STAFF REPORT

CALIFORNIA ENERGY DEMAND: 1995-2015

VOLUME XI:
Committed Demand Side Management Program Savings

JULY 1995

Pete Wilson, *Governor*

CALIFORNIA ENERGY COMMISSION

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Preface

The results of the California Energy Commission (Commission) Staff July 1995 electricity demand forecast for the eight planning areas are presented in thirteen volumes. Volumes III through X contain the forecasts for each planning area. Each planning area volume contains an executive summary and forms documenting the forecast results, forecast methods and forecast inputs and assumptions.

Five separate volumes document additional elements of the forecast which are not unique to each of the eight planning areas. Volume II provides details of the staff's forecasting methodology. Volume XI presents a summary of committed demand-side management savings quantification methods. Volume XII describes the methodology and results of the economic and demographic projections used as inputs to the forecasts. Volume XIIA describes the methodology and results of the price projections used as input to the forecasts. Volume XIV describes the methodology used to estimate the impacts from air quality related measures.

The work documented in these volumes constitutes an important element in the CFM process leading to the Commission adoption of demand forecasts for the 1996 Electricity Report. If necessary, dependent on the nature of the ER 96 process, Volumes I and XIII will follow these thirteen volumes in the Winter of 1995. Volume I will consist of Staff's revised electricity demand forecasts. Volume XIII will evaluate the forecast submittals for the small and medium electric utilities.

Chapter 1

Introduction

The purpose of Volume XI is to summarize the impact of historical and existing demand-side management (DSM) programs on California's electricity demand in support of the 1996 Electricity Report proceedings. This volume consists of three chapters. Chapter One summarizes the Staff's forecast of DSM impacts on electricity demand in California beginning in 1985 and ending in 2015. Chapter Two presents the methods used to assess the DSM historical and existing DSM program impacts. Chapter Three consists of summaries of forms, which are part of the Staff July 1995 electricity demand forecast.[1]

DSM IN THE COMMISSION'S FORECASTING PROCESS

Every two years the Commission adopts a long-range energy demand forecast.

The adopted forecasts of electricity demand have included all program impacts reasonably expected to occur (RETO). In 1985, the Commission divided RETO conservation programs into uncommitted and existing/committed programs.

This demand forecast continues that distinction between committed and uncommitted DSM programs: only committed DSM impacts are discussed in this volume. Committed is now defined as programs that have been funded and implemented through 1994 (though the projected impacts of those programs last into the forecast period).

This volume groups DSM programs into several general types. If the program is a statewide building or appliance standard, it is referred to as a "standard." If the program is administered by the utility and its primary goal is to save energy, it is included as a utility conservation and efficiency program. Utility

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[1] Note that Form 8.4 in Chapter 3 revises Section 8 of the Staff July 1995 forecast planning area volumes (i.e. Volume III-X).

programs designed to increase efficiency by building load or retaining load are shown under the category of load retention or load building programs. The fuel switching category includes utility programs designed to change customers' fuel use from natural gas to electricity or from electricity to natural gas. Programs administered by utilities to shift electrical load are shown as load management programs. Programs other than energy efficiency standards that are administered by state or federal agencies are shown as a public agency program. Two other categories are also included in the tables. First, the electrical impacts of air quality programs, which are mandated by air quality districts, are shown; although these programs are not by definition DSM programs.[2] Finally, market effects represent impacts that are due to responses by customers to energy prices, income, advances in technology or changes in consumer behavior.[3]

Load management programs managed by utilities are further grouped into dispatchable and nondispatchable types. Impacts through 1994 from dispatchable load management programs are treated as historical and existing programs and this volume describes the impacts from those programs for that period only. The effects from dispatchable load management programs after 1994 are classified as uncommitted and are discussed in the uncommitted portion of the 1996 Electricity Report DSM Forms.

Much of the information presented in this volume is categorized by customer sectors. The customer sectors most often encountered are: residential, commercial, industrial, and agricultural.[4] Two sectors are special cases because

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[2] The effects of air quality regulations on electrical demand is discussed in Volume XIV.

[3] The effects of market and prices on electricity demand are discussed in Volume II, which describes the end-use models that calculate the market effects on electricity demand for each end-use sector of the economy.

[4] In this volume, the commercial sector also includes the customer sector known as transportation, communication and public utilities. End use sectors are described in Volume II.

they include customers from all sectors. These two special cases are: system efficiency and electric vehicles. System efficiency affects all end-users because it involves adjusting the transmitted electrical voltage to optimize the efficiency of the utility's distribution system. The electric vehicles end-use shows the estimated impacts of electric vehicle programs, which are mandated by various air quality districts.

The term "impacts" covers both savings in the traditional sense from conservation and load management programs and increases resulting from marketing programs. The convention for this volume is to express savings as positive impacts and increases in energy use as negative impacts. In other words, if a program results in a savings of 100 GWh, the number entered in a table would be "100 GWh." If, on the other hand, a program builds 100 GWh of load, the entry would read "-100 GWh."

SUMMARY OF IMPACTS

Statewide

Table 1.1A and Table 1.1B are statewide summaries of the load impacts of DSM programs, air quality programs and price and market effects for the years 1985, 1993, 1998, 2000, 2007 and 2015. The tables do not include the effect of load building and load retention programs (which are included in Chapter 3, Form 8.4). Megawatt demand totals are summed from the various planning areas' impacts and do not necessarily occur at the time of the statewide coincident peak demand. Note that the impacts of building and appliance standards continue to increase after 1993, because more buildings and more equipment will be built to meet these standards. However, the effects of the utility and public agency programs decline after 1993 because the "committed" program forecast, which is the topic of this volume, does not include any programs beyond those operating in 1994 (see Chapter 2 and Chapter 3, Form 8.2). That is, Staff assumes that the effects of

utility and public agency programs that were in place prior to 1995 will decay over time.[5]

Four figures follow Tables 1.1A and 1.1B. Figure 1 shows the portion of customer demand for electricity (in gigawatt hours) met by committed DSM programs and market effects for 1985, 1993, 1998, 2007 and 2015.[6] Note that the Staff baseline demand forecast shown in Figure 1 does not include the impacts of uncommitted DSM (DSM programs not yet in place) for 1998, 2000, 2007 and 2015. Effects of uncommitted DSM will be determined later in the ER 96 process. Figure 2 illustrates the various components of DSM (program impacts, building standards, appliance/equipment standards, public agency programs, utility programs, air quality programs and market and price effects) for the same years. Figures 3 and 4 are similar to Figures 1 and 2 but show demand at time of system peak in megawatts.

Planning Area

Tables 1.1 through 1.8 break out the statewide impacts summarized in Table 1.1 A for each major planning area: Pacific Gas and Electric (PGE); Sacramento Municipal Utility District (SMUD); Southern California Edison (SCE); Los Angeles Department of Water and Power (LADWP); San Diego Gas and Electric (SDGE); Burbank, Glendale and Pasadena (BGP) and "Other" utilities. Additional information on the impacts of specific programs is available in the Form 8.4 tables, which are discussed in Chapter 3.

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5 The exception is the system efficiency sector's utility programs and streetlight efficiency programs, which Staff assumes will be operated and maintained by utilities indefinitely.

6 Customers demand estimates are taken from Form 1.1 of the staff demand forecast (Volumes III through IX) published July, 1995.

TABLES 1.1 - 1.7

FIGURES 1 - 4

TABLE 1.1A

STATEWIDE

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
RESIDENTIAL												
Building Stds.	910	1621	2695	2898	3531	4090	857	1803	2299	2478	3043	3547
Appliance/Equip. Stds.	1278	4397	6663	7507	10121	12407	274	924	1380	1550	2076	2537
Public Agency Programs	650	802	617	481	153	2	161	197	151	118	38	0
Utility Programs	1512	2709	2601	2306	1195	178	586	749	674	593	315	71
Sub-Total	4350	9529	12576	13193	15000	16677	1878	3672	4504	4740	15000	6156
Market & Price Effects	3290	6973	8631	9224	11183	12994	482	1017	1255	1340	1623	1883
Sub-Total	3290	6973	8631	9224	11183	12994	482	1017	1255	1340	11183	1883
TOTAL	7640	16502	21207	22417	26182	29671	2360	4689	5759	6081	7096	8040
COMMERCIAL												
Building Stds.	351	1916	3406	4156	6961	10099	76	422	755	922	1547	2244
Appliance/Equip. Stds.	206	1030	1734	2056	3211	4419	45	227	383	455	712	979
Public Agency Programs	446	599	453	398	201	91	81	113	83	72	31	0
Utility Programs	6720	6927	5038	4069	1312	989	1379	1572	1206	989	350	236
Sub-Total	7722	10472	10631	10679	11685	15598	1582	2334	2426	2438	11685	3460
Air Quality Regulations	0	0	-7	-7	-8	-9	0	0	-1	-1	-1	-1
Market & Price Effects	6112	7257	5972	5337	4087	4658	1306	1536	1252	1109	823	944
Sub-Total	6112	7257	5965	5330	4079	4649	1306	1536	1252	1109	4079	943
TOTAL	13834	17730	16596	16009	15764	20247	2887	3870	3678	3546	3462	4403
INDUSTRIAL												
Building Stds.	811	730	724	682	543	352	116	103	102	95	76	49
Utility Programs	3190	5259	3892	3118	1042	27	735	1097	806	652	250	12
Sub-Total	4001	5988	4616	3800	1585	379	852	1200	908	747	1585	61
Air Quality Regulations	0	-1	-24	-25	-27	-27	0	-0	-3	-3	-4	-4
Market & Price Effects	1826	372	-430	-663	-828	-364	176	35	-45	-66	-79	-39
Sub-Total	1826	371	-454	-689	-856	-391	176	35	-48	-69	-856	-43
TOTAL	5827	6359	4162	3112	729	-12	1028	1235	859	678	243	19

TABLE 1.1A

STATEWIDE

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
AGRICULTURAL												
Public Agency Programs	0	8	7	5	0	0	0	2	2	1	0	0
Utility Programs	256	796	682	542	90	2	79	166	205	177	77	1
Sub-Total	256	803	689	548	90	2	79	168	207	178	90	1
Air Quality Regulations	0	-0	-1	-1	-1	-1	0	-0	-0	-0	-0	-0
Sub-Total	0	-0	-1	-1	-1	-1	0	-0	-0	-0	-1	-0
TOTAL	256	803	689	547	89	1	79	168	207	178	77	1
SYSTEM EFFICIENCY												
Utility Programs	2958	3048	3051	3051	3051	3039	701	718	719	719	719	719
Sub-Total	2958	3048	3051	3051	3051	3039	701	718	719	719	3051	719
TOTAL	2958	3048	3051	3051	3051	3039	701	718	719	719	719	719
ELECTRIC VEHICLES												
Air Quality Regulations	0	0	-115	-312	-3073	-4298	0	0	-9	-26	-252	-352
Sub-Total	0	0	-115	-312	-3073	-4298	0	0	-9	-26	-3073	-352
TOTAL	0	0	-115	-312	-3073	-4298	0	0	-9	-26	-252	-352
TOTAL												
Building Stds.	2071	4267	6825	7736	11034	14541	1049	2328	3155	3496	4666	5841
Appliance/Equip. Stds.	1484	5427	8397	9563	13331	16827	319	1151	1764	2005	2788	3516
Public Agency Programs	1096	1409	1077	885	354	92	242	311	235	191	70	1
Utility Programs	14635	18738	15264	13087	6690	4235	3481	4303	3609	3130	1711	1040
Sub-Total	19287	29841	31563	31271	31410	35695	5092	8092	8763	8822	31410	10397
Air Quality Regulations	0	-1	-146	-345	-3109	-4335	0	-0	-13	-30	-256	-357
Market & Price Effects	1122B	14602	14173	13898	14442	17289	1964	2588	2462	2384	2366	2788
Sub-Total	1122B	14601	14027	13553	11333	12954	1964	2588	2449	2354	11333	2431
TOTAL	30515	44442	45590	44823	42743	48649	7056	10680	11211	11177	11345	12828

TABLE 1:1B

STATEWIDE

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
RESIDENTIAL												
PACIFIC GAS & ELECTRIC	2957	6141	7422	7748	8564	9329	913	1602	1798	1864	2060	2245
SACRAMENTO MUNICIPAL UTILITY DISTRICT	507	1165	1436	1504	1657	1709	213	441	515	535	584	596
SOUTHERN CALIFORNIA EDISON	2288	4984	6B89	7361	9012	10694	768	1557	2060	2201	2687	3180
LOS ANGELES DEPARTMENT OF WATER & POWER	513	1232	1643	1730	2044	2348	124	312	390	409	455	512
SAN DIEGO GAS & ELECTRIC	542	1224	1608	1714	2060	2309	126	269	323	339	391	424
BURBANK, GLENDALE AND PASADENA	94	171	219	235	283	325	22	41	52	56	67	76
OTHER UTILITIES	740	1586	1991	2125	2562	2957	193	467	620	676	852	1008
TOTAL	7640	16502	21207	22417	26182	29671	2360	4689	5759	6081	7096	8040
COMMERCIAL												
PACIFIC GAS & ELECTRIC	5795	7914	7167	6907	6619	7903	1210	1571	1465	1414	1357	1614
SACRAMENTO MUNICIPAL UTILITY DISTRICT	199	719	887	937	1033	1173	39	174	210	213	214	240
SOUTHERN CALIFORNIA EDISON	5688	6648	5685	5117	4570	6457	1199	1523	1302	1177	1040	1441
LOS ANGELES DEPARTMENT OF WATER & POWER	980	1082	1170	1221	1454	1881	188	246	275	286	336	437
SAN DIEGO GAS & ELECTRIC	959	1003	1282	1394	1546	2142	203	276	336	360	394	517
BURBANK, GLENDALE AND PASADENA	134	188	201	210	255	321	32	45	49	51	62	79
OTHER UTILITIES	79	176	204	222	287	370	16	35	41	44	58	75
TOTAL	13834	17730	16596	16009	15764	20247	2887	3870	3678	3546	3462	4403
INDUSTRIAL												
PACIFIC GAS & ELECTRIC	1405	1242	747	565	90	26	304	176	107	80	10	3
SACRAMENTO MUNICIPAL UTILITY DISTRICT	64	104	111	110	93	72	8	17	18	17	12	9
SOUTHERN CALIFORNIA EDISON	3880	4670	3013	2193	462	-162	658	986	685	539	203	-5
LOS ANGELES DEPARTMENT OF WATER & POWER	197	141	96	72	36	25	21	15	9	7	3	2
SAN DIEGO GAS & ELECTRIC	271	200	197	175	56	33	34	40	40	36	16	10
BURBANK, GLENDALE AND PASADENA	4	-0	-3	-4	-6	-6	1	-0	-0	-0	-0	-0
OTHER UTILITIES	6	3	1	-0	-2	-0	1	0	0	0	-0	-0
TOTAL	5827	6359	4162	3112	729	-12	1028	1235	859	678	243	19
AGRICULTURAL												
PACIFIC GAS & ELECTRIC	131	526	427	322	12	-0	54	103	76	56	2	-0
SACRAMENTO MUNICIPAL UTILITY DISTRICT	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
SOUTHERN CALIFORNIA EDISON	116	255	238	206	76	1	25	61	125	118	75	1
LOS ANGELES DEPARTMENT OF WATER & POWER	0	0	0	0	0	0	0	0	0	0	0	0
SAN DIEGO GAS & ELECTRIC	8	20	17	13	1	1	0	3	4	3	0	0
BURBANK, GLENDALE AND PASADENA	0	0	0	0	0	0	0	0	0	0	0	0
OTHER UTILITIES	0	1	8	6	0	0	0	0	1	1	0	0
TOTAL	256	803	689	547	89	1	79	168	207	178	77	1

TABLE 1.1B

STATEWIDE

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
SYSTEM EFFICIENCY												
PACIFIC GAS & ELECTRIC	899	910	910	910	910	910	219	227	227	227	227	227
SACRAMENTO MUNICIPAL UTILITY DISTRICT	0	0	0	0	0	0	0	0	0	0	0	0
SOUTHERN CALIFORNIA EDISON	1806	1875	1875	1875	1875	1875	456	464	464	464	464	464
SAN DIEGO GAS & ELECTRIC	248	248	248	248	248	236	26	26	26	26	26	26
OTHER UTILITIES	5	15	18	18	18	18	1	2	2	2	2	2
TOTAL	2958	3048	3051	3051	3051	3039	701	718	719	719	719	719
ELECTRIC VEHICLES												
PACIFIC GAS & ELECTRIC	0	0	-11	-31	-307	-430	0	0	-2	-5	-49	-68
SACRAMENTO MUNICIPAL UTILITY DISTRICT	0	0	-6	-16	-154	-215	0	0	-1	-2	-23	-33
SOUTHERN CALIFORNIA EDISON	0	0	-64	-175	-1721	-2407	0	0	-4	-12	-118	-165
LOS ANGELES DEPARTMENT OF WATER & POWER	0	0	-25	-67	-664	-928	0	0	-2	-5	-46	-64
SAN DIEGO GAS & ELECTRIC	0	0	-6	-16	-154	-215	0	0	-0	-1	-11	-15
BURBANK, GLENDALE AND PASADENA	0	0	-3	-7	-74	-103	0	0	-0	-1	-5	-7
TOTAL	0	0	-115	-312	-3073	-4298	0	0	-9	-26	-252	-352
TOTALS												
PACIFIC GAS & ELECTRIC	11187	16733	16662	16422	15888	17738	2700	3678	3671	3636	3607	4020
SACRAMENTO MUNICIPAL UTILITY DISTRICT	769	1987	2428	2535	2629	2738	261	631	741	762	786	812
SOUTHERN CALIFORNIA EDISON	13777	18432	17636	16578	14275	16458	3106	4592	4632	4488	4351	4916
LOS ANGELES DEPARTMENT OF WATER & POWER	1689	2455	2884	2956	2871	3327	334	573	672	697	748	886
SAN DIEGO GAS & ELECTRIC	2029	2695	3346	3529	3757	4506	389	616	729	764	816	963
BURBANK, GLENDALE AND PASADENA	233	359	414	433	458	537	55	87	101	106	124	147
OTHER UTILITIES	831	1781	2220	2371	2865	3345	211	504	665	724	913	1085
TOTAL	30515	44442	45590	44823	42743	48649	7056	10680	11211	11177	11345	12828

Figure 1

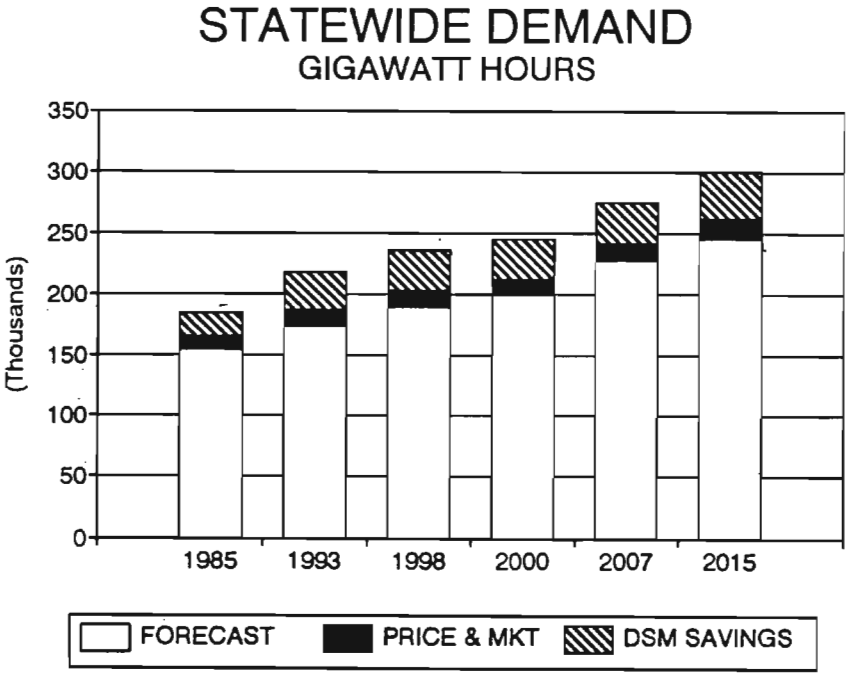

Figure 2

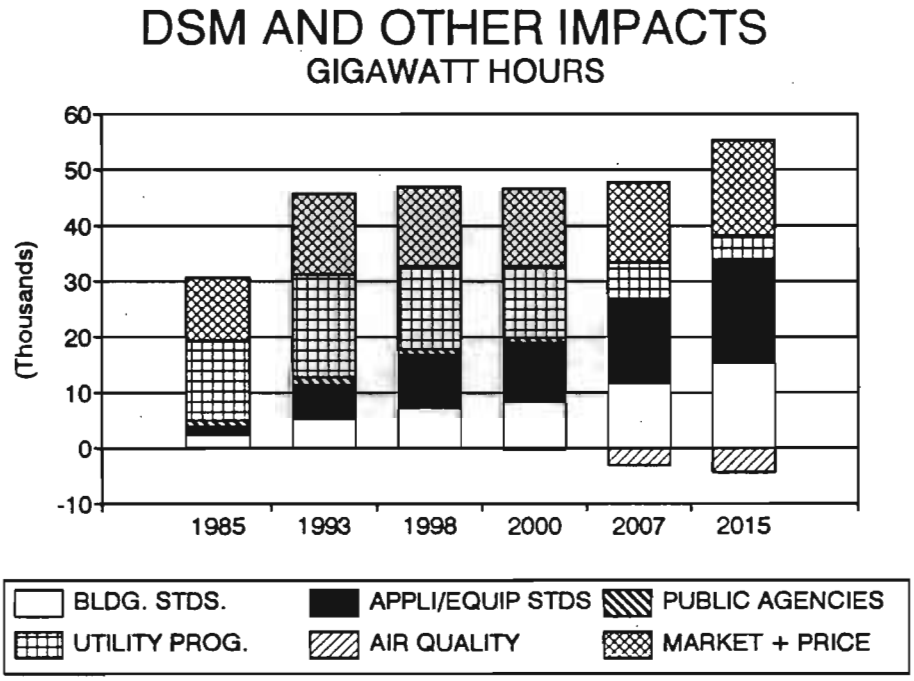

Figure 3

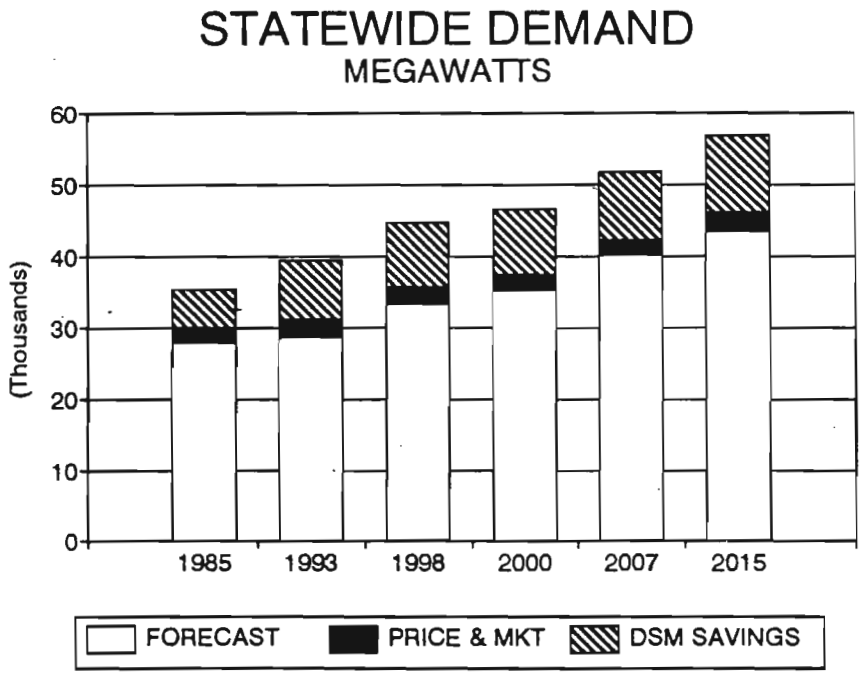

Figure 4

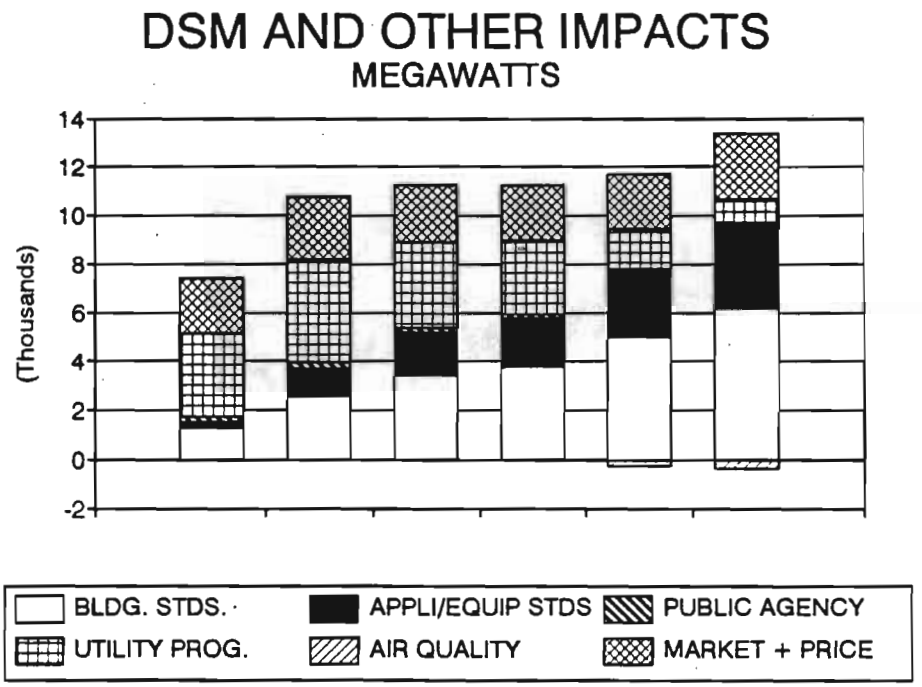

TABLE 1.1

Pacific Gas & Electric

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
RESIDENTIAL												
Building Stds.	298	490	804	857	1025	1168	220	443	539	575	688	784
Appliance/Equip. Stds.	448	1632	2351	2622	3458	4183	91	323	460	511	670	807
Public Agency Programs	320	392	299	233	73	1	80	98	75	58	18	0
Utility Programs	875	1488	1356	1251	652	110	359	394	304	271	145	33
Sub-Total	1941	4002	4809	4962	5208	5462	750	1258	1378	1416	1520	1624
Market & Price Effects	1016	2139	2612	2786	3357	3867	163	344	420	448	539	621
Sub-Total	1016	2139	2612	2786	3357	3867	163	344	420	448	539	621
TOTAL	2957	6141	7422	7748	8564	9329	913	1602	1798	1864	2060	2245
COMMERCIAL												
Building Stds.	142	560	842	987	1585	2334	29	114	172	201	323	476
Appliance/Equip. Stds.	59	285	445	517	776	1104	12	58	91	105	158	225
Public Agency Programs	203	266	188	161	74	22	40	57	42	36	16	0
Utility Programs	1771	2345	1786	1503	479	384	391	433	365	310	106	86
Sub-Total	2175	3456	3261	3168	2914	3843	472	662	669	653	602	786
Air Quality Regulations	0	0	-1	-1	-1	-1	0	0	-0	-0	-0	-0
Market & Price Effects	3620	4458	3907	3740	3706	4060	738	908	796	762	755	827
Sub-Total	3620	4458	3906	3739	3705	4060	738	908	796	762	755	827
TOTAL	5795	7914	7167	6907	6619	7903	1210	1571	1465	1414	1357	1614
INDUSTRIAL												
Building Stds.	468	505	513	490	368	222	65	70	71	68	51	31
Utility Programs	406	684	470	362	18	0	155	98	73	57	5	3
Sub-Total	873	1190	983	852	386	222	220	168	144	125	57	34
Air Quality Regulations	0	-0	-16	-17	-19	-19	0	-0	-3	-3	-3	-3
Market & Price Effects	532	52	-220	-270	-277	-177	84	8	-35	-43	-44	-28
Sub-Total	532	52	-236	-287	-296	-196	84	8	-37	-45	-47	-31
TOTAL	1405	1242	747	565	90	26	304	176	107	80	10	3

TABLE 1.1

Pacific Gas & Electric

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
AGRICULTURAL												
Public Agency Programs	0	5	5	4	0	0	0	1	1	1	0	0
Utility Programs	131	521	422	319	12	0	54	102	75	55	2	0
Sub-Total	131	526	427	322	12	0	54	103	76	56	2	0
Air Quality Regulations	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
Sub-Total	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
TOTAL	131	526	427	322	12	-0	54	103	76	56	2	-0
SYSTEM EFFICIENCY												
Utility Programs	899	910	910	910	910	910	219	227	227	227	227	227
Sub-Total	899	910	910	910	910	910	219	227	227	227	227	227
TOTAL	899	910	910	910	910	910	219	227	227	227	227	227
ELECTRIC VEHICLES												
Air Quality Regulations	0	0	-11	-31	-307	-430	0	0	-2	-5	-49	-68
Sub-Total	0	0	-11	-31	-307	-430	0	0	-2	-5	-49	-68
TOTAL	0	0	-11	-31	-307	-430	0	0	-2	-5	-49	-68
TOTALS												
Building Stds.	907	1556	2159	2334	2978	3724	314	627	782	844	1062	1290
Appliance/Equip. Stds.	507	1917	2796	3139	4234	5287	103	381	551	617	828	1031
Public Agency Programs	523	664	492	397	147	22	120	156	117	95	34	0
Utility Programs	4082	5949	4944	4345	2071	1405	1179	1253	1045	920	484	348
Sub-Total	6019	10085	10390	10215	9430	10438	1716	2418	2495	2476	2408	2670
Air Quality Regulations	0	-0	-28	-49	-327	-450	0	-0	-4	-8	-52	-71
Market & Price Effects	5168	6649	6299	6257	6785	7750	985	1260	1181	1167	1251	1421
Sub-Total	5168	6649	6271	6207	6458	7301	985	1260	1177	1159	1199	1349
TOTAL	11187	16733	16662	16422	15888	17738	2701	3678	3671	3636	3607	4020

