

Percent of Impacted Buildings Switching

Scenario 0 (DOE Baseline LCC Model)						
TSL	California	Southern California	Residential Replacement	Replacement - Southern California	Residential New	Residential New - Southern California
1 NWGF 90%	24.0%	28.7%	20.3%	24.0%	39.7%	47.2%
2 NWGF 92%	23.5%	27.8%	19.9%	23.4%	38.5%	45.4%
3 NWGF 95%	24.0%	27.5%	20.7%	23.6%	37.7%	42.8%
4 NWGF 98%	28.1%	30.4%	25.0%	27.2%	40.8%	43.0%

Scenario Int-5 (Scenarios 24 & I-16)						
TSL	California	California	Replacement	Replacement -	Residential New	Southern
1 NWGF 90%	25.2%	28.1%	24.6%	24.6%	39.0%	42.9%
2 NWGF 92%	24.1%	27.4%	24.0%	24.0%	39.0%	43.1%
3 NWGF 95%	28.6%	32.3%	28.9%	28.9%	40.9%	47.4%
4 NWGF 98%	32.0%	36.5%	33.7%	33.7%	44.1%	48.4%

	Senior Only - Southern California		Low Income - Southern California	
Senior Only	Low Income	Senior Only	Low Income	
24.0%	21.2%	31.3%	43.5%	
23.4%	20.5%	30.5%	43.1%	
23.0%	21.1%	28.5%	40.5%	
26.4%	24.0%	31.3%	43.7%	

Senior Only	Southern California	Low Income	Southern California
27.4%	24.7%	43.0%	56.0%
25.3%	23.2%	40.6%	54.9%
24.8%	22.2%	41.8%	55.7%
28.6%	27.9%	45.9%	61.9%

Scenario	California	Southern California
DOE NOPR (GTI Scenario 0)	24.0%	28.7%
GTI Scenario Int-5	25.2%	28.1%
DOE NOPR (GTI Scenario 0)	23.5%	27.8%
GTI Scenario Int-5	24.1%	27.4%
DOE NOPR (GTI Scenario 0)	24.0%	27.5%
GTI Scenario Int-5	28.6%	32.3%
DOE NOPR (GTI Scenario 0)	28.1%	30.4%
GTI Scenario Int-5	32.0%	36.5%

Residential Replacement	Replacement - Southern California	Residential New	New - Southern California	Senior Only	Senior Only - Southern California	Low Income	Low Income - Southern California
Percent of Impacted Buildings Switching - 90% TSL							
20.3%	24.0%	39.7%	47.2%	24.0%	21.2%	31.3%	43.5%
24.6%	24.6%	39.0%	42.9%	27.4%	24.7%	43.0%	56.0%
Percent of Impacted Buildings Switching - 92% TSL							
19.9%	23.4%	38.5%	45.4%	23.4%	20.5%	30.5%	43.1%
24.0%	24.0%	39.0%	43.1%	25.3%	23.2%	40.6%	54.9%
Percent of Impacted Buildings Switching - 95% TSL							
20.7%	23.6%	37.7%	42.8%	23.0%	21.1%	28.5%	40.5%
28.9%	28.9%	40.9%	47.4%	24.8%	22.2%	41.8%	55.7%
Percent of Impacted Buildings Switching - 98% TSL							
25.0%	27.2%	40.8%	43.0%	26.4%	24.0%	31.3%	43.7%
33.7%	33.7%	44.1%	48.4%	28.6%	27.9%	45.9%	61.9%

California Only							Scenario 0 (DOE Baseline LCC Model)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	10361	8824	2117	20.4%	24.0%	1221	246
2	NWGF 92%	10361	9080	2134	20.6%	23.5%	1235	252
3	NWGF 95%	10361	10004	2404	23.2%	24.0%	1425	276
4	NWGF 98%	10361	10357	2906	28.0%	28.1%	1813	256

Southern California Only							Scenario 0 (DOE Baseline LCC Model)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	3290	2802	803	24.4%	28.7%	587	25
2	NWGF 92%	3290	2894	805	24.5%	27.8%	590	23
3	NWGF 95%	3290	3181	876	26.6%	27.5%	628	23
4	NWGF 98%	3290	3289	1000	30.4%	30.4%	683	29

California Senior Only							Scenario 0 (DOE Baseline LCC Model)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	1458	1244	298	20.4%	24.0%	198	28
2	NWGF 92%	1458	1280	300	20.6%	23.4%	200	28
3	NWGF 95%	1458	1400	322	22.1%	23.0%	217	30
4	NWGF 98%	1458	1457	384	26.3%	26.4%	259	34

