

Assistance in Updating the Energy Efficiency Savings Goals for 2012 and Beyond

Task A4.1 Final Report: Scenario Analysis to Support Updates to the CPUC Savings Goals

Volume 2 – Appendices

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Appendix A

Baseline Data

CPUC Goals Update Study – Appendix A

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
PG&E	Residential	Single Family	Water Heating	Existing	3,292	10%
PG&E	Residential	Single Family	Clothes Dryer	Existing	731	53%
PG&E	Residential	Single Family	Other	Existing	2,056	100%
PG&E	Residential	Single Family	Cooking	Existing	561	56%
PG&E	Residential	Single Family	Refrigerator	Existing	966	125%
PG&E	Residential	Single Family	Freezer	Existing	992	31%
PG&E	Residential	Single Family	Swimming Pool Pump	Existing	2,742	12%
PG&E	Residential	Single Family	Space Heat	Existing	3,301	7%
PG&E	Residential	Single Family	Furnace Fan	Existing	216	68%
PG&E	Residential	Single Family	Space Cooling	Existing	978	65%
PG&E	Residential	Single Family	Lighting	Existing	1,800	100%
PG&E	Residential	Multi Family	Water Heating	Existing	1,718	9%
PG&E	Residential	Multi Family	Clothes Dryer	Existing	530	28%
PG&E	Residential	Multi Family	Other	Existing	1,320	100%
PG&E	Residential	Multi Family	Cooking	Existing	403	69%
PG&E	Residential	Multi Family	Refrigerator	Existing	761	106%
PG&E	Residential	Multi Family	Freezer	Existing	916	7%
PG&E	Residential	Multi Family	Swimming Pool Pump	Existing	-	0%
PG&E	Residential	Multi Family	Space Heat	Existing	971	24%
PG&E	Residential	Multi Family	Furnace Fan	Existing	89	36%
PG&E	Residential	Multi Family	Space Cooling	Existing	493	44%
PG&E	Residential	Multi Family	Lighting	Existing	1,100	100%
PG&E	Commercial	College	Cooling	Existing	1.92	72.7%
PG&E	Commercial	College	Heating	Existing	0.58	83.1%
PG&E	Commercial	College	Vent	Existing	3.13	92.4%
PG&E	Commercial	College	WaterHeat	Existing	0.50	31.4%
PG&E	Commercial	College	Com Cooking	Existing	0.42	80.2%
PG&E	Commercial	College	Refrig	Existing	0.67	75.3%
PG&E	Commercial	College	IntLight	Existing	3.79	100.0%
PG&E	Commercial	College	OfficeEquip	Existing	0.49	100.0%
PG&E	Commercial	College	ExtLight	Existing	0.83	93.6%
PG&E	Commercial	College	Misc	Existing	1.12	100.0%
PG&E	Commercial	Food Store	Cooling	Existing	3.14	69.5%
PG&E	Commercial	Food Store	Heating	Existing	0.21	12.1%
PG&E	Commercial	Food Store	Vent	Existing	3.12	77.2%
PG&E	Commercial	Food Store	WaterHeat	Existing	0.93	14.8%
PG&E	Commercial	Food Store	Com Cooking	Existing	2.67	82.7%
PG&E	Commercial	Food Store	Refrig	Existing	23.00	100.0%
PG&E	Commercial	Food Store	IntLight	Existing	8.10	100.0%
PG&E	Commercial	Food Store	OfficeEquip	Existing	0.37	99.1%
PG&E	Commercial	Food Store	ExtLight	Existing	0.88	98.1%
PG&E	Commercial	Food Store	Misc	Existing	1.25	100.0%
PG&E	Commercial	Health	Cooling	Existing	3.59	87.4%
PG&E	Commercial	Health	Heating	Existing	0.94	79.3%
PG&E	Commercial	Health	Vent	Existing	4.23	97.0%
PG&E	Commercial	Health	WaterHeat	Existing	0.21	26.9%
PG&E	Commercial	Health	Com Cooking	Existing	0.54	100.0%
PG&E	Commercial	Health	Refrig	Existing	0.70	100.0%
PG&E	Commercial	Health	IntLight	Existing	4.55	100.0%
PG&E	Commercial	Health	OfficeEquip	Existing	0.78	100.0%
PG&E	Commercial	Health	ExtLight	Existing	0.51	96.7%
PG&E	Commercial	Health	Misc	Existing	3.42	100.0%
PG&E	Commercial	Large Office	Cooling	Existing	3.37	92.2%
PG&E	Commercial	Large Office	Heating	Existing	0.67	77.2%
PG&E	Commercial	Large Office	Vent	Existing	3.12	95.5%
PG&E	Commercial	Large Office	WaterHeat	Existing	0.21	52.9%
PG&E	Commercial	Large Office	Com Cooking	Existing	0.13	98.7%
PG&E	Commercial	Large Office	Refrig	Existing	0.35	98.0%
PG&E	Commercial	Large Office	IntLight	Existing	4.24	100.0%
PG&E	Commercial	Large Office	OfficeEquip	Existing	3.72	100.0%
PG&E	Commercial	Large Office	ExtLight	Existing	0.35	92.7%
PG&E	Commercial	Large Office	Misc	Existing	1.31	100.0%
PG&E	Commercial	Lodging	Cooling	Existing	1.88	80.8%

CPUC Goals Update Study – Appendix A

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
PG&E	Commercial	Lodging	Heating	Existing	0.52	89.9%
PG&E	Commercial	Lodging	Vent	Existing	1.61	94.1%
PG&E	Commercial	Lodging	WaterHeat	Existing	1.01	4.6%
PG&E	Commercial	Lodging	Com Cooking	Existing	0.65	92.8%
PG&E	Commercial	Lodging	Refrig	Existing	0.76	100.0%
PG&E	Commercial	Lodging	IntLight	Existing	2.87	100.0%
PG&E	Commercial	Lodging	OfficeEquip	Existing	0.13	93.4%
PG&E	Commercial	Lodging	ExtLight	Existing	0.63	88.2%
PG&E	Commercial	Lodging	Misc	Existing	1.32	100.0%
PG&E	Commercial	Miscellaneous	Cooling	Existing	1.38	57.7%
PG&E	Commercial	Miscellaneous	Heating	Existing	0.50	21.2%
PG&E	Commercial	Miscellaneous	Vent	Existing	1.34	69.5%
PG&E	Commercial	Miscellaneous	WaterHeat	Existing	0.32	35.3%
PG&E	Commercial	Miscellaneous	Com Cooking	Existing	0.39	77.8%
PG&E	Commercial	Miscellaneous	Refrig	Existing	1.01	83.6%
PG&E	Commercial	Miscellaneous	IntLight	Existing	2.75	98.9%
PG&E	Commercial	Miscellaneous	OfficeEquip	Existing	0.42	92.0%
PG&E	Commercial	Miscellaneous	ExtLight	Existing	1.03	93.9%
PG&E	Commercial	Miscellaneous	Misc	Existing	1.97	100.0%
PG&E	Commercial	Refrigerated Warehouse	Cooling	Existing	2.38	9.7%
PG&E	Commercial	Refrigerated Warehouse	Heating	Existing	0.56	4.0%
PG&E	Commercial	Refrigerated Warehouse	Vent	Existing	2.35	10.4%
PG&E	Commercial	Refrigerated Warehouse	WaterHeat	Existing	0.04	63.8%
PG&E	Commercial	Refrigerated Warehouse	Com Cooking	Existing	0.04	80.5%
PG&E	Commercial	Refrigerated Warehouse	Refrig	Existing	12.48	100.0%
PG&E	Commercial	Refrigerated Warehouse	IntLight	Existing	2.49	100.0%
PG&E	Commercial	Refrigerated Warehouse	OfficeEquip	Existing	0.18	98.6%
PG&E	Commercial	Refrigerated Warehouse	ExtLight	Existing	0.36	100.0%
PG&E	Commercial	Refrigerated Warehouse	Misc	Existing	2.43	100.0%
PG&E	Commercial	Restaurant	Cooling	Existing	5.72	61.7%
PG&E	Commercial	Restaurant	Heating	Existing	0.18	8.7%
PG&E	Commercial	Restaurant	Vent	Existing	2.74	75.2%
PG&E	Commercial	Restaurant	WaterHeat	Existing	2.14	14.0%
PG&E	Commercial	Restaurant	Com Cooking	Existing	9.42	100.0%
PG&E	Commercial	Restaurant	Refrig	Existing	9.10	100.0%
PG&E	Commercial	Restaurant	IntLight	Existing	5.71	100.0%
PG&E	Commercial	Restaurant	OfficeEquip	Existing	0.54	98.1%
PG&E	Commercial	Restaurant	ExtLight	Existing	1.65	87.8%
PG&E	Commercial	Restaurant	Misc	Existing	1.00	100.0%
PG&E	Commercial	Retail	Cooling	Existing	2.03	77.7%
PG&E	Commercial	Retail	Heating	Existing	0.70	15.8%
PG&E	Commercial	Retail	Vent	Existing	1.93	84.3%
PG&E	Commercial	Retail	WaterHeat	Existing	0.22	52.5%
PG&E	Commercial	Retail	Com Cooking	Existing	0.25	81.7%
PG&E	Commercial	Retail	Refrig	Existing	1.15	84.3%
PG&E	Commercial	Retail	IntLight	Existing	5.33	100.0%
PG&E	Commercial	Retail	OfficeEquip	Existing	0.49	100.0%
PG&E	Commercial	Retail	ExtLight	Existing	0.75	82.7%
PG&E	Commercial	Retail	Misc	Existing	1.15	100.0%
PG&E	Commercial	School	Cooling	Existing	1.15	72.8%
PG&E	Commercial	School	Heating	Existing	0.17	66.1%
PG&E	Commercial	School	Vent	Existing	0.94	97.9%
PG&E	Commercial	School	WaterHeat	Existing	0.16	35.5%
PG&E	Commercial	School	Com Cooking	Existing	0.22	99.6%
PG&E	Commercial	School	Refrig	Existing	0.49	99.6%
PG&E	Commercial	School	IntLight	Existing	2.73	100.0%
PG&E	Commercial	School	OfficeEquip	Existing	0.36	100.0%
PG&E	Commercial	School	ExtLight	Existing	0.77	95.8%
PG&E	Commercial	School	Misc	Existing	0.37	100.0%
PG&E	Commercial	Small Office	Cooling	Existing	2.87	86.1%
PG&E	Commercial	Small Office	Heating	Existing	0.75	32.1%
PG&E	Commercial	Small Office	Vent	Existing	1.61	88.7%
PG&E	Commercial	Small Office	WaterHeat	Existing	0.31	65.3%

CPUC Goals Update Study – Appendix A

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
PG&E	Commercial	Small Office	Com Cooking	Existing	0.06	95.8%
PG&E	Commercial	Small Office	Refrig	Existing	0.53	94.0%
PG&E	Commercial	Small Office	IntLight	Existing	3.80	100.0%
PG&E	Commercial	Small Office	OfficeEquip	Existing	2.91	98.4%
PG&E	Commercial	Small Office	ExtLight	Existing	0.88	82.3%
PG&E	Commercial	Small Office	Misc	Existing	1.21	100.0%
PG&E	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0.76	33.7%
PG&E	Commercial	Unrefrigerated Warehouse	Heating	Existing	0.31	8.6%
PG&E	Commercial	Unrefrigerated Warehouse	Vent	Existing	0.38	47.4%
PG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	0.07	60.1%
PG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0.02	91.0%
PG&E	Commercial	Unrefrigerated Warehouse	Refrig	Existing	0.32	88.9%
PG&E	Commercial	Unrefrigerated Warehouse	IntLight	Existing	2.50	100.0%
PG&E	Commercial	Unrefrigerated Warehouse	OfficeEquip	Existing	0.25	97.1%
PG&E	Commercial	Unrefrigerated Warehouse	ExtLight	Existing	0.45	88.3%
PG&E	Commercial	Unrefrigerated Warehouse	Misc	Existing	0.93	100.0%
PG&E	Industrial	Industrial	Proc Heat	Existing	1384448642	100%
PG&E	Industrial	Industrial	Proc Cool	Existing	1575382628	100%
PG&E	Industrial	Industrial	Pumps	Existing	2380315645	100%
PG&E	Industrial	Industrial	Fans	Existing	1145868139	100%
PG&E	Industrial	Industrial	Comp Air	Existing	1320273745	100%
PG&E	Industrial	Industrial	Proc Drives	Existing	2745969032	100%
PG&E	Industrial	Industrial	Ind Lighting	Existing	1317926166	100%
PG&E	Industrial	Industrial	Refrigeration	Existing	1326484229	100%
PG&E	Industrial	Industrial	Ind Other	Existing	974637613	100%
PG&E	Industrial	Ag		Existing	6010000000	100%
PG&E	Industrial	Construction		Existing	0	100%
PG&E	Industrial	Mining		Existing	2007000000	100%
PG&E	Industrial	TCU		Existing	5269000000	100%
SCE	Residential	Single Family	Water Heating	Existing	3,386	3%
SCE	Residential	Single Family	Clothes Dryer	Existing	800	19%
SCE	Residential	Single Family	Other	Existing	2,145	100%
SCE	Residential	Single Family	Cooking	Existing	958	24%
SCE	Residential	Single Family	Refrigerator	Existing	975	124%
SCE	Residential	Single Family	Freezer	Existing	1,040	20%
SCE	Residential	Single Family	Swimming Pool Pump	Existing	2,941	14%
SCE	Residential	Single Family	Space Heat	Existing	3,568	3%
SCE	Residential	Single Family	Furnace Fan	Existing	140	67%
SCE	Residential	Single Family	Space Cooling	Existing	1,295	79%
SCE	Residential	Single Family	Lighting	Existing	1,800	100%
SCE	Residential	Multi Family	Water Heating	Existing	3,247	3%
SCE	Residential	Multi Family	Clothes Dryer	Existing	463	27%
SCE	Residential	Multi Family	Other	Existing	1,452	100%
SCE	Residential	Multi Family	Cooking	Existing	1,765	7%
SCE	Residential	Multi Family	Refrigerator	Existing	929	111%
SCE	Residential	Multi Family	Freezer	Existing	1,133	27%
SCE	Residential	Multi Family	Swimming Pool Pump	Existing	-	0%
SCE	Residential	Multi Family	Space Heat	Existing	5,858	2%
SCE	Residential	Multi Family	Furnace Fan	Existing	126	71%
SCE	Residential	Multi Family	Space Cooling	Existing	877	106%
SCE	Residential	Multi Family	Lighting	Existing	1,200	100%
SCE	Commercial	College	Cooling	Existing	2.37	89.9%
SCE	Commercial	College	Heating	Existing	1.43	82.8%
SCE	Commercial	College	Vent	Existing	2.16	92.2%
SCE	Commercial	College	WaterHeat	Existing	0.31	45.8%
SCE	Commercial	College	Com Cooking	Existing	0.21	75.9%
SCE	Commercial	College	Refrig	Existing	0.31	99.4%
SCE	Commercial	College	IntLight	Existing	4.51	100.0%
SCE	Commercial	College	OfficeEquip	Existing	1.13	100.0%
SCE	Commercial	College	ExtLight	Existing	0.70	96.7%
SCE	Commercial	College	Misc	Existing	1.40	100.0%
SCE	Commercial	Food Store	Cooling	Existing	6.02	59.5%
SCE	Commercial	Food Store	Heating	Existing	0.91	17.0%