TABLE 1.2

Sacramento Municipal Utility District

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
RESIDENTIAL												
Building Stds.	131	198	279	289	324	342	139	232	265	274	308	325
Appliance/Equip. Stds.	79	246	356	397	523	635	18	55	78	87	113	137
Public Agency Programs	27	34	27	22	7	0	7	8	7	5	2	0
Utility Programs	17	222	244	242	163	3	6	66	75	74	52	9
Sub-Total	254	700	906	948	1017	979	170	361	424	441	475	471
Market & Price Effects	253	465	530	556	640	729	43	79	90	95	109	124
Sub-Total	253	465	530	556	640	729	43	79	90	95	109	124
TOTAL	507	1165	1436	1504	1657	1709	213	441	515	535	584	596
COMMERCIAL												
Building Stds.	24	99	169	200	314	440	5	19	33	39	61	85
Appliance/Equip. Stds.	13	49	78	90	135	185	3	10	15	17	26	36
Public Agency Programs	12	14	10	10	5	0	3	3	2	2	1	0
Utility Programs	18	110	96	65	8	6	4	55	56	44	15	14
Sub-Total	68	272	353	365	462	631	14	87	106	102	103	135
Air Quality Regulations	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
Market & Price Effects	131	447	534	573	572	543	25	86	103	111	111	105
Sub-Total	131	447	534	572	572	542	25	86	103	111	111	105
TOTAL	199	719	887	937	1033	1173	39	174	210	213	214	240
INDUSTRIAL												
Building Stds.	32	43	54	55	58	48	4	5	6	6	7	5
Utility Programs	2	11	10	8	0	0	0	4	4	4	0	0
Sub-Total	34	54	64	63	59	48	4	9	10	10	7	5
Air Quality Regulations	0	0	0	0	0	0	0	0	0	0	0	0
Market & Price Effects	30	50	47	47	34	23	5	8	7	7	5	4
Sub-Total	30	50	47	47	34	23	5	8	7	7	5	4
TOTAL	64	104	111	110	93	72	8	17	18	17	12	9

TABLE 1.2

Sacramento Municipal Utility District

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
AGRICULTURAL												
Air Quality Regulations	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
Sub-Total	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
TOTAL	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
SYSTEM EFFICIENCY												
Utility Programs	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
ELECTRIC VEHICLES												
Air Quality Regulations	0	0	-6	-16	-154	-215	0	0	-1	-2	-23	-33
Sub-Total	0	0	-6	-16	-154	-215	0	0	-1	-2	-23	-33
TOTAL	0	0	-6	-16	-154	-215	0	0	-1	-2	-23	-33
TOTALS												
Building Stds.	187	340	501	543	696	830	147	256	304	319	375	415
Appliance/Equip. Stds.	92	295	433	487	658	819	21	64	93	104	139	173
Public Agency Programs	40	48	37	31	13	1	10	11	9	8	3	0
Utility Programs	37	343	351	315	171	9	10	126	135	121	67	24
Sub-Total	356	1026	1323	1376	1537	1658	188	458	541	552	585	612
Air Quality Regulations	0	-0	-6	-16	-154	-216	0	-0	-1	-2	-23	-33
Market & Price Effects	413	962	1112	1175	1246	1295	73	173	201	212	225	233
Sub-Total	413	962	1106	1159	1092	1080	73	173	200	210	201	200
TOTAL	769	1987	2428	2535	2629	2738	261	631	741	762	786	812

TABLE 1.3

Southern California Edison

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
RESIDENTIAL												
Building Stds.	274	548	1005	1107	1433	1745	324	761	1042	1148	1487	1810
Appliance/Equip. Stds.	464	1571	2546	2906	4045	5072	85	277	439	498	686	855
Public Agency Programs	184	228	176	137	43	0	44	54	41	33	11	0
Utility Programs	548	823	793	647	268	35	209	233	234	194	90	22
Sub-Total	1470	3171	4520	4798	5789	6853	663	1325	1756	1873	2274	2687
Market & Price Effects	817	1813	2370	2563	3223	3841	105	232	304	329	413	492
Sub-Total	817	1813	2370	2563	3223	3841	105	232	304	329	413	492
TOTAL	2288	4984	6889	7361	9012	10694	768	1557	2060	2201	2687	3180
COMMERCIAL												
Building Stds.	111	769	1397	1729	2936	4213	25	176	319	394	670	961
Appliance/Equip. Stds.	83	438	743	889	1408	1903	19	100	170	203	321	434
Public Agency Programs	96	155	142	130	65	31	15	26	23	20	9	0
Utility Programs	4154	3879	2620	2023	642	460	856	901	612	480	149	79
Sub-Total	4443	5241	4902	4770	5050	6606	915	1202	1123	1097	1149	1475
Air Quality Regulations	0	0	-4	-5	-5	-6	0	0	-0	-0	-0	-0
Market & Price Effects	1245	1406	788	352	-476	-144	284	321	180	80	-109	-33
Sub-Total	1245	1406	783	347	-481	-150	284	321	179	80	-109	-33
TOTAL	5688	6648	5685	5117	4570	6457	1199	1523	1302	1177	1040	1441
INDUSTRIAL												
Building Stds.	153	56	25	8	0	0	23	8	4	1	0	0
Utility Programs	2669	4397	3265	2633	1015	27	562	963	700	568	241	8
Sub-Total	2822	4453	3290	2640	1015	27	585	971	704	570	241	8
Air Quality Regulations	0	-1	-6	-6	-6	-6	0	-0	-0	-0	-0	-0
Market & Price Effects	1058	218	-271	-441	-546	-182	73	15	-19	-30	-38	-13
Sub-Total	1058	218	-277	-447	-553	-188	73	15	-19	-31	-38	-13
TOTAL	3880	4670	3013	2193	462	-162	658	986	685	539	203	-5

TABLE 1.3

Southern California Edison

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
AGRICULTURAL												
Public Agency Programs	0	2	2	2	0	0	0	1	0	0	0	0
Utility Programs	116	253	235	204	76	1	25	61	125	118	75	1
Sub-Total	116	255	238	206	77	1	25	61	125	118	75	1
Air Quality Regulations	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
Sub-Total	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
TOTAL	116	255	238	206	76	1	25	61	125	118	75	1
SYSTEM EFFICIENCY												
Utility Programs	1806	1875	1875	1875	1875	1875	456	464	464	464	464	464
Sub-Total	1806	1875	1875	1875	1875	1875	456	464	464	464	464	464
TOTAL	1806	1875	1875	1875	1875	1875	456	464	464	464	464	464
ELECTRIC VEHICLES												
Air Quality Regulations	0	0	-64	-175	-1721	-2407	0	0	-4	-12	-118	-165
Sub-Total	0	0	-64	-175	-1721	-2407	0	0	-4	-12	-118	-165
TOTAL	0	0	-64	-175	-1721	-2407	0	0	-4	-12	-118	-165
TOTALS												
Building Stds.	538	1374	2426	2844	4369	5957	372	945	1364	1544	2157	2771
Appliance/Equip. Stds.	547	2010	3288	3795	5453	6975	104	377	608	701	1007	1289
Public Agency Programs	280	386	321	269	108	31	60	80	65	53	20	0
Utility Programs	9293	11227	8788	7382	3877	2398	2108	2621	2135	1824	1019	575
Sub-Total	10658	14996	14824	14289	13806	15361	2644	4024	4173	4122	4203	4635
Air Quality Regulations	0	-1	-75	-186	-1733	-2419	0	-0	-5	-13	-119	-166
Market & Price Effects	3120	3437	2887	2474	2201	3515	462	568	465	379	267	447
Sub-Total	3120	3437	2812	2288	469	1096	462	568	460	366	148	281
TOTAL	13777	18432	17636	16578	14275	16458	3106	4592	4632	4488	4351	4916

TABLE 1.4

Los Angeles Department of Water & Power

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
RESIDENTIAL												
Building Stds.	92	187	283	302	354	400	69	159	202	215	252	285
Appliance/Equip. Stds.	126	388	562	624	799	930	15	46	67	74	95	110
Public Agency Programs	47	59	47	38	13	0	12	15	12	9	3	0
Utility Programs	9	50	62	30	5	3	1	30	31	27	5	0
Sub-Total	273	685	954	994	1170	1333	97	249	311	325	355	396
Market & Price Effects	239	547	689	736	874	1015	27	62	79	84	100	116
Sub-Total	239	547	689	736	874	1015	27	62	79	84	100	116
TOTAL	513	1232	1643	1730	2044	2348	124	312	390	409	455	512
COMMERCIAL												
Building Stds.	40	207	411	502	833	1212	9	49	98	119	198	288
Appliance/Equip. Stds.	28	98	173	204	317	443	7	23	41	49	75	105
Public Agency Programs	62	77	60	54	38	30	8	10	7	6	2	0
Utility Programs	513	206	128	111	51	45	85	46	34	29	9	7
Sub-Total	643	589	772	870	1239	1731	108	129	180	202	285	401
Air Quality Regulations	0	0	-1	-1	-1	-1	0	0	-0	-0	-0	-0
Market & Price Effects	337	493	399	352	217	152	80	117	95	84	52	36
Sub-Total	337	493	398	351	215	151	80	117	95	84	51	36
TOTAL	980	1082	1170	1221	1454	1881	188	246	275	286	336	437
INDUSTRIAL												
Building Stds.	27	0	0	0	0	0	4	0	0	0	0	0
Utility Programs	55	54	28	15	4	0	9	9	5	3	1	0
Sub-Total	82	54	28	15	4	0	13	9	5	3	1	0
Air Quality Regulations	0	-0	-2	-2	-2	-2	0	-0	-0	-0	-0	-0
Market & Price Effects	114	88	69	59	34	27	8	6	5	4	2	2
Sub-Total	114	87	68	57	33	25	8	6	5	4	2	2
TOTAL	197	141	96	72	36	25	21	15	9	7	3	2

TABLE 1.4

Los Angeles Department of Water & Power

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
AGRICULTURAL												
Air Quality Regulations	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
ELECTRIC VEHICLES												
Air Quality Regulations	0	0	-25	-67	-664	-928	0	0	-2	-5	-46	-64
Sub-Total	0	0	-25	-67	-664	-928	0	0	-2	-5	-46	-64
TOTAL	0	0	-25	-67	-664	-928	0	0	-2	-5	-46	-64
TOTALS												
8uilding Stds.	159	395	694	803	1187	1612	83	208	300	334	450	573
Appliance/Equip. Stds.	154	486	735	829	1115	1373	21	69	108	123	170	216
Public Agency Programs	109	136	107	91	51	30	19	25	18	15	6	0
Utility Programs	577	311	218	156	59	48	95	84	70	58	15	8
Sub-Total	999	1328	1754	1879	2412	3064	218	387	496	530	640	797
Air Quality Regulations	0	-0	-28	-70	-667	-931	0	-0	-2	-5	-46	-64
Market & Price Effects	690	1127	1157	1147	1125	1194	115	186	178	172	154	154
Sub-Total	690	1127	1130	1077	458	263	115	186	176	167	108	89
TOTAL	1689	2455	2884	2956	2871	3327	334	573	672	697	748	886

TABLE 1.5

San Diego Gas & Electric

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
RESIDENTIAL												
Building Stds.	74	123	204	213	237	254	56	108	125	130	145	155
Appliance/Equip. Stds.	95	335	509	575	782	961	12	43	66	75	102	126
Public Agency Programs	41	51	38	28	8	0	10	13	9	7	2	0
Utility Programs	41	85	107	104	93	24	10	24	27	25	22	6
Sub-Total	251	594	858	920	1119	1239	89	189	227	238	271	287
Market & Price Effects	291	630	750	794	941	1070	37	81	96	102	121	137
Sub-Total	291	630	750	794	941	1070	37	81	96	102	121	137
TOTAL	542	1224	1608	1714	2060	2309	126	269	323	339	391	424
COMMERCIAL												
Building Stds.	28	232	501	634	1110	1628	6	53	114	145	253	371
Appliance/Equip. Stds.	18	127	242	294	478	645	4	29	55	67	109	147
Public Agency Programs	36	45	26	21	9	4	8	9	5	4	1	0
Utility Programs	261	382	404	363	128	90	44	136	137	126	71	50
Sub-Total	343	785	1173	1312	1725	2367	62	227	311	342	435	569
Air Quality Regulations	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
Market & Price Effects	616	218	109	82	-179	-225	141	50	25	19	-41	-51
Sub-Total	616	218	109	82	-179	-225	141	50	25	19	-41	-51
TOTAL	959	1003	1282	1394	1546	2142	203	276	336	360	394	517
INDUSTRIAL												
Building Stds.	121	125	133	129	116	81	19	19	20	20	18	13
Utility Programs	59	112	117	99	5	1	9	24	23	20	2	1
Sub-Total	180	237	250	227	121	82	28	43	44	40	20	14
Air Quality Regulations	0	0	0	0	0	0	0	0	0	0	0	0
Market & Price Effects	92	-37	-52	-52	-66	-49	6	-3	-4	-4	-5	-3
Sub-Total	92	-37	-52	-52	-66	-49	6	-3	-4	-4	-5	-3
TOTAL	271	200	197	175	56	33	34	40	40	36	16	10

TABLE 1.5

San Diego Gas & Electric

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
AGRICULTURAL												
Utility Programs	8	20	18	13	1	1	0	3	4	3	0	0
Sub-Total	8	20	18	13	1	1	0	3	4	3	0	0
Air Quality Regulations	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
Sub-Total	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
TOTAL	8	20	17	13	1	1	0	3	4	3	0	0
SYSTEM EFFICIENCY												
Utility Programs	248	248	248	248	248	236	26	26	26	26	26	26
Sub-Total	248	248	248	248	248	236	26	26	26	26	26	26
TOTAL	248	248	248	248	248	236	26	26	26	26	26	26
ELECTRIC VEHICLES												
Air Quality Regulations	0	0	-6	-16	-154	-215	0	0	-0	-1	-11	-15
Sub-Total	0	0	-6	-16	-154	-215	0	0	-0	-1	-11	-15
TOTAL	0	0	-6	-16	-154	-215	0	0	-0	-1	-11	-15
TOTALS												
Building Stds.	223	480	838	976	1463	1963	81	181	260	295	416	539
Appliance/Equip. Stds.	113	462	750	869	1260	1606	16	72	121	142	211	273
Public Agency Programs	78	96	64	49	17	4	18	22	14	11	3	0
Utility Programs	617	846	893	827	476	351	89	213	217	200	121	83
Sub-Total	1030	1884	2546	2721	3215	3924	205	488	612	648	751	895
Air Quality Regulations	0	-0	-6	-16	-154	-215	0	-0	-0	-1	-11	-15
Market & Price Effects	999	811	807	824	696	797	184	128	117	117	75	83
Sub-Total	999	811	801	808	542	581	184	128	117	116	65	68
TOTAL	2029	2695	3346	3529	3757	4506	389	616	729	764	816	963

TABLE 1.6

Burbank, Glendale and Pasadena

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
RESIDENTIAL												
Building Stds.	7	13	17	19	22	24	9	18	22	23	28	31
Appliance/Equip. Stds.	18	55	84	94	125	149	3	10	15	16	21	25
Public Agency Programs	6	7	5	4	2	0	1	2	1	1	0	0
Sub-Total	31	75	107	117	149	173	14	29	38	41	50	56
Market & Price Effects	64	96	112	117	135	152	8	12	14	15	17	19
Sub-Total	64	96	112	117	135	152	8	12	14	15	17	19
TOTAL	94	171	219	235	283	325	22	41	52	56	67	76
COMMERCIAL												
Building Stds.	3	24	50	62	110	166	1	6	12	15	27	41
Appliance/Equip. Stds.	2	12	22	26	43	62	1	3	5	6	11	15
Public Agency Programs	17	18	9	8	5	3	3	3	1	1	0	0
Sub-Total	22	54	81	95	157	232	4	12	19	23	38	57
Air Quality Regulations	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
Market & Price Effects	112	134	120	115	98	89	28	33	30	29	24	22
Sub-Total	112	134	120	115	98	89	28	33	30	29	24	22
TOTAL	134	188	201	210	255	321	32	45	49	51	62	79
INDUSTRIAL												
Building Stds.	9	0	0	0	0	0	2	0	0	0	0	0
Sub-Total	9	0	0	0	0	0	2	0	0	0	0	0
Air Quality Regulations	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
Market & Price Effects	-5	-0	-3	-4	-6	-6	-0	-0	-0	-0	-0	-0
Sub-Total	-5	-0	-3	-4	-6	-6	-0	-0	-0	-0	-0	-0
TOTAL	4	-0	-3	-4	-6	-6	1	-0	-0	-0	-0	-0
AGRICULTURAL												
Air Quality Regulations	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 1.6

Burbank, Glendale and Pasadena

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
ELECTRIC VEHICLES												
Air Quality Regulations	0	0	-3	-7	-74	-103	0	0	-0	-1	-5	-7
Sub-Total	0	0	-3	-7	-74	-103	0	0	-0	-1	-5	-7
TOTAL	0	0	-3	-7	-74	-103	0	0	-0	-1	-5	-7
TOTALS												
Building Stds.	19	37	67	80	132	191	11	24	34	39	55	72
Appliance/Equip. Stds.	20	67	106	120	168	212	4	13	20	23	32	41
Public Agency Programs	23	25	15	12	6	3	4	5	3	2	1	0
Sub-Total	61	129	187	212	306	405	19	41	57	64	88	113
Air Quality Regulations	0	-0	-3	-8	-74	-104	0	-0	-0	-1	-5	-7
Market & Price Effects	171	230	230	229	227	235	36	46	44	43	41	41
Sub-Total	171	230	226	221	152	131	36	46	44	43	36	34
TOTAL	233	359	414	433	458	537	55	87	101	106	124	147

TABLE 1.7

Other Utilities

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
RESIDENTIAL												
Building Stds.	35	62	104	111	136	157	39	82	104	111	136	157
Appliance/Equip. Stds.	49	169	256	289	389	477	49	169	256	289	389	477
Public Agency Programs	24	30	25	20	8	0	6	8	6	5	2	0
Utility Programs	22	41	39	33	15	3	1	2	2	2	1	0
Sub-Total	130	303	423	453	548	638	95	261	368	408	528	635
Market & Price Effects	610	1283	1567	1672	2014	2320	98	206	252	269	324	373
Sub-Total	610	1283	1567	1672	2014	2320	98	206	252	269	324	373
TOTAL	740	1586	1991	2125	2562	2957	193	467	620	676	852	1008
COMMERCIAL												
Building Stds.	4	24	36	43	74	107	1	5	7	9	15	22
Appliance/Equip. Stds.	3	21	32	36	55	77	1	4	6	7	11	16
Public Agency Programs	19	25	17	15	5	0	4	5	3	3	1	0
Utility Programs	2	5	4	4	4	4	0	0	1	0	0	0
Sub-Total	28	74	89	99	138	188	5	14	17	19	28	38
Market & Price Effects	51	102	115	123	149	182	10	21	23	25	30	37
Sub-Total	51	102	115	123	149	182	10	21	23	25	30	37
TOTAL	79	176	204	222	287	370	16	35	41	44	58	75
INDUSTRIAL												
Building Stds.	1	0	0	0	0	0	0	0	0	0	0	0
Utility Programs	0	1	1	1	0	0	0	0	0	0	0	0
Sub-Total	1	1	1	1	0	0	0	0	0	0	0	0
Market & Price Effects	6	1	-1	-2	-2	-0	1	0	-0	-0	-0	-0
Sub-Total	6	1	-1	-2	-2	-0	1	0	-0	-0	-0	-0
TOTAL	6	3	1	-0	-2	-0	1	0	0	0	-0	-0
AGRICULTURAL												
Utility Programs	0	1	8	6	0	0	0	0	1	1	0	0
Sub-Total	0	1	8	6	0	0	0	0	1	1	0	0
TOTAL	0	1	8	6	0	0	0	0	1	1	0	0

TABLE 1.7

Other Utilities

SUMMARY OF COMMITTED DSM, AIR QUALITY PROGRAMS AND MARKET EFFECTS

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
SYSTEM EFFICIENCY												
Utility Programs	5	15	18	18	18	18	1	2	2	2	2	2
Sub-Total	5	15	18	18	18	18	1	2	2	2	2	2
TOTAL	5	15	18	18	18	18	1	2	2	2	2	2
TOTALS												
Building Stds.	39	87	140	155	210	264	40	87	111	120	151	179
Appliance/Equip. Stds.	52	190	288	325	445	555	50	173	263	296	401	493
Public Agency Programs	43	55	41	35	13	0	10	12	9	8	3	0
Utility Programs	30	63	70	62	37	24	2	5	7	6	4	3
Sub-Total	164	394	539	577	704	844	102	277	389	430	559	675
Market & Price Effects	667	1387	1681	1793	2161	2502	109	227	275	293	354	410
Sub-Total	667	1387	1681	1793	2161	2502	109	227	275	293	354	410
TOTAL	831	1781	2220	2371	2865	3345	211	504	665	724	913	1085
STATEWIDE TOTAL	30515	44442	45590	44823	42743	48649	7056	10680	11211	11177	11345	12828

Chapter 2

Methods Used to Assess DSM Impacts

This chapter describes how the effects of DSM programs are integrated into the Staff's forecast of electricity demand.

OVERVIEW OF ENERGY DEMAND FORECAST PROCESS

The Demand Analysis Office develops an electricity and natural gas demand forecast for a 20 year planning horizon. To this end, Staff maintains computerized models of energy use, which provide a forecast of energy demand for each major economic sector in seven planning areas within California. Methods to measure the impacts of DSM include direct estimation procedures embedded in the computerized sector models, as well as a supporting set of computer programs that externally quantifies certain effects and introduces them in the summary energy model or peak demand model. Table 2.1 identifies the specific DSM programs externally quantified and introduced into the summary energy model and peak demand model.

IMPACTS ESTIMATION PERFORMED IN THE END-USE MODELS

The residential, commercial, and industrial end-use models usually calculate energy savings by building type and end-use. The models account for building decay, equipment replacement and estimates of market-induced impacts. Attribution of impacts from building and appliance standards are done through an iterative, stepwise analysis. A series of model runs are made (one for each standard) and the difference in energy demand between successive runs is attributable to the impacts from the specific standard. Staff has already presented details to participating utilities on how the end-use models calculate savings for each building and appliance standard.[1]

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[1] See "Electricity Savings from Existing and Committed Statewide DSM Programs", Dennis C. Smith, California Energy Commission Staff Report, March, 1995.

TABLE 2.1

DSM Programs Quantified Outside the Summary or Peak Models

Sector	Utility Programs	Public Agency Programs
RESIDENTIAL	Master Meter New Construction A/C Cycling* Pool Pump Timers Time-Of-Use Thermal Storage	
COMMERCIAL	New Construction Fuel Substitution A/C Cycling* Time-Of-Use Thermal Storage Interruptible/Curtailable* Other Load Management Real Time Pricing	Miscellaneous Retrofit Energy Ext Service Local Jurisd. Asst.
TCU	Energy Mgt Services Energy Mgt Incentive Fuel Substitution Load Building Interruptible/Curtailable*	
STREETLIGHT	Streetlight Conversion	
INDUSTRIAL	Energy Mgt Services Energy Mgt Incentive Interruptible/Curtailable* Load Management Process Management	
AGRICULTURE	Energy Mgt Services Energy Mgt Incentives Load Management Interruptible/Curtailable* Time-Of-Use	
OTHER	Voltage Regulation Other Load Management	

* Includes impacts from Dispatchable Load Management programs through 1994.

The impacts from many DSM programs sponsored by utilities, state government, local government and other organizations are also estimated directly within the end-use models. As with the standards, the models account for building decay, equipment replacement and estimates of market-induced impacts. However, because of the large number of programs and the extreme difficulty in attributing impacts to particular programs, no attempt is made to attribute impacts through an

iterative or stepwise analysis. Estimates of savings by program are obtained directly from utilities and public agencies. At the aggregate, the utility and program estimates are used to gauge the impacts included within the end-use models.

IMPACTS CALCULATED OUTSIDE THE END-USE MODELS

Estimates of impacts calculated outside the sector models are the product of a four step process, described below. First, first-year impacts from a given program are assigned a useful measure life. Second, a degradation factor is applied to each year of the useful life and is used as a proxy to describe poor maintenance or equipment failure. Third, adjustments are made to distinguish between program-induced and nonprogrammatic, or market, effects. The final impact estimates are aggregated by sector and provided to the summary model where they are used to evaluate the appropriate sector's energy forecasts.

The first stage in forecasting impacts is to determine which year the impact occurred and the magnitude of the electricity demand impact. It is necessary to estimate first-year impacts and how these impacts may change over time. Historical data on the actual first-year impacts for programs administered by utilities were found in: (1) the Annual Summary of Demand-Side Management Programs by investor-owned utilities to the California Public Utilities Commission (CPUC), and (2) historical data acquired from utilities participating in the CFM process.

In April of 1995, Staff provided the utilities copies of Staff's historical data on the impacts of DSM programs. Staff requested that the utilities review and comment on these DSM estimates. Historical data on the actual first-year impacts for programs administered by public agencies were obtained from each responsible agency through direct contact with Staff, since no standard reporting requirement exists. For Staff July 1995 forecasts, historical data on impacts and costs are

generally available through 1994. For most utilities, committed programs include DSM activities through 1994.

After determining the proper method for assigning first-year impacts to the program during the committed period, the second step is to apply a series of adjustments to each of the annual first-year impacts for each program. The first adjustment introduces a time dimension to the first-year impact by assigning each program a useful life. Useful life is defined as the typical lifetime of the energy management program or energy conservation measure equipment. Estimates of useful life are defined as the age at which half of the units are retired from service and half remain in service. In addition to useful life marking the end of the impacts stream, impacts may be limited over time due to degradation. Degradation may be attributable to a variety of factors such as poor maintenance of equipment or deterioration due to weather or rapid duty cycling.

For Staff July 1995 forecasts, Staff assigned useful life estimates after reviewing the following information: the Annual Summary on Demand-Side Management Programs to the CPUC by the investor-owned utilities; documents from the Collaborative Process; and previous CFM submittals by utilities. Staff assumes that energy-saving hardware is not replaced with equipment of equal or greater efficiency.

The third step in the process is to assign a net-to-gross ratio. The function of the net-to-gross ratio is to discount program impacts to eliminate what customers could have done in the absence of the program.[2] Thus, its purpose is to isolate those impacts that are strictly program-induced. The net-to-gross term is broad in that it adjusts for both price-induced conservation and conservation that can occur from behavioral and technological changes other than price. For Staff July 1995 forecasts, Staff assigned net-to-gross ratios after

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[2] These nonprogrammatic effects are captured by the end-use models as market or price response impacts.

reviewing the following information: the Annual Summary on Demand-Side Management Programs to the CPUC by the investor-owned utilities; documents arising from the Collaborative Process; and previous CFM submittals by utilities.

Other adjustments, similar in effect to the net-to-gross ratios, were applied to certain programs. For instance, a program administered by the Commission, Local Government Jurisdiction Assistance, provides on-site audits for small municipal governments. An implementation factor was included in the calculation of savings impacts from this program because not all projects identified to the Commission would be implemented. Additionally, a time lag factor of two years was used to reflect the time between the audit and equipment installation. This and similar instances of additional adjustment factors being applied to calculate DSM impacts are detailed in the discussion of the programs.[3]

Table 2.2 shows the net-to-gross and useful life factors used for the utility conservation program, utility load management programs, and programs.

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[3] See footnote 1.

Table 2.2

UTILITY CONSERVATION PROGRAM ADJUSTMENT FACTORS

Sector	Category	Net/Gross	Lifetime
ELEC. PLAN AREA: PGE			
UTILITY: PGE			
PROGRAM TYPE: Conservation & Efficiency			
AGR	Ener Mgt Incent	.70	10
	Ener Mgt Services	.70	8
COM	Ener Mgt Incent	.70	11
	Ener Mgt Services	.70	8
	Information Pgms	0.00	0
	New Construction	.98	40
EFF	Other Sys Eff.	1.00	99
	Voltage Reduction	1.00	99
IND	Ener Mgt Incent	.70	10
	Ener Mgt Services	.70	10
OTH	Other	1.00	8
RES	Appliance Effic	.75	15
	Dir Assistance	1.00	20
	Ener Mgt Services	.85	20
	Information Pgms	0.00	0
	Master Meter	1.00	40
	New Construction	.98	30
	Other	1.00	15
	Solar Retrofit	.80	15
	Weather Retrofit	.85	20
STR	Strlght Convrsn.	1.00	99
TCU	Ener Mgt Incent	.55	11
	Ener Mgt Services	.75	8
PROGRAM TYPE: Fuel Substitution			
IND	Fuel Subs-MoreEle	.85	30
	Fuel Subs-MoreGas	.85	20
RES	Fuel Subs-MoreGas	1.00	20
PROGRAM TYPE: Load Management - Nondispatchable			
AGR	Load Mgt.	1.00	1
	Time of Use	1.00	1
COM	Load Mgt.	1.00	1
	Thermal Storage	1.00	30
	Time of Use	1.00	1
IND	Load Mgt.	1.00	1
RES	Pool Pump Timer	1.00	13
	Thermal Storage	1.00	30
	Time of Use	1.00	1
PROGRAM TYPE: Load Retention			
IND	Load Retention	1.00	1

NOTE: For all programs, the decay rate is calculated using the following formula:

$1-(1/(1+e^{-.75x}))$ where e is the base of natural logarithms and x is (years after implementation minus (useful life, the period during which 50% of savings are lost)).