California Low Income							Scenario 0 (DOE Baseline LCC Model)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	501	432	135	26.9%	31.3%	67	21
2	NWGF 92%	501	446	136	27.1%	30.5%	69	20
3	NWGF 95%	501	484	138	27.5%	28.5%	67	22
4	NWGF 98%	501	501	157	31.3%	31.3%	90	14

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
347	133	170
351	127	169
425	123	155
549	161	127

Residential - Replacement California Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	8264	7054	1429	17.3%
2	NWGF 92%	8264	7244	1442	17.4%
3	NWGF 95%	8264	7952	1644	19.9%
4	NWGF 98%	8264	8260	2067	25.0%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
146	28	17
147	28	17
178	30	17
238	35	15

Residential - Replacement Southern California Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	2640	2256	542	20.5%
2	NWGF 92%	2640	2323	543	20.6%
3	NWGF 95%	2640	2544	601	22.8%
4	NWGF 98%	2640	2639	719	27.2%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
31	14	27
31	14	27
34	15	26
53	14	24

Southern California Senior Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	416	359	76	18.3%
2	NWGF 92%	416	370	76	18.3%
3	NWGF 95%	416	399	84	20.2%
4	NWGF 98%	416	416	100	24.0%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
25	12	10
25	12	10
28	11	10
36	8	9

Southern California Low Income					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	119	108	47	39.5%
2	NWGF 92%	119	109	47	39.5%
3	NWGF 95%	119	116	47	39.5%
4	NWGF 98%	119	119	52	43.7%

Scenario 0 (DOE Baseline LCC Model)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected Switching	-->	-->	-->	-->	-->
	HP	HP+EWH	EF	EF+EWH	EWH
20.3%	831	119	287	90	102
19.9%	848	118	288	87	101
20.7%	1002	114	341	92	95
25.0%	1289	119	465	107	87

Residential - New California Only	
Level	Description
NWGF	
1	NWGF 90%
2	NWGF 92%
3	NWGF 95%
4	NWGF 98%

Scenario 0 (DOE Baseline LCC Model)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected Switching	-->	-->	-->	-->	-->
	HP	HP+EWH	EF	EF+EWH	EWH
24.0%	356	22	119	28	17
23.4%	357	21	120	28	17
23.6%	384	22	148	30	17
27.2%	438	27	206	33	15

Residential - New Southern California C	
Level	Description
NWGF	
1	NWGF 90%
2	NWGF 92%
3	NWGF 95%
4	NWGF 98%

Scenario 0 (DOE Baseline LCC Model)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected Switching	-->	-->	-->	-->	-->
	HP	HP+EWH	EF	EF+EWH	EWH
21.2%	50	1	15	5	5
20.5%	50	1	15	5	5
21.1%	53	1	19	6	5
24.0%	64	1	24	6	5

Scenario 0 (DOE Baseline LCC Model)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected Switching	-->	-->	-->	-->	-->
	HP	HP+EWH	EF	EF+EWH	EWH
43.5%	11	1	24	9	2
43.1%	12	0	24	9	2
40.5%	10	0	26	9	2
43.7%	12	0	32	6	2

Scenario 0 (DOE Baseline LCC Model)								
					type of switching			
Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Swtiching	NWGF	NWGF+GWH	NWGF	NWGF+GWH
					--> HP	--> HP+EWH	--> EF	--> EF+EWH
1919	1627	646	33.7%	39.7%	356	127	52	43
1919	1687	650	33.9%	38.5%	353	134	55	40
1919	1886	711	37.1%	37.7%	384	162	74	31
1919	1919	782	40.8%	40.8%	482	137	69	54

Scenario 0 (DOE Baseline LCC Model)								
nly					type of switching			
Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Swtiching	NWGF	NWGF+GWH	NWGF	NWGF+GWH
					--> HP	--> HP+EWH	--> EF	--> EF+EWH
600	508	240	40.0%	47.2%	211	3	26	0
600	531	241	40.2%	45.4%	213	2	26	0
600	591	253	42.2%	42.8%	223	1	29	0
600	600	258	43.0%	43.0%	224	2	30	2

GWH
-->
EWH
68
68
60
40

Commercial - Replacement California Only							Scenario 0 (DOE Baseline L
							NWGF
		Number of	Number	Number	% of Total	% of Affected	-->
Level	Description	Buildings	Affected	Switching	Switching	Switching	HP
NWGF							
1	NWGF 90%	152	121	35	23.0%	28.9%	27
2	NWGF 92%	152	127	35	23.0%	27.6%	27
3	NWGF 95%	152	142	40	26.3%	28.2%	30
4	NWGF 98%	152	152	42	27.6%	27.6%	29