CPUC Goals Update Study – Appendix A

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
SCE	Commercial	Food Store	Vent	Existing	4.50	61.7%
SCE	Commercial	Food Store	WaterHeat	Existing	0.38	39.5%
SCE	Commercial	Food Store	Com Cooking	Existing	2.01	84.1%
SCE	Commercial	Food Store	Refrig	Existing	21.74	100.0%
SCE	Commercial	Food Store	IntLight	Existing	9.00	100.0%
SCE	Commercial	Food Store	OfficeEquip	Existing	0.38	97.8%
SCE	Commercial	Food Store	ExtLight	Existing	1.21	85.4%
SCE	Commercial	Food Store	Misc	Existing	1.21	100.0%
SCE	Commercial	Health	Cooling	Existing	4.65	91.7%
SCE	Commercial	Health	Heating	Existing	1.11	68.3%
SCE	Commercial	Health	Vent	Existing	4.41	95.2%
SCE	Commercial	Health	WaterHeat	Existing	0.47	18.8%
SCE	Commercial	Health	Com Cooking	Existing	0.42	97.9%
SCE	Commercial	Health	Refrig	Existing	0.74	99.5%
SCE	Commercial	Health	IntLight	Existing	4.91	100.0%
SCE	Commercial	Health	OfficeEquip	Existing	0.91	99.8%
SCE	Commercial	Health	ExtLight	Existing	0.69	97.7%
SCE	Commercial	Health	Misc	Existing	3.37	100.0%
SCE	Commercial	Large Office	Cooling	Existing	4.26	92.8%
SCE	Commercial	Large Office	Heating	Existing	0.33	78.1%
SCE	Commercial	Large Office	Vent	Existing	3.21	93.9%
SCE	Commercial	Large Office	WaterHeat	Existing	0.24	47.0%
SCE	Commercial	Large Office	Com Cooking	Existing	0.10	97.5%
SCE	Commercial	Large Office	Refrig	Existing	0.39	98.5%
SCE	Commercial	Large Office	IntLight	Existing	4.70	100.0%
SCE	Commercial	Large Office	OfficeEquip	Existing	3.37	100.0%
SCE	Commercial	Large Office	ExtLight	Existing	0.71	98.7%
SCE	Commercial	Large Office	Misc	Existing	1.32	100.0%
SCE	Commercial	Lodging	Cooling	Existing	3.44	87.6%
SCE	Commercial	Lodging	Heating	Existing	0.42	81.7%
SCE	Commercial	Lodging	Vent	Existing	1.89	92.3%
SCE	Commercial	Lodging	WaterHeat	Existing	-	0.0%
SCE	Commercial	Lodging	Com Cooking	Existing	0.75	94.8%
SCE	Commercial	Lodging	Refrig	Existing	0.98	99.4%
SCE	Commercial	Lodging	IntLight	Existing	3.65	100.0%
SCE	Commercial	Lodging	OfficeEquip	Existing	0.24	99.0%
SCE	Commercial	Lodging	ExtLight	Existing	0.73	94.8%
SCE	Commercial	Lodging	Misc	Existing	1.91	100.0%
SCE	Commercial	Miscellaneous	Cooling	Existing	2.26	61.0%
SCE	Commercial	Miscellaneous	Heating	Existing	0.29	24.1%
SCE	Commercial	Miscellaneous	Vent	Existing	1.09	67.4%
SCE	Commercial	Miscellaneous	WaterHeat	Existing	0.35	40.8%
SCE	Commercial	Miscellaneous	Com Cooking	Existing	0.27	94.2%
SCE	Commercial	Miscellaneous	Refrig	Existing	0.94	94.9%
SCE	Commercial	Miscellaneous	IntLight	Existing	2.42	100.0%
SCE	Commercial	Miscellaneous	OfficeEquip	Existing	0.30	95.9%
SCE	Commercial	Miscellaneous	ExtLight	Existing	1.36	76.9%
SCE	Commercial	Miscellaneous	Misc	Existing	2.64	100.0%
SCE	Commercial	Refrigerated Warehouse	Cooling	Existing	2.95	17.0%
SCE	Commercial	Refrigerated Warehouse	Heating	Existing	0.31	2.8%
SCE	Commercial	Refrigerated Warehouse	Vent	Existing	0.88	17.0%
SCE	Commercial	Refrigerated Warehouse	WaterHeat	Existing	0.03	41.3%
SCE	Commercial	Refrigerated Warehouse	Com Cooking	Existing	0.04	96.6%
SCE	Commercial	Refrigerated Warehouse	Refrig	Existing	15.08	100.0%
SCE	Commercial	Refrigerated Warehouse	IntLight	Existing	3.23	100.0%
SCE	Commercial	Refrigerated Warehouse	OfficeEquip	Existing	0.13	100.0%
SCE	Commercial	Refrigerated Warehouse	ExtLight	Existing	0.33	91.6%
SCE	Commercial	Refrigerated Warehouse	Misc	Existing	2.96	100.0%
SCE	Commercial	Restaurant	Cooling	Existing	10.10	77.6%
SCE	Commercial	Restaurant	Heating	Existing	0.18	16.4%
SCE	Commercial	Restaurant	Vent	Existing	5.24	78.2%
SCE	Commercial	Restaurant	WaterHeat	Existing	2.50	17.8%
SCE	Commercial	Restaurant	Com Cooking	Existing	11.25	100.0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
SCE	Commercial	Restaurant	Refrig	Existing	10.41	100.0%
SCE	Commercial	Restaurant	IntLight	Existing	7.12	100.0%
SCE	Commercial	Restaurant	OfficeEquip	Existing	0.72	99.5%
SCE	Commercial	Restaurant	ExtLight	Existing	3.13	87.5%
SCE	Commercial	Restaurant	Misc	Existing	1.54	100.0%
SCE	Commercial	Retail	Cooling	Existing	3.97	70.2%
SCE	Commercial	Retail	Heating	Existing	0.15	25.0%
SCE	Commercial	Retail	Vent	Existing	2.69	71.9%
SCE	Commercial	Retail	WaterHeat	Existing	0.23	55.6%
SCE	Commercial	Retail	Com Cooking	Existing	0.24	93.6%
SCE	Commercial	Retail	Refrig	Existing	1.06	94.3%
SCE	Commercial	Retail	IntLight	Existing	6.59	100.0%
SCE	Commercial	Retail	OfficeEquip	Existing	0.48	100.0%
SCE	Commercial	Retail	ExtLight	Existing	1.34	79.9%
SCE	Commercial	Retail	Misc	Existing	1.11	100.0%
SCE	Commercial	School	Cooling	Existing	1.97	80.1%
SCE	Commercial	School	Heating	Existing	0.18	49.3%
SCE	Commercial	School	Vent	Existing	1.09	93.3%
SCE	Commercial	School	WaterHeat	Existing	0.30	47.3%
SCE	Commercial	School	Com Cooking	Existing	0.17	94.9%
SCE	Commercial	School	Refrig	Existing	0.54	98.8%
SCE	Commercial	School	IntLight	Existing	3.08	100.0%
SCE	Commercial	School	OfficeEquip	Existing	0.49	100.0%
SCE	Commercial	School	ExtLight	Existing	0.75	98.4%
SCE	Commercial	School	Misc	Existing	0.38	100.0%
SCE	Commercial	Small Office	Cooling	Existing	3.12	93.3%
SCE	Commercial	Small Office	Heating	Existing	0.23	44.5%
SCE	Commercial	Small Office	Vent	Existing	1.31	93.9%
SCE	Commercial	Small Office	WaterHeat	Existing	0.46	51.4%
SCE	Commercial	Small Office	Com Cooking	Existing	0.13	92.3%
SCE	Commercial	Small Office	Refrig	Existing	0.60	95.5%
SCE	Commercial	Small Office	IntLight	Existing	3.87	100.0%
SCE	Commercial	Small Office	OfficeEquip	Existing	1.63	99.9%
SCE	Commercial	Small Office	ExtLight	Existing	1.69	72.7%
SCE	Commercial	Small Office	Misc	Existing	1.35	100.0%
SCE	Commercial	Unrefrigerated Warehouse	Cooling	Existing	1.96	17.5%
SCE	Commercial	Unrefrigerated Warehouse	Heating	Existing	0.34	10.8%
SCE	Commercial	Unrefrigerated Warehouse	Vent	Existing	1.66	19.4%
SCE	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	0.06	75.1%
SCE	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0.02	92.6%
SCE	Commercial	Unrefrigerated Warehouse	Refrig	Existing	0.28	94.5%
SCE	Commercial	Unrefrigerated Warehouse	IntLight	Existing	2.11	100.0%
SCE	Commercial	Unrefrigerated Warehouse	OfficeEquip	Existing	0.23	100.0%
SCE	Commercial	Unrefrigerated Warehouse	ExtLight	Existing	0.22	95.7%
SCE	Commercial	Unrefrigerated Warehouse	Misc	Existing	0.72	100.0%
SCE	Industrial	Industrial	Proc Heat	Existing	1940261627	100%
SCE	Industrial	Industrial	Proc Cool	Existing	1862727019	100%
SCE	Industrial	Industrial	Pumps	Existing	2500968137	100%
SCE	Industrial	Industrial	Fans	Existing	1393274713	100%
SCE	Industrial	Industrial	Comp Air	Existing	1368032281	100%
SCE	Industrial	Industrial	Proc Drives	Existing	3472416077	100%
SCE	Industrial	Industrial	Ind Lighting	Existing	1642840431	100%
SCE	Industrial	Industrial	Refrigeration	Existing	1231552385	100%
SCE	Industrial	Industrial	Ind Other	Existing	1226965060	100%
SCE	Industrial	Ag		Existing	6010000000	100%
SCE	Industrial	Construction		Existing		100%
SCE	Industrial	Mining		Existing	2007000000	100%
SCE	Industrial	TCU		Existing	5269000000	100%
SDG&E	Residential	Single Family	Water Heating	Existing	3,253	5%
SDG&E	Residential	Single Family	Clothes Dryer	Existing	712	27%
SDG&E	Residential	Single Family	Other	Existing	1,969	100%
SDG&E	Residential	Single Family	Cooking	Existing	581	44%
SDG&E	Residential	Single Family	Refrigerator	Existing	927	126%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
SDG&E	Residential	Single Family	Freezer	Existing	903	23%
SDG&E	Residential	Single Family	Swimming Pool Pump	Existing	2,729	18%
SDG&E	Residential	Single Family	Space Heat	Existing	1,811	7%
SDG&E	Residential	Single Family	Furnace Fan	Existing	110	73%
SDG&E	Residential	Single Family	Space Cooling	Existing	680	46%
SDG&E	Residential	Single Family	Lighting	Existing	1,800	100%
SDG&E	Residential	Multi Family	Water Heating	Existing	3,306	22%
SDG&E	Residential	Multi Family	Clothes Dryer	Existing	295	30%
SDG&E	Residential	Multi Family	Other	Existing	852	100%
SDG&E	Residential	Multi Family	Cooking	Existing	296	45%
SDG&E	Residential	Multi Family	Refrigerator	Existing	881	107%
SDG&E	Residential	Multi Family	Freezer	Existing	972	21%
SDG&E	Residential	Multi Family	Swimming Pool Pump	Existing	-	0%
SDG&E	Residential	Multi Family	Space Heat	Existing	1,084	23%
SDG&E	Residential	Multi Family	Furnace Fan	Existing	74	75%
SDG&E	Residential	Multi Family	Space Cooling	Existing	451	52%
SDG&E	Residential	Multi Family	Lighting	Existing	1,200	100%
SDG&E	Commercial	College	Cooling	Existing	2.96	80.9%
SDG&E	Commercial	College	Heating	Existing	0.97	81.9%
SDG&E	Commercial	College	Vent	Existing	0.93	81.9%
SDG&E	Commercial	College	WaterHeat	Existing	0.02	97.7%
SDG&E	Commercial	College	Com Cooking	Existing	0.36	100.0%
SDG&E	Commercial	College	Refrig	Existing	0.59	100.0%
SDG&E	Commercial	College	IntLight	Existing	3.25	100.0%
SDG&E	Commercial	College	OfficeEquip	Existing	0.53	100.0%
SDG&E	Commercial	College	ExtLight	Existing	1.41	99.6%
SDG&E	Commercial	College	Misc	Existing	1.22	100.0%
SDG&E	Commercial	Food Store	Cooling	Existing	3.93	54.8%
SDG&E	Commercial	Food Store	Heating	Existing	0.16	12.2%
SDG&E	Commercial	Food Store	Vent	Existing	3.99	54.8%
SDG&E	Commercial	Food Store	WaterHeat	Existing	0.56	14.0%
SDG&E	Commercial	Food Store	Com Cooking	Existing	1.54	92.3%
SDG&E	Commercial	Food Store	Refrig	Existing	22.80	100.0%
SDG&E	Commercial	Food Store	IntLight	Existing	7.81	100.0%
SDG&E	Commercial	Food Store	OfficeEquip	Existing	0.40	100.0%
SDG&E	Commercial	Food Store	ExtLight	Existing	1.13	88.0%
SDG&E	Commercial	Food Store	Misc	Existing	0.92	100.0%
SDG&E	Commercial	Health	Cooling	Existing	4.54	92.7%
SDG&E	Commercial	Health	Heating	Existing	0.66	69.1%
SDG&E	Commercial	Health	Vent	Existing	3.05	95.0%
SDG&E	Commercial	Health	WaterHeat	Existing	0.47	23.1%
SDG&E	Commercial	Health	Com Cooking	Existing	0.22	100.0%
SDG&E	Commercial	Health	Refrig	Existing	0.61	100.0%
SDG&E	Commercial	Health	IntLight	Existing	4.92	100.0%
SDG&E	Commercial	Health	OfficeEquip	Existing	0.80	100.0%
SDG&E	Commercial	Health	ExtLight	Existing	0.46	99.6%
SDG&E	Commercial	Health	Misc	Existing	4.25	100.0%
SDG&E	Commercial	Large Office	Cooling	Existing	4.76	89.5%
SDG&E	Commercial	Large Office	Heating	Existing	0.69	70.4%
SDG&E	Commercial	Large Office	Vent	Existing	3.56	92.1%
SDG&E	Commercial	Large Office	WaterHeat	Existing	0.27	62.8%
SDG&E	Commercial	Large Office	Com Cooking	Existing	0.15	96.0%
SDG&E	Commercial	Large Office	Refrig	Existing	0.73	97.7%
SDG&E	Commercial	Large Office	IntLight	Existing	4.45	100.0%
SDG&E	Commercial	Large Office	OfficeEquip	Existing	2.96	100.0%
SDG&E	Commercial	Large Office	ExtLight	Existing	0.57	100.0%
SDG&E	Commercial	Large Office	Misc	Existing	2.20	100.0%
SDG&E	Commercial	Lodging	Cooling	Existing	3.73	89.9%
SDG&E	Commercial	Lodging	Heating	Existing	0.47	85.7%
SDG&E	Commercial	Lodging	Vent	Existing	3.21	91.0%
SDG&E	Commercial	Lodging	WaterHeat	Existing	0.05	5.4%
SDG&E	Commercial	Lodging	Com Cooking	Existing	0.92	99.1%
SDG&E	Commercial	Lodging	Refrig	Existing	1.03	100.0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
SDG&E	Commercial	Lodging	IntLight	Existing	5.17	100.0%
SDG&E	Commercial	Lodging	OfficeEquip	Existing	0.11	98.1%
SDG&E	Commercial	Lodging	ExtLight	Existing	0.58	100.0%
SDG&E	Commercial	Lodging	Misc	Existing	1.63	100.0%
SDG&E	Commercial	Miscellaneous	Cooling	Existing	1.84	43.0%
SDG&E	Commercial	Miscellaneous	Heating	Existing	0.30	29.6%
SDG&E	Commercial	Miscellaneous	Vent	Existing	1.19	56.7%
SDG&E	Commercial	Miscellaneous	WaterHeat	Existing	0.39	32.6%
SDG&E	Commercial	Miscellaneous	Com Cooking	Existing	0.13	89.2%
SDG&E	Commercial	Miscellaneous	Refrig	Existing	0.60	98.8%
SDG&E	Commercial	Miscellaneous	IntLight	Existing	2.65	100.0%
SDG&E	Commercial	Miscellaneous	OfficeEquip	Existing	0.37	100.0%
SDG&E	Commercial	Miscellaneous	ExtLight	Existing	1.16	95.9%
SDG&E	Commercial	Miscellaneous	Misc	Existing	3.20	100.0%
SDG&E	Commercial	Refrigerated Warehouse	Cooling	Existing	4.65	14.6%
SDG&E	Commercial	Refrigerated Warehouse	Heating	Existing	1.84	4.7%
SDG&E	Commercial	Refrigerated Warehouse	Vent	Existing	4.58	40.6%
SDG&E	Commercial	Refrigerated Warehouse	WaterHeat	Existing	0.41	39.6%
SDG&E	Commercial	Refrigerated Warehouse	Com Cooking	Existing	0.12	100.0%
SDG&E	Commercial	Refrigerated Warehouse	Refrig	Existing	22.72	100.0%
SDG&E	Commercial	Refrigerated Warehouse	IntLight	Existing	4.18	100.0%
SDG&E	Commercial	Refrigerated Warehouse	OfficeEquip	Existing	0.36	100.0%
SDG&E	Commercial	Refrigerated Warehouse	ExtLight	Existing	0.46	100.0%
SDG&E	Commercial	Refrigerated Warehouse	Misc	Existing	4.68	100.0%
SDG&E	Commercial	Restaurant	Cooling	Existing	9.33	68.9%
SDG&E	Commercial	Restaurant	Heating	Existing	0.53	28.3%
SDG&E	Commercial	Restaurant	Vent	Existing	5.69	74.3%
SDG&E	Commercial	Restaurant	WaterHeat	Existing	1.73	30.0%
SDG&E	Commercial	Restaurant	Com Cooking	Existing	10.59	95.2%
SDG&E	Commercial	Restaurant	Refrig	Existing	10.36	100.0%
SDG&E	Commercial	Restaurant	IntLight	Existing	6.78	100.0%
SDG&E	Commercial	Restaurant	OfficeEquip	Existing	0.78	95.6%
SDG&E	Commercial	Restaurant	ExtLight	Existing	2.24	86.5%
