative	Net Annual Savings
	Therms	Therms	Therms	Therms	Therms	Therms
2013	2,797,211		-	-	2,797,211	2,797,211
2014	5,645,908	55.1823425		-	5,645,963	2,848,752
2015	5,645,908	13043.99366	(4,522)		5,654,430	8,466
2016	5,645,908	65449.42977	(11,570)		5,699,787	45,358
2017	5,645,908	126713.6497	(14,261)		5,758,361	58,573
2018	5,645,908	28214.41924	51,600		5,725,722	(32,638)
2019	5,645,908	21297.28526	154,164		5,821,369	95,647
2020	5,645,908	130986.5236	192,681		5,969,576	148,207
2021	5,645,908	136990.3075	193,514		5,976,413	6,837
2022	5,645,908	139531.1064	193,680		5,979,119	2,706