GWH
-->
EWH
0
0
0
0

Commercial - Replacement Southern California Only							Scenario 0 (DOE Baseline L
							NWGF
		Number of	Number	Number	% of Total	% of Affected	-->
Level	Description	Buildings	Affected	Switching	Switching	Switching	HP
NWGF							
1	NWGF 90%	46	35	18	39.1%	51.4%	17
2	NWGF 92%	46	37	18	39.1%	48.6%	17
3	NWGF 95%	46	42	19	41.3%	45.2%	18
4	NWGF 98%	46	46	20	43.5%	43.5%	18

LCC Model)			
type of switching			
NWGF+GWH	NWGF	NWGF+GWH	GWH
-->	-->	-->	-->
HP+EWH	EF	EF+EWH	EWH
0	8	0	0
0	8	0	0
0	10	0	0
0	13	0	0

Commercial - New California Only				
Level	Description	Number of Buildings	Number Affected	Number Switching
NWGF				
1	NWGF 90%	26	22	7
2	NWGF 92%	26	22	7
3	NWGF 95%	26	24	9
4	NWGF 98%	26	26	15

LCC Model)			
type of switching			
NWGF+GWH	NWGF	NWGF+GWH	GWH
-->	-->	-->	-->
HP+EWH	EF	EF+EWH	EWH
0	1	0	0
0	1	0	0
0	1	0	0
0	2	0	0

Commercial - New Southern California Only				
Level	Description	Number of Buildings	Number Affected	Number Switching
NWGF				
1	NWGF 90%	4	3	3
2	NWGF 92%	4	3	3
3	NWGF 95%	4	4	3
4	NWGF 98%	4	4	3

Scenario 0 (DOE Baseline LCC Model)						
% of Total Switching	% of Affected Switching	type of switching				
		NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
		--> HP	--> HP+EWH	--> EF	--> EF+EWH	--> EWH
26.9%	31.8%	7	0	0	0	0
26.9%	31.8%	7	0	0	0	0
34.6%	37.5%	9	0	0	0	0
57.7%	57.7%	13	0	2	0	0

Scenario 0 (DOE Baseline LCC Model)						
% of Total Switching	% of Affected Switching	type of switching				
		NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
		--> HP	--> HP+EWH	--> EF	--> EF+EWH	--> EWH
75.0%	100.0%	3	0	0	0	0
75.0%	100.0%	3	0	0	0	0
75.0%	75.0%	3	0	0	0	0
75.0%	75.0%	3	0	0	0	0

California Only							Scenario 24 (D2, D4, D5, D8)	
							typ	
							NWGF	NWGF+GWH
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	--> HP	--> HP+EWH
NWGF								
1	NWGF 90%	10361	7352	1651	15.9%	22.5%	929	116
2	NWGF 92%	10361	7653	1655	16.0%	21.6%	934	115
3	NWGF 95%	10361	8755	2070	20.0%	23.6%	1167	178
4	NWGF 98%	10361	9142	2768	26.7%	30.3%	1624	179

Southern California Only							Scenario 24 (D2, D4, D5, D8)	
							typ	
							NWGF	NWGF+GWH
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	--> HP	--> HP+EWH
NWGF								
1	NWGF 90%	3290	2406	623	18.9%	25.9%	389	18
2	NWGF 92%	3290	2445	628	19.1%	25.7%	389	19
3	NWGF 95%	3290	2768	754	22.9%	27.2%	474	18
4	NWGF 98%	3290	2909	986	30.0%	33.9%	603	25

California Senior Only							Scenario 24 (D2, D4, D5, D8)	
							typ	
							NWGF	NWGF+GWH
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	--> HP	--> HP+EWH
NWGF								
1	NWGF 90%	1458	1134	291	20.0%	25.7%	180	17
2	NWGF 92%	1458	1200	290	19.9%	24.2%	182	16
3	NWGF 95%	1458	1309	312	21.4%	23.8%	197	17
4	NWGF 98%	1458	1341	362	24.8%	27.0%	235	14

California Low Income							Scenario 24 (D2, D4, D5, D8)	
							typ	
							NWGF	NWGF+GWH
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	--> HP	--> HP+EWH
NWGF								
1	NWGF 90%	501	402	143	28.5%	35.6%	59	13
2	NWGF 92%	501	414	144	28.7%	34.8%	61	12
3	NWGF 95%	501	451	164	32.7%	36.4%	70	18
4	NWGF 98%	501	461	203	40.5%	44.0%	104	13

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
405	92	109
403	93	110
500	114	111
695	171	99