SDG&E	Commercial	Restaurant	Misc	Existing	2.50	100.0%
SDG&E	Commercial	Retail	Cooling	Existing	3.88	62.3%
SDG&E	Commercial	Retail	Heating	Existing	0.34	25.3%
SDG&E	Commercial	Retail	Vent	Existing	2.40	67.6%
SDG&E	Commercial	Retail	WaterHeat	Existing	0.48	53.3%
SDG&E	Commercial	Retail	Com Cooking	Existing	0.29	89.4%
SDG&E	Commercial	Retail	Refrig	Existing	1.52	93.3%
SDG&E	Commercial	Retail	IntLight	Existing	6.72	100.0%
SDG&E	Commercial	Retail	OfficeEquip	Existing	0.58	100.0%
SDG&E	Commercial	Retail	ExtLight	Existing	1.37	89.5%
SDG&E	Commercial	Retail	Misc	Existing	0.91	100.0%
SDG&E	Commercial	School	Cooling	Existing	1.17	84.1%
SDG&E	Commercial	School	Heating	Existing	0.27	80.7%
SDG&E	Commercial	School	Vent	Existing	0.96	88.8%
SDG&E	Commercial	School	WaterHeat	Existing	0.13	80.1%
SDG&E	Commercial	School	Com Cooking	Existing	0.08	100.0%
SDG&E	Commercial	School	Refrig	Existing	0.41	100.0%
SDG&E	Commercial	School	IntLight	Existing	2.66	100.0%
SDG&E	Commercial	School	OfficeEquip	Existing	0.50	100.0%
SDG&E	Commercial	School	ExtLight	Existing	0.69	100.0%
SDG&E	Commercial	School	Misc	Existing	0.19	100.0%
SDG&E	Commercial	Small Office	Cooling	Existing	2.44	92.6%
SDG&E	Commercial	Small Office	Heating	Existing	0.38	80.0%
SDG&E	Commercial	Small Office	Vent	Existing	1.14	93.4%
SDG&E	Commercial	Small Office	WaterHeat	Existing	0.52	70.3%
SDG&E	Commercial	Small Office	Com Cooking	Existing	0.19	92.2%
SDG&E	Commercial	Small Office	Refrig	Existing	0.87	87.2%
SDG&E	Commercial	Small Office	IntLight	Existing	3.94	100.0%
SDG&E	Commercial	Small Office	OfficeEquip	Existing	2.23	100.0%
SDG&E	Commercial	Small Office	ExtLight	Existing	1.46	54.7%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
SDG&E	Commercial	Small Office	Misc	Existing	0.23	100.0%
SDG&E	Commercial	Unrefrigerated Warehouse	Cooling	Existing	2.59	25.0%
SDG&E	Commercial	Unrefrigerated Warehouse	Heating	Existing	0.20	11.7%
SDG&E	Commercial	Unrefrigerated Warehouse	Vent	Existing	1.79	25.0%
SDG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	0.12	74.7%
SDG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0.12	100.0%
SDG&E	Commercial	Unrefrigerated Warehouse	Refrig	Existing	0.35	99.3%
SDG&E	Commercial	Unrefrigerated Warehouse	IntLight	Existing	1.97	100.0%
SDG&E	Commercial	Unrefrigerated Warehouse	OfficeEquip	Existing	0.31	99.3%
SDG&E	Commercial	Unrefrigerated Warehouse	ExtLight	Existing	0.25	97.8%
SDG&E	Commercial	Unrefrigerated Warehouse	Misc	Existing	0.35	100.0%
SDG&E	Industrial	Industrial	Proc Heat	Existing	202499873	100%
SDG&E	Industrial	Industrial	Proc Cool	Existing	330166522	100%
SDG&E	Industrial	Industrial	Pumps	Existing	235849248	100%
SDG&E	Industrial	Industrial	Fans	Existing	116316281	100%
SDG&E	Industrial	Industrial	Comp Air	Existing	186041512	100%
SDG&E	Industrial	Industrial	Proc Drives	Existing	355471451	100%
SDG&E	Industrial	Industrial	Ind Lighting	Existing	251178243	100%
SDG&E	Industrial	Industrial	Refrigeration	Existing	163718479	100%
SDG&E	Industrial	Industrial	Ind Other	Existing	195542710	100%
SDG&E	Industrial	Ag	Ag	Existing	312000000	100%
SDG&E	Industrial	Construction	Construction	Existing	0	100%
SDG&E	Industrial	Mining	Mining	Existing	189000000	100%
SDG&E	Industrial	TCU	TCU	Existing	1857000000	100%
PG&E	Residential	Single Family	Water Heating	New	3,948	7%
PG&E	Residential	Single Family	Clothes Dryer	New	823	58%
PG&E	Residential	Single Family	Other	New	2,468	100%
PG&E	Residential	Single Family	Cooking	New	649	54%
PG&E	Residential	Single Family	Refrigerator	New	921	131%
PG&E	Residential	Single Family	Freezer	New	914	31%
PG&E	Residential	Single Family	Swimming Pool Pump	New	2,730	16%
PG&E	Residential	Single Family	Space Heat	New	4,219	3%
PG&E	Residential	Single Family	Furnace Fan	New	260	95%
PG&E	Residential	Single Family	Space Cooling	New	1,415	87%
PG&E	Residential	Single Family	Lighting	New	1,800	100%
PG&E	Residential	Multi Family	Water Heating	New	4,195	27%
PG&E	Residential	Multi Family	Clothes Dryer	New	745	62%
PG&E	Residential	Multi Family	Other	New	1,895	100%
PG&E	Residential	Multi Family	Cooking	New	644	39%
PG&E	Residential	Multi Family	Refrigerator	New	838	121%
PG&E	Residential	Multi Family	Freezer	New	861	36%
PG&E	Residential	Multi Family	Swimming Pool Pump	New	-	5%
PG&E	Residential	Multi Family	Space Heat	New	2,568	16%
PG&E	Residential	Multi Family	Furnace Fan	New	171	70%
PG&E	Residential	Multi Family	Space Cooling	New	966	125%
PG&E	Residential	Multi Family	Lighting	New	1,200	100%
PG&E	Commercial	College	Cooling	New	1.54	72.7%
PG&E	Commercial	College	Heating	New	0.46	83.1%
PG&E	Commercial	College	Vent	New	2.50	92.4%
PG&E	Commercial	College	WaterHeat	New	0.40	31.4%
PG&E	Commercial	College	Com Cooking	New	0.34	80.2%
PG&E	Commercial	College	Refrig	New	0.54	75.3%
PG&E	Commercial	College	IntLight	New	3.03	100.0%
PG&E	Commercial	College	OfficeEquip	New	0.39	100.0%
PG&E	Commercial	College	ExtLight	New	0.66	93.6%
PG&E	Commercial	College	Misc	New	0.90	100.0%
PG&E	Commercial	Food Store	Cooling	New	2.51	69.5%
PG&E	Commercial	Food Store	Heating	New	0.17	12.1%
PG&E	Commercial	Food Store	Vent	New	2.50	77.2%
PG&E	Commercial	Food Store	WaterHeat	New	0.74	14.8%
PG&E	Commercial	Food Store	Com Cooking	New	2.14	82.7%
PG&E	Commercial	Food Store	Refrig	New	18.40	100.0%
PG&E	Commercial	Food Store	IntLight	New	6.48	100.0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
PG&E	Commercial	Food Store	OfficeEquip	New	0.30	99.1%
PG&E	Commercial	Food Store	ExtLight	New	0.70	98.1%
PG&E	Commercial	Food Store	Misc	New	1.00	100.0%
PG&E	Commercial	Health	Cooling	New	2.87	87.4%
PG&E	Commercial	Health	Heating	New	0.75	79.3%
PG&E	Commercial	Health	Vent	New	3.38	97.0%
PG&E	Commercial	Health	WaterHeat	New	0.17	26.9%
PG&E	Commercial	Health	Com Cooking	New	0.43	100.0%
PG&E	Commercial	Health	Refrig	New	0.56	100.0%
PG&E	Commercial	Health	IntLight	New	3.64	100.0%
PG&E	Commercial	Health	OfficeEquip	New	0.62	100.0%
PG&E	Commercial	Health	ExtLight	New	0.41	96.7%
PG&E	Commercial	Health	Misc	New	2.74	100.0%
PG&E	Commercial	Large Office	Cooling	New	2.70	92.2%
PG&E	Commercial	Large Office	Heating	New	0.54	77.2%
PG&E	Commercial	Large Office	Vent	New	2.50	95.5%
PG&E	Commercial	Large Office	WaterHeat	New	0.17	52.9%
PG&E	Commercial	Large Office	Com Cooking	New	0.10	98.7%
PG&E	Commercial	Large Office	Refrig	New	0.28	98.0%
PG&E	Commercial	Large Office	IntLight	New	3.39	100.0%
PG&E	Commercial	Large Office	OfficeEquip	New	2.98	100.0%
PG&E	Commercial	Large Office	ExtLight	New	0.28	92.7%
PG&E	Commercial	Large Office	Misc	New	1.05	100.0%
PG&E	Commercial	Lodging	Cooling	New	1.50	80.8%
PG&E	Commercial	Lodging	Heating	New	0.42	89.9%
PG&E	Commercial	Lodging	Vent	New	1.29	94.1%
PG&E	Commercial	Lodging	WaterHeat	New	0.81	4.6%
PG&E	Commercial	Lodging	Com Cooking	New	0.52	92.8%
PG&E	Commercial	Lodging	Refrig	New	0.61	100.0%
PG&E	Commercial	Lodging	IntLight	New	2.30	100.0%
PG&E	Commercial	Lodging	OfficeEquip	New	0.10	93.4%
PG&E	Commercial	Lodging	ExtLight	New	0.50	88.2%
PG&E	Commercial	Lodging	Misc	New	1.06	100.0%
PG&E	Commercial	Miscellaneous	Cooling	New	1.10	57.7%
PG&E	Commercial	Miscellaneous	Heating	New	0.40	21.2%
PG&E	Commercial	Miscellaneous	Vent	New	1.07	69.5%
PG&E	Commercial	Miscellaneous	WaterHeat	New	0.26	35.3%
PG&E	Commercial	Miscellaneous	Com Cooking	New	0.31	77.8%
PG&E	Commercial	Miscellaneous	Refrig	New	0.81	83.6%
PG&E	Commercial	Miscellaneous	IntLight	New	2.20	98.9%
PG&E	Commercial	Miscellaneous	OfficeEquip	New	0.34	92.0%
PG&E	Commercial	Miscellaneous	ExtLight	New	0.82	93.9%
PG&E	Commercial	Miscellaneous	Misc	New	1.58	100.0%
PG&E	Commercial	Refrigerated Warehouse	Cooling	New	1.90	9.7%
PG&E	Commercial	Refrigerated Warehouse	Heating	New	0.45	4.0%
PG&E	Commercial	Refrigerated Warehouse	Vent	New	1.88	10.4%
PG&E	Commercial	Refrigerated Warehouse	WaterHeat	New	0.03	63.8%
PG&E	Commercial	Refrigerated Warehouse	Com Cooking	New	0.03	80.5%
PG&E	Commercial	Refrigerated Warehouse	Refrig	New	9.98	100.0%
PG&E	Commercial	Refrigerated Warehouse	IntLight	New	1.99	100.0%
PG&E	Commercial	Refrigerated Warehouse	OfficeEquip	New	0.14	98.6%
PG&E	Commercial	Refrigerated Warehouse	ExtLight	New	0.29	100.0%
PG&E	Commercial	Refrigerated Warehouse	Misc	New	1.94	100.0%
PG&E	Commercial	Restaurant	Cooling	New	4.58	61.7%
PG&E	Commercial	Restaurant	Heating	New	0.14	8.7%
PG&E	Commercial	Restaurant	Vent	New	2.19	75.2%
PG&E	Commercial	Restaurant	WaterHeat	New	1.71	14.0%
PG&E	Commercial	Restaurant	Com Cooking	New	7.54	100.0%
PG&E	Commercial	Restaurant	Refrig	New	7.28	100.0%
PG&E	Commercial	Restaurant	IntLight	New	4.57	100.0%
PG&E	Commercial	Restaurant	OfficeEquip	New	0.43	98.1%
PG&E	Commercial	Restaurant	ExtLight	New	1.32	87.8%
PG&E	Commercial	Restaurant	Misc	New	0.80	100.0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
PG&E	Commercial	Retail	Cooling	New	1.62	77.7%
PG&E	Commercial	Retail	Heating	New	0.56	15.8%
PG&E	Commercial	Retail	Vent	New	1.54	84.3%
PG&E	Commercial	Retail	WaterHeat	New	0.18	52.5%
PG&E	Commercial	Retail	Com Cooking	New	0.20	81.7%
PG&E	Commercial	Retail	Refrig	New	0.92	84.3%
PG&E	Commercial	Retail	IntLight	New	4.26	100.0%
PG&E	Commercial	Retail	OfficeEquip	New	0.39	100.0%
PG&E	Commercial	Retail	ExtLight	New	0.60	82.7%
PG&E	Commercial	Retail	Misc	New	0.92	100.0%
PG&E	Commercial	School	Cooling	New	0.92	72.8%
PG&E	Commercial	School	Heating	New	0.14	66.1%
PG&E	Commercial	School	Vent	New	0.75	97.9%
PG&E	Commercial	School	WaterHeat	New	0.13	35.5%
PG&E	Commercial	School	Com Cooking	New	0.18	99.6%
PG&E	Commercial	School	Refrig	New	0.39	99.6%
PG&E	Commercial	School	IntLight	New	2.18	100.0%
PG&E	Commercial	School	OfficeEquip	New	0.29	100.0%
PG&E	Commercial	School	ExtLight	New	0.62	95.8%
PG&E	Commercial	School	Misc	New	0.30	100.0%
PG&E	Commercial	Small Office	Cooling	New	2.30	86.1%
PG&E	Commercial	Small Office	Heating	New	0.60	32.1%
PG&E	Commercial	Small Office	Vent	New	1.29	88.7%
PG&E	Commercial	Small Office	WaterHeat	New	0.25	65.3%
PG&E	Commercial	Small Office	Com Cooking	New	0.05	95.8%
PG&E	Commercial	Small Office	Refrig	New	0.42	94.0%
PG&E	Commercial	Small Office	IntLight	New	3.04	100.0%
PG&E	Commercial	Small Office	OfficeEquip	New	2.33	98.4%
PG&E	Commercial	Small Office	ExtLight	New	0.70	82.3%
PG&E	Commercial	Small Office	Misc	New	0.97	100.0%
PG&E	Commercial	Unrefrigerated Warehouse	Cooling	New	0.61	33.7%
PG&E	Commercial	Unrefrigerated Warehouse	Heating	New	0.25	8.6%
PG&E	Commercial	Unrefrigerated Warehouse	Vent	New	0.30	47.4%
PG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	New	0.06	60.1%
PG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0.02	91.0%
PG&E	Commercial	Unrefrigerated Warehouse	Refrig	New	0.26	88.9%
PG&E	Commercial	Unrefrigerated Warehouse	IntLight	New	2.00	100.0%
PG&E	Commercial	Unrefrigerated Warehouse	OfficeEquip	New	0.20	97.1%
PG&E	Commercial	Unrefrigerated Warehouse	ExtLight	New	0.36	88.3%
PG&E	Commercial	Unrefrigerated Warehouse	Misc	New	0.74	100.0%
SCE	Residential	Single Family	Water Heating	New	4,046	1%
SCE	Residential	Single Family	Clothes Dryer	New	903	23%
SCE	Residential	Single Family	Other	New	2,534	100%
SCE	Residential	Single Family	Cooking	New	1,105	22%
SCE	Residential	Single Family	Refrigerator	New	929	130%
SCE	Residential	Single Family	Freezer	New	957	21%
SCE	Residential	Single Family	Swimming Pool Pump	New	2,942	19%
SCE	Residential	Single Family	Space Heat	New	5,210	0%
SCE	Residential	Single Family	Furnace Fan	New	169	94%
SCE	Residential	Single Family	Space Cooling	New	1,825	101%
SCE	Residential	Single Family	Lighting	New	1,800	100%
SCE	Residential	Multi Family	Water Heating	New	3,885	1%
SCE	Residential	Multi Family	Clothes Dryer	New	521	31%
SCE	Residential	Multi Family	Other	New	1,725	100%
SCE	Residential	Multi Family	Cooking	New	2,040	5%
SCE	Residential	Multi Family	Refrigerator	New	885	117%
SCE	Residential	Multi Family	Freezer	New	1,043	28%
SCE	Residential	Multi Family	Swimming Pool Pump	New	-	5%
SCE	Residential	Multi Family	Space Heat	New	8,466	0%
SCE	Residential	Multi Family	Furnace Fan	New	152	99%
SCE	Residential	Multi Family	Space Cooling	New	1,331	128%
SCE	Residential	Multi Family	Lighting	New	1,200	100%
SCE	Commercial	College	Cooling	New	1.90	89.9%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
SCE	Commercial	College	Heating	New	1.14	82.8%
SCE	Commercial	College	Vent	New	1.73	92.2%
SCE	Commercial	College	WaterHeat	New	0.25	45.8%
SCE	Commercial	College	Com Cooking	New	0.17	75.9%
SCE	Commercial	College	Refrig	New	0.25	99.4%
SCE	Commercial	College	IntLight	New	3.61	100.0%
SCE	Commercial	College	OfficeEquip	New	0.90	100.0%
SCE	Commercial	College	ExtLight	New	0.56	96.7%
SCE	Commercial	College	Misc	New	1.12	100.0%
SCE	Commercial	Food Store	Cooling	New	4.82	59.5%
SCE	Commercial	Food Store	Heating	New	0.73	17.0%
SCE	Commercial	Food Store	Vent	New	3.60	61.7%
SCE	Commercial	Food Store	WaterHeat	New	0.30	39.5%
SCE	Commercial	Food Store	Com Cooking	New	1.61	84.1%
SCE	Commercial	Food Store	Refrig	New	17.39	100.0%
SCE	Commercial	Food Store	IntLight	New	7.20	100.0%
SCE	Commercial	Food Store	OfficeEquip	New	0.30	97.8%
SCE	Commercial	Food Store	ExtLight	New	0.97	85.4%
SCE	Commercial	Food Store	Misc	New	0.97	100.0%