Table 2.2

UTILITY CONSERVATION PROGRAM ADJUSTMENT FACTORS

	Sector	Category	Net/Gross	Lifetime
ELEC. PLAN AREA: SMUD				
UTILITY: PGE				
PROGRAM TYPE: Fuel Substitution				
	RES	Fuel Subs-MoreGas	1.00	20
ELEC. PLAN AREA: SMUD				
UTILITY: SMUD				
PROGRAM TYPE: Conservation & Efficiency				
	COM	Ener Mgt Incent	.70	11
		Ener Mgt Services	.70	8
		New Construction	.98	40
	IND	Ener Mgt Incent	.70	10
		Ener Mgt Services	.70	10
	RES	Dir Assistance	1.00	15
		Ener Mgt Services	.85	20
		New Construction	.98	30
PROGRAM TYPE: Load Management - Nondispatchable				
	OTH	Load Mgt.	1.00	1
	RES	Pool Pump Timer	.48	3
		Thermal Storage	1.00	30

NOTE: For all programs, the decay rate is calculated using the following formula:

$1-(1/(1+e^{-.75x}))$ where e is the base of natural logarithms and x is (years after implementation minus (useful life, the period during which 50% of savings are lost)).

Table 2.2

UTILITY CONSERVATION PROGRAM ADJUSTMENT FACTORS

	Sector	Category	Net/Gross	Lifetime
ELEC. PLAN AREA: SCE				
UTILITY: SCE				
PROGRAM TYPE: Conservation & Efficiency				
	AGR	Ener Mgt Incent	.50	15
		Ener Mgt Services	.50	15
	COM	Ener Mgt Incent	.50	11
		Ener Mgt Services	.75	8
		Information Pgms	0.00	0
		New Construction	1.00	40
	EFF	Other Sys Eff.	1.00	99
		Voltage Reduction	1.00	99
	IND	Ener Mgt Incent	.50	15
		Ener Mgt Services	.70	15
	OTH	Other	1.00	8
	RES	Appliance Effic	.75	18
		Dir Assistance	1.00	10
		Ener Mgt Services	.85	5
		Information Pgms	0.00	0
		Master Meter	1.00	40
		New Construction	1.00	40
		Other	1.00	15
		Weather Retrofit	.35	20
	STR	Strlght Convrsn.	1.00	99
	TCU	Ener Mgt Incent	.50	11
		Ener Mgt Services	.75	11
		Information Pgms	0.00	0
		New Construction	1.00	40
PROGRAM TYPE: Fuel Substitution				
	COM	Fuel Subs-MoreEle	1.00	20
	IND	Fuel Subs-MoreEle	1.00	20
	TCU	Fuel Subs-MoreGas	1.00	0
PROGRAM TYPE: Load Management - Nondispatchable				
	COM	Load Mgt.	1.00	1
		Thermal Storage	1.00	20
	RES	Pool Pump Timer	1.00	3
PROGRAM TYPE: Load Retention				
	COM	Load Retention	1.00	1
	IND	Load Retention	1.00	1
ELEC. PLAN AREA: SCE				
UTILITY: SCG				
PROGRAM TYPE: Fuel Substitution				
	IND	Fuel Subs-MoreGas	1.00	20

NOTE: For all programs, the decay rate is calculated using the following formula: $1-(1/(1+e^{-.75x}))$ where e is the base of natural logarithms and x is (years after implementation minus (useful life, the period during which 50% of savings are lost)).

Table 2.2

UTILITY CONSERVATION PROGRAM ADJUSTMENT FACTORS

Sector	Category	Net/Gross	Lifetime
ELEC. PLAN AREA: LADWP			
UTILITY: LADWP			
PROGRAM TYPE: Conservation & Efficiency			
COM	Ener Mgt Incent	.50	11
	Ener Mgt Services	.75	8
	New Construction	1.00	40
EFF	Voltage Reduction	1.00	99
IND	Ener Mgt Incent	.50	15
	Ener Mgt Services	.70	15
RES	Ener Mgt Services	1.00	5
	Information Pgms	1.00	0
	Master Meter	1.00	40
	New Construction	.90	20
STR	Strlght Convrsn.	1.00	99
PROGRAM TYPE: Load Management - Nondispatchable			
COM	Load Mgt.	1.00	1
	Thermal Storage	.70	30
RES	Load Mgt.	1.00	1
	Pool Pump Timer	1.00	3

NOTE: For all programs, the decay rate is calculated using the following formula:

$1-(1/(1+e^{-.75x}))$ where e is the base of natural logarithms and x is (years after implementation minus (useful life, the period during which 50% of savings are lost)).

Table 2.2

UTILITY CONSERVATION PROGRAM ADJUSTMENT FACTORS

Sector	Category	Net/Gross	Lifetime
ELEC: PLAN AREA: SDGE			
UTILITY: SDGE			
PROGRAM TYPE: Conservation & Efficiency			
AGR	Ener Mgt Incent	.70	8
	Ener Mgt Services	.70	9
	New Construction	.70	40
COM	Ener Mgt Incent	.75	11
	Ener Mgt Services	.75	8
	Information Pgms	0.00	0
	New Construction	.75	40
EFF	Voltage Reduction	1.00	40
IND	Ener Mgt Incent	.70	10
	Ener Mgt Services	.70	10
OTH	Other	1.00	8
RES	Appliance Effic	.95	18
	Dir Assistance	1.00	15
	Ener Mgt Services	.85	5
	Information Pgms	0.00	0
	Master Meter	1.00	40
	New Construction	1.00	40
	Other	1.00	15
	Solar Retrofit	.80	15
	Weather Retrofit	.85	15
STR	Strlght Convrsn.	1.00	.99
PROGRAM TYPE: Fuel Substitution			
COM	Fuel Subs-MoreEle	.85	1
	Fuel Subs-MoreGas	.85	20
IND	Fuel Subs-MoreEle	.85	1
	Fuel Subs-MoreGas	.85	15
PROGRAM TYPE: Load Management - Nondispatchable			
COM	A/C Cycling	1.00	1
	Load Mgt.	1.00	1
	Thermal Storage	1.00	30
	Time of Use	1.00	1
IND	Thermal Storage	1.00	30
OTH	Load Mgt.	1.00	1
RES	Pool Pump Timer	1.00	3
	Time of Use	1.00	1

NOTE: For all programs, the decay rate is calculated using the following formula:

$1-(1/(1+e^{-.75x}))$ where e is the base of natural logarithms and x is (years after implementation minus (useful life, the period during which 50% of savings are lost)).

Table 2.2

UTILITY CONSERVATION PROGRAM ADJUSTMENT FACTORS

Sector	Category	Net/Gross	Lifetime
ELEC. PLAN AREA: OTHER			
UTILITY: CPN			
PROGRAM TYPE: Conservation & Efficiency			
AGR	Ener Mgt Services	1.00	8
EFF	Other Sys Eff.	1.00	99
RES	Appliance Effic	1.00	15
ELEC. PLAN AREA: OTHER			
UTILITY: OTHER			
PROGRAM TYPE: Conservation & Efficiency			
COM	Ener Mgt Incent	1.00	11
EFF	Voltage Reduction	1.00	99
ELEC. PLAN AREA: OTHER			
UTILITY: PPL			
PROGRAM TYPE: Conservation & Efficiency			
AGR	Ener Mgt Services	1.00	8
COM	Ener Mgt Incent	1.00	15
	Ener Mgt Services	1.00	8
	Information Pgms	1.00	0
	New Construction	1.00	40
EFF	Other Sys Eff.	1.00	99
	Voltage Reduction	1.00	99
IND	Ener Mgt Services	1.00	10
	Information Pgms	1.00	0
RES	Appliance Effic	1.00	15
	Dir Assistance	1.00	20
	Ener Mgt Services	1.00	20
	Information Pgms	1.00	0
	New Construction	1.00	30
	Other	1.00	15
	Weather Retrofit	1.00	20
STR	Strlght Convrsn.	1.00	99
ELEC. PLAN AREA: OTHER			
UTILITY: SPPC			
PROGRAM TYPE: Conservation & Efficiency			
COM	Ener Mgt Incent	1.00	11
	Ener Mgt Services	1.00	8
EFF	Other Sys Eff.	1.00	99
	Voltage Reduction	1.00	99
RES	Appliance Effic	1.00	15
	Dir Assistance	1.00	20
	Ener Mgt Services	1.00	20
	New Construction	1.00	30
	Weather Retrofit	1.00	20
STR	Strlght Convrsn.	1.00	99

NOTE: For all programs, the decay rate is calculated using the following formula:

$1-(1/(1+e^{-.75x}))$ where e is the base of natural logarithms and x is (years after implementation minus (useful life, the period during which 50% of savings are lost)).

Table 2.2

UTILITY CONSERVATION PROGRAM ADJUSTMENT FACTORS

Sector	Category	Net/Gross	Lifetime
ELEC. PLAN AREA: ALL			
UTILITY: ALL			
PROGRAM TYPE: Load Management - Dispatchable			
AGR	C/I Interruptible	1.00	1
COM	A/C Cycling	1.00	1
	C/I Interruptible	1.00	1
IND	A/C Cycling	1.00	1
	C/I Interruptible	1.00	1
RES	A/C Cycling	1.00	1
TCU	A/C Cycling	1.00	1
	C/I Interruptible	1.00	1
PROGRAM TYPE: Public Agency Programs			
AGR	Farm En. Asst.	1.00	10
COM	CA EES	.80	6
	Cons Tax Credits	.50	24
	Energy Bank	1.00	15
	Lns&Grnts:Schls&H	1.00	12
	Loc Jur En Asst	.50	8
	Solar Tax Credit	.12	20
RES	Cons Tax Credits	.50	24
	DEO Weatherzaton.	.50	15
	Energy Bank	1.00	15
	Solar Tax Credit	.50	15
STR	Strlght Convrsn.	1.00	99

NOTE: For all programs, the decay rate is calculated using the following formula:

$1-(1/(1+e^{-.75x}))$ where e is the base of natural logarithms and x is (years after implementation minus (useful life, the period during which 50% of savings are lost)).

IMPACTS CALCULATED IN THE PEAK MODEL

Reductions in the system peak demand due to DSM programs are introduced in the peak model in a manner similar to that described for the summary model. That is, the sector models estimate peak impacts due to standards and certain other programs. However, savings estimates for certain utility programs are quantified outside the energy models. Savings estimates for these programs pass directly from the summary model to the peak model. Nondispatchable load management program estimates are quantified outside the peak model and then subtracted from the peak demand forecast. Volume II provides detailed documentation of the Peak Model.

Chapter 3

Forms — DSM Impacts by Program

Staff's committed DSM impact data base and forecast contains information at different levels of aggregation. Building and appliance standard impacts estimated within the sector-specific forecast models are calculated at the end-use level. Certain utility program impacts are also estimated within the sector-specific forecast models at the end-use level. In an effort to balance the need for timely information with the data-reporting requirements of the new DSM forms, Staff is reporting its DSM forecast at the program level. Staff is using the utilities' CFM filings and related information to establish a common framework and common set of definitions for the assessment of potential DSM programs.

The following forms are presented here:

Form 8.2 Annual and Cumulative Impacts Matrix by Year. This form describes net first-year and lifecycle GWh and MW impacts for each utility-administered program. This form is similar to Forms 11 through 14 in the *Forms and Instructions for the Demand-Side Management Portion of the 1994 Electricity Report*, which was issued on April 15, 1993.

Form 8.4 Summary of All Program Impacts for 1985, 1993, 1998, 2000, 2007 and 2015. Load reducing and load increasing programs are shown. This form is similar to Forms 19 and 20 that appeared in the *Forms and Instructions for the Demand-Side Management Portion of the 1994 Electricity Report*, which was issued on April 15, 1993. Note that program effects due to dispatchable load management, similar in format to Form 21 in the earlier Forms and Instructions are presented following Form 8.4.

This Chapter has two sections: Section 1 contains Form 8.2 and Section 2 contains Form 8.4.

SECTION 1: FORM 8.2 ANNUAL AND CUMULATIVE IMPACTS MATRIX BY YEAR

This section displays the impacts of utility-sponsored DSM programs. Each table reports net first-year and lifecycle electricity impacts for each program. Data on gigawatt hour impacts are presented first, followed by data on the megawatt impacts. The tables are organized by planning area, program category, sector and program title.

Table 2.2 in Chapter 2 documents the equation Staff used to estimate degradation of program energy impacts over time. That table also documents the net-to-gross ratios used to convert gross program impacts into net impacts.

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: LOS ANGELES DEPARTMENT OF WATER & POWER

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1980	22	20	17	12	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	176	168	151	126	93	59	34	18	9	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	72	70	67	60	50	37	24	13	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	132	131	128	121	109	91	67	43	24	13	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	55	55	54	53	50	45	38	28	18	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	55	54	54	53	52	49	45	37	27	18	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		11	10	10	10	10	10	9	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			7	7	7	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	513	509	489	446	384	308	230	159	103	62	36	20	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1994										8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Totl								0	7	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1987			1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				9	9	9	9	9	9	9	9	8	8	6	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					12	12	12	12	12	12	12	12	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1990						11	11	11	11	11	11	11	11	10	9	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0
1991							8	8	8	8	8	8	8	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0
1992								17	17	17	17	17	17	17	16	15	14	12	9	5	3	2	1	0	0	0	0	0	0	0	0
1993									8	8	8	8	8	8	8	8	7	6	5	4	3	1	1	0	0	0	0	0	0	0	0
1994										18	18	18	18	18	18	18	17	16	15	12	9	6	3	2	1	0	0	0	0	0	0
Totl			1	11	23	34	42	59	67	85	84	83	81	77	72	64	55	45	35	25	16	10	5	3	1	1	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 15 years																				
1980	3	3	3	3	3	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	19	19	19	19	19	19	19	18	17	16	13	10	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	8	8	8	8	8	8	8	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	14	14	14	14	14	14	14	14	14	13	13	11	9	7	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	6	6	6	6	6	6	6	6	6	6	5	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	6	6	6	6	6	6	6	6	6	6	6	5	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	55	56	57	57	57	57	56	55	54	51	46	40	32	24	16	11	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0
Program: Energy Efficiency Incentives											Lifetime: 15 years																				
1994										5	5	5	5	5	5	5	5	5	5	4	4	4	4	3	2	1	1	0	0	0	0
Totl										5	5	5	5	5	5	5	5	5	5	4	4	4	4	3	2	1	1	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: LOS ANGELES DEPARTMENT OF WATER & POWER

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: STREET LIGHTING																															
Program: Streetlight Conversion											Lifetime: 99 years																				
1987			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1988				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1989					8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1990						5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1991							4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1992								5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Totl			6	7	16	21	25	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
SECTOR: RESIDENTIAL																															
Program: Energy Management Services											Lifetime: 5 years																				
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							5	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								17	16	15	14	12	9	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									23	22	21	19	16	12	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1994										54	52	49	44	37	27	17	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0
Totl	3	3	3	3	3	2	6	23	45	96	90	82	70	55	38	24	13	7	3	2	1	0	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 20 years																				
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
Totl										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
Program: Master Meter											Lifetime: 40 years																				
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: LOS ANGELES DEPARTMENT OF WATER & POWER

CATEGORY: CONSERVATION
SECTOR: RESIDENTIAL
Program: Appliance Efficiency Incentives — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1992								1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Totl			0	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0

CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE
SECTOR: RESIDENTIAL
Program: Pool Pump Timer — Lifetime: 3 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: AGRICULTURAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1976	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	14	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	25	25	24	24	22	20	17	12	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	21	21	21	21	20	19	17	14	11	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		39	38	38	38	37	35	32	26	19	12	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			19	19	19	18	18	17	15	13	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				19	19	18	18	18	17	15	13	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					12	11	11	11	11	10	9	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						11	11	11	10	10	10	9	7	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							12	12	12	11	11	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1992								10	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1993									19	19	19	19	18	17	16	13	10	6	3	2	1	0	0	0	0	0	0	0	0	0	0
1994										13	13	13	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0
Totl	94	125	136	147	151	151	150	143	143	135	114	95	78	63	50	38	26	17	10	5	3	1	1	0	0	0	0	0	0	0	0
Program: Energy Efficiency Incentives											Lifetime: 10 years																				
1984	27	27	27	26	26	25	24	22	18	13	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	10	10	10	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		28	28	28	28	28	27	27	25	23	19	14	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			4	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				10	9	9	9	9	9	9	9	8	6	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					15	15	15	14	14	14	14	13	12	10	7	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1990						63	63	63	63	63	62	60	57	52	43	32	20	12	6	3	1	1	0	0	0	0	0	0	0	0	0
1991							124	123	123	123	122	121	118	112	101	84	62	40	23	12	6	3	1	1	0	0	0	0	0	0	0
1992								72	72	72	71	71	70	68	65	59	49	36	23	13	7	3	2	1	0	0	0	0	0	0	0
1993									42	42	42	41	41	41	40	38	34	28	21	13	8	4	2	1	0	0	0	0	0	0	0
1994										64	64	64	63	63	62	61	58	52	43	32	20	12	6	3	1	1	0	0	0	0	0
Totl	37	65	68	77	91	154	275	343	378	432	419	402	383	359	326	281	227	170	117	74	42	23	11	6	3	1	1	0	0	0	0
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1976	21	12	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	29	18	11	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	52	38	25	14	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	38	31	23	15	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	45	41	34	25	16	9	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	150	143	129	107	79	51	29	15	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	146	142	135	122	101	75	48	27	14	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	108	106	104	98	89	74	54	35	20	10	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	172	171	169	165	156	141	117	86	55	32	16	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	131	131	130	128	125	119	107	89	66	42	24	13	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		174	173	172	170	166	157	142	118	87	56	32	17	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1987			29	29	29	28	28	26	24	20	14	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				5	4	4	4	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					20	20	20	19	19	18	16	13	10	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						43	43	43	42	41	39	35	29	22	14	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							31	31	31	30	29	28	25	21	15	10	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0
1992								15	15	15	15	14	14	12	10	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0
1993									53	53	53	52	51	48	44	36	27	17	10	5	3	1	1	0	0	0	0	0	0	0	0
1994										38	38	37	37	36	34	31	26	19	12	7	4	2	1	0	0	0	0	0	0	0	0
Totl	891	1007	967	888	809	740	648	538	471	401	315	250	202	164	130	99	70	45	26	14	7	4	2	1	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1987			30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
1990						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1991							26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
1992								59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
1993									82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
1994										62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
Totl			30	30	30	31	56	115	197	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1980	42	41	40	38	35	29	21	14	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	14	14	14	14	13	12	10	7	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	58	58	58	58	57	56	53	48	40	29	19	11	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	211	211	211	210	209	206	201	191	173	143	106	68	39	20	10	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1985	209	209	209	209	208	207	205	199	189	171	142	105	67	38	20	10	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1986		191	191	191	190	190	189	187	182	173	156	130	95	61	35	18	9	4	2	1	0	0	0	0	0	0	0	0	0	0	0
1987			7	7	7	7	7	7	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				32	32	32	32	32	31	31	30	29	26	22	16	10	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1989					65	65	65	65	65	64	64	62	59	53	44	33	21	12	6	3	1	1	0	0	0	0	0	0	0	0	0
1990						78	78	78	78	78	78	77	75	71	64	53	39	25	14	7	4	2	1	0	0	0	0	0	0	0	0
1991							201	201	201	200	200	199	196	191	182	164	137	100	64	37	19	10	5	2	1	0	0	0	0	0	0
1992								218	218	218	218	217	216	213	208	198	179	148	109	70	40	21	10	5	2	1	1	0	0	0	0
1993									174	174	174	174	173	172	170	166	158	142	118	87	56	32	17	8	4	2	1	0	0	0	0
1994										321	321	321	321	320	318	314	306	291	263	218	161	103	59	31	15	7	4	2	1	0	0
Totl	539	729	735	763	821	886	1065	1250	1373	1620	1518	1399	1279	1169	1071	973	862	731	581	425	282	168	92	47	23	11	5	3	1	1	0
SECTOR: SYSTEM EFFICIENCY																															
Program: Voltage Reduction											Lifetime: 99 years																				
1977	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317
1978	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172
1979	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148
1980	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1981	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171
1982	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
Totl	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862	862

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: SYSTEM EFFICIENCY																															
Program: Other System Efficiency (not Volt. Reduc.)											Lifetime: 99 years																				
1984	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
1985	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1986		11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1987			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	37	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 10 years																				
1976	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	13	11	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	19	17	14	10	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	12	11	10	B	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	42	41	40	38	35	29	21	14	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	40	40	39	38	36	33	27	20	13	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	29	29	29	29	28	26	24	20	15	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	46	46	46	46	45	44	42	38	32	23	15	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	35	35	35	35	35	34	34	32	29	24	18	11	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		47	47	47	47	46	46	45	42	38	32	23	15	9	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			34	34	34	34	34	33	33	31	28	23	17	11	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				12	12	12	12	11	11	11	10	9	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					4	4	4	4	4	4	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						9	9	9	9	9	8	8	8	7	6	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							17	17	17	17	17	17	17	16	14	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0
1992								8	8	8	8	8	8	8	7	7	6	4	3	2	1	0	0	0	0	0	0	0	0	0	0
1993									7	7	7	7	7	7	7	6	6	5	3	2	1	1	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	261	299	321	317	302	288	279	256	229	194	159	126	96	72	54	40	28	19	12	7	3	2	1	0	0	0	0	0	0	0	0
Program: Energy Efficiency Incentives											Lifetime: 10 years																				
1980	11	11	10	9	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	16	16	16	15	15	14	13	11	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	57	57	56	56	55	54	51	46	39	28	18	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	56	56	56	56	56	55	54	51	46	38	28	18	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		51	51	51	51	51	50	49	46	42	35	26	16	9	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			9	9	9	9	9	9	8	8	7	6	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				21	21	21	21	21	21	20	19	17	14	11	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					13	13	13	13	13	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1990						32	32	32	32	32	31	30	29	26	22	16	10	6	3	2	1	0	0	0	0	0	0	0	0	0	0
1991							79	79	78	78	78	77	75	71	64	53	39	25	14	7	4	2	1	0	0	0	0	0	0	0	0
1992								80	80	79	79	79	78	76	72	65	54	40	26	15	8	4	2	1	0	0	0	0	0	0	0
1993									82	82	82	82	81	80	78	74	67	56	41	26	15	8	4	2	1	0	0	0	0	0	0
1994										105	105	105	105	104	103	100	95	86	71	53	34	19	10	5	2	1	1	0	0	0	0
Totl	145	196	203	222	232	258	328	393	455	532	499	464	430	398	363	322	273	216	157	103	61	33	17	8	4	2	1	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: STREET LIGHTING																															
Program: Streetlight Conversion											Lifetime: 99 years																				
1979	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1980	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
1981	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
1982	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
Totl	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
SECTOR: RESIDENTIAL																															
Program: Energy Management Services											Lifetime: 20 years																				
1980	19	19	19	19	19	18	18	18	18	18	18	18	17	15	13	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1981	18	18	18	18	18	18	18	18	18	18	18	18	17	17	15	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0
1982	16	16	16	16	16	16	16	16	16	16	16	16	15	15	14	13	11	8	5	3	1	1	0	0	0	0	0	0	0	0	0
1983	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0
1984	38	38	38	38	38	38	38	38	38	38	38	38	38	37	37	36	34	31	26	19	12	7	4	2	1	0	0	0	0	0	0
1985	41	41	41	41	41	41	41	41	41	41	41	41	41	41	40	40	39	37	33	28	20	13	7	4	2	1	0	0	0	0	0
1986		26	26	26	26	26	26	26	26	26	26	26	26	26	26	25	25	25	23	21	17	13	8	5	2	1	1	0	0	0	0
1987			15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	13	11	8	5	3	1	1	0	0	0	0
1988				15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	13	10	8	5	3	1	1	0	0	0
1989					15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	12	10	8	5	3	1	1	0	0
1990						15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	13	12	10	7	5	3	1	1	0
1991							11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	10	10	9	7	5	3	2	1	1
1992								11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	9	8	6	4	2	1
1993									13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	12	11	9	7	4	2
1994										10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	8	7	5	3
Totl	141	167	183	198	213	228	239	250	263	273	273	272	270	267	261	251	238	222	202	180	155	131	109	89	72	57	44	32	22	14	8
Program: Weather Retrofit & Incentives											Lifetime: 20 years																				
1980	29	29	29	29	29	29	29	29	29	28	28	27	26	23	19	14	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0
1981	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1982	13	13	13	13	13	13	13	13	13	13	13	13	13	12	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0
1983	36	36	36	36	36	36	36	36	36	36	36	36	35	35	34	32	29	24	18	11	7	3	2	1	0	0	0	0	0	0	0
1984	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	27	26	23	19	14	9	5	3	1	1	0	0	0	0	0	0
1985	67	67	67	67	67	67	67	67	67	67	67	67	67	66	66	65	64	60	55	45	33	21	12	6	3	2	1	0	0	0	0
1986		33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	32	30	27	23	17	11	6	3	2	1	0	0	0	0
1987			15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	13	12	10	7	5	3	1	1	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	9	8	6	4	2	1
1993									14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	13	13	12	11	9	7	4	2
1994										2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1
Totl	176	210	225	225	225	225	225	236	250	252	252	251	249	245	238	228	214	195	172	144	114	85	63	46	36	29	24	18	13	8	4

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

CATEGORY: CONSERVATION
SECTOR: RESIDENTIAL

Program: Direct Assistance — Lifetime: 20 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1987			3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0
1988				29	29	29	29	29	29	29	29	29	29	29	29	29	28	28	28	27	26	23	19	14	9	5	3	1	1	0	0
1989					30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	28	27	24	20	15	10	5	3	1	1	0
1990						18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	17	16	14	12	9	6	3	2	1	0
1991							15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	13	12	10	7	5	3	1	1
1992								16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	15	13	11	8	5	3	2
1993									19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	17	15	13	9	6	3
1994										19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	17	16	13	10	6
Totl			3	31	61	78	93	109	128	147	147	147	147	147	147	147	147	147	146	145	142	137	128	116	100	82	65	49	34	22	13

Program: Solar Retrofit & Incentives — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1980	3	3	3	3	3	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	6	6	6	6	6	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	10	10	10	10	10	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	7	7	7	7	7	7	7	7	7	6	6	5	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	27	27	27	27	27	26	26	26	25	23	21	17	13	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0

Program: New Construction — Lifetime: 30 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1976	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0
1977	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	15	14	13	11	8	5	3	2	1	0	0	0	0
1978	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	28	26	21	16	10	6	3	1	1	0	0
1979	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	15	12	9	6	3	2	1	0	0
1980	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	28	26	21	16	10	6	3	1	1
1981	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	26	26	26	26	25	24	22	18	13	9	5	3	1
1982	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	0	0	0
1983	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	7	6	5	3	2
1984	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	15	14	12	9	5
1985	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	22	20	16	12
1986		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	34	34	32	29	24
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1992								5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1993									6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1994										8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Totl	179	214	214	214	214	214	217	223	228	236	236	236	236	236	236	236	236	235	234	231	227	219	208	192	173	153	134	116	100	84	68

Program: Master Meter — Lifetime: 40 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1980	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1981	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1982	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1983	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1984	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: RESIDENTIAL																															
Program: Other											Lifetime: 15 years																				
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Appliance Efficiency Incentives											Lifetime: 15 years																				
1976	14	14	13	13	11	9	7	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	14	14	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	23	23	23	22	22	21	19	16	11	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	69	68	68	68	67	65	62	56	47	34	22	13	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	55	55	55	55	54	54	52	50	45	37	27	18	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	25	25	25	25	25	25	25	24	23	21	17	13	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	17	17	17	17	17	17	17	16	16	15	14	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	31	31	31	31	31	31	31	31	30	30	28	25	21	16	10	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1984	32	32	32	32	32	32	32	32	32	32	31	29	27	22	16	10	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1985	40	40	40	40	40	40	40	40	40	40	39	38	36	33	27	20	13	7	4	2	1	0	0	0	0	0	0	0	0	0	0
1986		51	51	51	51	51	51	50	50	50	50	49	48	46	41	34	25	16	9	5	2	1	1	0	0	0	0	0	0	0	0
1987			28	28	28	28	28	28	28	28	28	28	27	27	25	23	19	14	9	5	3	1	1	0	0	0	0	0	0	0	0
1988				8	8	8	8	8	8	8	8	8	8	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0
1989					24	24	24	24	24	24	24	24	24	24	24	23	22	20	17	12	8	4	2	1	1	0	0	0	0	0	0
1990						15	15	15	15	15	15	15	15	15	15	14	14	13	12	10	7	5	3	1	1	0	0	0	0	0	0
1991							76	76	76	76	76	76	76	76	75	75	74	72	69	62	52	38	24	14	7	4	2	1	0	0	0
1992								58	58	58	58	58	58	58	58	58	58	57	55	53	48	40	29	19	11	6	3	1	1	0	0
1993									54	54	54	54	54	54	54	54	54	54	53	52	49	44	37	27	17	10	5	3	1	1	0
1994										27	27	27	27	27	27	27	27	27	27	26	26	24	22	18	14	9	5	3	1	1	0
Totl	319	370	397	402	423	431	495	536	565	560	525	490	456	424	391	357	324	292	261	231	197	160	119	82	51	29	15	8	4	2	1
SECTOR: TRANSPORTATION, COMMUNICATION & UTILITIES																															
Program: Energy Management Services											Lifetime: 8 years																				
1976	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	9	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	7	7	6	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	25	23	21	18	13	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	24	23	22	20	17	12	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	18	17	17	16	15	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	28	28	28	27	26	23	19	14	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	22	21	21	21	21	20	18	15	11	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		29	28	28	28	27	26	23	19	14	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			4	4	4	4	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Totl	147	166	159	145	129	112	95	76	60	43	29	20	14	10	8	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: TRANSPORTATION, COMMUNICATION & UTILITIES																															
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1980	5	5	5	5	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	7	7	7	7	7	7	6	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	25	25	25	25	25	25	24	23	21	17	13	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	25	25	25	25	25	25	25	24	23	21	17	13	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		23	23	23	23	23	23	23	22	21	19	16	12	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						4	4	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							11	11	11	11	11	10	10	10	10	9	7	5	3	2	1	1	0	0	0	0	0	0	0	0	0
1992								11	11	11	11	11	11	11	11	10	9	8	6	4	2	1	1	0	0	0	0	0	0	0	0
1993									15	15	15	15	15	15	15	14	14	12	10	8	5	3	1	1	0	0	0	0	0	0	0
Totl	65	88	89	90	92	95	103	110	119	110	98	84	71	59	50	43	36	29	21	14	8	5	2	1	1	0	0	0	0	0	0
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: COMMERCIAL																															
Program: Thermal Storage											Lifetime: 30 years																				
1989					-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
1990						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Totl					-3	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
Program: Load Management											Lifetime: 1 years																				
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: RESIDENTIAL																															
Program: Pool Pump Timer											Lifetime: 13 years																				
1978	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	5	5	4	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	4	4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	18	18	18	17	16	15	13	10	7	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY: FUEL SUBSTITUTION																															
SECTOR: RESIDENTIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 20 years																				
1987			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	1	1	0	0	0	0	0
1988				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0
1994										7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	5	5	3	2
Totl			5	7	7	7	7	7	7	14	14	14	14	14	14	14	14	14	14	13	13	12	11	9	8	7	7	6	5	3	2
CATEGORY: LOAD BUILDING																															
SECTOR: COMMERCIAL																															
Program: Load Building											Lifetime: 1 years																				
1994										-5	-3	-2	-1	-1	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0
Totl										-5	-3	-2	-1	-1	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: LOAD BUILDING																															
SECTOR: INDUSTRIAL																															
Program: Load Building											Lifetime:		1 years																		
1993									-6	-3	-2	-1	-1	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										-14	-7	-4	-2	-1	-1	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0
Totl									-6	-17	-9	-5	-3	-2	-1	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY: LOAD RETENTION																															
SECTOR: COMMERCIAL																															
Program: Load Retention											Lifetime:		1 years																		
1994										-1	-1	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0
Totl										-1	-1	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Load Retention											Lifetime:		1 years																		
1987			-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				-236	-118	-76	-43	-23	-11	-5	-3	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					-234	-117	-75	-43	-22	-11	-5	-3	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						-86	-43	-28	-16	-8	-4	-2	-1	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							-148	-74	-47	-27	-14	-7	-3	-2	-1	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								-134	-67	-43	-24	-13	-6	-3	-1	-1	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									-72	-36	-23	-13	-7	-3	-2	-1	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										-453	-226	-145	-83	-43	-21	-10	-5	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0
Totl			-0	-236	-352	-279	-309	-301	-235	-583	-300	-184	-102	-52	-26	-12	-6	-3	-1	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