Residential - Replacement California Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	8264	6993	1570	19.0%
2	NWGF 92%	8264	7264	1571	19.0%
3	NWGF 95%	8264	7763	1796	21.7%
4	NWGF 98%	8264	7927	2253	27.3%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
166	24	26
169	26	25
208	29	25
294	43	21

Residential - Replacement Southern California Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	2640	2320	589	22.3%
2	NWGF 92%	2640	2358	591	22.4%
3	NWGF 95%	2640	2463	657	24.9%
4	NWGF 98%	2640	2520	801	30.3%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
58	14	22
57	13	22
61	16	21
79	16	18

Southern California Senior Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	416	363	90	21.6%
2	NWGF 92%	416	369	90	21.6%
3	NWGF 95%	416	389	94	22.6%
4	NWGF 98%	416	395	112	26.9%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
49	9	13
48	10	13
52	11	13
64	13	9

Southern California Low Income					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	119	108	54	45.4%
2	NWGF 92%	119	111	55	46.2%
3	NWGF 95%	119	114	60	50.4%
4	NWGF 98%	119	117	67	56.3%

Scenario 24 (D2, D4, D5, D8)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected	-->	-->	-->	-->	-->
Switching	HP	HP+EWH	EF	EF+EWH	EWH
22.5%	880	103	391	89	107
21.6%	886	101	388	88	108
23.1%	1043	96	464	94	99
28.4%	1326	82	637	121	87

Residential - New California Only	
Level	Description
NWGF	
1	NWGF 90%
2	NWGF 92%
3	NWGF 95%
4	NWGF 98%

Scenario 24 (D2, D4, D5, D8)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected	-->	-->	-->	-->	-->
Switching	HP	HP+EWH	EF	EF+EWH	EWH
25.4%	360	18	161	24	26
25.1%	358	19	163	26	25
26.7%	393	18	192	29	25
31.8%	456	24	260	40	21

Residential - New Southern California C	
Level	Description
NWGF	
1	NWGF 90%
2	NWGF 92%
3	NWGF 95%
4	NWGF 98%

Scenario 24 (D2, D4, D5, D8)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected	-->	-->	-->	-->	-->
Switching	HP	HP+EWH	EF	EF+EWH	EWH
24.8%	48	1	26	8	7
24.4%	48	1	26	8	7
24.2%	50	1	27	9	7
28.4%	64	0	31	10	7

Scenario 24 (D2, D4, D5, D8)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected	-->	-->	-->	-->	-->
Switching	HP	HP+EWH	EF	EF+EWH	EWH
50.0%	7	1	35	7	4
49.5%	7	1	35	8	4
52.6%	10	1	38	7	4
57.3%	15	0	42	7	3

Scenario 24 (D2, D4, D5, D8)								
					type of switching			
Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Swtiching	NWGF	NWGF+GWH	NWGF	NWGF+GWH
					--> HP	--> HP+EWH	--> EF	--> EF+EWH
1919	244	36	1.9%	14.8%	15	13	3	3
1919	270	38	2.0%	14.1%	13	14	4	5
1919	865	225	11.7%	26.0%	89	82	22	20
1919	1069	456	23.8%	42.7%	258	97	39	50

Scenario 24 (D2, D4, D5, D8)								
only					type of switching			
Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Swtiching	NWGF	NWGF+GWH	NWGF	NWGF+GWH
					--> HP	--> HP+EWH	--> EF	--> EF+EWH
600	53	11	1.8%	20.8%	8	0	3	0
600	54	13	2.2%	24.1%	9	0	4	0
600	270	74	12.3%	27.4%	60	0	14	0
600	345	160	26.7%	46.4%	124	1	32	3

GWH
-->
EWH
2
2
12
12

Commercial - Replacement California Only							Scenario 24 (D2, D4, D5, D8)
							NWGF
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	--> HP
NWGF							
1	NWGF 90%	152	113	44	28.9%	38.9%	33
2	NWGF 92%	152	117	45	29.6%	38.5%	34
3	NWGF 95%	152	124	47	30.9%	37.9%	33
4	NWGF 98%	152	140	56	36.8%	40.0%	38

GWH
-->
EWH
0
0
0
0

Commercial - Replacement Southern California Only							Scenario 24 (D2, D4, D5, D8)
							NWGF
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	--> HP
NWGF							
1	NWGF 90%	46	33	23	50.0%	69.7%	21
2	NWGF 92%	46	33	24	52.2%	72.7%	22
3	NWGF 95%	46	35	23	50.0%	65.7%	21
4	NWGF 98%	46	44	25	54.3%	56.8%	23

) type of switching			
NWGF+GWH	NWGF	NWGF+GWH	GWH
-->	-->	-->	-->
HP+EWH	EF	EF+EWH	EWH
0	11	0	0
0	11	0	0
0	14	0	0
0	18	0	0