SCE	Commercial	Health	Cooling	New	3.72	91.7%
SCE	Commercial	Health	Heating	New	0.89	68.3%
SCE	Commercial	Health	Vent	New	3.53	95.2%
SCE	Commercial	Health	WaterHeat	New	0.38	18.8%
SCE	Commercial	Health	Com Cooking	New	0.34	97.9%
SCE	Commercial	Health	Refrig	New	0.59	99.5%
SCE	Commercial	Health	IntLight	New	3.93	100.0%
SCE	Commercial	Health	OfficeEquip	New	0.73	99.8%
SCE	Commercial	Health	ExtLight	New	0.55	97.7%
SCE	Commercial	Health	Misc	New	2.70	100.0%
SCE	Commercial	Large Office	Cooling	New	3.41	92.8%
SCE	Commercial	Large Office	Heating	New	0.26	78.1%
SCE	Commercial	Large Office	Vent	New	2.57	93.9%
SCE	Commercial	Large Office	WaterHeat	New	0.19	47.0%
SCE	Commercial	Large Office	Com Cooking	New	0.08	97.5%
SCE	Commercial	Large Office	Refrig	New	0.31	98.5%
SCE	Commercial	Large Office	IntLight	New	3.76	100.0%
SCE	Commercial	Large Office	OfficeEquip	New	2.70	100.0%
SCE	Commercial	Large Office	ExtLight	New	0.57	98.7%
SCE	Commercial	Large Office	Misc	New	1.06	100.0%
SCE	Commercial	Lodging	Cooling	New	2.75	87.6%
SCE	Commercial	Lodging	Heating	New	0.34	81.7%
SCE	Commercial	Lodging	Vent	New	1.51	92.3%
SCE	Commercial	Lodging	WaterHeat	New	-	0.0%
SCE	Commercial	Lodging	Com Cooking	New	0.60	94.8%
SCE	Commercial	Lodging	Refrig	New	0.78	99.4%
SCE	Commercial	Lodging	IntLight	New	2.92	100.0%
SCE	Commercial	Lodging	OfficeEquip	New	0.19	99.0%
SCE	Commercial	Lodging	ExtLight	New	0.58	94.8%
SCE	Commercial	Lodging	Misc	New	1.53	100.0%
SCE	Commercial	Miscellaneous	Cooling	New	1.81	61.0%
SCE	Commercial	Miscellaneous	Heating	New	0.23	24.1%
SCE	Commercial	Miscellaneous	Vent	New	0.87	67.4%
SCE	Commercial	Miscellaneous	WaterHeat	New	0.28	40.8%
SCE	Commercial	Miscellaneous	Com Cooking	New	0.22	94.2%
SCE	Commercial	Miscellaneous	Refrig	New	0.75	94.9%
SCE	Commercial	Miscellaneous	IntLight	New	1.94	100.0%
SCE	Commercial	Miscellaneous	OfficeEquip	New	0.24	95.9%
SCE	Commercial	Miscellaneous	ExtLight	New	1.09	76.9%
SCE	Commercial	Miscellaneous	Misc	New	2.11	100.0%
SCE	Commercial	Refrigerated Warehouse	Cooling	New	2.36	17.0%
SCE	Commercial	Refrigerated Warehouse	Heating	New	0.25	2.8%
SCE	Commercial	Refrigerated Warehouse	Vent	New	0.70	17.0%
SCE	Commercial	Refrigerated Warehouse	WaterHeat	New	0.02	41.3%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
SCE	Commercial	Refrigerated Warehouse	Com Cooking	New	0.03	96.6%
SCE	Commercial	Refrigerated Warehouse	Refrig	New	12.06	100.0%
SCE	Commercial	Refrigerated Warehouse	IntLight	New	2.58	100.0%
SCE	Commercial	Refrigerated Warehouse	OfficeEquip	New	0.10	100.0%
SCE	Commercial	Refrigerated Warehouse	ExtLight	New	0.26	91.6%
SCE	Commercial	Refrigerated Warehouse	Misc	New	2.37	100.0%
SCE	Commercial	Restaurant	Cooling	New	8.08	77.6%
SCE	Commercial	Restaurant	Heating	New	0.14	16.4%
SCE	Commercial	Restaurant	Vent	New	4.19	78.2%
SCE	Commercial	Restaurant	WaterHeat	New	2.00	17.8%
SCE	Commercial	Restaurant	Com Cooking	New	9.00	100.0%
SCE	Commercial	Restaurant	Refrig	New	8.33	100.0%
SCE	Commercial	Restaurant	IntLight	New	5.70	100.0%
SCE	Commercial	Restaurant	OfficeEquip	New	0.58	99.5%
SCE	Commercial	Restaurant	ExtLight	New	2.50	87.5%
SCE	Commercial	Restaurant	Misc	New	1.23	100.0%
SCE	Commercial	Retail	Cooling	New	3.18	70.2%
SCE	Commercial	Retail	Heating	New	0.12	25.0%
SCE	Commercial	Retail	Vent	New	2.15	71.9%
SCE	Commercial	Retail	WaterHeat	New	0.18	55.6%
SCE	Commercial	Retail	Com Cooking	New	0.19	93.6%
SCE	Commercial	Retail	Refrig	New	0.85	94.3%
SCE	Commercial	Retail	IntLight	New	5.27	100.0%
SCE	Commercial	Retail	OfficeEquip	New	0.38	100.0%
SCE	Commercial	Retail	ExtLight	New	1.07	79.9%
SCE	Commercial	Retail	Misc	New	0.89	100.0%
SCE	Commercial	School	Cooling	New	1.58	80.1%
SCE	Commercial	School	Heating	New	0.14	49.3%
SCE	Commercial	School	Vent	New	0.87	93.3%
SCE	Commercial	School	WaterHeat	New	0.24	47.3%
SCE	Commercial	School	Com Cooking	New	0.14	94.9%
SCE	Commercial	School	Refrig	New	0.43	98.8%
SCE	Commercial	School	IntLight	New	2.46	100.0%
SCE	Commercial	School	OfficeEquip	New	0.39	100.0%
SCE	Commercial	School	ExtLight	New	0.60	98.4%
SCE	Commercial	School	Misc	New	0.30	100.0%
SCE	Commercial	Small Office	Cooling	New	2.50	93.3%
SCE	Commercial	Small Office	Heating	New	0.18	44.5%
SCE	Commercial	Small Office	Vent	New	1.05	93.9%
SCE	Commercial	Small Office	WaterHeat	New	0.37	51.4%
SCE	Commercial	Small Office	Com Cooking	New	0.10	92.3%
SCE	Commercial	Small Office	Refrig	New	0.48	95.5%
SCE	Commercial	Small Office	IntLight	New	3.10	100.0%
SCE	Commercial	Small Office	OfficeEquip	New	1.30	99.9%
SCE	Commercial	Small Office	ExtLight	New	1.35	72.7%
SCE	Commercial	Small Office	Misc	New	1.08	100.0%
SCE	Commercial	Unrefrigerated Warehouse	Cooling	New	1.57	17.5%
SCE	Commercial	Unrefrigerated Warehouse	Heating	New	0.27	10.8%
SCE	Commercial	Unrefrigerated Warehouse	Vent	New	1.33	19.4%
SCE	Commercial	Unrefrigerated Warehouse	WaterHeat	New	0.05	75.1%
SCE	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0.02	92.6%
SCE	Commercial	Unrefrigerated Warehouse	Refrig	New	0.22	94.5%
SCE	Commercial	Unrefrigerated Warehouse	IntLight	New	1.69	100.0%
SCE	Commercial	Unrefrigerated Warehouse	OfficeEquip	New	0.18	100.0%
SCE	Commercial	Unrefrigerated Warehouse	ExtLight	New	0.18	95.7%
SCE	Commercial	Unrefrigerated Warehouse	Misc	New	0.58	100.0%
SDG&E	Residential	Single Family	Water Heating	New	3,950	3%
SDG&E	Residential	Single Family	Clothes Dryer	New	800	31%
SDG&E	Residential	Single Family	Other	New	2,326	100%
SDG&E	Residential	Single Family	Cooking	New	670	42%
SDG&E	Residential	Single Family	Refrigerator	New	883	132%
SDG&E	Residential	Single Family	Freezer	New	831	24%
SDG&E	Residential	Single Family	Swimming Pool Pump	New	2,716	23%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
SDG&E	Residential	Single Family	Space Heat	New	2,335	3%
SDG&E	Residential	Single Family	Furnace Fan	New	132	100%
SDG&E	Residential	Single Family	Space Cooling	New	906	75%
SDG&E	Residential	Single Family	Lighting	New	1,800	100%
SDG&E	Residential	Multi Family	Water Heating	New	3,956	19%
SDG&E	Residential	Multi Family	Clothes Dryer	New	332	34%
SDG&E	Residential	Multi Family	Other	New	1,068	100%
SDG&E	Residential	Multi Family	Cooking	New	342	43%
SDG&E	Residential	Multi Family	Refrigerator	New	839	113%
SDG&E	Residential	Multi Family	Freezer	New	895	22%
SDG&E	Residential	Multi Family	Swimming Pool Pump	New	-	5%
SDG&E	Residential	Multi Family	Space Heat	New	1,566	18%
SDG&E	Residential	Multi Family	Furnace Fan	New	89	100%
SDG&E	Residential	Multi Family	Space Cooling	New	619	82%
SDG&E	Residential	Multi Family	Lighting	New	1,200	100%
SDG&E	Commercial	College	Cooling	New	2.37	80.9%
SDG&E	Commercial	College	Heating	New	0.78	81.9%
SDG&E	Commercial	College	Vent	New	0.74	81.9%
SDG&E	Commercial	College	WaterHeat	New	0.02	97.7%
SDG&E	Commercial	College	Com Cooking	New	0.29	100.0%
SDG&E	Commercial	College	Refrig	New	0.47	100.0%
SDG&E	Commercial	College	IntLight	New	2.60	100.0%
SDG&E	Commercial	College	OfficeEquip	New	0.42	100.0%
SDG&E	Commercial	College	ExtLight	New	1.13	99.6%
SDG&E	Commercial	College	Misc	New	0.98	100.0%
SDG&E	Commercial	Food Store	Cooling	New	3.14	54.8%
SDG&E	Commercial	Food Store	Heating	New	0.13	12.2%
SDG&E	Commercial	Food Store	Vent	New	3.19	54.8%
SDG&E	Commercial	Food Store	WaterHeat	New	0.45	14.0%
SDG&E	Commercial	Food Store	Com Cooking	New	1.23	92.3%
SDG&E	Commercial	Food Store	Refrig	New	18.24	100.0%
SDG&E	Commercial	Food Store	IntLight	New	6.25	100.0%
SDG&E	Commercial	Food Store	OfficeEquip	New	0.32	100.0%
SDG&E	Commercial	Food Store	ExtLight	New	0.90	88.0%
SDG&E	Commercial	Food Store	Misc	New	0.74	100.0%
SDG&E	Commercial	Health	Cooling	New	3.63	92.7%
SDG&E	Commercial	Health	Heating	New	0.53	69.1%
SDG&E	Commercial	Health	Vent	New	2.44	95.0%
SDG&E	Commercial	Health	WaterHeat	New	0.38	23.1%
SDG&E	Commercial	Health	Com Cooking	New	0.18	100.0%
SDG&E	Commercial	Health	Refrig	New	0.49	100.0%
SDG&E	Commercial	Health	IntLight	New	3.94	100.0%
SDG&E	Commercial	Health	OfficeEquip	New	0.64	100.0%
SDG&E	Commercial	Health	ExtLight	New	0.37	99.6%
SDG&E	Commercial	Health	Misc	New	3.40	100.0%
SDG&E	Commercial	Large Office	Cooling	New	3.81	89.5%
SDG&E	Commercial	Large Office	Heating	New	0.55	70.4%
SDG&E	Commercial	Large Office	Vent	New	2.85	92.1%
SDG&E	Commercial	Large Office	WaterHeat	New	0.22	62.8%
SDG&E	Commercial	Large Office	Com Cooking	New	0.12	96.0%
SDG&E	Commercial	Large Office	Refrig	New	0.58	97.7%
SDG&E	Commercial	Large Office	IntLight	New	3.56	100.0%
SDG&E	Commercial	Large Office	OfficeEquip	New	2.37	100.0%
SDG&E	Commercial	Large Office	ExtLight	New	0.46	100.0%
SDG&E	Commercial	Large Office	Misc	New	1.76	100.0%
SDG&E	Commercial	Lodging	Cooling	New	2.98	89.9%
SDG&E	Commercial	Lodging	Heating	New	0.38	85.7%
SDG&E	Commercial	Lodging	Vent	New	2.57	91.0%
SDG&E	Commercial	Lodging	WaterHeat	New	0.04	5.4%
SDG&E	Commercial	Lodging	Com Cooking	New	0.74	99.1%
SDG&E	Commercial	Lodging	Refrig	New	0.82	100.0%
SDG&E	Commercial	Lodging	IntLight	New	4.14	100.0%
SDG&E	Commercial	Lodging	OfficeEquip	New	0.09	98.1%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
SDG&E	Commercial	Lodging	ExtLight	New	0.46	100.0%
SDG&E	Commercial	Lodging	Misc	New	1.30	100.0%
SDG&E	Commercial	Miscellaneous	Cooling	New	1.47	43.0%
SDG&E	Commercial	Miscellaneous	Heating	New	0.24	29.6%
SDG&E	Commercial	Miscellaneous	Vent	New	0.95	56.7%
SDG&E	Commercial	Miscellaneous	WaterHeat	New	0.31	32.6%
SDG&E	Commercial	Miscellaneous	Com Cooking	New	0.10	89.2%
SDG&E	Commercial	Miscellaneous	Refrig	New	0.48	98.8%
SDG&E	Commercial	Miscellaneous	IntLight	New	2.12	100.0%
SDG&E	Commercial	Miscellaneous	OfficeEquip	New	0.30	100.0%
SDG&E	Commercial	Miscellaneous	ExtLight	New	0.93	95.9%
SDG&E	Commercial	Miscellaneous	Misc	New	2.56	100.0%
SDG&E	Commercial	Refrigerated Warehouse	Cooling	New	3.72	14.6%
SDG&E	Commercial	Refrigerated Warehouse	Heating	New	1.47	4.7%
SDG&E	Commercial	Refrigerated Warehouse	Vent	New	3.66	40.6%
SDG&E	Commercial	Refrigerated Warehouse	WaterHeat	New	0.33	39.6%
SDG&E	Commercial	Refrigerated Warehouse	Com Cooking	New	0.10	100.0%
SDG&E	Commercial	Refrigerated Warehouse	Refrig	New	18.18	100.0%
SDG&E	Commercial	Refrigerated Warehouse	IntLight	New	3.34	100.0%
SDG&E	Commercial	Refrigerated Warehouse	OfficeEquip	New	0.29	100.0%
SDG&E	Commercial	Refrigerated Warehouse	ExtLight	New	0.37	100.0%
SDG&E	Commercial	Refrigerated Warehouse	Misc	New	3.74	100.0%
SDG&E	Commercial	Restaurant	Cooling	New	7.46	68.9%
SDG&E	Commercial	Restaurant	Heating	New	0.42	28.3%
SDG&E	Commercial	Restaurant	Vent	New	4.55	74.3%
SDG&E	Commercial	Restaurant	WaterHeat	New	1.38	30.0%
SDG&E	Commercial	Restaurant	Com Cooking	New	8.47	95.2%
SDG&E	Commercial	Restaurant	Refrig	New	8.29	100.0%
SDG&E	Commercial	Restaurant	IntLight	New	5.42	100.0%
SDG&E	Commercial	Restaurant	OfficeEquip	New	0.62	95.6%
SDG&E	Commercial	Restaurant	ExtLight	New	1.79	86.5%
SDG&E	Commercial	Restaurant	Misc	New	2.00	100.0%
SDG&E	Commercial	Retail	Cooling	New	3.10	62.3%
SDG&E	Commercial	Retail	Heating	New	0.27	25.3%
SDG&E	Commercial	Retail	Vent	New	1.92	67.6%
SDG&E	Commercial	Retail	WaterHeat	New	0.38	53.3%
SDG&E	Commercial	Retail	Com Cooking	New	0.23	89.4%
SDG&E	Commercial	Retail	Refrig	New	1.22	93.3%
SDG&E	Commercial	Retail	IntLight	New	5.38	100.0%
SDG&E	Commercial	Retail	OfficeEquip	New	0.46	100.0%
SDG&E	Commercial	Retail	ExtLight	New	1.10	89.5%
SDG&E	Commercial	Retail	Misc	New	0.73	100.0%
SDG&E	Commercial	School	Cooling	New	0.94	84.1%
SDG&E	Commercial	School	Heating	New	0.22	80.7%
SDG&E	Commercial	School	Vent	New	0.77	88.8%
SDG&E	Commercial	School	WaterHeat	New	0.10	80.1%
SDG&E	Commercial	School	Com Cooking	New	0.06	100.0%
SDG&E	Commercial	School	Refrig	New	0.33	100.0%
SDG&E	Commercial	School	IntLight	New	2.13	100.0%
SDG&E	Commercial	School	OfficeEquip	New	0.40	100.0%
SDG&E	Commercial	School	ExtLight	New	0.55	100.0%
SDG&E	Commercial	School	Misc	New	0.15	100.0%
SDG&E	Commercial	Small Office	Cooling	New	1.95	92.6%
SDG&E	Commercial	Small Office	Heating	New	0.30	80.0%
SDG&E	Commercial	Small Office	Vent	New	0.91	93.4%
SDG&E	Commercial	Small Office	WaterHeat	New	0.42	70.3%
SDG&E	Commercial	Small Office	Com Cooking	New	0.15	92.2%
SDG&E	Commercial	Small Office	Refrig	New	0.70	87.2%
SDG&E	Commercial	Small Office	IntLight	New	3.15	100.0%
SDG&E	Commercial	Small Office	OfficeEquip	New	1.78	100.0%
SDG&E	Commercial	Small Office	ExtLight	New	1.17	54.7%
SDG&E	Commercial	Small Office	Misc	New	0.18	100.0%
SDG&E	Commercial	Unrefrigerated Warehouse	Cooling	New	2.07	25.0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	UEC/EUI	Saturation
SDG&E	Commercial	Unrefrigerated Warehouse	Heating	New	0.16	11.7%
SDG&E	Commercial	Unrefrigerated Warehouse	Vent	New	1.43	25.0%
SDG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	New	0.10	74.7%
SDG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0.10	100.0%
SDG&E	Commercial	Unrefrigerated Warehouse	Refrig	New	0.28	99.3%
SDG&E	Commercial	Unrefrigerated Warehouse	IntLight	New	1.58	100.0%
SDG&E	Commercial	Unrefrigerated Warehouse	OfficeEquip	New	0.25	99.3%
SDG&E	Commercial	Unrefrigerated Warehouse	ExtLight	New	0.20	97.8%
SDG&E	Commercial	Unrefrigerated Warehouse	Misc	New	0.28	100.0%