CATEGORY: CONSERVATION

SECTOR: AGRICULTURAL

Program: Energy Management Services — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1977	7	7	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	12	12	12	12	12	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	8	8	8	8	8	7	7	6	5	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	10	10	10	10	10	10	10	9	9	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	13	13	13	13	13	13	13	12	12	10	9	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	17	17	17	17	17	17	17	17	16	15	14	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	16	16	16	16	16	16	16	16	16	16	15	13	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	15	15	15	15	15	15	15	15	15	14	14	13	12	10	7	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1985	18	18	18	18	18	18	18	18	18	18	17	17	16	15	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1986		16	16	16	16	16	16	16	16	16	16	16	15	14	13	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0
1987			10	10	10	10	10	10	10	10	10	10	10	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0
1988				13	13	13	13	13	13	13	13	13	13	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0
1989					11	11	11	11	11	11	11	11	11	11	11	11	10	9	8	6	4	2	1	1	0	0	0	0	0	0	0
1990						15	15	15	15	15	15	15	15	15	15	15	15	14	13	10	8	5	3	1	1	0	0	0	0	0	0
1991							15	15	15	15	15	15	15	15	15	15	15	15	14	12	10	8	5	3	1	1	0	0	0	0	0
1992								9	9	9	9	9	9	9	9	9	9	9	9	9	8	6	5	3	2	1	0	0	0	0	0
1993									10	10	10	10	10	10	10	10	10	10	10	9	9	8	7	5	3	2	1	0	0	0	0
1994										16	16	16	16	16	15	15	15	15	15	15	15	14	13	11	8	5	3	1	1	0	0
Totl	116	132	142	155	165	179	191	196	199	206	195	183	170	156	141	126	111	97	84	71	58	46	34	24	15	9	5	2	1	1	0

Program: Energy Efficiency Incentives — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1987			7	7	7	7	7	7	7	7	7	7	7	7	6	6	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1990						8	8	8	8	8	8	8	8	8	7	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0
1991							13	13	13	13	13	13	13	13	13	13	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0
1992								10	10	10	10	10	10	10	10	10	10	10	9	9	8	7	5	3	2	1	0	0	0	0	0
1993									16	16	16	16	16	16	16	16	16	15	15	15	14	13	11	8	5	3	1	1	0	0	0
1994										26	26	26	26	26	26	26	26	26	25	25	25	23	21	17	13	8	5	2	1	1	0
Totl			7	7	8	16	29	39	54	80	80	80	80	80	79	78	77	74	71	67	60	52	42	32	21	13	7	4	2	1	0

SECTOR: COMMERCIAL

Program: Energy Management Services — Lifetime: 8 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1977	97	62	35	19	9	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	153	113	72	41	22	11	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	311	258	190	122	69	36	18	9	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	393	355	295	217	139	79	41	21	10	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	452	429	388	322	237	152	86	45	22	11	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	529	516	490	443	368	271	174	99	52	26	12	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	496	490	477	453	410	340	251	161	91	48	24	12	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	389	387	382	373	354	320	266	196	126	71	37	19	9	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	362	360	358	354	345	328	296	246	181	116	66	35	17	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		304	302	301	297	290	275	249	206	152	98	55	29	14	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			226	225	223	221	215	204	185	153	113	72	41	22	11	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1988				166	166	165	163	159	151	136	113	83	53	30	16	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1989					184	183	182	180	175	166	150	125	92	59	34	18	9	4	2	1	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1990						202	201	200	198	193	183	165	137	101	65	37	19	10	5	2	1	1	0	0	0	0	0	0	0	0	0
1991							188	187	186	183	179	170	153	127	94	60	34	18	9	4	2	1	0	0	0	0	0	0	0	0	0
1992								280	279	277	274	267	254	229	191	140	90	51	27	13	6	3	1	1	0	0	0	0	0	0	0
1993									246	245	243	240	234	222	201	167	123	79	45	23	12	6	3	1	1	0	0	0	0	0	0
1994										90	90	89	88	86	82	74	61	45	29	17	9	4	2	1	0	0	0	0	0	0	0
Totl	3182	3274	3217	3035	2823	2602	2363	2237	2113	1876	1591	1343	1119	909	708	516	346	212	118	62	31	15	7	3	2	1	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1988				10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1989					11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1990						17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
1991							49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
1992								24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
1993									54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
1994										75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Totl				10	21	37	86	111	165	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1980	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	12	12	12	12	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	27	27	27	26	26	24	22	18	13	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	37	37	37	37	37	36	34	31	25	19	12	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	126	126	126	125	125	123	120	114	103	86	63	40	23	12	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	134	134	134	134	134	133	131	128	122	110	91	67	43	25	13	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1986		71	71	71	71	71	70	69	68	64	58	48	36	23	13	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1987			57	57	57	57	56	56	55	54	51	46	39	28	18	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0
1988				29	29	29	29	29	29	29	28	26	24	20	15	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0
1989					26	26	25	25	25	25	25	24	23	21	17	13	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0
1990						50	50	50	50	50	50	49	48	45	41	34	25	16	9	5	2	1	1	0	0	0	0	0	0	0	0
1991							115	115	115	115	115	114	113	110	104	94	78	58	37	21	11	5	3	1	1	0	0	0	0	0	0
1992								84	84	84	84	83	83	82	80	76	68	57	42	27	15	8	4	2	1	0	0	0	0	0	0
1993									284	284	283	283	282	281	277	270	257	232	193	142	91	52	27	13	7	3	1	1	0	0	0
1994										307	307	307	306	306	304	300	293	278	251	209	154	99	56	29	15	7	3	2	1	0	0
Totl	338	408	464	492	515	559	663	727	978	1237	1173	1099	1024	954	889	824	748	655	539	407	275	166	91	46	23	11	5	2	1	1	0
SECTOR: SYSTEM EFFICIENCY																															
Program: Voltage Reduction											Lifetime: 99 years																				
1977	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
1978	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976
1979	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304
1980	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
1981	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
1983	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
1985	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
1986		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1987			52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: SYSTEM EFFICIENCY																															
Program: Voltage Reduction											Lifetime: 99 years																				
1988				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1989					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Totl	1806	1813	1865	1867	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869	1869
Program: Other System Efficiency (not Volt. Reduc.)											Lifetime: 99 years																				
1987			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1988				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1989					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Totl			2	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 15 years																				
1977	137	136	134	131	124	112	93	69	44	25	13	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	159	159	158	156	152	144	130	108	80	51	29	15	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	268	268	267	266	263	256	243	220	183	134	86	49	26	13	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	307	307	306	305	304	300	292	278	251	208	153	98	56	29	15	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1981	335	335	335	334	334	332	328	319	303	274	228	168	108	61	32	16	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0
1982	383	383	383	382	382	381	379	374	365	346	313	260	191	123	70	37	18	9	4	2	1	0	0	0	0	0	0	0	0	0	0
1983	354	354	354	354	354	354	353	351	346	338	321	290	241	177	114	65	34	17	8	4	2	1	0	0	0	0	0	0	0	0	0
1984	277	277	277	277	276	276	276	275	274	270	264	250	226	188	138	89	50	26	13	6	3	1	1	0	0	0	0	0	0	0	0
1985	256	256	256	256	256	256	256	255	255	253	250	244	232	209	174	128	82	47	24	12	6	3	1	1	0	0	0	0	0	0	0
1986		215	215	215	215	215	215	215	214	214	213	210	205	194	176	146	107	69	39	20	10	5	2	1	1	0	0	0	0	0	0
1987			160	160	160	160	160	160	160	159	159	158	156	152	145	131	108	80	51	29	15	8	4	2	1	0	0	0	0	0	0
1988				171	171	171	171	171	171	171	171	170	169	167	163	155	140	116	86	55	31	16	8	4	2	1	0	0	0	0	0
1989					129	129	129	129	128	128	128	128	128	127	126	122	116	105	87	64	41	23	12	6	3	1	1	0	0	0	0
1990						182	182	182	182	182	182	182	182	181	180	178	174	165	149	124	91	58	33	17	9	4	2	1	0	0	0
1991							125	125	125	125	125	125	125	125	125	124	123	119	113	103	85	63	40	23	12	6	3	1	1	0	0
1992								171	171	171	171	171	171	171	170	170	169	167	163	154	140	116	85	55	31	16	8	4	2	1	0
1993									201	201	201	201	201	201	201	201	200	199	197	192	182	165	137	101	65	37	19	10	5	2	1
1994										137	137	137	137	137	137	137	137	137	136	134	131	124	112	93	69	44	25	13	7	3	2
Totl	2476	2689	2845	3007	3119	3267	3331	3401	3453	3390	3144	2864	2564	2262	1974	1709	1472	1262	1074	901	739	584	437	303	192	110	59	30	14	7	3
Program: Energy Efficiency Incentives											Lifetime: 15 years																				
1980	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	7	7	7	7	7	7	7	7	6	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	15	15	15	15	15	15	15	15	15	14	13	10	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	21	21	21	21	21	21	21	21	21	20	19	17	14	11	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	72	72	72	72	72	72	72	71	71	70	68	65	59	49	36	23	13	7	3	2	1	0	0	0	0	0	0	0	0	0	0
1985	77	77	77	77	77	77	77	76	76	76	75	73	69	63	52	38	25	14	7	4	2	1	0	0	0	0	0	0	0	0	0
1986		41	40	40	40	40	40	40	40	40	40	40	39	37	33	28	20	13	7	4	2	1	0	0	0	0	0	0	0	0	0
1987			32	32	32	32	32	32	32	32	32	32	32	31	29	26	22	16	10	6	3	2	1	0	0	0	0	0	0	0	0
1988				22	22	22	22	22	22	22	22	22	22	22	21	20	18	15	11	7	4	2	1	1	0	0	0	0	0	0	0
1989					32	31	31	31	31	31	31	31	31	31	31	30	28	26	21	16	10	6	3	1	1	0	0	0	0	0	0
1990						15	15	15	15	15	15	15	15	15	15	15	14	14	12	10	8	5	3	1	1	0	0	0	0	0	0
1991							56	56	56	56	56	56	56	56	56	55	55	53	51	46	38	28	18	10	5	3	1	1	0	0	0
1992								55	55	55	55	55	55	55	55	54	54	54	52	50	45	37	27	18	10	5	3	1	1	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: INDUSTRIAL																															
Program: Energy Efficiency Incentives											Lifetime: 15 years																				
1993									195	195	195	195	195	195	194	194	194	192	190	185	176	159	132	97	62	36	19	9	4	2	1
1994										129	129	129	129	129	129	129	129	128	127	126	123	117	105	88	64	41	24	12	6	3	1
Totl	193	233	265	288	319	334	389	443	636	762	755	744	725	697	661	619	575	533	494	455	411	357	292	217	144	86	46	24	12	6	3
SECTOR: STREET LIGHTING																															
Program: Streetlight Conversion											Lifetime: 99 years																				
1978	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1979	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1980	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
1981	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1982	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
1983	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1985	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1986		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1987			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	154	156	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157
SECTOR: RESIDENTIAL																															
Program: Energy Management Services											Lifetime: 5 years																				
1977	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	13	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	19	12	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	26	19	12	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	25	20	15	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	55	49	41	30	19	11	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	52	49	44	37	27	17	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	25	23	22	20	17	12	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								15	14	14	12	10	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									16	15	15	13	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										25	24	23	21	17	13	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0
Totl	223	186	148	110	76	47	27	29	37	58	53	47	40	30	21	13	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0
Program: Weather Retrofit & Incentives											Lifetime: 20 years																				
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0
1984	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	17	16	13	10	6	4	2	1	0	0	0	0	0	0	0
1985	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0	0
1986		16	16	16	16	16	16	16	16	16	16	16	16	16	15	15	15	15	14	13	11	8	5	3	1	1	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	38	54	54	54	54	54	54	54	54	54	54	54	54	53	53	52	50	47	41	33	25	16	10	5	3	1	1	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

CATEGORY: CONSERVATION
SECTOR: RESIDENTIAL

Program: Direct Assistance — Lifetime: 10 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	17	17	17	17	17	17	16	15	14	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		25	25	25	25	24	24	24	22	20	17	12	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			33	32	32	32	32	32	31	29	27	22	16	10	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				22	22	22	22	22	22	21	20	18	15	11	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1989					33	33	33	33	32	32	31	30	27	22	16	11	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1990						49	49	49	49	48	48	47	44	40	33	25	16	9	5	2	1	1	0	0	0	0	0	0	0	0	0
1991							48	48	48	48	48	47	46	44	39	33	24	15	9	5	2	1	1	0	0	0	0	0	0	0	0
1992								34	34	34	34	34	34	33	31	28	23	17	11	6	3	2	1	0	0	0	0	0	0	0	0
1993									38	38	38	38	37	37	36	34	31	26	19	12	7	4	2	1	0	0	0	0	0	0	0
1994										34	34	34	34	34	33	33	31	28	23	17	11	6	3	2	1	0	0	0	0	0	0
Totl	20	45	77	99	132	180	227	259	292	318	305	287	264	237	206	171	135	100	69	44	25	13	7	3	2	1	0	0	0	0	0

Program: New Construction — Lifetime: 40 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1990						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1991							3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1992								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1993									4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	8	8	8	8	8	10	13	15	19	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21

Program: Master Meter — Lifetime: 40 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Program: Other — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1981	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	3	3	3	3	3	3	3	3	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Program: Appliance Efficiency Incentives — Lifetime: 18 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	26	26	26	26	26	26	26	25	24	22	18	13	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	47	47	47	47	47	46	46	46	44	42	38	32	23	15	9	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1980	37	37	37	37	37	37	37	36	36	35	33	30	25	18	12	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1981	28	28	28	28	28	28	28	28	28	27	27	25	23	19	14	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0
1982	25	25	25	25	25	25	25	25	25	25	24	24	23	20	17	12	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

CATEGORY: CONSERVATION

SECTOR: RESIDENTIAL

Program: Appliance Efficiency Incentives — Lifetime: 18 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1983	42	42	42	42	42	42	42	42	42	42	42	41	40	38	34	29	21	13	8	4	2	1	0	0	0	0	0	0	0	0	0
1984	33	33	33	33	33	33	33	33	33	33	33	32	32	31	30	27	22	16	11	6	3	2	1	0	0	0	0	0	0	0	0
1985	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	15	12	9	6	3	2	1	0	0	0	0	0	0	0	0
1986		15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	12	10	8	5	3	1	1	0	0	0	0	0	0	0
1987			14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	12	10	7	5	3	1	1	0	0	0	0	0	0
1988				15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	12	10	8	5	3	1	1	0	0	0	0	0
1989					14	14	14	14	14	14	14	14	14	14	14	14	13	13	13	12	11	9	7	4	2	1	1	0	0	0	0
1990						12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	11	10	8	6	4	2	1	1	0	0	0
1991							18	18	18	18	18	18	18	18	18	18	18	18	17	17	17	16	14	12	9	6	3	2	1	0	0
1992								49	49	49	49	49	49	49	49	49	49	49	48	48	48	46	44	40	33	24	16	9	5	2	1
1993									32	32	32	32	32	32	32	32	32	32	32	32	32	31	31	29	26	22	16	10	6	3	2
1994										117	117	117	117	117	117	117	117	117	117	117	117	116	115	112	106	96	80	59	38	21	11
Totl	256	271	285	300	314	325	342	389	418	529	518	501	478	450	420	390	360	333	308	286	267	248	230	209	184	153	117	81	50	27	14

SECTOR: TRANSPORTATION, COMMUNICATION & UTILITIES

Program: Energy Management Services — Lifetime: 8 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1977	13	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	21	15	10	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	42	35	26	17	9	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	54	48	40	30	19	11	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	62	58	53	44	32	21	12	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	72	70	67	60	50	37	24	13	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	68	67	65	62	56	46	34	22	12	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	53	53	52	51	48	44	36	27	17	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	49	49	49	48	47	45	40	34	25	16	9	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		41	41	41	41	39	38	34	28	21	13	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			31	31	30	30	29	28	25	21	15	10	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				23	23	22	22	22	21	19	15	11	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					25	25	25	24	24	23	20	17	13	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						28	27	27	27	26	25	23	19	14	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							31	30	30	30	29	28	25	21	15	10	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0
1992								46	45	45	45	43	41	37	31	23	15	8	4	2	1	1	0	0	0	0	0	0	0	0	0
1993									34	34	34	34	33	31	28	23	17	11	6	3	2	1	0	0	0	0	0	0	0	0	0
Totl	434	446	439	414	385	355	327	317	301	257	218	183	152	122	94	66	43	25	13	7	3	2	1	0	0	0	0	0	0	0	0

Program: New Construction — Lifetime: 40 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1988				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1989					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1990						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1991							8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1992								4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1993									8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Totl				1	3	5	13	17	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: TRANSPORTATION, COMMUNICATION & UTILITIES																															
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	4	4	4	4	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	5	5	5	5	5	5	5	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	17	17	17	17	17	17	16	16	14	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	18	18	18	18	18	18	18	17	17	15	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		10	10	10	10	10	10	9	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			8	8	8	8	8	8	8	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				4	4	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						7	7	7	7	7	7	7	7	6	6	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1991							19	19	19	19	19	19	18	18	17	15	13	9	6	3	2	1	0	0	0	0	0	0	0	0	0
1992								14	14	14	14	14	13	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0
1993									40	40	40	40	40	39	39	38	36	32	27	20	13	7	4	2	1	0	0	0	0	0	0
Totl	46	56	63	67	70	76	93	104	140	133	124	114	104	95	86	77	67	55	42	29	18	10	5	2	1	1	0	0	0	0	0
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: COMMERCIAL																															
Program: Thermal Storage											Lifetime: 20 years																				
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										121	121	121	121	121	121	121	121	121	121	121	121	121	120	120	118	115	109	99	82	61	39
Totl									0	121	121	121	121	121	121	121	121	121	121	121	121	121	120	120	118	115	109	99	82	61	39
CATEGORY: FUEL SUBSTITUTION																															
SECTOR: COMMERCIAL																															
Program: Fuel Substitution - Elect. Replaces Nat. Gas											Lifetime: 20 years																				
1992								-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1993									-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1994										-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1
Totl								-0	-0	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1
SECTOR: INDUSTRIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 20 years																				
1990						172	172	172	172	172	172	172	172	172	172	172	172	171	171	170	168	164	156	141	117	86	55	31	16	8	4
1991							13	13	13	13	13	13	13	13	13	13	13	13	13	13	12	12	12	11	10	9	6	4	2	1	1
1992								68	68	68	68	68	68	68	68	68	68	68	68	68	68	67	67	65	62	56	46	34	22	12	7
1993									58	58	58	58	58	58	58	58	58	58	58	58	58	58	57	57	55	52	47	39	29	19	11
1994										2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1
Totl						172	184	253	311	313	313	313	313	313	313	313	313	312	312	311	308	303	294	276	246	205	157	111	71	41	22
Program: Fuel Substitution - Elect. Replaces Nat. Gas											Lifetime: 20 years																				
1992								-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1	-1	-0
1994										-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-3	-3	-2	-1
Totl								-3	-3	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-5	-4	-3	-2

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: FUEL SUBSTITUTION																															
SECTOR: RESIDENTIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 20 years																				
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY: LOAD BUILDING																															
SECTOR: INDUSTRIAL																															
Program: Load Building											Lifetime: 1 years																				
1992								-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									-1	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl								-0	-1	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY: LOAD RETENTION																															
SECTOR: COMMERCIAL																															
Program: Load Retention											Lifetime: 1 years																				
1994										-1195	-598	-383	-218	-114	-57	-27	-13	-6	-3	0	0	0	0	0	0	0	0	0	0	0	0
Totl										-1195	-598	-383	-218	-114	-57	-27	-13	-6	-3	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Load Retention											Lifetime: 1 years																				
1992								-1948	-974	-625	-355	-186	-92	-45	-21	-10	-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									-2799	-1399	-898	-511	-267	-133	-64	-31	-15	-7	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										-1461	-730	-469	-266	-139	-69	-34	-16	-8	-4	0	0	0	0	0	0	0	0	0	0	0	0
Totl								-1948	-3773	-3485	-1984	-1165	-626	-317	-155	-74	-35	-15	-4	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: AGRICULTURAL																															
Program: Energy Management Services											Lifetime: 9 years																				
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	3	3	3	3	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								4	4	4	4	4	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1993									4	4	4	4	4	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1994										4	4	4	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
Totl	8	9	10	11	11	12	13	16	18	20	19	17	16	15	13	11	9	6	4	2	1	1	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl						0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Program: Energy Efficiency Incentives											Lifetime: 8 years																				
1990						1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl						1	1	1	2	3	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1978	40	29	19	11	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	9	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	41	37	31	23	14	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	17	16	15	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	45	43	41	37	31	23	15	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	48	47	46	44	40	33	24	16	9	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	6	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	6	6	6	5	5	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		6	6	6	5	5	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					10	10	10	10	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						13	13	13	12	12	12	10	9	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							12	12	12	12	11	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1992								1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1993									12	12	12	12	11	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0
1994										8	8	8	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0
Totl	211	198	176	151	132	116	101	80	75	70	62	54	46	38	30	22	16	10	6	3	2	1	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1990						9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1991							13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
1992								7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1993									11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1994										22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Totl	2	2	2	2	2	11	24	31	42	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1981	6	6	6	6	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	12	12	12	12	12	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	9	9	9	9	9	9	9	8	6	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			-1	-1	-1	-1	-1	-1	-1	-1	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1988				4	4	4	4	4	4	4	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					12	12	12	12	12	12	12	12	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1990						25	25	25	25	25	25	24	24	22	20	17	12	8	5	2	1	1	0	0	0	0	0	0	0	0	0
1991							45	45	45	45	45	45	44	43	41	37	31	23	15	8	4	2	1	0	0	0	0	0	0	0	0
1992								57	57	57	57	57	57	56	55	52	47	39	29	18	10	5	3	1	1	0	0	0	0	0	0
1993									54	54	54	54	54	53	53	51	49	44	37	27	17	10	5	3	1	1	0	0	0	0	0
1994										61	61	61	60	60	60	59	58	55	50	41	30	19	11	6	3	1	1	0	0	0	0
Totl	27	29	28	31	43	66	109	163	212	268	263	259	255	249	239	224	201	171	135	98	64	38	20	10	5	2	1	1	0	0	0
SECTOR: SYSTEM EFFICIENCY																															
Program: Voltage Reduction											Lifetime: 40 years																				
1977	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	26	25	22
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	122	122	120	117
1980	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1981	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1982	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
1983	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
1984	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1985	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Totl	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	247	247	246	245	242	236
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 10 years																				
1978	16	15	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 10 years																				
1980	9	9	8	7	6	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	9	9	9	9	9	8	8	6	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							11	10	10	10	10	10	10	9	9	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									5	5	5	5	5	5	5	4	4	3	2	2	1	0	0	0	0	0	0	0	0	0	0
1994										4	4	4	4	4	4	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0
Totl	54	53	50	45	40	36	39	33	33	32	28	26	24	22	20	17	14	11	7	5	3	1	1	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1993									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Program: Energy Efficiency Incentives											Lifetime: 10 years																				
1981	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1988				1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						10	10	10	10	10	10	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							14	14	14	14	14	14	14	13	12	10	7	5	3	1	1	0	0	0	0	0	0	0	0	0	0
1992								28	28	28	28	28	28	27	26	23	19	14	9	5	3	1	1	0	0	0	0	0	0	0	0
1993									20	20	20	20	20	20	19	18	16	14	10	6	4	2	1	0	0	0	0	0	0	0	0
1994										25	25	25	25	25	25	24	23	21	17	13	8	5	2	1	1	0	0	0	0	0	0
Totl	5	5	5	6	8	17	31	58	77	101	101	99	98	95	89	81	69	55	40	26	15	8	4	2	1	0	0	0	0	0	0
SECTOR: STREET LIGHTING																															
Program: Streetlight Conversion											Lifetime: 99 years																				
1979	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1980	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1981	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1982	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1983	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1984	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

CATEGORY: CONSERVATION
SECTOR: RESIDENTIAL

Program: Energy Management Services — Lifetime: 5 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	13	11	9	7	6	5	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Program: Weather Retrofit & Incentives — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	4	4	4	4	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Program: Direct Assistance — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
Totl	1	1	1	2	2	2	2	2	3	4	4	4	4	4	4	3	3	3	3	3	2	2	2	1	1	1	0	0	0	0	0

Program: Solar Retrofit & Incentives — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: RESIDENTIAL																															
Program: New Construction											Lifetime: 40 years																				
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1992								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	6	6	6	6	6	7	8	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Program: Master Meter											Lifetime: 40 years																				
1978	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1979	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1980	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1981	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1982	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1983	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1985	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Totl	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Program: Other											Lifetime: 15 years																				
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Appliance Efficiency Incentives											Lifetime: 18 years																				
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	1	0	0	0	0	0
1991							12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	10	8	6	4	2	1	1	0	0
1992								16	16	16	16	16	16	16	16	16	16	16	15	15	15	15	14	13	11	8	5	3	1	1	0
1993									22	22	22	22	22	22	22	22	22	22	22	22	22	21	21	20	18	15	11	7	4	2	1
1994										25	25	25	25	25	25	25	25	25	25	25	25	25	25	24	23	21	17	13	8	5	2
Totl	2	2	2	2	2	5	17	33	55	80	80	80	80	80	79	79	79	78	78	77	76	75	72	66	58	48	36	24	14	8	4
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: COMMERCIAL																															
Program: Time of Use											Lifetime: 1 years																				
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: COMMERCIAL																															
Program: Thermal Storage											Lifetime: 30 years																				
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-0	-0
1987			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1988				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1989					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1990						-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	0	-0	2	4	6	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Program: Load Management											Lifetime: 1 years																				
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Thermal Storage											Lifetime: 30 years																				
1990						-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
Totl						-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
SECTOR: RESIDENTIAL																															
Program: Pool Pump Timer											Lifetime: 3 years																				
1980	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY: FUEL SUBSTITUTION																															
SECTOR: COMMERCIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 20 years																				
1986		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	6	4	3	2	1	0	0	0	0	0	0
1987			4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0
1988				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0
1989					5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	2	1	0	0	0	0
1990						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0
1991							4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	1	1	0	0
1993									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
Totl		8	12	16	21	23	27	27	27	27	27	27	27	27	27	27	27	27	26	25	23	20	17	14	10	7	5	3	2	1	0
Program: Gas Air Conditioning											Lifetime: 1 years																				
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: FUEL SUBSTITUTION																															
SECTOR: COMMERCIAL																															
Program: Fuel Substitution - Elect. Replaces Nat. Gas											Lifetime:		1 years																		
1990						-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl						-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.									2	1	Lifetime:		1 years																		
1993										1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994									2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl																															
Program: Fuel Substitution - Elect. Replaces Nat. Gas											Lifetime:		1 years																		
1990						-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl						-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SACRAMENTO MUNICIPAL UTILITY DISTRICT