Commercial - New California Only				
Level	Description	Number of Buildings	Number Affected	Number Switching
NWGF				
1	NWGF 90%	26	2	1
2	NWGF 92%	26	2	1
3	NWGF 95%	26	3	2
4	NWGF 98%	26	6	3

) type of switching			
NWGF+GWH	NWGF	NWGF+GWH	GWH
-->	-->	-->	-->
HP+EWH	EF	EF+EWH	EWH
0	2	0	0
0	2	0	0
0	2	0	0
0	2	0	0

Commercial - New Southern California Only				
Level	Description	Number of Buildings	Number Affected	Number Switching
NWGF				
1	NWGF 90%	4	0	0
2	NWGF 92%	4	0	0
3	NWGF 95%	4	0	0
4	NWGF 98%	4	0	0

Scenario 24 (D2, D4, D5, D8)						
% of Total Switching	% of Affected Switching	type of switching				
		NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
		--> HP	--> HP+EWH	--> EF	--> EF+EWH	--> EWH
3.8%	50.0%	1	0	0	0	0
3.8%	50.0%	1	0	0	0	0
7.7%	66.7%	2	0	0	0	0
11.5%	50.0%	2	0	1	0	0

Scenario 24 (D2, D4, D5, D8)						
% of Total Switching	% of Affected Switching	type of switching				
		NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
		--> HP	--> HP+EWH	--> EF	--> EF+EWH	--> EWH
0.0%	#DIV/0!	0	0	0	0	0
0.0%	#DIV/0!	0	0	0	0	0
0.0%	#DIV/0!	0	0	0	0	0
0.0%	#DIV/0!	0	0	0	0	0

California Only							Scenario I-16 (I2, I6, I8, I13)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	10361	7021	1394	13.5%	19.9%	663	186
2	NWGF 92%	10361	7580	1403	13.5%	18.5%	671	185
3	NWGF 95%	10361	9652	2217	21.4%	23.0%	1334	186
4	NWGF 98%	10361	10351	2607	25.2%	25.2%	1674	162

Southern California Only							Scenario I-16 (I2, I6, I8, I13)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	3290	2228	520	15.8%	23.3%	327	33
2	NWGF 92%	3290	2410	522	15.9%	21.7%	332	31
3	NWGF 95%	3290	3065	742	22.6%	24.2%	499	12
4	NWGF 98%	3290	3287	852	25.9%	25.9%	551	13

California Senior Only							Scenario I-16 (I2, I6, I8, I13)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	1458	1004	190	13.0%	18.9%	109	22
2	NWGF 92%	1458	1072	191	13.1%	17.8%	109	24
3	NWGF 95%	1458	1347	285	19.5%	21.2%	192	23
4	NWGF 98%	1458	1456	337	23.1%	23.1%	235	23

California Low Income							Scenario I-16 (I2, I6, I8, I13)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	501	356	89	17.8%	25.0%	47	4
2	NWGF 92%	501	380	89	17.8%	23.4%	47	4
3	NWGF 95%	501	468	126	25.1%	26.9%	70	5
4	NWGF 98%	501	501	138	27.5%	27.5%	84	5

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
314	120	111
317	123	107
490	136	71
574	138	59

Residential - Replacement California Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	8264	5610	929	11.2%
2	NWGF 92%	8264	6038	934	11.3%
3	NWGF 95%	8264	7649	1526	18.5%
4	NWGF 98%	8264	8256	1829	22.1%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
134	11	15
133	11	15
200	21	10
251	28	9

Residential - Replacement Southern California Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	2640	1803	365	13.8%
2	NWGF 92%	2640	1938	366	13.9%
3	NWGF 95%	2640	2444	527	20.0%
4	NWGF 98%	2640	2637	619	23.4%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
32	8	19
33	8	17
46	10	14
54	11	14

Southern California Senior Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	416	293	52	12.5%
2	NWGF 92%	416	308	52	12.5%
3	NWGF 95%	416	383	73	17.5%
4	NWGF 98%	416	416	90	21.6%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
27	6	5
27	6	5
37	10	4
39	6	4

Southern California Low Income					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	119	94	35	29.4%
2	NWGF 92%	119	99	35	29.4%
3	NWGF 95%	119	113	45	37.8%
4	NWGF 98%	119	119	50	42.0%

Scenario I-16 (I2, I6, I8, I13)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected Switching	-->	-->	-->	-->	-->
	HP	HP+EWH	EF	EF+EWH	EWH
16.6%	495	54	251	70	59
15.5%	499	54	254	70	57
20.0%	938	67	399	77	45
22.2%	1155	65	482	86	41