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Utility_Name	Sector_Name	Bld_Name	Vintage	Building Stock:	
				2004	2020
PG&E	Residential	Single Family	Existing	3,350,669	3,134,741
PG&E	Residential	Single Family	New	-	1,014,327
PG&E	Residential	Multi Family	Existing	1,263,162	1,168,801
PG&E	Residential	Multi Family	New	-	319,916
PG&E	Commercial	College	Existing	114,100,822	97,625,775
PG&E	Commercial	College	New	-	45,414,000
PG&E	Commercial	Food Store	Existing	94,836,951	81,133,508
PG&E	Commercial	Food Store	New	-	40,744,000
PG&E	Commercial	Health	Existing	146,015,438	125,007,564
PG&E	Commercial	Health	New	-	62,240,000
PG&E	Commercial	Large Office	Existing	475,116,991	405,044,541
PG&E	Commercial	Large Office	New	-	233,430,000
PG&E	Commercial	Lodging	Existing	139,932,102	119,771,644
PG&E	Commercial	Lodging	New	-	59,992,798
PG&E	Commercial	Miscellaneous	Existing	511,091,395	438,803,551
PG&E	Commercial	Miscellaneous	New	-	191,723,750
PG&E	Commercial	Refrigerated Warehouse	Existing	39,505,460	33,331,746
PG&E	Commercial	Refrigerated Warehouse	New	-	25,287,000
PG&E	Commercial	Restaurant	Existing	71,268,746	61,569,325
PG&E	Commercial	Restaurant	New	-	19,819,500
PG&E	Commercial	Retail	Existing	430,430,001	368,508,469
PG&E	Commercial	Retail	New	-	179,642,500
PG&E	Commercial	School	Existing	238,026,516	204,434,324
PG&E	Commercial	School	New	-	85,818,750
PG&E	Commercial	Small Office	Existing	150,123,501	128,357,366
PG&E	Commercial	Small Office	New	-	65,725,000
PG&E	Commercial	Unrefrigerated Warehouse	Existing	359,955,436	305,073,402
PG&E	Commercial	Unrefrigerated Warehouse	New	-	211,047,500
PG&E	Industrial	Industrial	Existing	1	1.050
PG&E	Industrial	Ag	Existing	1	0.932
PG&E	Industrial	Construction	Existing	1	1
PG&E	Industrial	Mining	Existing	1	1.125
PG&E	Industrial	TCU	Existing	1	1.242
SCE	Residential	Single Family	Existing	3,070,421	2,879,285
SCE	Residential	Single Family	New	-	630,104
SCE	Residential	Multi Family	Existing	1,162,440	1,078,375
SCE	Residential	Multi Family	New	-	196,756
SCE	Commercial	College	Existing	88,151,620	75,048,189
SCE	Commercial	College	New	-	41,876,100
SCE	Commercial	Food Store	Existing	93,389,842	79,602,484
SCE	Commercial	Food Store	New	-	43,770,600
SCE	Commercial	Health	Existing	96,711,335	82,690,744
SCE	Commercial	Health	New	-	42,303,000
SCE	Commercial	Large Office	Existing	351,771,571	303,360,272
SCE	Commercial	Large Office	New	-	108,646,650
SCE	Commercial	Lodging	Existing	97,870,820	84,131,556
SCE	Commercial	Lodging	New	-	32,641,000
SCE	Commercial	Miscellaneous	Existing	457,123,755	388,451,266
SCE	Commercial	Miscellaneous	New	-	239,958,500