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1981	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		4	4	4	4	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						16	16	15	15	15	14	13	11	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							23	23	23	23	22	21	19	16	12	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1992								16	16	16	16	15	15	13	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1993									16	16	16	16	15	15	13	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0
1994										16	16	16	16	15	15	13	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0
Totl	18	22	24	25	25	38	58	71	84	96	92	86	79	69	57	43	30	19	11	6	3	1	1	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1993									2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1994										2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Totl						0	0	2	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1987			1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				4	4	4	4	4	4	4	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					7	7	7	7	7	7	6	6	6	5	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1990						3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							3	3	3	3	3	3	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1992								2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1993									2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0
1994										2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0
Totl			1	5	12	15	18	20	22	24	24	24	23	21	19	16	12	9	7	4	3	2	1	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 10 years																				
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SACRAMENTO MUNICIPAL UTILITY DISTRICT

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 10 years																				
1991							3	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1993									2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1994										2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0
Totl	2	2	2	2	3	3	6	7	9	10	10	9	9	9	8	7	6	4	3	2	1	1	0	0	0	0	0	0	0	0	0
Program: Energy Efficiency Incentives											Lifetime: 10 years																				
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl			0	0	1	1	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: RESIDENTIAL																															
Program: Energy Management Services											Lifetime: 20 years																				
1977	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	2	2	2	2	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1984	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0
1985	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0
1986		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0
1987			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1	1	0	0	0	0	0	0	0
1988				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0
1989					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0
1990						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0
Totl	14	16	19	21	24	25	25	25	25	25	25	24	24	23	22	20	19	18	16	14	12	10	8	6	4	2	1	1	0	0	0
Program: Direct Assistance											Lifetime: 15 years																				
1990						2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0
1991							25	25	25	25	25	25	25	25	25	25	24	24	23	20	17	13	8	5	2	1	1	0	0	0	0
1992								25	25	25	25	25	25	25	25	25	25	24	24	23	20	17	13	8	5	2	1	1	0	0	0
1993									25	25	25	25	25	25	25	25	25	25	24	24	23	20	17	13	8	5	2	1	1	0	0
1994										25	25	25	25	25	25	25	25	25	25	24	24	23	20	17	13	8	5	2	1	1	0
Totl						2	27	52	77	102	102	102	102	102	102	101	101	100	97	93	85	73	58	42	28	16	9	4	2	1	0
Program: New Construction											Lifetime: 30 years																				
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SACRAMENTO MUNICIPAL UTILITY DISTRICT

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: RESIDENTIAL																															
Program: New Construction											Lifetime: 30 years																				
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1992								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1993									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	2	2	2	2	2	2	3	4	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: RESIDENTIAL																															
Program: Pool Pump Timer											Lifetime: 3 years																				
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Thermal Storage											Lifetime: 30 years																				
1988				-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1989					-1	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1991							-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1992								-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1993									-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1994										-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Totl				-0	-1	-1	-2	-3	-4	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
CATEGORY: FUEL SUBSTITUTION																															
SECTOR: RESIDENTIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 20 years																				
1987			12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	11	10	8	6	4	2	1	1	0	0	0	0
1988				20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	18	17	14	10	7	4	2	1	0	0	0	0
1989					37	37	37	37	37	37	37	37	37	37	37	37	36	36	36	36	35	33	30	25	18	12	7	3	2	1	0
1990						35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	34	33	32	29	24	17	11	6	3	2	1
1991							15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	13	12	10	7	5	3	1	1
Totl			12	32	69	104	119	119	119	119	119	119	119	119	119	118	118	118	117	115	112	106	95	81	63	44	28	16	8	4	2

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: OTHER UTILITIES

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: AGRICULTURAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										7	7	7	7	7	6	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0
Totl	0	0	0	0	0	0	0	1	1	8	8	8	8	8	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	1	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl							1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl				0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: SYSTEM EFFICIENCY																															
Program: Voltage Reduction											Lifetime: 99 years																				
1983	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1992								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1993									2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1994										3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Totl	2	2	2	2	2	4	5	7	9	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Program: Other System Efficiency (not Volt. Reduc.)											Lifetime: 99 years																				
1981	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1982	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: OTHER UTILITIES

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: SYSTEM EFFICIENCY																															
Program: Other System Efficiency (not Volt. Reduc.)											Lifetime: 99 years																				
1983	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Totl	3	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 10 years																				
1993									1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl									1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: STREET LIGHTING																															
Program: Streetlight Conversion											Lifetime: 99 years																				
1983	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SECTOR: RESIDENTIAL																															
Program: Energy Management Services											Lifetime: 20 years																				
1983	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1987			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0
1988				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	4	4	6	8	8	9	9	9	9	9	9	9	9	9	9	9	9	8	8	7	6	5	4	3	2	1	1	0	0	0	0
Program: Weather Retrofit & Incentives											Lifetime: 20 years																				
1983	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1984	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	1	1	0
1994										2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1
Totl	4	4	7	7	8	8	8	8	11	13	13	13	13	13	13	13	12	12	11	10	9	8	8	7	6	5	5	4	3	2	1

FORM 8.2 ANNUAL AND CUMULATIVE GWH IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: OTHER UTILITIES

CATEGORY: CONSERVATION
SECTOR: RESIDENTIAL

Program: Direct Assistance — Lifetime: 20 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl		0	1	1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1	1	1	1	0	0

Program: New Construction — Lifetime: 30 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl						0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Program: Other — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Program: Appliance Efficiency Incentives — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1983	5	5	5	5	5	5	5	5	5	5	5	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	6	6	6	6	6	6	6	6	6	6	6	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	14	17	18	18	18	18	18	18	18	18	17	16	15	13	10	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: LOS ANGELES DEPARTMENT OF WATER & POWER

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1980	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	29	28	25	21	15	10	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	12	12	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	22	22	21	20	18	15	11	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	9	9	9	9	8	7	6	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	9	9	9	9	8	8	7	6	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	85	84	81	74	64	51	38	27	18	11	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1994										2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Totl								0	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					5	5	5	5	5	5	5	5	4	4	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						4	4	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							3	3	3	3	3	3	3	3	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1992								6	6	5	5	5	5	5	5	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0
1993									2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0
1994										5	5	5	5	5	5	5	5	5	4	4	3	2	1	0	0	0	0	0	0	0	0
Totl			0	4	9	13	16	21	23	28	28	28	27	26	24	21	18	14	11	8	5	3	2	1	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 15 years																				
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	9	9	9	9	9	9	9	9	9	8	8	7	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Energy Efficiency Incentives											Lifetime: 15 years																				
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
Totl										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: LOS ANGELES DEPARTMENT OF WATER & POWER

CATEGORY: CONSERVATION
SECTOR: RESIDENTIAL

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Program: Energy Management Services											Lifetime: 5 years																				
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	0	0	0	0	0	0	1	3	5	11	10	9	8	6	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 20 years																				
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
Totl										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
Program: Master Meter											Lifetime: 40 years																				
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Appliance Efficiency Incentives											Lifetime: 15 years																				
1987			2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1988				4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0
1989					8	8	8	8	8	8	8	8	8	8	8	8	7	7	6	4	3	2	1	0	0	0	0	0	0	0	0
1990						5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	1	0	0	0	0	0	0	0	0
1991							4	4	4	4	4	4	4	4	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0
1992								2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0
Totl			2	6	14	19	23	24	24	24	24	24	24	24	24	23	22	20	17	14	10	7	4	2	1	1	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: LOS ANGELES DEPARTMENT OF WATER & POWER

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: COMMERCIAL																															
Program: Time of Use											Lifetime: 1 years																				
1992								6	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl								6	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Thermal Storage											Lifetime: 30 years																				
1988				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl				1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SECTOR: RESIDENTIAL																															
Program: Pool Pump Timer											Lifetime: 3 years																				
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: AGRICULTURAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1977	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	7	7	7	7	6	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	5	5	5	5	5	5	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		10	10	10	9	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			3	3	3	3	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0
Totl	24	33	33	35	35	35	33	31	28	26	22	17	14	11	9	7	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0
Program: Energy Efficiency Incentives											Lifetime: 10 years																				
1984	7	7	7	7	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	3	3	3	3	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		7	7	7	7	7	7	7	6	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						16	16	16	16	15	15	15	14	13	11	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0
1991							22	22	22	21	21	21	21	20	18	15	11	7	4	2	1	0	0	0	0	0	0	0	0	0	0
1992								14	14	14	14	14	14	13	13	12	10	7	5	3	1	1	0	0	0	0	0	0	0	0	0
1993									5	5	5	5	5	5	5	5	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0
1994										9	9	9	9	9	9	9	8	7	6	5	3	2	1	0	0	0	0	0	0	0	0
Totl	10	17	18	19	21	37	58	71	74	81	77	73	69	64	57	49	39	28	19	12	7	4	2	1	0	0	0	0	0	0	0
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1976	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	11	9	7	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	7	7	6	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	24	23	21	17	13	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	24	23	22	20	17	12	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	18	17	17	16	14	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	37	36	36	35	33	30	25	18	12	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	12	12	12	12	11	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		17	17	17	17	16	16	14	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1988				1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					6	6	6	6	5	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						19	19	19	18	18	17	15	13	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									5	5	5	5	5	4	4	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1994										7	7	7	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0
Totl	155	160	149	134	123	122	106	90	76	68	56	47	38	30	23	17	12	7	4	2	1	1	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1987			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1992								16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
1993									22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
1994										16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Totl			3	3	3	4	10	26	48	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1980	13	13	12	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	3	3	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	9	9	9	9	9	9	8	8	6	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	43	43	43	43	42	42	41	39	35	29	21	14	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	21	21	21	21	21	21	21	20	19	17	14	11	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		19	19	19	19	19	19	18	18	17	15	13	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				7	7	7	7	7	7	7	6	6	6	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					25	25	25	25	24	24	24	23	22	20	17	12	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0
1990						29	29	29	29	29	29	29	28	27	24	20	15	9	5	3	1	1	0	0	0	0	0	0	0	0	0
1991							42	42	42	42	42	41	41	40	38	34	28	21	13	8	4	2	1	0	0	0	0	0	0	0	0
1992								44	44	44	44	44	44	43	42	40	36	30	22	14	8	4	2	1	0	0	0	0	0	0	0
1993									26	26	26	26	26	26	26	25	24	22	18	13	9	5	3	1	1	0	0	0	0	0	0
1994										59	59	59	59	58	58	57	56	53	48	40	29	19	11	6	3	1	1	0	0	0	0
Totl	90	109	109	115	138	164	201	239	256	303	287	269	251	234	216	195	170	141	110	79	52	31	17	9	4	2	1	0	0	0	0
SECTOR: SYSTEM EFFICIENCY																															
Program: Voltage Reduction											Lifetime: 99 years																				
1979	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
1980	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
1981	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
1982	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1983	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1984	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1985	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1986		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Totl	204	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

CATEGORY: CONSERVATION

SECTOR: SYSTEM EFFICIENCY

Program: Other System Efficiency (not Volt. Reduc.) Lifetime: 99 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1984	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1985	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1986		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	15	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

SECTOR: INDUSTRIAL

Program: Energy Management Services Lifetime: 10 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1976	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	7	7	6	6	6	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	7	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	5	5	5	5	5	4	4	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	10	10	10	10	10	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		5	5	5	5	5	5	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			4	4	4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							3	3	3	3	3	3	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								2	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	47	49	50	49	46	43	41	37	33	28	22	18	14	11	8	6	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0

Program: Energy Efficiency Incentives Lifetime: 10 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1980	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	3	3	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	12	12	11	11	11	11	10	9	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	6	6	6	6	6	6	5	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		5	5	5	5	5	5	5	5	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					3	3	3	3	3	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						6	6	6	6	6	6	6	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							12	12	12	12	12	12	12	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0
1992								10	10	10	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0
1993									10	10	10	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0
1994										18	18	18	18	18	17	17	16	15	12	9	6	3	2	1	0	0	0	0	0	0	0
Totl	24	29	30	33	35	40	50	58	65	78	73	68	64	59	54	48	41	32	24	16	9	5	3	1	1	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

CATEGORY: CONSERVATION
SECTOR: RESIDENTIAL

Program: Energy Management Services — Lifetime: 20 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1980	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1984	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0
1985	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0
1986		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	3	2	1	1	0	0	0	0	0	0	0
1987			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0
1988				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0
1989					3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0
1990						3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	0	0	0	0
1991							2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0
1992								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0
1993									2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0
1994										2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1
Totl	20	25	28	30	33	36	38	40	42	44	44	44	44	44	43	42	41	38	36	32	28	24	20	16	13	10	8	6	4	3	1

Program: Weather Retrofit & Incentives — Lifetime: 20 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1980	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	5	3	2	1	1	0	0	0	0	0	0	0	0	0
1984	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	1	1	0	0	0	0	0	0	0	0
1985	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0
1986		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0
1987			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0
1993									3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	1	1	0
1994										2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1
Totl	26	32	35	35	35	35	35	37	40	42	42	42	41	41	40	39	37	35	31	27	22	17	13	10	8	7	6	5	4	2	1

Program: Direct Assistance — Lifetime: 20 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1988				5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	1	0	0	0	0	0
1989					9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	6	5	3	2	1	0	0	0
1990						6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	4	3	2	1	1	0	0
1991							5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	1	1	0	0
1992								5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	2	1	0
1993									4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	1	1
1994										3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1
Totl				5	14	20	24	29	33	37	37	37	37	37	37	37	37	37	36	36	35	34	32	29	25	20	16	11	8	5	3

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

CATEGORY: CONSERVATION
SECTOR: RESIDENTIAL

Program: Solar Retrofit & Incentives — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	4	4	4	4	4	4	4	4	4	3	3	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Program: New Construction — Lifetime: 30 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1977	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
1978	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	1	0	0	0	0	0
1979	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0
1980	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	1	0	0	0
1981	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	2	1	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0
1984	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1
1985	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	2
1986		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	4
1991							3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1992								5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1993									5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1994										4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Totl	23	29	29	29	29	29	32	37	41	45	45	45	45	45	45	45	45	45	45	45	44	44	43	41	39	37	35	32	30	27	24

Program: Master Meter — Lifetime: 40 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1982	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1983	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Program: Other — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Program: Appliance Efficiency Incentives — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1976	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	17	17	17	17	17	16	15	14	12	9	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	5	5	5	5	5	5	5	4	4	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	6	6	6	6	6	6	6	6	6	6	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	6	6	6	6	6	6	6	6	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	6	6	6	6	6	6	6	6	6	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1986		9	9	9	9	9	9	9	9	9	9	9	9	8	8	6	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1987			5	5	5	5	5	5	5	5	5	5	5	5	5	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1988				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

CATEGORY: CONSERVATION

SECTOR: RESIDENTIAL

Program: Appliance Efficiency Incentives — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1989					13	13	13	13	13	13	13	13	13	13	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0
1990						7	7	7	7	7	7	7	7	7	7	7	6	6	6	5	3	2	1	1	0	0	0	0	0	0	0
1991							17	17	17	17	17	17	17	17	17	17	17	16	15	14	11	8	5	3	2	1	0	0	0	0	0
1992								16	16	16	16	16	16	16	16	16	16	16	16	15	13	11	8	5	3	2	1	0	0	0	0
1993									9	9	9	9	9	9	9	9	9	9	9	9	8	8	6	5	3	2	1	0	0	0	0
1994										8	8	8	8	8	8	8	8	8	8	8	7	7	6	5	4	2	1	1	0	0	0
Totl	52	61	66	67	80	86	101	115	120	122	117	111	106	100	94	88	81	75	67	59	50	39	29	20	12	7	4	2	1	0	0

SECTOR: TRANSPORTATION, COMMUNICATION & UTILITIES

Program: Energy Management Services — Lifetime: 8 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1976	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	6	6	6	6	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	26	26	24	22	19	16	13	11	8	6	4	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Program: Energy Efficiency Incentives — Lifetime: 11 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1980	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	5	5	5	5	5	5	5	5	4	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	3	3	3	3	3	3	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						2	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1992								2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1993									2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0
Totl	11	13	13	13	14	16	17	19	20	19	17	15	13	11	10	8	7	5	4	3	1	1	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: AGRICULTURAL																															
Program: Load Management											Lifetime: 1 years																				
1981	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	14	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	20	10	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		24	12	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	53	53	32	18	10	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: COMMERCIAL																															
Program: Time of Use											Lifetime: 1 years																				
1980	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	10	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	19	10	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		22	11	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										350	175	112	64	33	17	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0
Totl	38	43	23	14	7	4	2	1	0	350	175	112	64	33	17	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0
Program: Thermal Storage											Lifetime: 30 years																				
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2
1987			9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7
1989					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1990						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1991							2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1992								3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1993									4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Totl	0	3	11	11	14	15	17	20	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	22
Program: Load Management											Lifetime: 1 years																				
1980	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	15	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			23	12	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	21	13	30	15	9	13	14	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Thermal Storage											Lifetime: 30 years																				
1994										3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Totl										3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: RESIDENTIAL																															
Program: Pool Pump Timer											Lifetime: 13 years																				
1977	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	19	19	18	17	16	13	10	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	59	59	58	56	54	48	40	30	19	11	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	27	27	27	27	26	25	22	18	14	9	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	15	15	15	15	15	15	14	13	10	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	8	8	8	8	8	8	8	7	7	5	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	10	10	10	10	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	14	14	14	14	14	14	14	14	13	13	11	10	7	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	14	14	14	14	14	14	14	14	14	13	13	11	10	7	4	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		15	15	15	15	15	15	15	15	15	14	14	12	10	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Totl	174	188	186	183	176	165	148	127	105	84	66	51	38	26	17	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0
Program: Time of Use											Lifetime: 1 years																				
1983	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	13	14	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY: FUEL SUBSTITUTION																															
SECTOR: RESIDENTIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 20 years																				
1987			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0
1988				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
Totl			3	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	6	6	5	4	2	2	1	1	1	0	0
CATEGORY: LOAD BUILDING																															
SECTOR: COMMERCIAL																															
Program: Load Building											Lifetime: 1 years																				
1994										1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl										1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Load Building											Lifetime: 1 years																				
1993									-10	-5	-3	-2	-1	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl									-10	-1	-1	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY: LOAD RETENTION																															
SECTOR: COMMERCIAL																															
Program: Load Retention											Lifetime: 1 years																				
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: PACIFIC GAS & ELECTRIC

CATEGORY: LOAD RETENTION
SECTOR: INDUSTRIAL
Program: Load Retention Lifetime: 1 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1987			-8	-4	-3	-1	-1	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				-26	-13	-8	-5	-2	-1	-1	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					-41	-20	-13	-7	-4	-2	-1	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						-21	-11	-7	-4	-2	-1	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							-28	-14	-9	-5	-3	-1	-1	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								-34	-17	-11	-6	-3	-2	-1	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									-39	-20	-13	-7	-4	-2	-1	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										-82	-41	-26	-15	-8	-4	-2	-1	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0
Totl			-8	-30	-56	-52	-57	-65	-74	-122	-65	-39	-22	-11	-5	-3	-1	-1	-0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

CATEGORY: CONSERVATION
SECTOR: AGRICULTURAL
Program: Energy Management Services — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1977	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	4	4	4	4	4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	4	4	4	4	4	4	4	4	4	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		4	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1987			2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1988				3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0
1989					3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0
1990						3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0
1991							2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0
1992								4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0
1993									3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0
1994										3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	1	0	0	0	0
Totl	25	28	30	33	36	38	40	43	45	45	43	41	38	35	31	28	25	22	19	16	13	11	8	6	4	2	1	1	0	0	0

Program: Energy Efficiency Incentives — Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1987			2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
1991							8	8	8	8	8	8	8	8	8	8	8	8	7	6	5	4	3	1	1	0	0	0	0	0	0
1992								3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	1	1	0	0	0	0	0	0	0
1993									3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0
1994										74	74	74	74	74	74	74	74	74	73	72	71	67	61	50	37	24	14	7	4	2	1
Totl			2	1	2	3	11	13	16	90	90	90	90	90	90	90	89	88	87	85	81	75	67	54	39	25	14	7	4	2	1

SECTOR: COMMERCIAL
Program: Energy Management Services — Lifetime: 8 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1977	19	12	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	37	27	17	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	59	49	36	23	13	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	86	78	65	48	31	17	9	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	99	94	85	71	52	33	19	10	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	116	113	108	97	81	60	38	22	11	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	109	108	105	100	90	75	55	35	20	11	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	86	85	84	82	78	70	58	43	28	16	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	80	79	79	78	76	72	65	54	40	26	15	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		56	56	56	55	54	51	46	38	28	18	10	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			50	49	49	49	47	45	41	34	25	16	9	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				34	34	34	33	32	31	28	23	17	11	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					40	40	40	39	38	37	33	27	20	13	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						47	46	46	46	44	42	38	32	23	15	9	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1991							43	43	43	42	41	39	36	29	22	14	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0
1992								62	62	61	60	59	56	51	42	31	20	11	6	3	1	1	0	0	0	0	0	0	0	0	0
1993									68	68	68	67	65	62	56	46	34	22	12	7	3	2	1	0	0	0	0	0	0	0	0
1994										22	22	21	21	21	20	18	15	11	7	4	2	1	0	0	0	0	0	0	0	0	0
Totl	690	702	692	651	606	561	511	485	474	425	365	312	263	216	170	126	85	52	29	15	8	4	2	1	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1988				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1989					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1990						4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1991							25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
1992								7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1993									12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1994										15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Totl				2	5	9	34	41	53	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	18	18	18	18	18	18	18	17	15	13	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	18	18	18	18	18	18	18	17	17	15	12	9	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		16	16	16	16	16	15	15	15	14	13	11	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			12	12	12	12	12	12	12	12	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				6	6	6	6	6	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					5	5	5	5	5	5	5	5	5	4	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						10	10	10	10	10	10	9	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1991							22	22	22	22	22	22	22	21	20	18	15	11	7	4	2	1	1	0	0	0	0	0	0	0	0
1992								12	12	12	12	12	12	12	12	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0
1993									59	59	59	59	59	59	58	56	54	48	40	30	19	11	6	3	1	1	0	0	0	0	0
1994										55	55	55	55	55	55	54	53	50	45	38	28	18	10	5	3	1	1	0	0	0	0
Totl	47	62	75	81	86	94	115	124	179	227	218	206	193	181	169	156	142	124	102	77	52	31	17	9	4	2	1	0	0	0	0
SECTOR: SYSTEM EFFICIENCY																															
Program: Voltage Reduction											Lifetime: 99 years																				
1980	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
1981	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
1982	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
1983	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
1984	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
1985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1986		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1987			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1988				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1989					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	456	459	460	461	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

CATEGORY: CONSERVATION

SECTOR: SYSTEM EFFICIENCY

Program: Other System Efficiency (not Volt. Reduc.) Lifetime: 99 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1987			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1988				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl			1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

SECTOR: INDUSTRIAL

Program: Energy Management Services Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1977	26	26	26	25	24	21	18	13	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	38	38	38	37	36	35	31	26	19	12	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	51	51	50	50	50	48	46	41	34	25	16	9	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	67	67	67	67	67	66	64	61	55	46	34	22	12	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	74	74	74	74	73	73	72	70	67	60	50	37	24	13	7	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	84	84	84	84	84	84	83	82	80	76	69	57	42	27	15	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1983	78	78	78	78	78	78	78	77	76	74	71	64	53	39	25	14	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0
1984	61	61	61	61	61	61	61	61	60	60	58	55	50	41	30	20	11	6	3	1	1	0	0	0	0	0	0	0	0	0	0
1985	56	56	56	56	56	56	56	56	56	56	55	54	51	46	38	28	18	10	5	3	1	1	0	0	0	0	0	0	0	0	0
1986		40	40	40	40	40	40	40	40	40	40	39	38	36	33	27	20	13	7	4	2	1	0	0	0	0	0	0	0	0	0
1987			35	35	35	35	35	35	35	35	35	35	34	33	32	29	24	18	11	6	3	2	1	0	0	0	0	0	0	0	0
1988				36	36	36	36	36	36	36	36	36	35	35	34	32	29	24	18	11	7	3	2	1	0	0	0	0	0	0	0
1989					29	29	29	29	29	29	29	29	29	29	29	28	26	24	20	15	9	5	3	1	1	0	0	0	0	0	0
1990						39	39	39	39	39	39	39	39	38	38	38	37	35	32	26	19	12	7	4	2	1	0	0	0	0	0
1991							24	24	24	24	24	24	24	24	24	24	23	23	22	19	16	12	8	4	2	1	1	0	0	0	0
1992								42	42	42	42	42	42	42	42	42	42	41	40	38	35	29	21	14	8	4	2	1	0	0	0
1993									33	33	33	33	33	33	33	33	33	33	33	32	30	27	23	17	11	6	3	2	1	0	0
1994										18	18	18	18	18	18	18	18	18	18	18	18	17	15	12	9	6	3	2	1	0	0
Totl	535	575	609	643	669	701	712	733	735	711	658	597	532	467	404	347	296	252	212	176	142	110	80	54	33	19	10	5	2	1	1

Program: Energy Efficiency Incentives Lifetime: 15 years

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	10	10	10	10	10	10	10	10	10	10	10	9	9	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	10	10	10	10	10	10	10	10	10	10	10	10	9	9	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1986		9	9	9	9	9	9	9	9	9	9	9	8	8	7	6	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1987			7	7	7	7	7	7	7	7	7	7	7	7	6	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0
1988				4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0
1989					5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	1	1	0	0	0	0	0	0	0	0
1990						3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0
1991							8	8	8	8	8	8	8	8	8	8	8	7	7	6	5	4	3	1	1	0	0	0	0	0	0
1992								7	7	7	7	7	7	7	7	7	7	7	7	6	6	5	3	2	1	1	0	0	0	0	0
1993									25	25	25	25	25	25	25	25	25	25	24	24	23	20	17	13	8	5	2	1	1	0	0
1994										15	15	15	15	15	15	15	15	15	14	14	14	13	12	10	7	5	3	1	1	0	0
Totl	27	36	43	47	52	55	63	70	94	108	107	106	103	99	94	87	80	73	66	60	53	45	36	27	18	10	6	3	1	1	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

CATEGORY: CONSERVATION
SECTOR: RESIDENTIAL

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Program: Energy Management Services											Lifetime: 5 years																				
1978	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	10	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	22	20	16	12	8	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	21	20	18	15	11	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	10	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								3	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									3	3	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										4	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	87	73	59	44	30	19	11	8	8	11	9	8	7	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Weather Retrofit & Incentives											Lifetime: 20 years																				
1983	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1984	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0
1985	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	1	1	0	0	0	0	0	0	0
1986		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	15	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	20	19	16	13	10	7	4	2	1	1	0	0	0	0	0
Program: Direct Assistance											Lifetime: 10 years																				
1983	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		10	10	10	10	10	10	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			13	13	13	13	13	13	12	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				9	8	8	8	8	8	8	8	7	6	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					13	13	13	13	13	13	12	12	10	9	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1990						6	6	6	6	6	6	6	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							6	6	6	6	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1992								15	15	15	15	15	15	14	13	12	10	7	5	3	1	1	0	0	0	0	0	0	0	0	0
1993									5	5	5	5	5	5	5	4	4	3	2	2	1	0	0	0	0	0	0	0	0	0	0
1994										5	5	5	5	5	5	5	5	4	4	3	2	1	1	0	0	0	0	0	0	0	0
Totl	2	12	25	34	47	52	58	72	76	79	75	70	62	54	45	36	28	20	14	8	5	2	1	1	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1991							5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: RESIDENTIAL																															
Program: New Construction											Lifetime: 40 years																				
1992								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1993									4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	3	3	3	3	3	5	10	12	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Program: Other											Lifetime: 15 years																				
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Appliance Efficiency Incentives											Lifetime: 18 years																				
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	10	10	10	10	10	10	10	10	10	9	9	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	15	15	15	15	15	15	15	15	14	14	13	12	10	7	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	11	11	11	11	11	11	11	11	11	11	11	10	9	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1982	10	10	10	10	10	10	10	10	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1983	17	17	17	17	17	17	17	17	17	17	17	16	16	15	14	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0
1984	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1985	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0
1986		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0
1987			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	3	3	2	1	0	0	0	0	0	0	0	0
1988				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	6	5	4	3	1	1	0	0	0	0	0	0
1989					4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	1	1	0	0	0	0	0	0
1990						5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	1	1	0	0	0	0	0
1991							6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	4	3	2	1	1	0	0	0
1992								3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0
1993									5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	2	1	0	0
1994										46	46	46	46	46	46	46	46	46	46	46	46	46	45	44	42	38	32	23	15	8	4
Totl	69	75	80	88	93	97	103	106	110	156	153	150	144	136	127	117	107	99	92	85	79	74	68	61	55	47	37	26	17	9	5
SECTOR: TRANSPORTATION, COMMUNICATION & UTILITIES																															
Program: Energy Management Services											Lifetime: 8 years																				
1977	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	12	11	9	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	14	13	12	10	7	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	16	15	15	13	11	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	15	15	14	14	12	10	8	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	12	12	11	11	11	10	8	6	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	11	11	11	11	10	10	9	7	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		8	8	8	8	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			7	7	7	7	6	6	6	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				5	5	5	5	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					6	5	5	5	5	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SOUTHERN CALIFORNIA EDISON

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: TRANSPORTATION, COMMUNICATION & UTILITIES																															
Program: Energy Management Services											Lifetime: 8 years																				
1990						6	6	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							7	7	7	7	7	6	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								10	10	10	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
1993									10	10	9	9	9	9	8	6	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0
Totl	94	96	94	89	83	76	71	69	68	58	50	42	36	29	22	16	10	6	3	2	1	0	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1991							4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1992								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1993									2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Totl				0	1	1	5	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	3	3	3	3	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							4	4	4	4	4	4	4	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1992								2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1993									8	8	8	8	8	8	8	8	7	7	6	4	3	2	1	0	0	0	0	0	0	0	0
Totl	6	9	10	11	12	13	16	18	26	25	23	22	20	18	17	15	13	11	8	6	3	2	1	0	0	0	0	0	0	0	0
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: COMMERCIAL																															
Program: Thermal Storage											Lifetime: 20 years																				
1983	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0
1984	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0
1985	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	5	4	3	1	1	0	0	0	0	0	0	0
1986		14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	13	11	10	7	4	3	1	1	0	0	0	0	0
1987			18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	16	15	12	9	6	3	2	1	0	0	0	0
1988				7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	5	4	2	1	1	0	0	0	0
1989					7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	5	5	3	2	1	1	0	0	0
1990						3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0
1991							8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	6	4	3	2	1	0
1992								8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	6	4	3	1	1
1993									10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	8	7	5	3	2
Totl	18	32	50	57	64	67	75	84	94	94	94	94	94	94	93	93	92	89	86	81	73	65	55	46	37	29	22	16	10	6	3