Residential - New California Only	
Level	Description
NWGF	
1	NWGF 90%
2	NWGF 92%
3	NWGF 95%
4	NWGF 98%

Scenario I-16 (I2, I6, I8, I13)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected Switching	-->	-->	-->	-->	-->
	HP	HP+EWH	EF	EF+EWH	EWH
20.2%	226	6	108	11	14
18.9%	228	6	107	11	14
21.6%	315	11	173	18	10
23.5%	360	12	214	24	9

Residential - New Southern California C	
Level	Description
NWGF	
1	NWGF 90%
2	NWGF 92%
3	NWGF 95%
4	NWGF 98%

Scenario I-16 (I2, I6, I8, I13)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected Switching	-->	-->	-->	-->	-->
	HP	HP+EWH	EF	EF+EWH	EWH
17.7%	30	0	15	2	5
16.9%	30	0	15	2	5
19.1%	41	1	23	4	4
21.6%	51	1	28	6	4

Scenario I-16 (I2, I6, I8, I13)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected Switching	-->	-->	-->	-->	-->
	HP	HP+EWH	EF	EF+EWH	EWH
37.2%	7	0	23	2	3
35.4%	7	0	23	2	3
39.8%	9	0	30	4	2
42.0%	10	0	34	4	2

Scenario I-16 (I2, I6, I8, I13)								
					type of switching			
Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Swtiching	NWGF	NWGF+GWH	NWGF	NWGF+GWH
					--> HP	--> HP+EWH	--> EF	--> EF+EWH
1919	1300	426	22.2%	32.8%	141	132	51	50
1919	1420	430	22.4%	30.3%	145	131	51	53
1919	1844	632	32.9%	34.3%	358	119	70	59
1919	1917	711	37.1%	37.1%	475	97	69	52

Scenario I-16 (I2, I6, I8, I13)								
nly					type of switching			
Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Swtiching	NWGF	NWGF+GWH	NWGF	NWGF+GWH
					--> HP	--> HP+EWH	--> EF	--> EF+EWH
600	395	137	22.8%	34.7%	86	27	23	0
600	440	138	23.0%	31.4%	89	25	23	0
600	578	197	32.8%	34.1%	168	1	25	3
600	600	215	35.8%	35.8%	175	1	35	4

GWH
-->
EWH
52
50
26
18

Commercial - Replacement California Only							Scenario I-16 (I2, I6, I8, I13)
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	NWGF --> HP
NWGF							
1	NWGF 90%	152	93	34	22.4%	36.6%	22
2	NWGF 92%	152	102	34	22.4%	33.3%	22
3	NWGF 95%	152	135	48	31.6%	35.6%	29
4	NWGF 98%	152	152	49	32.2%	32.2%	30

GWH
-->
EWH
1
1
0
0

Commercial - Replacement Southern California Only							Scenario I-16 (I2, I6, I8, I13)
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	NWGF --> HP
NWGF							
1	NWGF 90%	46	28	16	34.8%	57.1%	13
2	NWGF 92%	46	30	16	34.8%	53.3%	13
3	NWGF 95%	46	39	16	34.8%	41.0%	14
4	NWGF 98%	46	46	16	34.8%	34.8%	14

type of switching			
NWGF+GWH	NWGF	NWGF+GWH	GWH
-->	-->	-->	-->
HP+EWH	EF	EF+EWH	EWH
0	12	0	0
0	12	0	0
0	19	0	0
0	19	0	0

Commercial - New California Only				
Level	Description	Number of Buildings	Number Affected	Number Switching
NWGF				
1	NWGF 90%	26	18	5
2	NWGF 92%	26	20	5
3	NWGF 95%	26	24	11
4	NWGF 98%	26	26	18

type of switching			
NWGF+GWH	NWGF	NWGF+GWH	GWH
-->	-->	-->	-->
HP+EWH	EF	EF+EWH	EWH
0	3	0	0
0	3	0	0
0	2	0	0
0	2	0	0

Commercial - New Southern California Only				
Level	Description	Number of Buildings	Number Affected	Number Switching
NWGF				
1	NWGF 90%	4	2	2
2	NWGF 92%	4	2	2
3	NWGF 95%	4	4	2
4	NWGF 98%	4	4	2

Scenario I-16 (I2, I6, I8, I13)						
% of Total Switching	% of Affected Switching	type of switching				
		NWGF --> HP	NWGF+GWH --> HP+EWH	NWGF --> EF	NWGF+GWH --> EF+EWH	GWH --> EWH
19.2%	27.8%	5	0	0	0	0
19.2%	25.0%	5	0	0	0	0
42.3%	45.8%	9	0	2	0	0
69.2%	69.2%	14	0	4	0	0