CPUC Goals Update Study – Appendix A

Utility_Name	Sector_Name	Bld_Name	Vintage	Building Stock:	
				2004	2020
SCE	Commercial	Refrigerated Warehouse	Existing	17,646,392	15,156,965
SCE	Commercial	Refrigerated Warehouse	New	-	6,412,000
SCE	Commercial	Restaurant	Existing	74,139,571	62,869,472
SCE	Commercial	Restaurant	New	-	41,235,000
SCE	Commercial	Retail	Existing	400,370,509	340,388,421
SCE	Commercial	Retail	New	-	203,672,000
SCE	Commercial	School	Existing	185,117,256	158,973,786
SCE	Commercial	School	New	-	65,599,500
SCE	Commercial	Small Office	Existing	113,631,415	97,124,614
SCE	Commercial	Small Office	New	-	49,730,000
SCE	Commercial	Unrefrigerated Warehouse	Existing	384,066,907	325,607,942
SCE	Commercial	Unrefrigerated Warehouse	New	-	202,157,000
SCE	Industrial	Industrial	Existing	1	0.998
SCE	Industrial	Ag	Existing	1	0.976
SCE	Industrial	Construction	Existing	1	1
SCE	Industrial	Mining	Existing	1	1.189
SCE	Industrial	TCU	Existing	1	1.308
SDG&E	Residential	Single Family	Existing	751,959	704,578
SDG&E	Residential	Single Family	New	-	178,824
SDG&E	Residential	Multi Family	Existing	392,554	362,972
SDG&E	Residential	Multi Family	New	-	103,231
SDG&E	Commercial	College	Existing	25,780,092	21,792,550
SDG&E	Commercial	College	New	-	14,192,000
SDG&E	Commercial	Food Store	Existing	21,508,506	18,220,481
SDG&E	Commercial	Food Store	New	-	11,898,400
SDG&E	Commercial	Health	Existing	29,434,485	25,289,021
SDG&E	Commercial	Health	New	-	10,692,000
SDG&E	Commercial	Large Office	Existing	94,460,237	80,439,709
SDG&E	Commercial	Large Office	New	-	45,132,000
SDG&E	Commercial	Lodging	Existing	36,754,901	30,936,773
SDG&E	Commercial	Lodging	New	-	24,099,000
SDG&E	Commercial	Miscellaneous	Existing	73,006,388	61,758,955
SDG&E	Commercial	Miscellaneous	New	-	42,766,500
SDG&E	Commercial	Refrigerated Warehouse	Existing	643,673	549,055
SDG&E	Commercial	Refrigerated Warehouse	New	-	316,000
SDG&E	Commercial	Restaurant	Existing	14,309,390	12,307,346
SDG&E	Commercial	Restaurant	New	-	4,908,000
SDG&E	Commercial	Retail	Existing	72,953,886	62,176,200
SDG&E	Commercial	Retail	New	-	34,494,000
SDG&E	Commercial	School	Existing	40,016,239	34,253,613
SDG&E	Commercial	School	New	-	16,223,000
SDG&E	Commercial	Small Office	Existing	51,545,292	44,501,060
SDG&E	Commercial	Small Office	New	-	14,731,000
SDG&E	Commercial	Unrefrigerated Warehouse	Existing	50,222,996	42,654,186
SDG&E	Commercial	Unrefrigerated Warehouse	New	-	26,008,800
SDG&E	Industrial	Industrial	Existing	1	1.026
SDG&E	Industrial	Ag	Existing	1	1.313
SDG&E	Industrial	Construction	Existing	1	1
SDG&E	Industrial	Mining	Existing	1	0.988

CPUC Goals Update Study – Appendix A

Utility_Name	Sector_Name	Bld_Name	Vintage	Building Stock:	
				2004	2020
SDG&E	Industrial	TCU	Existing	1	1.238