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AREA: SOUTHERN CALIFORNIA EDISON

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: RESIDENTIAL																															
Program: Pool Pump Timer											Lifetime: 3 years																				
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	5	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	8	5	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	8	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	31	20	11	6	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY: FUEL SUBSTITUTION																															
SECTOR: COMMERCIAL																															
Program: Fuel Substitution - Elect. Replaces Nat. Gas											Lifetime: 20 years																				
1992								-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1993									-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1994										-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1
Totl								-0	-0	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-1	-1
SECTOR: INDUSTRIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 20 years																				
1990						88	88	88	88	88	88	88	88	88	88	88	88	87	87	87	86	84	79	72	60	44	28	16	8	4	2
1991							4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	2	1	1	0	0
1992								34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	33	32	31	28	23	17	11	6	3
1993									11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	9	8	6	4	2
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
Totl						88	91	125	137	138	138	138	138	138	138	138	137	137	137	136	135	133	128	119	105	85	63	43	26	15	8
Program: Fuel Substitution - Elect. Replaces Nat. Gas											Lifetime: 20 years																				
1992								-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-2	-2	-1	-1	-0	-0
1994										-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-0	-0	-0	-0	-0
Totl								-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1	-1	-0
SECTOR: RESIDENTIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 20 years																				
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY: LOAD BUILDING																															
SECTOR: INDUSTRIAL																															
Program: Load Building											Lifetime: 1 years																				
1992								-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl								-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	0	0	0	0	0	0	0	0	0	0	0	0	0

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AREA: SOUTHERN CALIFORNIA EDISON

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: LOAD RETENTION																															
SECTOR: COMMERCIAL																															
Program: Load Retention												Lifetime: 1 years																			
1994										-165	-82	-53	-30	-16	-8	-4	-2	-1	-0	0	0	0	0	0	0	0	0	0	0	0	0
Totl										-165	-82	-53	-30	-16	-8	-4	-2	-1	-0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Load Retention												Lifetime: 1 years																			
1992								-178	-89	-57	-32	-17	-8	-4	-2	-1	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									-407	-204	-131	-74	-39	-19	-9	-4	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										-201	-101	-65	-37	-19	-10	-5	-2	-1	-0	0	0	0	0	0	0	0	0	0	0	0	0
Totl								-178	-496	-462	-263	-156	-84	-43	-21	-10	-5	-2	-0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: AGRICULTURAL																															
Program: Energy Management Services											Lifetime: 9 years																				
1988				1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl				1	1	1	1	2	3	4	4	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Energy Efficiency Incentives											Lifetime: 8 years																				
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl						0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1979	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	6	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	10	10	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	10	10	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	35	36	34	31	30	28	26	22	20	18	15	13	11	9	7	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: COMMERCIAL																															
Program: New Construction											Lifetime: 40 years																				
1991							3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1992								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1993									3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1994										4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Totl	1	1	1	1	1	3	6	9	11	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1982	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1988				4	4	4	4	4	4	4	4	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						5	5	5	5	5	5	5	4	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1991							10	10	10	10	10	10	9	9	9	8	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0
1992								13	13	13	13	13	13	13	12	12	10	9	6	4	2	1	1	0	0	0	0	0	0	0	0
1993									11	11	11	11	11	11	11	10	10	9	7	5	3	2	1	1	0	0	0	0	0	0	0
1994										13	13	13	13	13	13	13	13	12	11	9	7	4	2	1	1	0	0	0	0	0	0
Totl	3	4	4	8	11	15	25	37	47	60	59	58	57	55	52	49	43	37	29	21	14	8	4	2	1	1	0	0	0	0	0
SECTOR: SYSTEM EFFICIENCY																															
Program: Voltage Reduction											Lifetime: 40 years																				
1982	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1983	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1984	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1985	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Totl	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 10 years																				
1979	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	3	3	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	8	9	9	8	8	8	8	7	7	6	5	5	4	4	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: INDUSTRIAL																															
Program: New Construction											Lifetime: 40 years																				
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Energy Efficiency Incentives											Lifetime: 10 years																				
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
1988				1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1992								5	5	5	5	5	5	5	5	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0
1993									3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
1994										6	6	6	6	6	6	5	5	5	4	3	2	1	1	0	0	0	0	0	0	0	0
Totl	1	1	1	1	2	3	6	11	14	20	20	19	19	18	17	16	13	11	8	5	3	2	1	0	0	0	0	0	0	0	0
SECTOR: RESIDENTIAL																															
Program: Energy Management Services											Lifetime: 5 years																				
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	6	6	5	4	3	3	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Weather Retrofit & Incentives											Lifetime: 15 years																				
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Direct Assistance											Lifetime: 15 years																				
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: RESIDENTIAL																															
Program: Direct Assistance											Lifetime: 15 years																				
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1992								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl						0	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Program: Master Meter											Lifetime: 40 years																				
1979	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Program: Other											Lifetime: 15 years																				
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Appliance Efficiency Incentives											Lifetime: 18 years																				
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
1991							4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	1	1	0	0	0	0
1992								6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	4	3	2	1	1	0	0
1993									3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0
1994										4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	1	1	0
Totl	0	1	1	1	1	1	6	12	14	19	19	19	19	19	19	19	19	18	18	18	18	17	16	15	13	10	7	5	3	1	1
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: COMMERCIAL																															
Program: Thermal Storage											Lifetime: 30 years																				
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	5
1987			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	8
1988				7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6
1989					5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SAN DIEGO GAS & ELECTRIC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: COMMERCIAL																															
Program: Thermal Storage											Lifetime: 30 years																				
1990						5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1991							4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	1	8	18	25	30	35	39	39	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	39	39	38	37	34
Program: Load Management											Lifetime: 1 years																				
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Thermal Storage											Lifetime: 30 years																				
1990						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SECTOR: OTHER																															
Program: Load Management											Lifetime: 1 years																				
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: RESIDENTIAL																															
Program: Pool Pump Timer											Lifetime: 3 years																				
1993									3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl									3	3	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY: FUEL SUBSTITUTION																															
SECTOR: COMMERCIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 20 years																				
1986		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	3	2	1	1	0	0	0	0	0	0	0
1987			4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	2	2	1	1	0	0	0	0	0	0
1988				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0	0	0	0
1989					3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	0	0	0	0
1990						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl		5	8	11	14	16	18	18	18	18	18	18	18	18	18	18	17	17	17	16	15	13	11	8	6	4	2	1	1	0	0
Program: Gas Air Conditioning											Lifetime: 1 years																				
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 1 years																				
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SACRAMENTO MUNICIPAL UTILITY DISTRICT

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1981	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						4	4	4	4	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							11	10	10	10	10	9	9	7	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								7	7	7	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1993									7	7	7	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0
1994										7	7	7	7	7	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0	0	0
Totl	4	5	5	5	6	9	19	25	32	38	37	35	33	29	24	19	13	9	5	3	1	1	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1991							3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1992								3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1993									3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1994										3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Totl				0	0	2	5	8	11	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				2	2	2	2	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						3	3	3	3	3	3	3	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							3	3	3	3	3	3	3	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1992								2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1993									2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0
1994										2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0
Totl			0	2	4	6	9	11	13	14	14	14	14	13	12	11	9	7	5	4	2	1	1	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 10 years																				
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SACRAMENTO MUNICIPAL UTILITY DISTRICT

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 10 years																				
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Totl	0	0	0	1	1	1	2	3	3	4	4	4	4	4	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0
Program: Energy Efficiency Incentives											Lifetime: 10 years																				
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl				0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: RESIDENTIAL																															
Program: Energy Management Services											Lifetime: 20 years																				
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
1988				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
1989					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
1990						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	2	2	3	4	5	6	6	6	6	7	7	7	7	7	7	6	6	6	6	6	5	4	4	3	2	2	1	1	1	0	0
Program: Direct Assistance											Lifetime: 15 years																				
1991							9	9	9	9	9	9	9	9	9	9	9	9	8	7	6	5	3	2	1	0	0	0	0	0	0
1992								9	9	9	9	9	9	9	9	9	9	9	9	8	7	6	5	3	2	1	0	0	0	0	0
1993									9	9	9	9	9	9	9	9	9	9	9	9	8	7	6	5	3	2	1	0	0	0	0
1994										9	9	9	9	9	9	9	9	9	9	9	9	8	7	6	5	3	2	1	0	0	0
Totl							9	18	27	36	36	36	36	36	36	36	36	35	34	33	30	26	21	15	10	6	3	2	1	0	0
Program: New Construction											Lifetime: 30 years																				
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1992								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: SACRAMENTO MUNICIPAL UTILITY DISTRICT

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: INDUSTRIAL																															
Program: New Construction											Lifetime: 30 years																				
1993									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	2	2	2	2	2	2	3	4	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5
CATEGORY: LOAD MANAGEMENT - NONDISPATCHABLE																															
SECTOR: OTHER																															
Program: Load Management											Lifetime: 1 years																				
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: RESIDENTIAL																															
Program: Pool Pump Timer											Lifetime: 3 years																				
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1986		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987			1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988				1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	3	3	3	3	3	2	2	3	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Thermal Storage											Lifetime: 30 years																				
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1992								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1993									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl				0	0	0	1	2	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CATEGORY: FUEL SUBSTITUTION																															
SECTOR: RESIDENTIAL																															
Program: Fuel Substitution-Nat. Gas Replaces Elect.											Lifetime: 20 years																				
1987			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0
1988				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	1	1	0	0	0	0	0
1989					7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	5	5	3	2	1	1	0	0	0
1990						6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	4	3	2	1	1	0	0
1991							3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	1	1	0	0	0
Totl			3	6	13	19	22	22	22	22	22	22	22	22	22	22	22	22	22	21	21	19	17	15	11	8	5	3	1	1	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: OTHER UTILITIES

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: AGRICULTURAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl								0	0	2	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: COMMERCIAL																															
Program: Energy Management Services											Lifetime: 8 years																				
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 40 years																				
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Energy Efficiency Incentives											Lifetime: 11 years																				
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: SYSTEM EFFICIENCY																															
Program: Voltage Reduction											Lifetime: 99 years																				
1985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totl	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Program: Other System Efficiency (not Volt. Reduc.)											Lifetime: 99 years																				
1986		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: INDUSTRIAL																															
Program: Energy Management Services											Lifetime: 10 years																				
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SECTOR: RESIDENTIAL																															
Program: Energy Management Services											Lifetime: 20 years																				
1985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FORM 8.2 ANNUAL AND CUMULATIVE MW IMPACTS MATRIX BY PROGRAM (1985-2015)

AREA: OTHER UTILITIES

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CATEGORY: CONSERVATION																															
SECTOR: RESIDENTIAL																															
Program: Energy Management Services											Lifetime: 20 years																				
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Program: Weather Retrofit & Incentives											Lifetime: 20 years																				
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl				0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
Program: Direct Assistance											Lifetime: 20 years																				
1988				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: New Construction											Lifetime: 30 years																				
1990						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Other											Lifetime: 15 years																				
1992								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program: Appliance Efficiency Incentives											Lifetime: 15 years																				
1994										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totl										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SECTION 2: FORM 8.4 SUMMARY OF ALL PROGRAM IMPACTS

This section contains a summary form that reports DSM program and other impacts at the planning area level. The impacts are grouped by planning area and major program category. Form 8.4 updates Form 8 in the earlier Staff July 1995 forecast and includes load retention and load building programs as well as price market effects and effects from air quality programs. Planning areas are presented in the tables in the following order: BGP, LADWP, Other, PGE, SCE, SDGE and SMUD. Following Form 8.4 are forms showing utility dispatchable load management impacts for PGE, SMUD, SDGE and SCE.

Form 8.4 SUMMARY OF ALL PROGRAM DIRECT IMPACTS
FOR ALL PROGRAMS BEGUN THROUGH 1994
BGP

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Air Quality Regulations												
Sector= Agricultural												
Air Quality Rules	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Commercial												
Air Quality Rules	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
Sector= Elec. Vehicle												
Air Quality Rules	0	0	-3	-7	-74	-103	0	0	-0	-1	-5	-7
	0	0	-3	-7	-74	-103	0	0	-0	-1	-5	-7
Sector= Industrial												
Air Quality Rules	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
TOTAL PROGRAM =	0	-0	-3	-8	-74	-104	0	-0	-0	-1	-5	-7
PROGRAM CATEGORY = Market & Price Effects												
Sector= Commercial												
Market and Price Effects	112	134	120	115	98	89	28	33	30	29	24	22
	112	134	120	115	98	89	28	33	30	29	24	22
Sector= Industrial												
Market and Price Effects	-5	-0	-3	-4	-6	-6	-0	-0	-0	-0	-0	-0
	-5	-0	-3	-4	-6	-6	-0	-0	-0	-0	-0	-0
Sector= Residential												
Market and Price Effects	64	96	112	117	135	152	8	12	14	15	17	19
	64	96	112	117	135	152	8	12	14	15	17	19
TOTAL PROGRAM =	171	230	230	229	227	235	36	46	44	43	41	41
PROGRAM CATEGORY = Public Agency Programs												
Sector= Commercial												
Facilities Loans & Grants (Schools & Hosp.)	12	12	4	2	0	0	2	3	1	1	0	0
State & Fed. Conservation Tax Credits	1	2	2	2	1	0	0	1	1	1	0	0
State and Federal Solar Tax Credits	0	0	0	0	0	0	0	0	0	0	0	0
Streetlight Conversion	3	3	3	3	3	3	0	0	0	0	0	0
	17	18	9	8	5	3	3	3	1	1	0	0
Sector= Residential												
State & Fed. Conservation Tax Credits	3	3	3	3	2	0	1	1	1	1	0	0
State and Federal Solar Tax Credits	3	4	2	1	0	0	1	1	1	0	0	0
	6	7	5	4	2	0	1	2	1	1	0	0
TOTAL PROGRAM =	23	25	15	12	6	3	4	5	3	2	1	0

Form 8.4 SUMMARY OF ALL PROGRAM DIRECT IMPACTS
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BGP

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Statewide Bldg. & Equipment Stds.												
Sector= Commercial												
76-82 T20 Equip. Std. (Commer.)	2	8	11	13	20	28	0	2	3	3	5	7
77 T24 NRes. Bldg. Std. (Commer.)	3	14	21	24	37	53	1	3	5	6	9	13
84 T20 Equip. Std. (Commer.)	0	5	10	13	23	35	0	1	3	3	6	9
84 T24 NRes. Bldg. Std. (Offices)	0	9	15	19	32	48	0	2	4	5	8	12
85 T24 NRes. Bldg. Std. (Retail/Wholesale)	0	2	5	6	11	16	0	1	1	2	3	4
92 T24 Non-Res. Bldg. Std.	0	0	9	13	30	50	0	0	2	3	7	12
	5	37	72	88	153	229	1	9	18	22	38	57
Sector= Industrial												
78 T24 NRes. Bldg Std. (Indust.)	9	0	0	0	0	0	2	0	0	0	0	0
	9	0	0	0	0	0	2	0	0	0	0	0
Sector= Residential												
75 HCD Res. Bldg. Stds.	5	8	9	10	11	12	7	10	12	12	14	16
76-82 T20 Res. Appliance Std.	18	43	56	61	74	83	3	8	10	11	14	16
78 T24 Res. Bldg. Stds.	2	3	3	3	4	4	2	3	4	4	5	5
83 T24 Res. Bldg. Stds.	0	0	2	2	4	4	0	2	3	3	4	5
84-92 T20 Res. Appliance Std.	0	12	28	34	52	66	0	2	4	5	8	10
92 T24 Res. Bldg. Std.	0	2	3	3	4	4	0	3	4	4	5	5
	25	68	101	113	147	173	12	27	37	40	49	56
TOTAL PROGRAM =	39	104	173	200	300	402	15	37	54	62	87	113
BGP =	233	359	414	433	458	537	55	87	101	106	124	147

Form 8.4 SUMMARY OF ALL PROGRAM DIRECT IMPACTS
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LADWP

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Air Quality Regulations												
Sector= Agricultural												
Air Quality Rules	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Commercial												
Air Quality Rules	0	0	-1	-1	-1	-1	0	0	-0	-0	-0	-0
	0	0	-1	-1	-1	-1	0	0	-0	-0	-0	-0
Sector= Elec. Vehicle												
Air Quality Rules	0	0	-25	-67	-664	-928	0	0	-2	-5	-46	-64
	0	0	-25	-67	-664	-928	0	0	-2	-5	-46	-64
Sector= Industrial												
Air Quality Rules	0	-0	-2	-2	-2	-2	0	-0	-0	-0	-0	-0
	0	-0	-2	-2	-2	-2	0	-0	-0	-0	-0	-0
TOTAL PROGRAM =	0	-0	-28	-70	-667	-931	0	-0	-2	-5	-46	-64
PROGRAM CATEGORY = Conservation & Efficiency												
Sector= Commercial												
Energy Efficiency Incentives	0	67	77	64	5	0	0	23	26	21	2	0
Energy Management Services	513	103	5	1	0	0	85	18	1	0	0	0
New Construction	0	7	16	16	16	16	0	2	4	4	4	4
Streetlight Conversion	0	29	29	29	29	29	0	0	0	0	0	0
	513	206	128	111	51	45	85	43	31	26	6	4
Sector= Industrial												
Energy Efficiency Incentives	0	0	5	5	4	0	0	0	1	1	1	0
Energy Management Services	55	54	24	11	0	0	9	9	4	2	0	0
	55	54	28	15	4	0	9	9	5	3	1	0
Sector= Residential												
Appliance Efficiency Incentives	0	3	3	3	1	0	0	24	24	23	4	0
Energy Management Services	3	45	55	24	0	0	0	5	6	3	0	0
Master Meter	2	3	3	3	3	3	0	0	0	0	0	0
New Construction	0	0	1	1	1	0	0	0	1	1	1	0
	5	50	62	30	5	3	0	30	31	27	5	0
TOTAL PROGRAM =	573	311	218	156	59	48	94	81	67	55	12	5

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LADWP

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Load Management - Nondispatchable												
Sector+Commercial												
Thermal Storage	0	0	0	0	0	0	0	3	3	3	3	3
Time of Use	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	3	3	3	3	3
Sector= Residential												
Pool Pump Timer	4	0	0	0	0	0	1	0	0	0	0	0
	4	0	0	0	0	0	1	0	0	0	0	0
TOTAL PROGRAM =	4	0	0	0	0	0	1	3	3	3	3	3
PROGRAM CATEGORY = Market & Price Effects												
Sector= Commercial												
Market and Price Effects	337	493	399	352	217	152	80	117	95	84	52	36
	337	493	399	352	217	152	80	117	95	84	52	36
Sector= Industrial												
Market and Price Effects	114	88	69	59	34	27	8	6	5	4	2	2
	114	88	69	59	34	27	8	6	5	4	2	2
Sector= Residential												
Market and Price Effects	239	547	689	736	874	1015	27	62	79	84	100	116
	239	547	689	736	874	1015	27	62	79	84	100	116
TOTAL PROGRAM =	690	1127	1157	1147	1125	1194	115	186	178	172	154	154
PROGRAM CATEGORY = Public Agency Programs												
Sector= Commercial												
Calif. Energy Extension Service (Schools)	0	1	0	0	0	0	0	0	0	0	0	0
Facilities Loans & Grants (Schools & Hosp.)	23	30	14	8	0	0	5	6	3	2	0	0
State & Fed. Conservation Tax Credits	9	12	12	12	8	0	3	4	4	4	2	0
State and Federal Solar Tax Credits	2	3	3	3	1	0	0	0	0	0	0	0
Streetlight Conversion	27	30	30	30	30	30	0	0	0	0	0	0
	62	77	60	54	38	30	8	10	7	6	2	0
Sector= Residential												
Misc. Weatherization Retro. - DEO	3	9	7	6	2	0	1	2	2	2	0	0
State & Fed. Conservation Tax Credits	19	21	21	21	11	0	5	5	5	5	3	0
State and Federal Solar Tax Credits	25	29	18	10	0	0	6	7	5	3	0	0
	47	59	47	38	13	0	12	15	12	9	3	0
TOTAL PROGRAM =	109	136	107	91	51	30	19	25	18	15	6	0

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LADWP

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Statewide Bldg. & Equipment Stds.												
Sector= Commercial												
76-82 T20 Equip. Std. (Commer.)	24	68	103	117	166	220	6	16	25	28	39	52
77 T24 NRes. Bldg. Std. (Commer.)	32	97	147	169	250	340	8	23	35	40	59	81
84 T20 Equip. Std. (Commer.)	4	30	70	88	151	224	1	7	17	21	36	53
84 T24 NRes. Bldg. Std. (Offices)	8	91	159	186	284	399	2	22	38	44	68	95
85 T24 NRes. Bldg. Std. (Retail/Wholesale)	0	16	44	56	101	148	0	4	10	13	24	35
92 T24 Non-Res. Bldg. Std.	0	2	62	91	198	325	0	1	15	22	47	77
	68	306	585	706	1150	1655	16	73	139	168	273	393
Sector= Industrial												
78 T24 NRes. Bldg Std. (Indust.)	27	0	0	0	0	0	4	0	0	0	0	0
	27	0	0	0	0	0	4	0	0	0	0	0
Sector= Residential												
75 HCD Res. Bldg. Stds.	73	121	146	155	178	204	52	86	104	110	127	145
76-82 T20 Res. Appliance Std.	126	302	379	405	472	518	15	35	45	48	56	61
78 T24 Res. Bldg. Stds.	19	36	46	49	58	69	14	25	33	35	42	49
83 T24 Res. Bldg. Stds.	0	0	52	58	74	88	4	26	37	41	53	63
84-92 T20 Res. Appliance Std.	0	86	183	219	326	412	0	10	22	26	39	50
92 T24 Res. Bldg. Std.	0	30	39	40	43	39	0	22	28	29	31	28
	217	575	845	926	1152	1330	84	205	268	289	347	396
TOTAL PROGRAM =	313	881	1430	1632	2302	2985	104	278	407	457	620	789
LADWP =	1689	2455	2884	2956	2871	3327	334	573	672	697	748	886

Form 8.4 SUMMARY OF ALL PROGRAM DIRECT IMPACTS
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OTHER

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Conservation & Efficiency												
Sector= Agricultural												
Energy Management Services	0	1	8	6	0	0	0	0	1	1	0	0
	0	1	8	6	0	0	0	0	1	1	0	0
Sector= Commercial												
Energy Efficiency Incentives	0	1	0	0	0	0	0	0	0	0	0	0
Energy Management Services	1	1	0	0	0	0	0	0	0	0	0	0
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	0	2	2	2	2	2	0	0	0	0	0	0
Streetlight Conversion	2	2	2	2	2	2	0	0	0	0	0	0
	2	5	4	4	4	4	0	0	1	0	0	0
Sector= Industrial												
Energy Management Services	0	1	1	1	0	0	0	0	0	0	0	0
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	1	0	0	0	0	0	0	0	0
Sector= Residential												
Appliance Efficiency Incentives	14	18	13	7	0	0	0	0	0	0	0	0
Direct Assistance	0	2	3	3	2	0	0	0	0	0	0	0
Energy Management Services	4	9	9	9	4	0	1	1	1	1	1	0
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	0	1	1	1	1	1	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0
Weather Retrofit & Incentives	4	11	13	13	8	1	0	0	1	1	1	0
	22	41	39	33	15	3	1	2	2	2	1	0
Sector= System Efficiency												
Other System Efficiency (not Volt. Reduc.)	3	6	6	6	6	6	0	0	0	0	0	0
Voltage Reduction	2	9	12	12	12	12	1	2	2	2	2	2
	5	15	18	18	18	18	1	2	2	2	2	2
TOTAL PROGRAM =	30	63	70	62	37	24	2	5	7	6	4	3
PROGRAM CATEGORY = Market & Price Effects												
Sector= Commercial												
Market and Price Effects	51	102	115	123	149	182	10	21	23	25	30	37
	51	102	115	123	149	182	10	21	23	25	30	37
Sector= Industrial												
Market and Price Effects	6	1	-1	-2	-2	-0	1	0	-0	-0	-0	-0
	6	1	-1	-2	-2	-0	1	0	-0	-0	-0	-0
Sector= Residential												
Market and Price Effects	610	1283	1567	1672	2014	2320	98	206	252	269	324	373
	610	1283	1567	1672	2014	2320	98	206	252	269	324	373
TOTAL PROGRAM =	667	1387	1681	1793	2161	2502	109	227	275	293	354	410

Form 8.4 SUMMARY OF ALL PROGRAM DIRECT IMPACTS
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OTHER

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Public Agency Programs												
Sector= Commercial												
Facilities Loans & Grants (Schools & Hosp.)	12	16	9	7	1	0	2	2	1	1	0	0
State & Fed. Conservation Tax Credits	5	7	7	7	4	0	2	2	2	2	1	0
State and Federal Solar Tax Credits	1	2	1	1	0	0	0	0	0	0	0	0
Streetlight Conversion	0	0	0	0	0	0	0	0	0	0	0	0
	19	25	17	15	5	0	4	5	3	3	1	0
Sector= Residential												
Misc. Weatherization Retro. - DEO	1	4	3	3	1	0	0	1	1	1	0	0
State & Fed. Conservation Tax Credits	11	13	13	13	7	0	3	3	3	3	2	0
State and Federal Solar Tax Credits	11	13	8	5	0	0	3	3	2	1	0	0
	24	30	25	20	8	0	6	8	6	5	2	0
TOTAL PROGRAM =	43	55	41	35	13	0	10	12	9	8	3	0
PROGRAM CATEGORY = Statewide Bldg. & Equipment Stds.												
Sector= Commercial												
76-82 T20 Equip. Std. (Commer.)	3	13	18	19	26	34	1	3	4	4	5	7
77 T24 NRes. Bldg. Std. (Commer.)	4	18	23	26	39	52	1	4	5	5	8	11
84 T20 Equip. Std. (Commer.)	0	8	14	17	29	43	0	2	3	3	6	9
84 T24 NRes. Bldg. Std. (Offices)	0	4	2	2	4	3	0	1	0	0	1	1
85 T24 NRes. Bldg. Std. (Retail/Wholesale)	0	2	4	5	9	12	0	0	1	1	2	3
92 T24 Non-Res. Bldg. Std.	0	1	7	10	23	39	0	0	1	2	5	8
	7	45	67	80	129	184	1	9	14	16	26	38
Sector= Industrial												
78 T24 NRes. Bldg Std. (Indust.)	1	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0
Sector= Residential												
75 HCD Res. Bldg. Stds.	32	49	58	62	73	85	32	49	58	62	73	85
76-82 T20 Res. Appliance Std.	49	133	175	189	234	272	49	133	175	189	234	272
78 T24 Res. Bldg. Stds.	3	6	8	8	10	12	3	6	8	8	10	12
83 T24 Res. Bldg. Stds.	0	0	28	31	40	49	4	20	28	31	40	49
84-92 T20 Res. Appliance Std.	0	36	82	99	156	205	0	36	82	99	156	205
92 T24 Res. Bldg. Std.	0	7	10	11	12	12	0	7	10	11	12	12
	84	231	360	400	525	635	88	251	360	400	525	635
TOTAL PROGRAM =	92	276	428	480	655	819	90	260	374	416	551	672
OTHER =	831	1781	2220	2371	2865	3345	211	504	665	724	913	1085

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PGE

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Air Quality Regulations												
Sector= Agricultural												
Air Quality Rules	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
Sector= Commercial												
Air Quality Rules	0	0	-1	-1	-1	-1	0	0	-0	-0	-0	-0
	0	0	-1	-1	-1	-1	0	0	-0	-0	-0	-0
Sector= Elec. Vehicle												
Air Quality Rules	0	0	-11	-31	-307	-430	0	0	-2	-5	-49	-68
	0	0	-11	-31	-307	-430	0	0	-2	-5	-49	-68
Sector= Industrial												
Air Quality Rules	0	-0	-16	-17	-19	-19	0	-0	-3	-3	-3	-3
	0	-0	-16	-17	-19	-19	0	-0	-3	-3	-3	-3
TOTAL PROGRAM =	0	-0	-28	-49	-327	-450	0	-0	-4	-8	-52	-71
PROGRAM CATEGORY = Conservation & Efficiency												
Sector= Agricultural												
Energy Efficiency Incentives	37	378	359	281	11	0	10	74	64	49	2	0
Energy Management Services	94	143	63	38	1	0	24	28	11	7	0	0
	131	521	422	319	12	0	34	102	75	55	2	0
Sector= Commercial												
Energy Efficiency Incentives	604	1493	1229	1016	94	0	101	276	245	204	17	0
Energy Management Services	1038	531	174	104	2	0	181	84	32	18	0	0
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	0	197	258	258	258	258	0	48	64	64	64	64
Streetlight Conversion	129	129	129	129	129	129	0	0	0	0	0	0
	1771	2349	1790	1507	483	388	282	409	341	285	81	64
Sector= Industrial												
Energy Efficiency Incentives	145	455	398	322	17	0	24	65	59	48	3	0
Energy Management Services	261	229	72	40	1	0	47	33	11	6	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0
	406	684	470	362	18	0	71	98	70	54	3	0
Sector= Other												
Other	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0