Scenario I-16 (I2, I6, I8, I13)						
% of Total Switching	% of Affected Switching	type of switching				
		NWGF --> HP	NWGF+GWH --> HP+EWH	NWGF --> EF	NWGF+GWH --> EF+EWH	GWH --> EWH
50.0%	100.0%	2	0	0	0	0
50.0%	100.0%	2	0	0	0	0
50.0%	50.0%	2	0	0	0	0
50.0%	50.0%	2	0	0	0	0

California Only							Scenario Int-5 (Scenarios 24 & I-16)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	10361	6949	1754	16.9%	25.2%	732	213
2	NWGF 92%	10361	7339	1771	17.1%	24.1%	750	208
3	NWGF 95%	10361	9421	2690	26.0%	28.6%	1524	175
4	NWGF 98%	10361	9984	3194	30.8%	32.0%	1943	137

Southern California Only							Scenario Int-5 (Scenarios 24 & I-16)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	3290	2499	701	21.3%	28.1%	380	51
2	NWGF 92%	3290	2589	710	21.6%	27.4%	390	48
3	NWGF 95%	3290	3001	970	29.5%	32.3%	596	8
4	NWGF 98%	3290	3127	1142	34.7%	36.5%	691	12

California Senior Only							Scenario Int-5 (Scenarios 24 & I-16)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	1458	842	231	15.8%	27.4%	123	12
2	NWGF 92%	1458	917	232	15.9%	25.3%	126	10
3	NWGF 95%	1458	1327	329	22.6%	24.8%	209	7
4	NWGF 98%	1458	1405	402	27.6%	28.6%	268	6

California Low Income							Scenario Int-5 (Scenarios 24 & I-16)	
							typ	
							NWGF	NWGF+GWH
							-->	-->
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	HP	HP+EWH
NWGF								
1	NWGF 90%	501	372	160	31.9%	43.0%	55	11
2	NWGF 92%	501	394	160	31.9%	40.6%	56	11
3	NWGF 95%	501	476	199	39.7%	41.8%	90	14
4	NWGF 98%	501	488	224	44.7%	45.9%	112	11

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
543	185	81
550	185	78
784	156	51
929	145	40

Residential - Replacement California Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	8264	5672	1248	15.1%
2	NWGF 92%	8264	6053	1263	15.3%
3	NWGF 95%	8264	7711	1967	23.8%
4	NWGF 98%	8264	8067	2337	28.3%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
226	24	20
228	24	20
322	29	15
388	36	15

Residential - Replacement Southern California Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	2640	2081	512	19.4%
2	NWGF 92%	2640	2167	519	19.7%
3	NWGF 95%	2640	2498	723	27.4%
4	NWGF 98%	2640	2561	864	32.7%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
69	15	12
69	15	12
93	11	9
107	12	9

Southern California Senior Only					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	416	287	71	17.1%
2	NWGF 92%	416	306	71	17.1%
3	NWGF 95%	416	388	86	20.7%
4	NWGF 98%	416	402	112	26.9%

e of switching		
NWGF	NWGF+GWH	GWH
-->	-->	-->
EF	EF+EWH	EWH
60	23	11
59	23	11
68	20	7
79	15	7

Southern California Low Income					
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching
NWGF					
1	NWGF 90%	119	100	56	47.1%
2	NWGF 92%	119	102	56	47.1%
3	NWGF 95%	119	115	64	53.8%
4	NWGF 98%	119	118	73	61.3%

Scenario Int-5 (Scenarios 24 & I-16)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected	-->	-->	-->	-->	-->
Switching	HP	HP+EWH	EF	EF+EWH	EWH
22.0%	577	52	474	83	62
20.9%	590	49	482	83	59
25.5%	1113	43	691	78	42
29.0%	1363	36	817	84	37

Residential - New California Only	
Level	Description
NWGF	
1	NWGF 90%
2	NWGF 92%
3	NWGF 95%
4	NWGF 98%

Scenario Int-5 (Scenarios 24 & I-16)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected	-->	-->	-->	-->	-->
Switching	HP	HP+EWH	EF	EF+EWH	EWH
24.6%	267	11	190	24	20
24.0%	272	10	193	24	20
28.9%	388	8	288	24	15
33.7%	461	11	348	29	15

Residential - New Southern California C	
Level	Description
NWGF	
1	NWGF 90%
2	NWGF 92%
3	NWGF 95%
4	NWGF 98%

Scenario Int-5 (Scenarios 24 & I-16)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected	-->	-->	-->	-->	-->
Switching	HP	HP+EWH	EF	EF+EWH	EWH
24.7%	27	1	28	8	7
23.2%	27	1	28	8	7
22.2%	37	0	38	6	5
27.9%	50	0	49	8	5