Appendix B

Final Savings Inputs

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings
PG&E	Residential	Single Family	Water Heating	Existing		47%	42%	34%		11%	7%	6%		10%	9%	7%
PG&E	Residential	Single Family	Clothes Dryer	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Other	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Refrigerator	Existing		7%	6%	4%		0%	0%	0%		4%	3%	1%
PG&E	Residential	Single Family	Freezer	Existing		0%	0%	0%		0%	0%	0%		4%	3%	1%
PG&E	Residential	Single Family	Swimming Pool Pump	Existing		2%	2%	2%		2%	2%	2%		0%	0%	0%
PG&E	Residential	Single Family	Space Heat	Existing		40%	34%	27%		22%	18%	15%		22%	18%	15%
PG&E	Residential	Single Family	Furnace Fan	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Space Cooling	Existing		33%	25%	20%		10%	8%	7%		11%	9%	7%
PG&E	Residential	Single Family	Lighting	Existing		74%	67%	47%		61%	56%	39%		41%	37%	18%
PG&E	Residential	Multi Family	Water Heating	Existing		27%	25%	20%		4%	3%	2%		1%	1%	1%
PG&E	Residential	Multi Family	Clothes Dryer	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Other	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Refrigerator	Existing		9%	8%	6%		0%	0%	0%		7%	5%	2%
PG&E	Residential	Multi Family	Freezer	Existing		0%	0%	0%		0%	0%	0%		4%	3%	1%
PG&E	Residential	Multi Family	Swimming Pool Pump	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	Existing		21%	17%	14%		10%	8%	7%		7%	6%	5%
PG&E	Residential	Multi Family	Furnace Fan	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Space Cooling	Existing		43%	32%	26%		14%	12%	10%		10%	8%	6%
PG&E	Residential	Multi Family	Lighting	Existing		69%	63%	44%		59%	54%	38%		33%	30%	15%
PG&E	Commercial	College	Cooling	Existing		39%	32%	26%		33%	28%	22%		21%	18%	11%
PG&E	Commercial	College	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	College	Vent	Existing		9%	7%	6%		8%	7%	6%		6%	6%	4%
PG&E	Commercial	College	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	College	Com Cooking	Existing		25%	21%	17%		21%	17%	14%		2%	2%	2%
PG&E	Commercial	College	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	College	IntLight	Existing		40%	37%	29%		38%	35%	28%		27%	22%	18%
PG&E	Commercial	College	OfficeEquip	Existing		41%	37%	30%		38%	35%	28%		2%	1%	1%
PG&E	Commercial	College	ExtLight	Existing		19%	17%	14%		8%	7%	5%		3%	2%	2%
PG&E	Commercial	College	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
PG&E	Commercial	Food Store	Cooling	Existing		19%	16%	13%		10%	8%	7%		10%	9%	5%
PG&E	Commercial	Food Store	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	Vent	Existing		3%	2%	2%		3%	2%	2%		0%	0%	0%
PG&E	Commercial	Food Store	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	Com Cooking	Existing		51%	43%	34%		21%	18%	14%		15%	13%	11%
PG&E	Commercial	Food Store	Refrig	Existing		53%	53%	27%		50%	50%	25%		20%	18%	15%
PG&E	Commercial	Food Store	IntLight	Existing		20%	18%	15%		20%	18%	15%		10%	8%	6%
PG&E	Commercial	Food Store	OfficeEquip	Existing		12%	11%	9%		8%	7%	6%		0%	0%	0%
PG&E	Commercial	Food Store	ExtLight	Existing		36%	33%	26%		22%	20%	16%		0%	0%	0%
PG&E	Commercial	Food Store	Misc	Existing		2%	2%	2%		2%	2%	2%		0%	0%	0%
PG&E	Commercial	Health	Cooling	Existing		24%	20%	16%		22%	18%	15%		17%	14%	9%
PG&E	Commercial	Health	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	Vent	Existing		7%	6%	5%		7%	5%	4%		5%	4%	3%
PG&E	Commercial	Health	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	Com Cooking	Existing		83%	69%	55%		79%	65%	52%		4%	3%	3%
PG&E	Commercial	Health	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	IntLight	Existing		37%	33%	27%		36%	32%	26%		19%	16%	12%
PG&E	Commercial	Health	OfficeEquip	Existing		16%	14%	11%		15%	13%	11%		1%	1%	0%
PG&E	Commercial	Health	ExtLight	Existing		17%	16%	13%		17%	15%	12%		1%	1%	0%
PG&E	Commercial	Health	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	Cooling	Existing		20%	17%	14%		17%	14%	11%		14%	12%	7%
PG&E	Commercial	Large Office	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	Vent	Existing		14%	12%	9%		14%	12%	9%		10%	10%	8%
PG&E	Commercial	Large Office	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	Com Cooking	Existing		52%	43%	34%		44%	37%	29%		5%	5%	4%
PG&E	Commercial	Large Office	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	IntLight	Existing		35%	32%	25%		27%	25%	20%		14%	12%	9%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings
PG&E	Commercial	Large Office	OfficeEquip	Existing		9%	8%	7%		8%	8%	6%		0%	0%	0%
PG&E	Commercial	Large Office	ExtLight	Existing		12%	11%	9%		10%	9%	7%		1%	1%	1%
PG&E	Commercial	Large Office	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Lodging	Cooling	Existing		46%	38%	30%		43%	36%	29%		28%	24%	14%
PG&E	Commercial	Lodging	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Lodging	Vent	Existing		3%	3%	2%		3%	3%	2%		2%	2%	2%
PG&E	Commercial	Lodging	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Lodging	Com Cooking	Existing		125%	104%	84%		122%	102%	81%		3%	3%	2%
PG&E	Commercial	Lodging	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Lodging	IntLight	Existing		59%	54%	43%		59%	54%	43%		24%	20%	16%
PG&E	Commercial	Lodging	OfficeEquip	Existing		11%	10%	8%		9%	8%	6%		0%	0%	0%
PG&E	Commercial	Lodging	ExtLight	Existing		20%	19%	15%		10%	9%	7%		5%	4%	3%
PG&E	Commercial	Lodging	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	Existing		31%	26%	20%		26%	22%	17%		16%	14%	8%
PG&E	Commercial	Miscellaneous	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Miscellaneous	Vent	Existing		3%	3%	2%		3%	3%	2%		2%	2%	1%
PG&E	Commercial	Miscellaneous	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Miscellaneous	Com Cooking	Existing		129%	107%	86%		120%	100%	80%		5%	4%	3%
PG&E	Commercial	Miscellaneous	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Miscellaneous	IntLight	Existing		33%	30%	24%		30%	27%	22%		19%	15%	12%
PG&E	Commercial	Miscellaneous	OfficeEquip	Existing		18%	16%	13%		15%	13%	11%		1%	1%	0%
PG&E	Commercial	Miscellaneous	ExtLight	Existing		13%	12%	10%		2%	2%	1%		1%	1%	1%
PG&E	Commercial	Miscellaneous	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
PG&E	Commercial	Refrigerated War	Cooling	Existing		27%	22%	18%		23%	19%	15%		16%	14%	8%
PG&E	Commercial	Refrigerated War	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Refrigerated War	Vent	Existing		2%	2%	2%		2%	2%	1%		2%	2%	1%
PG&E	Commercial	Refrigerated War	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Refrigerated War	Com Cooking	Existing		61%	51%	41%		56%	46%	37%		4%	3%	3%
PG&E	Commercial	Refrigerated War	Refrig	Existing		18%	18%	9%		17%	17%	9%		10%	9%	7%
PG&E	Commercial	Refrigerated War	IntLight	Existing		23%	21%	17%		23%	21%	17%		17%	14%	11%
PG&E	Commercial	Refrigerated War	OfficeEquip	Existing		10%	9%	8%		9%	8%	7%		0%	0%	0%
PG&E	Commercial	Refrigerated War	ExtLight	Existing		13%	12%	9%		5%	5%	4%		0%	0%	0%
PG&E	Commercial	Refrigerated War	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	Existing		13%	11%	9%		12%	10%	8%		7%	6%	3%
PG&E	Commercial	Restaurant	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Restaurant	Vent	Existing		2%	1%	1%		2%	1%	1%		0%	0%	0%
PG&E	Commercial	Restaurant	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Restaurant	Com Cooking	Existing		33%	27%	22%		25%	21%	17%		4%	4%	3%
PG&E	Commercial	Restaurant	Refrig	Existing		28%	28%	14%		25%	25%	13%		15%	14%	11%
PG&E	Commercial	Restaurant	IntLight	Existing		38%	34%	27%		37%	33%	27%		17%	14%	11%
PG&E	Commercial	Restaurant	OfficeEquip	Existing		6%	5%	4%		4%	3%	3%		0%	0%	0%
PG&E	Commercial	Restaurant	ExtLight	Existing		8%	7%	6%		3%	3%	2%		1%	1%	0%
PG&E	Commercial	Restaurant	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Retail	Cooling	Existing		31%	26%	21%		28%	23%	19%		14%	11%	7%
PG&E	Commercial	Retail	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Retail	Vent	Existing		5%	4%	3%		5%	4%	3%		2%	2%	2%
PG&E	Commercial	Retail	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Retail	Com Cooking	Existing		37%	31%	25%		23%	19%	15%		8%	7%	6%
PG&E	Commercial	Retail	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Retail	IntLight	Existing		36%	33%	26%		35%	32%	26%		15%	12%	10%
PG&E	Commercial	Retail	OfficeEquip	Existing		11%	10%	8%		8%	7%	6%		0%	0%	0%
PG&E	Commercial	Retail	ExtLight	Existing		17%	15%	12%		4%	3%	3%		1%	1%	1%
PG&E	Commercial	Retail	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
PG&E	Commercial	School	Cooling	Existing		36%	30%	24%		23%	19%	15%		28%	23%	14%
PG&E	Commercial	School	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	School	Vent	Existing		3%	3%	2%		3%	3%	2%		1%	1%	1%
PG&E	Commercial	School	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	School	Com Cooking	Existing		211%	176%	141%		195%	163%	130%		9%	8%	7%
PG&E	Commercial	School	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings
PG&E	Commercial	School	IntLight	Existing		31%	28%	22%		27%	25%	20%		22%	19%	15%
PG&E	Commercial	School	OfficeEquip	Existing		45%	41%	33%		44%	40%	32%		2%	2%	1%
PG&E	Commercial	School	ExtLight	Existing		9%	9%	7%		1%	1%	1%		0%	0%	0%
PG&E	Commercial	School	Misc	Existing		2%	2%	2%		2%	2%	2%		0%	0%	0%
PG&E	Commercial	Small Office	Cooling	Existing		30%	25%	20%		27%	23%	18%		13%	11%	7%
PG&E	Commercial	Small Office	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Small Office	Vent	Existing		3%	2%	2%		3%	2%	2%		0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	Existing		91%	76%	61%		88%	73%	59%		2%	2%	2%
PG&E	Commercial	Small Office	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Small Office	IntLight	Existing		37%	34%	27%		30%	27%	22%		16%	13%	11%
PG&E	Commercial	Small Office	OfficeEquip	Existing		11%	10%	8%		9%	8%	7%		0%	0%	0%
PG&E	Commercial	Small Office	ExtLight	Existing		41%	38%	30%		20%	18%	14%		9%	8%	6%
PG&E	Commercial	Small Office	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Cooling		Existing		25%	21%	17%		9%	8%	6%		12%	10%	6%
PG&E	Commercial	Unrefrigerated W: Heating		Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Vent		Existing		5%	4%	3%		5%	4%	3%		4%	4%	3%
PG&E	Commercial	Unrefrigerated W: WaterHeat		Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Com Cooking		Existing		62%	52%	41%		55%	45%	36%		4%	3%	3%
PG&E	Commercial	Unrefrigerated W: Refrig		Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Unrefrigerated W: IntLight		Existing		33%	30%	24%		26%	23%	19%		20%	16%	13%
PG&E	Commercial	Unrefrigerated W: OfficeEquip		Existing		20%	18%	15%		17%	16%	12%		1%	1%	0%
PG&E	Commercial	Unrefrigerated W: ExtLight		Existing		10%	9%	7%		6%	5%	4%		0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Misc		Existing		2%	2%	2%		2%	2%	2%		0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	Existing		11%	4%	3%		11%	4%	3%		3%	2%	2%
PG&E	Industrial	Industrial	Proc Cool	Existing		18%	14%	11%		12%	9%	7%		3%	3%	2%
PG&E	Industrial	Industrial	Pumps	Existing		43%	39%	26%		43%	39%	26%		30%	24%	18%
PG&E	Industrial	Industrial	Fans	Existing		30%	24%	18%		29%	23%	17%		16%	13%	10%
PG&E	Industrial	Industrial	Comp Air	Existing		51%	41%	31%		50%	40%	30%		24%	19%	14%
PG&E	Industrial	Industrial	Proc Drives	Existing		6%	5%	4%		6%	4%	3%		3%	3%	2%
PG&E	Industrial	Industrial	Ind Lighting	Existing		40%	32%	24%		39%	32%	24%		30%	24%	18%
PG&E	Industrial	Industrial	Refrigeration	Existing		4%	4%	3%		4%	4%	3%		4%	3%	2%
PG&E	Industrial	Industrial	Ind Other	Existing		3%	2%	2%		3%	2%	2%		1%	1%	1%
PG&E	Industrial	Ag		0 Existing		12%	9%	7%		12%	9%	7%		11%	9%	6%
PG&E	Industrial	Construction		0 Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Mining		0 Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	TCU		0 Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Single Family	Water Heating	Existing		62%	56%	45%		26%	17%	14%		6%	5%	4%
SCE	Residential	Single Family	Clothes Dryer	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Single Family	Other	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Single Family	Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Single Family	Refrigerator	Existing		7%	6%	4%		0%	0%	0%		12%	8%	4%
SCE	Residential	Single Family	Freezer	Existing		0%	0%	0%		0%	0%	0%		22%	14%	7%
SCE	Residential	Single Family	Swimming Pool Pump	Existing		2%	2%	1%		2%	2%	1%		0%	0%	0%
SCE	Residential	Single Family	Space Heat	Existing		74%	62%	49%		63%	52%	42%		14%	12%	10%
SCE	Residential	Single Family	Furnace Fan	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Single Family	Space Cooling	Existing		22%	17%	13%		9%	7%	6%		5%	4%	3%
SCE	Residential	Single Family	Lighting	Existing		70%	63%	44%		59%	54%	38%		44%	40%	20%
SCE	Residential	Multi Family	Water Heating	Existing		26%	23%	19%		9%	6%	5%		3%	2%	2%
SCE	Residential	Multi Family	Clothes Dryer	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Multi Family	Other	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Multi Family	Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Multi Family	Refrigerator	Existing		8%	7%	5%		0%	0%	0%		17%	11%	6%
SCE	Residential	Multi Family	Freezer	Existing		0%	0%	0%		0%	0%	0%		18%	12%	6%
SCE	Residential	Multi Family	Swimming Pool Pump	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Multi Family	Space Heat	Existing		51%	42%	34%		33%	27%	22%		11%	9%	7%
SCE	Residential	Multi Family	Furnace Fan	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Multi Family	Space Cooling	Existing		24%	18%	15%		10%	8%	6%		6%	5%	3%
SCE	Residential	Multi Family	Lighting	Existing		60%	55%	38%		53%	48%	33%		32%	29%	14%
														27%	18%	13%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings
SCE	Commercial	College	Cooling	Existing		35%	29%	24%		29%	24%	19%		28%	23%	14%
SCE	Commercial	College	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	College	Vent	Existing		26%	22%	17%		25%	21%	17%		21%	19%	15%
SCE	Commercial	College	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	College	Com Cooking	Existing		86%	71%	57%		49%	41%	33%		7%	6%	5%
SCE	Commercial	College	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	College	IntLight	Existing		26%	24%	19%		24%	21%	17%		14%	11%	9%
SCE	Commercial	College	OfficeEquip	Existing		25%	23%	18%		24%	22%	18%		4%	3%	3%
SCE	Commercial	College	ExtLight	Existing		12%	11%	8%		2%	2%	1%		5%	5%	4%
SCE	Commercial	College	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Food Store	Cooling	Existing		14%	12%	10%		10%	8%	7%		9%	8%	5%
SCE	Commercial	Food Store	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Food Store	Vent	Existing		3%	2%	2%		3%	2%	2%		0%	0%	0%
SCE	Commercial	Food Store	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Food Store	Com Cooking	Existing		75%	63%	50%		28%	23%	19%		3%	2%	2%
SCE	Commercial	Food Store	Refrig	Existing		67%	67%	33%		63%	63%	32%		33%	30%	24%
SCE	Commercial	Food Store	IntLight	Existing		33%	30%	24%		32%	29%	24%		17%	14%	11%
SCE	Commercial	Food Store	OfficeEquip	Existing		11%	10%	8%		8%	7%	6%		1%	1%	1%
SCE	Commercial	Food Store	ExtLight	Existing		46%	42%	34%		30%	27%	22%		4%	4%	3%
SCE	Commercial	Food Store	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Health	Cooling	Existing		32%	27%	22%		31%	26%	21%		25%	21%	13%
SCE	Commercial	Health	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Health	Vent	Existing		8%	6%	5%		8%	6%	5%		5%	4%	4%
SCE	Commercial	Health	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Health	Com Cooking	Existing		154%	128%	102%		146%	121%	97%		5%	4%	3%
SCE	Commercial	Health	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Health	IntLight	Existing		43%	39%	31%		42%	38%	30%		19%	16%	13%
SCE	Commercial	Health	OfficeEquip	Existing		19%	18%	14%		16%	14%	11%		3%	2%	2%
SCE	Commercial	Health	ExtLight	Existing		15%	14%	11%		14%	13%	10%		6%	5%	4%
SCE	Commercial	Health	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Large Office	Cooling	Existing		33%	27%	22%		30%	25%	20%		22%	19%	11%
SCE	Commercial	Large Office	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Large Office	Vent	Existing		20%	17%	13%		20%	17%	13%		15%	14%	11%
SCE	Commercial	Large Office	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Large Office	Com Cooking	Existing		46%	38%	31%		31%	26%	21%		1%	1%	1%
SCE	Commercial	Large Office	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Large Office	IntLight	Existing		29%	26%	21%		19%	18%	14%		12%	10%	8%
SCE	Commercial	Large Office	OfficeEquip	Existing		12%	11%	9%		11%	10%	8%		2%	2%	1%
SCE	Commercial	Large Office	ExtLight	Existing		20%	18%	14%		17%	16%	13%		7%	7%	5%
SCE	Commercial	Large Office	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Lodging	Cooling	Existing		49%	41%	33%		49%	41%	32%		38%	31%	19%
SCE	Commercial	Lodging	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Lodging	Vent	Existing		8%	7%	6%		8%	6%	5%		6%	5%	4%
SCE	Commercial	Lodging	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Lodging	Com Cooking	Existing		34%	28%	22%		30%	25%	20%		1%	1%	1%
SCE	Commercial	Lodging	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Lodging	IntLight	Existing		63%	58%	46%		63%	57%	45%		32%	27%	21%
SCE	Commercial	Lodging	OfficeEquip	Existing		29%	26%	21%		26%	23%	19%		4%	4%	3%
SCE	Commercial	Lodging	ExtLight	Existing		14%	13%	11%		2%	2%	1%		7%	7%	5%