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PGE

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Conservation & Efficiency												
Sector= Residential												
Appliance Efficiency Incentives	319	565	424	357	119	1	52	120	100	88	29	0
Direct Assistance	0	128	147	147	128	13	0	33	37	37	32	3
Energy Management Services	141	263	267	251	109	8	20	42	44	42	20	1
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
Master Meter	14	14	14	14	14	14	3	3	3	3	3	3
New Construction	179	228	236	236	208	68	23	41	45	45	43	24
Other	0	0	0	0	0	0	0	0	0	0	0	0
Solar Retrofit & Incentives	27	25	9	3	0	0	4	4	1	1	0	0
Weather Retrofit & Incentives	176	250	245	228	63	4	26	40	41	39	13	1
	857	1474	1341	1237	641	108	127	283	271	254	140	33
Sector= System Efficiency												
Other System Efficiency (not Volt. Reduc.)	37	48	48	48	48	48	15	20	20	20	20	20
Voltage Reduction	862	862	862	862	862	862	204	207	207	207	207	207
	899	910	910	910	910	910	219	227	227	227	227	227
TOTAL PROGRAM =	4064	5938	4933	4335	2064	1406	733	1118	984	876	452	323
PROGRAM CATEGORY = Fuel Substitution												
Sector= Industrial												
Fuel Substitution - Elect. Replaces Nat. Gas	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Substitution-Nat. Gas Replaces Elect.	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Residential												
Fuel Substitution-Nat. Gas Replaces Elect.	0	7	14	14	11	2	0	6	7	7	5	0
	0	7	14	14	11	2	0	6	7	7	5	0
TOTAL PROGRAM =	0	7	14	14	11	2	0	6	7	7	5	0
PROGRAM CATEGORY = Load Building												
Sector= Commercial												
Load Building	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Industrial												
Load Building	0	-6	0	0	0	0	0	-10	0	0	0	0
	0	-6	0	0	0	0	0	-10	0	0	0	0
TOTAL PROGRAM =	0	-6	0	0	0	0	0	-10	0	0	0	0

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FOR ALL PROGRAMS BEGUN THROUGH 1994
PGE

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Load Management - Dispatchable												
Sector= Agricultural												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Commercial												
Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
Interruptible/curtailable	0	0	0	0	0	0	90	0	0	0	0	0
	0	0	0	0	0	0	90	0	0	0	0	0
Sector= Industrial												
Interruptible/curtailable	0	0	0	0	0	0	84	0	0	0	0	0
	0	0	0	0	0	0	84	0	0	0	0	0
Sector= Residential												
Air Conditioning	0	0	0	0	0	0	51	0	0	0	0	0
	0	0	0	0	0	0	51	0	0	0	0	0
TOTAL PROGRAM =	0	0	0	0	0	0	225	0	0	0	0	0
PROGRAM CATEGORY = Load Management - Nondispatchable												
Sector= Agricultural												
Load Management	0	0	0	0	0	0	20	0	0	0	0	0
Time of Use	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	20	0	0	0	0	0
Sector= Commercial												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
Load Management	0	0	0	0	0	0	0	0	0	0	0	0
Thermal Storage	0	-4	-4	-4	-4	-4	0	24	24	24	24	22
Time of Use	0	0	0	0	0	0	19	0	0	0	0	0
	0	-4	-4	-4	-4	-4	19	24	24	24	24	22
Sector= Industrial												
Load Management	0	0	0	0	0	0	0	0	0	0	0	0
Thermal Storage	0	0	0	0	0	0	0	0	3	3	3	3
Time of Use	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	3	3	3	3
Sector= Residential												
Pool Pump Timer	18	7	0	0	0	0	174	105	26	10	0	0
Time of Use	0	0	0	0	0	0	7	0	0	0	0	0
	18	7	0	0	0	0	181	105	26	10	0	0
TOTAL PROGRAM =	18	3	-4	-4	-4	-4	220	129	54	37	27	25

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	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Load Retention												
Sector= Commercial												
Load Retention	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Industrial												
Load Retention	0	-72	0	0	0	0	0	-39	0	0	0	0
	0	-72	0	0	0	0	0	-39	0	0	0	0
TOTAL PROGRAM =	0	-72	0	0	0	0	0	-39	0	0	0	0
PROGRAM CATEGORY = Market & Price Effects												
Sector= Commercial												
Market and Price Effects	3620	4458	3907	3740	3706	4060	738	908	796	762	755	827
	3620	4458	3907	3740	3706	4060	738	908	796	762	755	827
Sector= Industrial												
Market and Price Effects	532	52	-220	-270	-277	-177	84	8	-35	-43	-44	-28
	532	52	-220	-270	-277	-177	84	8	-35	-43	-44	-28
Sector= Residential												
Market and Price Effects	1016	2139	2612	2786	3357	3867	163	344	420	448	539	621
	1016	2139	2612	2786	3357	3867	163	344	420	448	539	621
TOTAL PROGRAM =	5168	6649	6299	6257	6785	7750	985	1260	1181	1167	1251	1421
PROGRAM CATEGORY = Public Agency Programs												
Sector= Agricultural												
Farm Energy Assistance Program	0	5	5	4	0	0	0	1	1	1	0	0
	0	5	5	4	0	0	0	1	1	1	0	0
Sector= Commercial												
CEC Local Jurisdiction Energy Assistance	0	16	12	7	0	0	0	3	2	1	0	0
Calif. Energy Extension Service (Schools)	1	8	3	1	0	0	0	2	1	0	0	0
Facilities Loans & Grants (Schools & Hosp.)	112	122	52	33	2	0	22	28	15	11	1	0
Misc. Weatherization Retro. - Energy Bank	0	0	0	0	0	0	0	0	0	0	0	0
State & Fed. Conservation Tax Credits	56	75	75	75	47	1	17	22	22	22	14	0
State and Federal Solar Tax Credits	18	25	25	24	4	0	1	2	1	1	0	0
Streetlight Conversion	16	21	21	21	21	21	0	0	0	0	0	0
	203	266	188	161	74	22	40	57	42	36	16	0
Sector= Residential												
Misc. Weatherization Retro. - DEO	15	37	30	25	5	0	4	9	7	6	1	0
Misc. Weatherization Retro. - Energy Bank	0	1	1	1	0	0	0	0	0	0	0	0
State & Fed. Conservation Tax Credits	115	130	130	129	67	1	29	32	32	32	17	0
State and Federal Solar Tax Credits	190	224	139	78	1	0	48	56	35	20	0	0
	320	392	299	233	73	1	80	98	75	58	18	0

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	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Statewide Bldg. & Equipment Stds.												
Sector= Commercial												
76-82 T20 Equip. Std. (Commer.)	47	185	261	293	399	539	10	38	53	60	81	110
77 T24 NRes. Bldg. Std. (Commer.)	137	445	601	678	1001	1407	28	91	122	138	204	287
84 T20 Equip. Std. (Commer.)	12	100	184	224	376	565	2	20	37	46	77	115
84 T24 NRes. Bldg. Std. (Offices)	5	75	111	128	198	280	1	15	23	26	40	57
85 T24 NRes. Bldg. Std. (Retail/Wholesale)	0	36	81	106	206	330	0	7	17	22	42	67
92 T24 Non-Res. Bldg. Std.	0	4	49	75	181	317	0	1	10	15	37	65
	201	845	1287	1504	2361	3438	41	172	262	306	481	700
Sector= Industrial												
78 T24 NRes. Bldg Std. (Indust.)	468	505	513	490	368	222	65	70	71	68	51	31
	468	505	513	490	368	222	65	70	71	68	51	31
Sector= Residential												
75 HCD Res. Bldg. Stds.	278	408	463	485	555	631	186	274	311	325	372	424
76-82 T20 Res. Appliance Std.	448	1274	1609	1730	2084	2387	91	260	328	352	425	486
78 T24 Res. Bldg. Stds.	20	36	44	46	54	63	13	24	29	31	36	42
83 T24 Res. Bldg. Stds.	0	0	231	254	334	402	20	114	155	170	224	270
84-92 T20 Res. Appliance Std.	0	358	742	892	1374	1796	0	64	132	159	245	320
92 T24 Res. Bldg. Std.	0	46	67	72	82	72	0	31	45	49	55	48
	746	2122	3155	3479	4483	5351	311	766	1000	1087	1357	1590
TOTAL PROGRAM =	1414	3473	4955	5473	7212	9011	417	1009	1333	1461	1890	2322
PGE =	111B7	16656	16662	16422	15888	17738	2700	3629	3671	3636	3607	4020

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	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Air Quality Regulations												
Sector= Agricultural												
Air Quality Rules	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
Sector= Commercial												
Air Quality Rules	0	0	-4	-5	-5	-6	0	0	-0	-0	-0	-0
	0	0	-4	-5	-5	-6	0	0	-0	-0	-0	-0
Sector= Elec. Vehicle												
Air Quality Rules	0	0	-64	-175	-1721	-2407	0	0	-4	-12	-118	-165
	0	0	-64	-175	-1721	-2407	0	0	-4	-12	-118	-165
Sector= Industrial												
Air Quality Rules	0	-1	-6	-6	-6	-6	0	-0	-0	-0	-0	-0
	0	-1	-6	-6	-6	-6	0	-0	-0	-0	-0	-0
TOTAL PROGRAM =	0	-1	-75	-186	-1733	-2419	0	-0	-5	-13	-119	-166
PROGRAM CATEGORY = Conservation & Efficiency												
Sector= Agricultural												
Energy Efficiency Incentives	0	54	80	78	42	0	0	16	90	90	67	1
Energy Management Services	116	199	156	126	34	0	25	45	35	28	8	0
	116	253	235	204	76	1	25	61	125	118	75	1
Sector= Commercial												
Energy Efficiency Incentives	384	1117	1049	901	96	0	53	204	199	171	18	0
Energy Management Services	3616	2414	1032	582	8	0	784	541	245	142	2	0
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	0	190	264	264	264	264	0	62	76	76	76	76
Streetlight Conversion	154	157	157	157	157	157	0	0	0	0	0	0
	4154	3879	2503	1905	525	422	838	807	521	389	96	76
Sector= Industrial												
Energy Efficiency Incentives	193	636	697	619	292	3	27	94	99	87	36	0
Energy Management Services	2476	3453	2262	1709	437	3	535	735	467	347	80	1
	2669	4089	2960	2327	729	6	562	829	566	434	116	1
Sector= Other												
Other	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0

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SCE

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Conservation & Efficiency												
Sector= Residential												
Appliance Efficiency Incentives	256	418	450	390	230	14	69	110	136	117	68	5
Direct Assistance	20	292	237	171	7	0	2	76	54	36	1	0
Energy Management Services	223	37	30	13	0	0	87	8	5	2	0	0
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
Master Meter	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	8	19	21	21	21	21	3	16	17	17	17	17
Other	3	2	1	0	0	0	1	1	0	0	0	0
Weather Retrofit & Incentives	38	54	53	52	10	0	15	21	21	21	4	0
	548	823	793	647	268	35	178	232	234	194	90	22
Sector= System Efficiency												
Other System Efficiency (not Volt. Reduc.)	0	6	6	6	6	6	0	2	2	2	2	2
Voltage Reduction	1806	1869	1869	1869	1869	1869	456	463	463	463	463	463
	1806	1875	1875	1875	1875	1875	456	464	464	464	464	464
TOTAL PROGRAM =	9293	10919	8365	6959	3473	2339	2058	2393	1909	1599	841	565
PROGRAM CATEGORY = Fuel Substitution												
Sector= Commercial												
Fuel Substitution - Elect. Replaces Nat. Gas	0	-0	-3	-3	-3	-1	0	-0	-2	-2	-2	-1
	0	-0	-3	-3	-3	-1	0	-0	-2	-2	-2	-1
Sector= Industrial												
Fuel Substitution - Elect. Replaces Nat. Gas	0	-3	-7	-7	-7	-2	0	-3	-3	-3	-3	-0
Fuel Substitution-Nat. Gas Replaces Elect.	0	311	313	313	294	22	0	137	138	138	128	8
	0	307	305	305	286	21	0	134	134	134	125	7
Sector= Residential												
Fuel Substitution-Nat. Gas Replaces Elect.	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PROGRAM =	0	307	302	302	283	20	0	134	132	132	123	7
PROGRAM CATEGORY = Load Building												
Sector= Commercial												
Load Building	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Industrial												
Load Building	0	-1	0	0	0	0	0	-0	0	0	0	0
	0	-1	0	0	0	0	0	-0	0	0	0	0
TOTAL PROGRAM =	0	-1	0	0	0	0	0	-0	0	0	0	0

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SCE

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Load Management - Dispatchable												
Sector= Agricultural												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Commercial												
Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Industrial												
Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Residential												
Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PROGRAM =	0	0	0	0	0	0	0	0	0	0	0	0
PROGRAM CATEGORY = Load Management - Nondispatchable												
Sector= Agricultural												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Commercial												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
Load Management	0	0	0	0	0	0	0	0	0	0	0	0
Thermal Storage	0	0	121	121	120	39	18	94	94	93	55	3
	0	0	121	121	120	39	18	94	94	93	55	3
Sector= Industrial												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Residential												
Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
Pool Pump Timer	0	0	0	0	0	0	31	0	0	0	0	0
	0	0	0	0	0	0	31	0	0	0	0	0
TOTAL PROGRAM =	0	0	121	121	120	39	49	94	94	93	55	3

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	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Load Retention												
Sector= Commercial												
Load Retention	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Industrial												
Load Retention	0	-2799	0	0	0	0	0	-407	0	0	0	0
	0	-2799	0	0	0	0	0	-407	0	0	0	0
TOTAL PROGRAM =	0	-2799	0	0	0	0	0	-407	0	0	0	0
PROGRAM CATEGORY = Market & Price Effects												
Sector= Commercial												
Market and Price Effects	1245	1406	788	352	-476	-144	284	321	180	80	-109	-33
	1245	1406	788	352	-476	-144	284	321	180	80	-109	-33
Sector= Industrial												
Market and Price Effects	1058	218	-271	-441	-546	-182	73	15	-19	-30	-38	-13
	1058	218	-271	-441	-546	-182	73	15	-19	-30	-38	-13
Sector= Residential												
Market and Price Effects	817	1813	2370	2563	3223	3841	105	232	304	329	413	492
	817	1813	2370	2563	3223	3841	105	232	304	329	413	492
TOTAL PROGRAM =	3120	3437	2887	2474	2201	3515	462	568	465	379	267	447
PROGRAM CATEGORY = Public Agency Programs												
Sector= Agricultural												
Farm Energy Assistance Program	0	2	2	2	0	0	0	1	0	0	0	0
	0	2	2	2	0	0	0	1	0	0	0	0
Sector= Commercial												
CEC Local Jurisdiction Energy Assistance	0	5	4	3	0	0	0	1	1	1	0	0
Calif. Energy Extension Service (Schools)	0	1	0	0	0	0	0	0	0	0	0	0
Facilities Loans & Grants (Schools & Hosp.)	25	58	47	38	5	0	5	10	8	6	1	0
Misc. Weatherization Retro. - Energy Bank	1	2	2	2	0	0	0	0	0	0	0	0
State & Fed. Conservation Tax Credits	33	44	44	44	27	0	10	13	13	13	8	0
State and Federal Solar Tax Credits	10	14	14	13	2	0	1	1	1	1	0	0
Streetlight Conversion	28	31	31	31	31	31	0	0	0	0	0	0
	96	155	142	130	65	31	15	26	23	20	9	0

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	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Public Agency Programs												
Sector= Residential												
Misc. Weatherization Retro. - DEO	6	16	14	12	3	0	1	4	3	3	1	0
Misc. Weatherization Retro. - Energy Bank	6	13	11	7	0	0	0	0	0	0	0	0
State & Fed. Conservation Tax Credits	67	76	76	75	39	0	17	19	19	19	10	0
State and Federal Solar Tax Credits	105	123	76	43	1	0	26	31	19	11	0	0
	184	228	176	137	43	0	44	54	41	33	11	0
TOTAL PROGRAM =	280	386	321	269	108	31	60	80	65	53	20	0
PROGRAM CATEGORY = Statewide Bldg. & Equipment Stds.												
Sector= Commercial												
76-82 T20 Equip. Std. (Commer.)	70	294	441	510	755	978	16	67	101	116	172	223
77 T24 NRes. Bldg. Std. (Commer.)	100	450	656	758	1109	1448	23	103	150	173	253	330
84 T20 Equip. Std. (Commer.)	13	145	302	380	653	925	3	33	69	87	149	211
84 T24 NRes. Bldg. Std. (Offices)	11	223	345	407	639	896	2	51	79	93	146	204
85 T24 NRes. Bldg. Std. (Retail/Wholesale)	0	86	188	246	462	695	0	20	43	56	106	159
92 T24 Non-Res. Bldg. Std.	0	11	207	317	725	1174	0	3	47	72	165	268
	193	1208	2139	2618	4343	6115	44	276	488	597	991	1396
Sector= Industrial												
78 T24 NRes. Bldg Std. (Indust.)	153	56	25	8	0	0	23	8	4	1	0	0
	153	56	25	8	0	0	23	8	4	1	0	0
Sector= Residential												
75 HCD Res. Bldg. Stds.	247	420	547	594	752	920	256	436	567	616	780	954
76-82 T20 Res. Appliance Std.	464	1244	1717	1887	2410	2890	85	229	316	347	444	532
78 T24 Res. Bldg. Stds.	26	56	76	83	106	130	27	58	79	86	110	135
83 T24 Res. Bldg. Stds.	0	0	286	325	451	569	40	192	297	337	468	590
84-92 T20 Res. Appliance Std.	0	328	828	1019	1635	2183	0	49	123	151	242	323
92 T24 Res. Bldg. Std.	0	72	95	105	124	127	0	74	99	109	129	132
	738	2120	3550	4013	5478	6817	410	1038	1481	1647	2173	2665
TOTAL PROGRAM =	1084	3383	5714	6639	9822	12933	477	1322	1973	2245	3164	4061
SCE =	13777	15633	17636	16578	14275	16458	3106	4185	4632	4488	4351	4916

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SDGE

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Air Quality Regulations												
Sector= Agricultural												
Air Quality Rules	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
Sector= Commercial												
Air Quality Rules	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
Sector= Elec. Vehicle												
Air Quality Rules	0	0	-6	-16	-154	-215	0	0	-0	-1	-11	-15
	0	0	-6	-16	-154	-215	0	0	-0	-1	-11	-15
Sector= Industrial												
Air Quality Rules	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PROGRAM =	0	-0	-6	-16	-154	-215	0	-0	-0	-1	-11	-15
PROGRAM CATEGORY = Conservation & Efficiency												
Sector= Agricultural												
Energy Efficiency Incentives	0	2	2	1	0	0	0	0	0	0	0	0
Energy Management Services	8	18	15	11	0	0	0	3	3	2	0	0
New Construction	0	1	1	1	1	1	0	0	0	0	0	0
	8	20	18	13	1	1	0	3	4	3	0	0
Sector= Commercial												
Energy Efficiency Incentives	27	212	249	224	20	0	3	47	55	49	4	0
Energy Management Services	211	75	38	22	0	0	35	20	9	5	0	0
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	2	42	64	64	64	64	1	11	16	16	16	16
Streetlight Conversion	20	20	20	20	20	20	0	0	0	0	0	0
	261	349	371	331	105	84	38	78	80	69	20	16
Sector= Industrial												
Energy Efficiency Incentives	5	77	95	81	4	0	1	14	18	16	1	0
Energy Management Services	54	33	22	17	1	0	8	7	4	3	0	0
New Construction	0	1	1	1	1	1	0	0	0	0	0	0
	59	111	117	99	6	1	9	21	22	19	1	0
Sector= Other												
Other	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0

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SDGE

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Conservation & Efficiency												
Sector= Residential												
Appliance Efficiency Incentives	2	55	80	79	72	4	0	14	19	19	16	1
Direct Assistance	1	3	4	3	2	0	0	1	1	1	1	0
Energy Management Services	13	3	1	1	0	0	6	1	0	0	0	0
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
Master Meter	10	10	10	10	10	10	2	2	2	2	2	2
New Construction	6	9	10	10	10	10	0	2	3	3	3	3
Other	0	0	0	0	0	0	0	0	0	0	0	0
Solar Retrofit & Incentives	1	1	0	0	0	0	0	0	0	0	0	0
Weather Retrofit & Incentives	4	4	2	1	0	0	1	1	1	0	0	0
	37	85	107	104	93	24	10	22	26	25	22	6
Sector= System Efficiency												
Voltage Reduction	248	248	248	248	248	236	26	26	26	26	26	26
	248	248	248	248	248	236	26	26	26	26	26	26
TOTAL PROGRAM =	613	812	861	795	453	346	84	151	158	142	69	48
PROGRAM CATEGORY = Fuel Substitution												
Sector= Commercial												
Fuel Substitution - Elect. Replaces Nat. Gas	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Substitution-Nat. Gas Replaces Elect.	0	27	27	27	17	0	0	18	18	18	11	0
Gas Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
	0	27	27	27	17	0	0	18	18	18	11	0
Sector= Industrial												
Fuel Substitution - Elect. Replaces Nat. Gas	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Substitution-Nat. Gas Replaces Elect.	0	2	0	0	0	0	0	0	0	0	0	0
	0	2	0	0	0	0	0	0	0	0	0	0
TOTAL PROGRAM =	0	29	27	27	17	0	0	18	18	18	11	0
PROGRAM CATEGORY = Load Management - Dispatchable												
Sector= Agricultural												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Commercial												
Air Conditioning	0	0	0	0	0	0	5	0	0	0	0	0
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	5	0	0	0	0	0
Sector= Industrial												
Interruptible/curtailable	0	0	0	0	0	0	0	1	0	0	0	0
	0	0	0	0	0	0	0	1	0	0	0	0

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SDGE

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Load Management - Dispatchable												
Sector= Residential												
Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PROGRAM =	0	0	0	0	0	0	5	1	0	0	0	0
PROGRAM CATEGORY = Load Management - Nondispatchable												
Sector= Commercial												
Load Management	0	0	0	0	0	0	0	0	0	0	0	0
Thermal Storage	0	5	5	5	5	5	1	40	40	40	40	34
Time of Use	0	0	0	0	0	0	0	0	0	0	0	0
	0	5	5	5	5	5	1	40	40	40	40	34
Sector= Industrial												
Thermal Storage	0	-0	-0	-0	-0	-0	0	1	1	1	1	1
	0	-0	-0	-0	-0	-0	0	1	1	1	1	1
Sector= Other												
Load Management	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Residential												
Pool Pump Timer	4	0	0	0	0	0	0	3	1	0	0	0
Time of Use	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	3	1	0	0	0
TOTAL PROGRAM =	4	5	5	5	5	5	1	43	42	41	41	35
PROGRAM CATEGORY = Market & Price Effects												
Sector= Commercial												
Market and Price Effects	616	218	109	82	-179	-225	141	50	25	19	-41	-51
	616	218	109	82	-179	-225	141	50	25	19	-41	-51
Sector= Industrial												
Market and Price Effects	92	-37	-52	-52	-66	-49	6	-3	-4	-4	-5	-3
	92	-37	-52	-52	-66	-49	6	-3	-4	-4	-5	-3
Sector= Residential												
Market and Price Effects	291	630	750	794	941	1070	37	81	96	102	121	137
	291	630	750	794	941	1070	37	81	96	102	121	137
TOTAL PROGRAM =	999	811	807	824	696	797	184	128	117	117	75	83

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SDGE

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Public Agency Programs												
Sector= Commercial												
Calif. Energy Extension Service (Schools)	0	1	0	0	0	0	0	0	0	0	0	0
Facilities Loans & Grants (Schools & Hosp.)	25	29	11	7	0	0	6	6	2	1	0	0
State & Fed. Conservation Tax Credits	5	7	7	7	4	0	2	2	2	2	1	0
State and Federal Solar Tax Credits	3	4	4	4	1	0	0	0	0	0	0	0
Streetlight Conversion	4	4	4	4	4	4	0	0	0	0	0	0
	36	45	26	21	9	4	8	9	5	4	1	0
Sector= Residential												
Misc. Weatherization Retro. - DEO	2	5	5	4	1	0	0	1	1	1	0	0
State & Fed. Conservation Tax Credits	11	13	13	12	6	0	3	3	3	3	2	0
State and Federal Solar Tax Credits	28	33	21	12	0	0	7	8	5	3	0	0
	41	51	38	28	8	0	10	13	9	7	2	0
TOTAL PROGRAM =	78	96	64	49	17	4	18	22	14	11	3	0
PROGRAM CATEGORY = Statewide Bldg. & Equipment Stds.												
Sector= Commercial												
76-82 T20 Equip. Std. (Commer.)	16	91	150	176	267	347	4	21	34	40	61	79
77 T24 NRes. Bldg. Std. (Commer.)	23	131	221	265	408	539	5	30	50	60	93	123
84 T20 Equip. Std. (Commer.)	2	36	92	118	211	299	1	8	21	27	48	68
84 T24 NRes. Bldg. Std. (Offices)	4	71	124	148	233	342	1	16	28	34	53	78
85 T24 NRes. Bldg. Std. (Retail/Wholesale)	0	27	69	91	178	277	0	6	16	21	41	63
92 T24 Non-Res. Bldg. Std.	0	3	86	131	291	470	0	1	20	30	66	107
	46	359	742	928	1588	2273	10	82	169	212	362	519
Sector= Industrial												
78 T24 NRes. Bldg Std. (Indust.)	121	125	133	129	116	81	19	19	20	20	18	13
	121	125	133	129	116	81	19	19	20	20	18	13
Sector= Residential												
75 HCD Res. Bldg. Stds.	73	113	124	128	140	153	44	68	74	77	84	92
76-82 T20 Res. Appliance Std.	95	260	338	366	450	521	12	33	43	46	57	66
78 T24 Res. Bldg. Stds.	2	4	4	4	4	4	1	3	3	3	3	2
83 T24 Res. Bldg. Stds.	0	0	63	66	76	84	12	35	40	42	48	53
84-92 T20 Res. Appliance Std.	0	75	171	209	332	440	0	10	23	28	45	60
92 T24 Res. Bldg. Std.	0	5	13	15	17	13	0	3	8	9	10	8
	169	458	713	789	1018	1215	68	152	191	205	247	281
TOTAL PROGRAM =	335	942	1588	1845	2722	3569	97	253	381	437	627	812
SDGE =	2029	2695	3346	3529	3757	4506	389	616	729	764	816	963

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SMUD

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Air Quality Regulations												
Sector= Agricultural												
Air Quality Rules	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
	0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	-0
Sector= Commercial												
Air Quality Rules	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
	0	0	-0	-0	-0	-0	0	0	-0	-0	-0	-0
Sector= Elec. Vehicle												
Air Quality Rules	0	0	-6	-16	-154	-215	0	0	-1	-2	-23	-33
	0	0	-6	-16	-154	-215	0	0	-1	-2	-23	-33
Sector= Industrial												
Air Quality Rules	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PROGRAM =	0	-0	-6	-16	-154	-216	0	-0	-1	-2	-23	-33
PROGRAM CATEGORY = Conservation & Efficiency												
Sector= Commercial												
Energy Efficiency Incentives	0	22	21	16	1	0	0	13	13	11	1	0
Energy Management Services	18	84	69	43	1	0	4	32	29	19	0	0
New Construction	0	4	6	6	6	6	0	11	14	14	14	14
	18	110	96	65	8	6	4	55	56	44	15	14
Sector= Industrial												
Energy Efficiency Incentives	0	2	2	1	0	0	0	1	1	1	0	0
Energy Management Services	2	9	9	7	0	0	0	3	4	3	0	0
	2	11	10	8	0	0	0	4	4	4	0	0
Sector= Residential												
Direct Assistance	0	77	102	101	58	0	0	27	36	36	21	0
Energy Management Services	14	25	23	20	8	0	2	6	7	6	4	0
New Construction	2	5	6	6	6	5	2	5	6	6	6	5
	16	107	131	128	72	5	3	38	48	48	30	5
TOTAL PROGRAM =	36	228	237	201	80	12	7	98	109	95	46	19
PROGRAM CATEGORY = Fuel Substitution												
Sector= Residential												
Fuel Substitution-Nat. Gas Replaces Elect.	0	119	119	118	95	2	0	22	22	22	17	0
	0	119	119	118	95	2	0	22	22	22	17	0
TOTAL PROGRAM =	0	119	119	118	95	2	0	22	22	22	17	0

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SMUD

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Load Management - Dispatchable												
Sector= Commercial												
Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Industrial												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Residential												
Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PROGRAM =	0	0	0	0	0	0	0	0	0	0	0	0
PROGRAM CATEGORY = Load Management - Nondispatchable												
Sector= Other												
Load Management	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Residential												
Pool Pump Timer	1	0	0	0	0	0	3	3	1	0	0	0
Thermal Storage	0	-4	-5	-5	-5	-5	0	3	4	4	4	4
	1	-4	-5	-5	-5	-5	3	6	5	4	4	4
TOTAL PROGRAM =	1	-4	-5	-5	-5	-5	3	6	5	4	4	4
PROGRAM CATEGORY = Market & Price Effects												
Sector= Commercial												
Market and Price Effects	131	447	534	573	572	543	25	86	103	111	111	105
	131	447	534	573	572	543	25	86	103	111	111	105
Sector= Industrial												
Market and Price Effects	30	50	47	47	34	23	5	8	7	7	5	4
	30	50	47	47	34	23	5	8	7	7	5	4
Sector= Residential												
Market and Price Effects	253	465	530	556	640	729	43	79	90	95	109	124
	253	465	530	556	640	729	43	79	90	95	109	124
TOTAL PROGRAM =	413	962	1112	1175	1246	1295	73	173	201	212	225	233