Scenario Int-5 (Scenarios 24 & I-16)					
	type of switching				
	NWGF	NWGF+GWH	NWGF	NWGF+GWH	GWH
% of Affected	-->	-->	-->	-->	-->
Switching	HP	HP+EWH	EF	EF+EWH	EWH
56.0%	9	0	36	7	4
54.9%	9	0	36	7	4
55.7%	11	0	45	5	3
61.9%	13	0	52	5	3

Scenario Int-5 (Scenarios 24 & I-16)								
					type of switching			
Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Swtiching	NWGF	NWGF+GWH	NWGF	NWGF+GWH
					--> HP	--> HP+EWH	--> EF	--> EF+EWH
1919	1164	454	23.7%	39.0%	124	161	48	102
1919	1169	456	23.8%	39.0%	128	159	48	102
1919	1574	644	33.6%	40.9%	362	132	63	78
1919	1757	775	40.4%	44.1%	530	101	80	61

Scenario Int-5 (Scenarios 24 & I-16)								
nly					type of switching			
Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Swtiching	NWGF	NWGF+GWH	NWGF	NWGF+GWH
					--> HP	--> HP+EWH	--> EF	--> EF+EWH
600	387	166	27.7%	42.9%	93	40	33	0
600	390	168	28.0%	43.1%	97	38	33	0
600	466	221	36.8%	47.4%	184	0	32	5
600	521	252	42.0%	48.4%	206	1	38	7

GWH
-->
EWH
19
19
9
3

Commercial - Replacement California Only							Scenario Int-5 (Scenarios 2)
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	NWGF --> HP
NWGF							
1	NWGF 90%	152	108	50	32.9%	46.3%	29
2	NWGF 92%	152	111	50	32.9%	45.0%	30
3	NWGF 95%	152	126	72	47.4%	57.1%	44
4	NWGF 98%	152	149	75	49.3%	50.3%	46

GWH
-->
EWH
0
0
0
0

Commercial - Replacement Southern California Only							Scenario Int-5 (Scenarios 2)
Level	Description	Number of Buildings	Number Affected	Number Switching	% of Total Switching	% of Affected Switching	NWGF --> HP
NWGF							
1	NWGF 90%	46	31	23	50.0%	74.2%	20
2	NWGF 92%	46	32	23	50.0%	71.9%	21
3	NWGF 95%	46	36	26	56.5%	72.2%	24
4	NWGF 98%	46	45	26	56.5%	57.8%	24

4 & I-16)			
type of switching			
NWGF+GWH	NWGF	NWGF+GWH	GWH
-->	-->	-->	-->
HP+EWH	EF	EF+EWH	EWH
0	21	0	0
0	20	0	0
0	28	0	0
0	29	0	0

Commercial - New California Only				
Level	Description	Number of Buildings	Number Affected	Number Switching
NWGF				
1	NWGF 90%	26	5	2
2	NWGF 92%	26	6	2
3	NWGF 95%	26	10	7
4	NWGF 98%	26	11	7

4 & I-16)			
type of switching			
NWGF+GWH	NWGF	NWGF+GWH	GWH
-->	-->	-->	-->
HP+EWH	EF	EF+EWH	EWH
0	3	0	0
0	2	0	0
0	2	0	0
0	2	0	0

Commercial - New Southern California Only				
Level	Description	Number of Buildings	Number Affected	Number Switching
NWGF				
1	NWGF 90%	4	0	0
2	NWGF 92%	4	0	0
3	NWGF 95%	4	1	0
4	NWGF 98%	4	0	0

Scenario Int-5 (Scenarios 24 & I-16)						
% of Total Switching	% of Affected Switching	type of switching				
		NWGF --> HP	NWGF+GWH --> HP+EWH	NWGF --> EF	NWGF+GWH --> EF+EWH	GWH --> EWH
7.7%	40.0%	2	0	0	0	0
7.7%	33.3%	2	0	0	0	0
26.9%	70.0%	5	0	2	0	0
26.9%	63.6%	4	0	3	0	0

Scenario Int-5 (Scenarios 24 & I-16)						
% of Total Switching	% of Affected Switching	type of switching				
		NWGF --> HP	NWGF+GWH --> HP+EWH	NWGF --> EF	NWGF+GWH --> EF+EWH	GWH --> EWH
0.0%	#DIV/0!	0	0	0	0	0
0.0%	#DIV/0!	0	0	0	0	0
0.0%	0.0%	0	0	0	0	0
0.0%	#DIV/0!	0	0	0	0	0