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	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Public Agency Programs												
Sector= Commercial												
Facilities Loans & Grants (Schools & Hosp.)	6	4	1	0	0	0	1	1	0	0	0	0
State & Fed. Conservation Tax Credits	5	7	7	7	5	0	2	2	2	2	1	0
State and Federal Solar Tax Credits	1	2	2	2	0	0	0	0	0	0	0	0
Streetlight Conversion	0	0	0	0	0	0	0	0	0	0	0	0
	12	14	10	10	5	0	3	3	2	2	1	0
Sector= Residential												
Misc. Weatherization Retro. - DEO	1	3	3	2	1	0	0	1	1	1	0	0
Misc. Weatherization Retro. - Energy Bank	0	1	0	0	0	0	0	0	0	0	0	0
State & Fed. Conservation Tax Credits	11	13	13	13	7	0	3	3	3	3	2	0
State and Federal Solar Tax Credits	15	18	11	6	0	0	4	4	3	2	0	0
	27	34	27	22	7	0	7	8	7	5	2	0
TOTAL PROGRAM =	40	48	37	31	13	1	10	11	9	8	3	0
PROGRAM CATEGORY = Statewide Bldg. & Equipment Stds.												
Sector= Commercial												
76-82 T20 Equip. Std. (Commer.)	10	30	41	45	61	79	2	6	8	9	12	15
77 T24 NRes. Bldg. Std. (Commer.)	22	70	99	111	158	205	4	14	19	21	31	40
84 T20 Equip. Std. (Commer.)	3	19	37	45	74	106	1	4	7	9	14	20
84 T24 NRes. Bldg. Std. (Offices)	2	21	31	35	50	65	0	4	6	7	10	13
85 T24 NRes. Bldg. Std. (Retail/Wholesale)	0	6	15	19	31	46	0	1	3	4	6	9
92 T24 Non-Res. Bldg. Std.	0	2	25	35	75	124	0	0	5	7	15	24
	37	148	247	290	449	624	7	29	48	56	87	121
Sector= Industrial												
78 T24 NRes. Bldg Std. (Indust.)	32	43	54	55	58	48	4	5	6	6	7	5
	32	43	54	55	58	48	4	5	6	6	7	5
Sector= Residential												
75 HCD Res. Bldg. Stds.	117	158	170	175	190	207	112	150	161	166	181	196
76-82 T20 Res. Appliance Std.	79	205	265	287	350	405	18	47	61	65	80	92
78 T24 Res. Bldg. Stds.	13	20	22	22	25	27	13	19	21	21	23	26
83 T24 Res. Bldg. Stds.	0	0	55	58	72	75	15	44	53	55	69	71
84-92 T20 Res. Appliance Std.	0	41	90	110	173	229	0	8	17	21	33	44
92 T24 Res. Bldg. Std.	0	20	32	34	37	34	0	19	30	32	35	32
	210	444	634	685	847	976	157	287	343	361	422	462
TOTAL PROGRAM =	279	635	935	1030	1354	1649	168	320	397	423	515	588
SMUD =	769	1987	2428	2535	2629	2738	261	631	741	762	786	812

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TOTAL

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Air Quality Regulations												
Sector= Agricultural												
Air Quality Rules	0	-0	-1	-1	-1	-1	0	-0	-0	-0	-0	-0
	0	-0	-1	-1	-1	-1	0	-0	-0	-0	-0	-0
Sector= Commercial												
Air Quality Rules	0	0	-7	-7	-8	-9	0	0	-1	-1	-1	-1
	0	0	-7	-7	-8	-9	0	0	-1	-1	-1	-1
Sector= Elec. Vehicle												
Air Quality Rules	0	0	-115	-312	-3073	-4298	0	0	-9	-26	-252	-352
	0	0	-115	-312	-3073	-4298	0	0	-9	-26	-252	-352
Sector= Industrial												
Air Quality Rules	0	-1	-24	-25	-27	-27	0	-0	-3	-3	-4	-4
	0	-1	-24	-25	-27	-27	0	-0	-3	-3	-4	-4
TOTAL PROGRAM =	0	-1	-146	-345	-3109	-4335	0	-0	-13	-30	-256	-357
PROGRAM CATEGORY = Conservation & Efficiency												
Sector= Agricultural												
Energy Efficiency Incentives	37	434	440	361	54	0	10	91	155	139	68	1
Energy Management Services	219	360	241	181	35	0	49	75	50	38	8	0
New Construction	0	1	1	1	1	1	0	0	0	0	0	0
	256	796	682	542	90	2	59	166	205	177	77	1
Sector= Commercial												
Energy Efficiency Incentives	1016	2912	2625	2221	216	1	158	564	539	455	42	0
Energy Management Services	5397	3208	1318	753	11	0	1088	694	316	183	3	0
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	2	441	611	611	611	611	1	135	175	175	175	175
Streetlight Conversion	305	338	338	338	338	338	0	0	0	0	0	0
	6720	6898	4892	3923	1176	950	1246	1393	1029	813	219	175
Sector= Industrial												
Energy Efficiency Incentives	343	1171	1196	1028	316	3	51	174	179	152	41	0
Energy Management Services	2847	3779	2390	1785	439	3	600	787	489	361	80	1
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	0	1	1	1	1	1	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0
	3190	4950	3587	2813	757	7	652	961	668	514	121	1
Sector= Other												
Other	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0

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TOTAL

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Conservation & Efficiency.												
Sector= Residential												
Appliance Efficiency Incentives	592	1058	969	836	422	19	122	269	279	246	117	6
Direct Assistance	21	502	493	426	197	13	3	137	128	110	55	3
Energy Management Services	398	382	385	317	120	8	116	64	63	55	24	2
Information Programs	0	0	0	0	0	0	0	0	0	0	0	0
Master Meter	27	28	28	28	28	27	5	5	5	5	5	5
New Construction	195	263	275	275	247	105	27	64	72	72	70	49
Other	3	3	1	1	0	0	1	1	1	0	0	0
Solar Retrofit & Incentives	27	26	9	3	0	0	4	4	1	1	0	0
Weather Retrofit & Incentives	223	319	313	293	80	6	42	63	64	61	18	2
	1486	2580	2472	2179	1094	178	319	607	612	550	289	66
Sector= System Efficiency												
Other System Efficiency (not Volt. Reduc.)	41	60	60	60	60	60	15	21	21	21	21	21
Voltage Reduction	2917	2988	2991	2991	2991	2980	686	697	698	698	698	698
	2958	3048	3051	3051	3051	3039	701	718	719	719	719	719
TOTAL PROGRAM =	14609	18272	14684	12508	6167	4176	2978	3845	3233	2773	1425	962
PROGRAM CATEGORY = Fuel Substitution												
Sector= Commercial												
Fuel Substitution - Elect. Replaces Nat. Gas	0	-0	-3	-3	-3	-1	0	-0	-2	-2	-2	-1
Fuel Substitution-Nat. Gas Replaces Elect.	0	27	27	27	17	0	0	18	18	18	11	0
Gas Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
	0	27	24	24	14	-1	0	18	15	15	9	-1
Sector= Industrial												
Fuel Substitution - Elect. Replaces Nat. Gas	0	-3	-7	-7	-7	-2	0	-3	-3	-3	-3	-0
Fuel Substitution-Nat. Gas Replaces Elect.	0	312	313	313	294	22	0	137	138	138	128	8
	0	309	305	305	286	21	0	134	134	134	125	7
Sector= Residential												
Fuel Substitution-Nat. Gas Replaces Elect.	0	126	133	133	106	4	0	28	29	29	22	1
	0	126	133	133	106	4	0	28	29	29	22	1
TOTAL PROGRAM =	0	462	462	461	406	24	0	180	179	179	156	8
PROGRAM CATEGORY = Load Building												
Sector= Commercial												
Load Building	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Industrial												
Load Building	0	-7	0	0	0	0	0	-10	0	0	0	0
	0	-7	0	0	0	0	0	-10	0	0	0	0
TOTAL PROGRAM =	0	-7	0	0	0	0	0	-10	0	0	0	0

Form 8.4 SUMMARY OF ALL PROGRAM DIRECT IMPACTS
FOR ALL PROGRAMS BEGUN THROUGH 1994
TOTAL

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Load Management - Dispatchable												
Sector= Agricultural												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Commercial												
Air Conditioning	0	0	0	0	0	0	5	0	0	0	0	0
Interruptible/curtailable	0	0	0	0	0	0	90	0	0	0	0	0
	0	0	0	0	0	0	95	0	0	0	0	0
Sector= Industrial												
Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
Interruptible/curtailable	0	0	0	0	0	0	84	1	0	0	0	0
	0	0	0	0	0	0	84	1	0	0	0	0
Sector= Residential												
Air Conditioning	0	0	0	0	0	0	51	0	0	0	0	0
	0	0	0	0	0	0	51	0	0	0	0	0
TOTAL PROGRAM =	0	0	0	0	0	0	229	1	0	0	0	0
PROGRAM CATEGORY = Load Management - Nondispatchable												
Sector= Agricultural												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
Load Management	0	0	0	0	0	0	20	0	0	0	0	0
Time of Use	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	20	0	0	0	0	0
Sector= Commercial												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
Load Management	0	0	0	0	0	0	0	0	0	0	0	0
Thermal Storage	0	2	123	123	122	40	19	161	161	160	122	62
Time of Use	0	0	0	0	0	0	19	0	0	0	0	0
	0	2	123	123	122	40	38	161	161	160	122	62
Sector= Industrial												
Interruptible/curtailable	0	0	0	0	0	0	0	0	0	0	0	0
Load Management	0	0	0	0	0	0	0	0	0	0	0	0
Thermal Storage	0	-0	-0	-0	-0	-0	0	1	4	4	4	4
Time of Use	0	0	0	0	0	0	0	0	0	0	0	0
	0	-0	-0	-0	-0	-0	0	1	4	4	4	4
Sector= Other												
Load Management	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0

Form 8.4 SUMMARY OF ALL PROGRAM DIRECT IMPACTS
FOR ALL PROGRAMS BEGUN THROUGH 1994
TOTAL

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Load Management - Nondispatchable												
Sector= Residential												
Air Conditioning	0	0	0	0	0	0	0	0	0	0	0	0
Pool Pump Timer	26	7	0	0	0	0	209	110	28	10	0	0
Thermal Storage	0	-4	-5	-5	-5	-5	0	3	4	4	4	4
Time of Use	0	0	0	0	0	0	7	0	0	0	0	0
	26	3	-4	-5	-5	-5	216	114	32	14	4	4
TOTAL PROGRAM =	26	5	118	117	117	35	274	276	197	178	130	70
PROGRAM CATEGORY = Load Retention												
Sector= Commercial												
Load Retention	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
Sector= Industrial												
Load Retention	0	-2871	0	0	0	0	0	-446	0	0	0	0
	0	-2871	0	0	0	0	0	-446	0	0	0	0
TOTAL PROGRAM =	0	-2871	0	0	0	0	0	-446	0	0	0	0
PROGRAM CATEGORY = Market & Price Effects												
Sector= Commercial												
Market and Price Effects	6112	7257	5972	5337	4087	4658	1306	1536	1252	1109	823	944
	6112	7257	5972	5337	4087	4658	1306	1536	1252	1109	823	944
Sector= Industrial												
Market and Price Effects	1826	372	-430	-663	-828	-364	176	35	-45	-66	-79	-39
	1826	372	-430	-663	-828	-364	176	35	-45	-66	-79	-39
Sector= Residential												
Market and Price Effects	3290	6973	8631	9224	11183	12994	482	1017	1255	1340	1623	1883
	3290	6973	8631	9224	11183	12994	482	1017	1255	1340	1623	1883
TOTAL PROGRAM =	11228	14602	14173	13898	14442	17289	1964	2588	2462	2384	2366	2788
PROGRAM CATEGORY = Public Agency Programs												
Sector= Agricultural												
Farm Energy Assistance Program	0	8	7	5	0	0	0	2	2	1	0	0
	0	8	7	5	0	0	0	2	2	1	0	0

Form 8.4 SUMMARY OF ALL PROGRAM DIRECT IMPACTS
FOR ALL PROGRAMS BEGUN THROUGH 1994
TOTAL

	GWH 1985	GWH 1993	GWH 1998	GWH 2000	GWH 2007	GWH 2015	MW 1985	MW 1993	MW 1998	MW 2000	MW 2007	MW 2015
PROGRAM CATEGORY = Public Agency Programs												
Sector= Commercial												
CEC Local Jurisdiction Energy Assistance	0	20	16	10	0	0	0	4	3	2	0	0
Calif. Energy Extension Service (Schools)	1	10	4	2	0	0	0	2	1	0	0	0
Facilities Loans & Grants (Schools & Hosp.)	214	271	138	95	8	0	44	57	30	21	2	0
Misc. Weatherization Retro. - Energy Bank	1	2	2	2	0	0	0	0	0	0	0	0
State & Fed. Conservation Tax Credits	116	155	155	154	95	1	34	46	46	46	28	0
State and Federal Solar Tax Credits	36	50	49	47	9	0	2	3	3	3	1	0
Streetlight Conversion	78	89	89	89	89	89	0	0	0	0	0	0
	446	599	453	398	201	91	81	113	83	72	31	0
Sector= Residential												
Misc. Weatherization Retro. - DEO	28	74	61	52	12	0	7	19	15	13	3	0
Misc. Weatherization Retro. - Energy Bank	7	14	12	8	0	0	0	0	0	0	0	0
State & Fed. Conservation Tax Credits	238	268	268	266	139	2	59	67	67	66	35	0
State and Federal Solar Tax Credits	378	445	275	155	2	0	94	111	69	39	0	0
	650	802	617	481	153	2	161	197	151	118	38	0
TOTAL PROGRAM =	1096	1409	1077	885	354	92	242	311	235	191	70	1
PROGRAM CATEGORY = Statewide Bldg. & Equipment Stds.												
Sector= Commercial												
76-82 T20 Equip. Std. (Commer.)	172	687	1025	1172	1694	2224	38	152	227	260	376	493
77 T24 NRes. Bldg. Std. (Commer.)	321	1224	1768	2032	3002	4045	69	267	387	445	657	884
84 T20 Equip. Std. (Commer.)	34	343	709	885	1517	2195	7	75	156	195	336	485
84 T24 NRes. Bldg. Std. (Offices)	30	493	787	924	1439	2034	7	111	178	209	325	460
85 T24 NRes. Bldg. Std. (Retail/Wholesale)	0	176	405	529	997	1523	0	39	90	118	222	339
92 T24 Non-Res. Bldg. Std.	0	24	445	671	1523	2499	0	5	100	151	342	561
	557	2946	5139	6212	10172	14519	121	649	1138	1377	2259	3223
Sector= Industrial												
78 T24 NRes. Bldg Std. (Indust.)	811	730	724	682	543	352	116	103	102	95	76	49
	811	730	724	682	543	352	116	103	102	95	76	49
Sector= Residential												
75 HCD Res. Bldg. Stds.	825	1278	1517	1608	1898	2211	688	1074	1288	1369	1631	1912
76-82 T20 Res. Appliance Std.	1278	3461	4538	4924	6074	7075	274	745	977	1060	1308	1525
78 T24 Res. Bldg. Stds.	85	161	202	216	261	309	73	139	175	188	229	271
83 T24 Res. Bldg. Stds.	0	0	717	793	1051	1270	95	432	612	679	907	1100
84-92 T20 Res. Appliance Std.	0	936	2125	2583	4046	5332	0	179	404	490	768	1012
92 T24 Res. Bldg. Std.	0	183	259	281	319	300	0	159	224	243	277	264
	2188	6018	9358	10405	13651	16497	1131	2727	3679	4029	5120	6085
TOTAL PROGRAM =	3556	9694	15222	17299	24366	31368	1369	3479	4919	5501	7454	9357
TOTAL =	30515	41565	45590	44823	42743	48649	7056	10224	11211	11177	11345	12828

Utility Dispatchable Load Management Impacts*
(MW)

UTILITY: PACIFIC GAS & ELECTRIC - Agricultural Interruptible

	Available					Dispatched on Peak		
	A/C Cycling		Curtailable/Interruptible Rates					
Year	Number of Cyclers	MW	Number of Customers	Contracted (MW)	Total MW Available	AC Cycling MW	Curtailable/ Interruptible MW	Total MW Dispatched
1975			n/a	n/a	n/a		n/a	n/a
1976			n/a	n/a	n/a		n/a	n/a
1977			n/a	n/a	n/a		n/a	n/a
1978			n/a	n/a	n/a		n/a	n/a
1979			n/a	n/a	n/a		n/a	n/a
1980			n/a	n/a	n/a		n/a	n/a
1981			n/a	n/a	n/a		n/a	n/a
1982			n/a	n/a	n/a		n/a	n/a
1983			30	<1	<1		<1	<1
1984			26	<1	<1		<1	<1
1985			140	2	2		1	1
1986			210	3	3		<1	<1
1987			550	3	3		<1	<1
1988			513	2	2		2	2
1989			243	8	8		1	1
1990			208	6	6		0.5	0.5
1991			n/a	n/a	n/a		n/a	n/a
1992			n/a	n/a	n/a		n/a	n/a
1993			n/a	n/a	n/a		n/a	n/a
1994			n/a	n/a	n/a		n/a	n/a

* PG&E 1994 Electricity Report (ER 94) Demand-Side Management Forms, filed June 1993

Key: Available = Amount available under contract if every customer followed utility orders.
Dispatched = Actual load reduction experienced by these programs in the historical year.

Utility Dispatchable Load Management Impacts*
(MW)

UTILITY: PACIFIC GAS & ELECTRIC Commercial A/C Cycling

	Available					Dispatched on Peak		
	A/C Cycling		Curtailable/Interruptible Rates					
Year	Number of Cyclers	MW	Number of Customers	Contracted (MW)	Total MW Available	AC Cycling MW	Curtailable/ Interruptible MW	Total MW Dispatched
1975	n/a	n/a			n/a	n/a		n/a
1976	n/a	n/a			n/a	n/a		n/a
1977	n/a	n/a			n/a	n/a		n/a
1978	n/a	n/a			n/a	n/a		n/a
1979	n/a	n/a			n/a	n/a		n/a
1980	n/a	n/a			n/a	n/a		n/a
1981	n/a	n/a			n/a	n/a		n/a
1982	310	n/a			n/a	n/a		n/a
1983	270	2.0			2.0	2.0		2.0
1984	265	1.3			1.3	1.3		1.3
1985	n/a	n/a			n/a	n/a		n/a
1986	n/a	n/a			n/a	n/a		n/a
1987	n/a	n/a			n/a	n/a		n/a
1988	n/a	n/a			n/a	n/a		n/a
1989	n/a	n/a			n/a	n/a		n/a
1990	n/a	n/a			n/a	n/a		n/a
1991	n/a	n/a			n/a	n/a		n/a
1992	n/a	n/a			n/a	n/a		n/a
1993	n/a	n/a			n/a	n/a		n/a
1994	n/a	n/a			n/a	n/a		n/a

* PG&E 1994 Electricity Report (ER 94) Demand-Side Management Forms, filed June 1993

Key: Available = Amount available under contract if every customer followed utility orders.
Dispatched = Actual load reduction experienced by these programs in the historical year.

Utility Dispatchable Load Management Impacts*
(MW)

UTILITY: PACIFIC GAS & ELECTRIC Non-Firm Rates (formerly Large Interruptible/Curtailable)

	Available					Dispatched on Peak		
	A/C Cycling		Curtailable/Interruptible Rates					
Year	Number of Cyclers	MW	Number of Customers	Contracted (MW)	Total MW Available	AC Cycling MW	Curtailable/ Interruptible MW	Total MW Dispatched
1975			n/a	n/a	n/a		n/a	n/a
1976			n/a	n/a	n/a		n/a	n/a
1977			n/a	n/a	n/a		n/a	n/a
1978			n/a	n/a	n/a		n/a	n/a
1979			n/a	n/a	n/a		n/a	n/a
1980			n/a	n/a	n/a		n/a	n/a
1981			n/a	n/a	n/a		n/a	n/a
1982			n/a	n/a	n/a		n/a	n/a
1983			36	80	80		77	77
1984			34	112	112		109	109
1985			60	173	173		100	100
1986			124	186	186		0	0
1987			170	408	408		320	320
1988			202	420	420		0	0
1989			232	511	511		0	0
1990			245	543	543		0	0
1991			246	544	544		0	0
1992			259	546	546		500	500
1993			268	554	521		521	521
1994			270	556	556		350	350

* PG&E 1994 Electricity Report (ER 94) Demand-Side Management Forms, filed June 1993

Key: Available = Amount available under contract if every customer followed utility orders.
Dispatched = Actual load reduction experienced by these programs in the historical year.

[1]PG&E Annual DSM Summary Report 1993 Results/1994 Plans - used August values
[2]PG&E Annual DSM Summary Report 1994 Results/1995 Plans - used August values

Utility Dispatchable Load Management Impacts*
(MW)

UTILITY: PACIFIC GAS & ELECTRIC Residential A/C Cycling

	Available					Dispatched on Peak		
	A/C Cycling		Curtailable/Interruptible Rates					
Year	Number of Cyclers	MW	Number of Customers	Contracted (MW)	Total MW Available	AC Cycling MW	Curtailable/ Interruptible MW	Total MW Dispatched
1975	0	0			0	0		0
1976	0	0			0	0		0
1977	400	0			0	0		0
1978	475	0			0	0		0
1979	1,475	1			1	0		0
1980	24,000	17			17	0		0
1981	37,000	50			50	43		43
1982	57,000	47			47	0		0
1983	68,600	66			66	36		36
1984	63,400	66			66	48		48
1985	61,700	49			49	40		40
1986	51,600	40			40	0		0
1987	45,357	20			20	20		20
1988	38,553	17			17	0		0
1989	n/a	0			0	0		0
1990	n/a	0			0	0		0
1991	n/a	0			0	0		0
1992	n/a	0			0	0		0
1993	0	0			0	0		0
1994	0	0			0	0		0

* PG&E 1994 Electricity Report (ER 94) Demand-Side Management Forms, filed June 1993

Key: Available = Amount available under contract if every customer followed utility orders.
Dispatched = Actual load reduction experienced by these programs in the historical year.

Utility Dispatchable Load Management Impacts*
(MW)

UTILITY: PACIFIC GAS & ELECTRIC Small Load Curtailment

	Available					Dispatched on Peak		
	A/C Cycling		Curtailable/Interruptible Rates					
Year	Number of Cyclers	MW	Number of Customers	Contracted (MW)	Total MW Available	AC Cycling MW	Curtailable/ Interruptible MW	Total MW Dispatched
1975			n/a	n/a	n/a		n/a	n/a
1976			n/a	n/a	n/a		n/a	n/a
1977			n/a	n/a	n/a		n/a	n/a
1978			n/a	n/a	n/a		n/a	n/a
1979			n/a	n/a	n/a		n/a	n/a
1980			n/a	n/a	n/a		n/a	n/a
1981			4	2	2		2	2
1982			4	2	2		2	2
1983			4	6	6		6	6
1984			4	6	6		6	6
1985			26	12	12		5	5
1986			45	17	17		11	11
1987			66	25	25		21	21
1988			62	24	24		0	0
1989			69	28	28		1	1
1990			66	27	27		2	2
1991			12	10	10		0	0
1992			8	4	4		4	4
1993[1]			8	4	4		3	3
1994[2]			8	4	4		0	0

* PG&E 1994 Electricity Report (ER 94) Demand-Side Management Forms, filed June 1993

Key: Available = Amount available under contract if every customer followed utility orders.
Dispatched = Actual load reduction experienced by these programs in the historical year.

[1]PG&E Annual DSM Summary Report 1993 Results/1994 Plans - used August values
[2]PG&E Annual DSM Summary Report 1994 Results/1995 Plans - used August values

Utility Dispatchable Load Management Impacts*
(MW)

UTILITY: SACRAMENTO MUNICIPAL UTILITY DISTRICT Peak Corps (Residential and Commercial A/C Load Management), Auxiliary Power Systems, Curtailable Service, Fast Dispatch

	Available					Dispatched on Peak		
	A/C Cycling		Curtailable/Interruptible Rates					
Year	Number of Cyclers	MW	Number of Customers	Contracted (MW)	Total MW Available	AC Cycling MW	Curtailable/ Interruptible MW	Total MW Dispatched
1975	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1976	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1977	258	0.1			0.1	0.1		0.1
1978	846	0.4			0.4	0.4		0.4
1979	1,079	0.5			0.5	0.5		0.5
1980	5,890	2.8			2.8	2.8		2.8
1981	8,360	4.0			4.0	4.0		4.0
1982	13,186	5.8			5.8	5.8		5.8
1983	19,988	8.4			8.4	8.4		8.4
1984	24,359	11.3			11.3	11.3		11.3
1985	35,723	18.8			18.8	0.0		0.0
1986	36,945	19.8		11.9	31.7	19.8	11.9	31.7
1987	42,827	23.8		18.0	41.8	23.8	18.0	41.8
1988	51,874	30.6		26.0	56.6	0.0	26.0	26.0
1989	54,072	32.0		29.0	61.0	32.0	0.0	32.0
1990	68,167	92.0		45.0	137.0	92.0	48.0	140.0
1991		76.9		59.2	136.1			
1992		94.6		70.7	165.3			
1993[1]	133,881	127.5			127.5	5.3	0.2	5.5
1994[1&2]	153,321	162.5			162.5	6.1	0.2	6.3

* SMUD 1994 Electricity Report (ER 94) Demand-Side Management Forms, filed June 1993

Key: Available = Amount available under contract if every customer followed utility orders.
Dispatched = Actual load reduction experienced by these programs in the historical year.

[1]SMUD 1996 ER 96 Demand Forecast Forms & Supporting Text, July 14, 1995
[2]Summer 1994 participants

Utility Dispatchable Load Management Impacts*
(MW)

UTILITY: SAN DIEGO GAS & ELECTRIC Residential A/C Cycling

	Available					Dispatched on Peak		
	A/C Cycling		Curtailable/Interruptible Rates					
Year	Number of Cyclers	MW	Number of Customers	Contracted (MW)	Total MW Available	AC Cycling MW	Curtailable/ Interruptible MW	Total MW Dispatched
1975	n/a	n/a			n/a	n/a		n/a
1976	n/a	n/a			n/a	n/a		n/a
1977	n/a	n/a			n/a	n/a		n/a
1978	n/a	n/a			n/a	n/a		n/a
1979	n/a	n/a			n/a	n/a		n/a
1980	1,082					n/a		n/a
1981	4,086					n/a		n/a
1982	6,759					n/a		n/a
1983	14,887	7.90			7.90	n/a		n/a
1984	23,833	12.74			12.74	n/a		n/a
1985	21,630	12.74			12.74	n/a		n/a
1986	18,880	26.45			26.45	n/a		n/a
1987	18,463	18.00			18.00	n/a		n/a
1988	8,360	15.00			15.00			
1989	6,700	7.52			7.52			
1990	6,250	7.52			7.52			
1991	5,850	7.04			7.04			
1992	5,274	7.31			7.31			
1993	0	0			0	0		0
1994	0	0			0	0		0

* SDG&E 1994 Electricity Report (ER 94) Demand-Side Management Forms, filed June 1993

Key: Available = Amount available under contract if every customer followed utility orders.
Dispatched = Actual load reduction experienced by these programs in the historical year.

[1]SDG&E Annual DSM Summary Report 1993 Results/1994 Plans - used September values
[2]SDG&E Annual DSM Summary Report 1994 Results/1995 Plans - used September values

Utility Dispatchable Load Management Impacts*
(MW)

UTILITY: SAN DIEGO GAS & ELECTRIC Curtailable Rate Program

	Available					Dispatched on Peak		
	A/C Cycling		Curtailable/Interruptible Rates					
Year	Number of Cyclers	MW	Number of Customers	Contracted (MW)	Total MW Available	AC Cycling MW	Curtailable/ Interruptible MW	Total MW Dispatched
1975								
1976								
1977								
1978								
1979								
1980								
1981								
1982								
1983								
1984								
1985								
1986								
1987								
1988			16	11.29	11.29		7.38	7.38
1989			34	19.86	19.86			
1990			54	24.10	24.10		22.59	22.59
1991			57	32.40	32.40		27.94	27.94
1992			40	30.39	30.39		30.92	30.92
1993[1]			37	29.78	29.78		0	0
1994[2]			39	31.5	31.5		31.34	31.34

*SDG&E 1994 Electricity Report (ER 94) Demand-Side Management Forms, filed June 1993

Key: Available = Amount available under contract if every customer followed utility orders.
Dispatched = Actual load reduction experienced by these programs in the historical year.

[1]SDG&E Annual DSM Summary Report 1993 Results/1994 Plans - used September values
[2]SDG&E Annual DSM Summary Report 1994 Results/1995 Plans - used September values

Utility Dispatchable Load Management Impacts*
(MW)

UTILITY: SOUTHERN CALIFORNIA EDISON

	Available					Dispatched on Peak		
	A/C Cycling		Curtailable/Interruptible Rates					
Year	Number of Cyclers	MW	Number of Customers	Contracted (MW)	Total MW Available	AC Cycling MW	Curtailable/ Interruptible MW	Total MW Dispatched
1975								
1976								
1977								
1978								
1979			2	2	2		0	0
1980			11	32	32		0	0
1981			20	61	61		0	0
1982			25	70	70		0	0
1983	4,620	10	31	118	128	0	0	118
1984	30,970	67	44	118	185	62	0	61.5
1985	67,350	125	66	125	250	0	118	0
1986	88,368	177	130	241	417	22	0	21.37
1987	99,233	190	245	419	609	0	0	0
1988	103,790	199	379	548	747	0	0	0
1989	108,499	217	530	657	874	148	0	148
1990	117,205	234	612	830	1,064	196	0	196
1991	122,349	245	794	1,035	1,280	0	0	0
1992	128,636	257	1,005	1,147	1,404	0	0	0
1993[1]	148,730	299	1,122	1,250	-	-	-	
1994[2]	163,848	330	1,254	1,393	-	-	-	

*SCE 1994 Electricity Report (ER 94) Demand-Side Management Forms, filed June 1993

Key: Available = Amount available under contract if every customer followed utility orders.
Dispatched = Actual load reduction experienced by these programs in the historical year.

[1]SCE Annual DSM Summary Report 1993 Results/1994 Plans - used September values
[2]SCE Annual DSM Summary Report 1994 Results/1995 Plans - used September values