SCE	Commercial	Lodging	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Miscellaneous	Cooling	Existing		45%	37%	30%		43%	36%	29%		28%	24%	14%
SCE	Commercial	Miscellaneous	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Miscellaneous	Vent	Existing		7%	6%	5%		7%	6%	5%		3%	3%	2%
SCE	Commercial	Miscellaneous	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Miscellaneous	Com Cooking	Existing		95%	79%	63%		80%	66%	53%		3%	2%	2%
SCE	Commercial	Miscellaneous	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Miscellaneous	IntLight	Existing		48%	44%	35%		44%	40%	32%		31%	26%	21%
SCE	Commercial	Miscellaneous	OfficeEquip	Existing		27%	24%	19%		21%	19%	15%		3%	3%	2%
SCE	Commercial	Miscellaneous	ExtLight	Existing		18%	16%	13%		1%	1%	1%		7%	6%	5%
														0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings
SCE	Commercial	Miscellaneous	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	Cooling	Existing		29%	24%	19%		28%	23%	18%		17%	14%	8%
SCE	Commercial	Refrigerated Warr	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	Vent	Existing		11%	9%	7%		11%	9%	7%		4%	4%	3%
SCE	Commercial	Refrigerated Warr	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	Com Cooking	Existing		6%	5%	4%		3%	3%	2%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	Refrig	Existing		17%	17%	8%		17%	17%	8%		14%	13%	10%
SCE	Commercial	Refrigerated Warr	IntLight	Existing		27%	25%	20%		27%	25%	20%		21%	17%	14%
SCE	Commercial	Refrigerated Warr	OfficeEquip	Existing		26%	24%	19%		21%	19%	15%		3%	3%	2%
SCE	Commercial	Refrigerated Warr	ExtLight	Existing		26%	24%	19%		19%	17%	14%		9%	8%	6%
SCE	Commercial	Refrigerated Warr	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Restaurant	Cooling	Existing		18%	15%	12%		17%	14%	12%		11%	9%	5%
SCE	Commercial	Restaurant	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Restaurant	Vent	Existing		2%	2%	2%		2%	2%	2%		0%	0%	0%
SCE	Commercial	Restaurant	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Restaurant	Com Cooking	Existing		24%	20%	16%		16%	14%	11%		2%	2%	1%
SCE	Commercial	Restaurant	Refrig	Existing		46%	46%	23%		41%	41%	20%		14%	13%	10%
SCE	Commercial	Restaurant	IntLight	Existing		53%	48%	39%		51%	46%	37%		26%	21%	17%
SCE	Commercial	Restaurant	OfficeEquip	Existing		6%	6%	5%		4%	3%	3%		1%	1%	0%
SCE	Commercial	Restaurant	ExtLight	Existing		13%	12%	10%		2%	1%	1%		3%	2%	2%
SCE	Commercial	Restaurant	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Retail	Cooling	Existing		39%	32%	26%		37%	31%	25%		22%	19%	11%
SCE	Commercial	Retail	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Retail	Vent	Existing		9%	7%	6%		9%	7%	6%		5%	4%	3%
SCE	Commercial	Retail	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Retail	Com Cooking	Existing		23%	19%	15%		8%	7%	5%		1%	1%	0%
SCE	Commercial	Retail	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Retail	IntLight	Existing		48%	44%	35%		48%	43%	35%		23%	19%	15%
SCE	Commercial	Retail	OfficeEquip	Existing		15%	14%	11%		12%	11%	9%		2%	2%	1%
SCE	Commercial	Retail	ExtLight	Existing		17%	15%	12%		1%	1%	1%		2%	2%	2%
SCE	Commercial	Retail	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	School	Cooling	Existing		41%	34%	27%		36%	30%	24%		32%	27%	16%
SCE	Commercial	School	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	School	Vent	Existing		8%	7%	5%		8%	6%	5%		3%	3%	2%
SCE	Commercial	School	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	School	Com Cooking	Existing		240%	200%	160%		215%	179%	143%		17%	16%	13%
SCE	Commercial	School	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	School	IntLight	Existing		33%	30%	24%		28%	26%	21%		23%	19%	16%
SCE	Commercial	School	OfficeEquip	Existing		57%	52%	41%		54%	49%	39%		8%	8%	6%
SCE	Commercial	School	ExtLight	Existing		20%	19%	15%		2%	2%	2%		12%	11%	9%
SCE	Commercial	School	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Small Office	Cooling	Existing		40%	33%	27%		38%	32%	25%		24%	20%	12%
SCE	Commercial	Small Office	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Small Office	Vent	Existing		3%	3%	2%		3%	3%	2%		0%	0%	0%
SCE	Commercial	Small Office	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Small Office	Com Cooking	Existing		24%	20%	16%		20%	16%	13%		0%	0%	0%
SCE	Commercial	Small Office	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Small Office	IntLight	Existing		63%	57%	46%		57%	52%	41%		41%	34%	27%
SCE	Commercial	Small Office	OfficeEquip	Existing		33%	30%	24%		27%	25%	20%		4%	3%	3%
SCE	Commercial	Small Office	ExtLight	Existing		24%	21%	17%		4%	4%	3%		4%	4%	3%
SCE	Commercial	Small Office	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Cooling	Existing		34%	28%	23%		22%	19%	15%		24%	20%	12%
SCE	Commercial	Unrefrigerated W:	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Vent	Existing		5%	4%	3%		4%	4%	3%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Com Cooking	Existing		80%	66%	53%		76%	63%	51%		1%	1%	0%
SCE	Commercial	Unrefrigerated W:	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	IntLight	Existing		38%	34%	27%		33%	30%	24%		26%	22%	17%
SCE	Commercial	Unrefrigerated W:	OfficeEquip	Existing		25%	23%	18%		20%	18%	15%		3%	3%	2%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings
SCE	Commercial	Unrefrigerated W/ExtLight		Existing		25%	23%	18%		17%	16%	12%		3%	3%	2%
SCE	Commercial	Unrefrigerated W/Misc		Existing		3%	3%	3%		3%	3%	3%		0%	0%	0%
SCE	Industrial	Industrial	Proc Heat	Existing		8%	3%	3%		8%	3%	3%		3%	2%	2%
SCE	Industrial	Industrial	Proc Cool	Existing		21%	17%	12%		14%	11%	8%		5%	4%	3%
SCE	Industrial	Industrial	Pumps	Existing		42%	38%	25%		41%	37%	25%		31%	25%	19%
SCE	Industrial	Industrial	Fans	Existing		29%	23%	18%		28%	22%	17%		18%	14%	11%
SCE	Industrial	Industrial	Comp Air	Existing		50%	40%	30%		49%	39%	29%		25%	20%	15%
SCE	Industrial	Industrial	Proc Drives	Existing		9%	7%	5%		8%	6%	5%		5%	4%	3%
SCE	Industrial	Industrial	Ind Lighting	Existing		39%	31%	23%		38%	31%	23%		32%	26%	19%
SCE	Industrial	Industrial	Refrigeration	Existing		3%	2%	2%		3%	2%	2%		2%	2%	1%
SCE	Industrial	Industrial	Ind Other	Existing		4%	3%	2%		4%	3%	2%		1%	1%	1%
SCE	Industrial	Ag		0 Existing		12%	9%	7%		12%	9%	7%		11%	9%	6%
SCE	Industrial	Construction		0 Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Industrial	Mining		0 Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Industrial	TCU		0 Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	Existing		44%	40%	32%		11%	7%	6%		14%	12%	10%
SDG&E	Residential	Single Family	Clothes Dryer	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Single Family	Other	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Single Family	Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Single Family	Refrigerator	Existing		7%	6%	4%		0%	0%	0%		10%	7%	3%
SDG&E	Residential	Single Family	Freezer	Existing		0%	0%	0%		0%	0%	0%		20%	14%	7%
SDG&E	Residential	Single Family	Swimming Pool Pump	Existing		2%	2%	2%		2%	2%	2%		0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	Existing		78%	65%	52%		43%	36%	29%		42%	35%	28%
SDG&E	Residential	Single Family	Furnace Fan	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Single Family	Space Cooling	Existing		65%	49%	39%		23%	19%	16%		28%	22%	17%
SDG&E	Residential	Single Family	Lighting	Existing		74%	67%	47%		58%	52%	37%		44%	40%	20%
SDG&E	Residential	Multi Family	Water Heating	Existing		32%	29%	23%		4%	3%	2%		2%	2%	1%
SDG&E	Residential	Multi Family	Clothes Dryer	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Multi Family	Other	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Multi Family	Refrigerator	Existing		8%	8%	5%		0%	0%	0%		15%	10%	5%
SDG&E	Residential	Multi Family	Freezer	Existing		0%	0%	0%		0%	0%	0%		19%	13%	6%
SDG&E	Residential	Multi Family	Swimming Pool Pump	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	Existing		38%	31%	25%		21%	17%	14%		17%	15%	12%
SDG&E	Residential	Multi Family	Furnace Fan	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Multi Family	Space Cooling	Existing		94%	71%	57%		38%	32%	25%		35%	28%	21%
SDG&E	Residential	Multi Family	Lighting	Existing		67%	61%	43%		54%	49%	35%		31%	28%	14%
SDG&E	Commercial	College	Cooling	Existing		20%	17%	13%		16%	13%	11%		14%	11%	7%
SDG&E	Commercial	College	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	College	Vent	Existing		79%	66%	53%		78%	65%	52%		56%	51%	41%
SDG&E	Commercial	College	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	College	Com Cooking	Existing		33%	28%	22%		19%	16%	12%		3%	3%	2%
SDG&E	Commercial	College	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	College	IntLight	Existing		32%	29%	24%		29%	27%	21%		20%	17%	14%
SDG&E	Commercial	College	OfficeEquip	Existing		47%	43%	34%		45%	41%	32%		2%	2%	2%
SDG&E	Commercial	College	ExtLight	Existing		5%	4%	4%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	College	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	Existing		16%	13%	11%		10%	9%	7%		10%	8%	5%
SDG&E	Commercial	Food Store	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Food Store	Vent	Existing		3%	2%	2%		3%	2%	2%		0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Food Store	Com Cooking	Existing		78%	65%	52%		29%	24%	19%		8%	7%	5%
SDG&E	Commercial	Food Store	Refrig	Existing		56%	56%	28%		53%	53%	27%		26%	24%	19%
SDG&E	Commercial	Food Store	IntLight	Existing		36%	33%	26%		36%	33%	26%		24%	20%	16%
SDG&E	Commercial	Food Store	OfficeEquip	Existing		9%	8%	6%		6%	6%	5%		0%	0%	0%
SDG&E	Commercial	Food Store	ExtLight	Existing		41%	37%	30%		27%	24%	19%		2%	1%	1%
SDG&E	Commercial	Food Store	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	Health	Cooling	Existing		27%	22%	18%		26%	22%	17%		18%	15%	9%
SDG&E	Commercial	Health	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings
SDG&E	Commercial	Health	Vent	Existing		8%	7%	6%		8%	7%	5%		2%	2%	2%
SDG&E	Commercial	Health	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Health	Com Cooking	Existing		246%	205%	164%		234%	195%	156%		10%	9%	7%
SDG&E	Commercial	Health	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Health	IntLight	Existing		40%	36%	29%		39%	35%	28%		17%	15%	12%
SDG&E	Commercial	Health	OfficeEquip	Existing		19%	17%	14%		15%	14%	11%		1%	1%	1%
SDG&E	Commercial	Health	ExtLight	Existing		20%	18%	14%		18%	16%	13%		2%	2%	1%
SDG&E	Commercial	Health	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	Existing		25%	21%	17%		23%	19%	15%		16%	13%	8%
SDG&E	Commercial	Large Office	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Large Office	Vent	Existing		17%	14%	11%		17%	14%	11%		11%	10%	8%
SDG&E	Commercial	Large Office	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Large Office	Com Cooking	Existing		27%	22%	18%		18%	15%	12%		9%	8%	6%
SDG&E	Commercial	Large Office	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Large Office	IntLight	Existing		28%	26%	20%		19%	17%	14%		14%	12%	9%
SDG&E	Commercial	Large Office	OfficeEquip	Existing		12%	11%	9%		11%	10%	8%		1%	1%	0%
SDG&E	Commercial	Large Office	ExtLight	Existing		22%	20%	16%		20%	18%	14%		3%	3%	2%
SDG&E	Commercial	Large Office	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	Existing		38%	32%	26%		38%	31%	25%		24%	20%	12%
SDG&E	Commercial	Lodging	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Lodging	Vent	Existing		8%	7%	5%		7%	6%	5%		6%	5%	4%
SDG&E	Commercial	Lodging	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Lodging	Com Cooking	Existing		23%	19%	15%		21%	17%	14%		2%	1%	1%
SDG&E	Commercial	Lodging	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Lodging	IntLight	Existing		41%	37%	30%		40%	37%	29%		22%	18%	14%
SDG&E	Commercial	Lodging	OfficeEquip	Existing		56%	51%	41%		50%	45%	36%		3%	3%	2%
SDG&E	Commercial	Lodging	ExtLight	Existing		15%	14%	11%		2%	2%	2%		1%	1%	1%
SDG&E	Commercial	Lodging	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	Existing		59%	50%	40%		57%	48%	38%		34%	28%	17%
SDG&E	Commercial	Miscellaneous	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Miscellaneous	Vent	Existing		7%	6%	5%		7%	6%	5%		1%	1%	1%
SDG&E	Commercial	Miscellaneous	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Miscellaneous	Com Cooking	Existing		171%	143%	114%		145%	121%	97%		14%	12%	10%
SDG&E	Commercial	Miscellaneous	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Miscellaneous	IntLight	Existing		42%	38%	30%		37%	33%	27%		28%	23%	18%
SDG&E	Commercial	Miscellaneous	OfficeEquip	Existing		18%	16%	13%		17%	15%	12%		1%	1%	1%
SDG&E	Commercial	Miscellaneous	ExtLight	Existing		15%	13%	11%		1%	1%	1%		2%	2%	1%
SDG&E	Commercial	Miscellaneous	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	Refrigerated Ware	Cooling	Existing		12%	10%	8%		11%	9%	7%		6%	5%	3%
SDG&E	Commercial	Refrigerated Ware	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Refrigerated Ware	Vent	Existing		1%	0%	0%		1%	0%	0%		0%	0%	0%
SDG&E	Commercial	Refrigerated Ware	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Refrigerated Ware	Com Cooking	Existing		2%	1%	1%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	Refrigerated Ware	Refrig	Existing		9%	9%	5%		9%	9%	4%		7%	6%	5%
SDG&E	Commercial	Refrigerated Ware	IntLight	Existing		19%	17%	14%		19%	17%	14%		14%	11%	9%
SDG&E	Commercial	Refrigerated Ware	OfficeEquip	Existing		8%	7%	6%		7%	6%	5%		0%	0%	0%
SDG&E	Commercial	Refrigerated Ware	ExtLight	Existing		15%	13%	11%		11%	10%	8%		1%	1%	1%
SDG&E	Commercial	Refrigerated Ware	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	Existing		16%	13%	10%		15%	13%	10%		9%	8%	5%
SDG&E	Commercial	Restaurant	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Restaurant	Vent	Existing		2%	2%	1%		2%	2%	1%		0%	0%	0%
SDG&E	Commercial	Restaurant	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Restaurant	Com Cooking	Existing		23%	19%	15%		16%	13%	11%		5%	4%	4%
SDG&E	Commercial	Restaurant	Refrig	Existing		39%	39%	20%		39%	39%	19%		24%	22%	17%
SDG&E	Commercial	Restaurant	IntLight	Existing		50%	46%	37%		48%	44%	35%		25%	21%	17%
SDG&E	Commercial	Restaurant	OfficeEquip	Existing		5%	5%	4%		3%	3%	2%		0%	0%	0%
SDG&E	Commercial	Restaurant	ExtLight	Existing		16%	15%	12%		2%	2%	1%		1%	1%	1%
SDG&E	Commercial	Restaurant	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	Retail	Cooling	Existing		33%	28%	22%		32%	27%	21%		17%	14%	9%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings
SDG&E	Commercial	Retail	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Retail	Vent	Existing		6%	5%	4%		6%	5%	4%		2%	2%	2%
SDG&E	Commercial	Retail	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Retail	Com Cooking	Existing		17%	14%	11%		6%	5%	4%		2%	2%	1%
SDG&E	Commercial	Retail	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Retail	IntLight	Existing		43%	39%	31%		42%	38%	31%		24%	20%	16%
SDG&E	Commercial	Retail	OfficeEquip	Existing		11%	10%	8%		10%	9%	7%		0%	0%	0%
SDG&E	Commercial	Retail	ExtLight	Existing		13%	12%	9%		1%	1%	1%		1%	1%	1%
SDG&E	Commercial	Retail	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	School	Cooling	Existing		46%	39%	31%		37%	31%	25%		31%	26%	15%
SDG&E	Commercial	School	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	School	Vent	Existing		7%	6%	5%		7%	6%	4%		1%	1%	1%
SDG&E	Commercial	School	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	School	Com Cooking	Existing		415%	346%	277%		387%	322%	258%		54%	49%	39%
SDG&E	Commercial	School	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	School	IntLight	Existing		36%	33%	26%		32%	29%	23%		26%	21%	17%
SDG&E	Commercial	School	OfficeEquip	Existing		48%	44%	35%		45%	41%	33%		2%	2%	2%
SDG&E	Commercial	School	ExtLight	Existing		19%	17%	14%		2%	2%	2%		1%	1%	1%
SDG&E	Commercial	School	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	Existing		40%	33%	27%		39%	32%	26%		22%	19%	11%
SDG&E	Commercial	Small Office	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Small Office	Vent	Existing		3%	3%	2%		3%	3%	2%		0%	0%	0%
SDG&E	Commercial	Small Office	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Small Office	Com Cooking	Existing		14%	11%	9%		11%	9%	7%		9%	8%	7%
SDG&E	Commercial	Small Office	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Small Office	IntLight	Existing		59%	53%	43%		54%	49%	39%		39%	33%	26%
SDG&E	Commercial	Small Office	OfficeEquip	Existing		20%	19%	15%		20%	19%	15%		1%	1%	1%
SDG&E	Commercial	Small Office	ExtLight	Existing		31%	28%	23%		5%	5%	4%		2%	2%	1%
SDG&E	Commercial	Small Office	Misc	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Cooling		Existing		21%	17%	14%		14%	11%	9%		0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Heating		Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Vent		Existing		4%	4%	3%		4%	3%	3%		0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: WaterHeat		Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Com Cooking		Existing		6%	5%	4%		5%	5%	4%		0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Refrig		Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: IntLight		Existing		37%	34%	27%		31%	28%	23%		28%	23%	19%
SDG&E	Commercial	Unrefrigerated W: OfficeEquip		Existing		17%	15%	12%		17%	15%	12%		1%	1%	1%
SDG&E	Commercial	Unrefrigerated W: ExtLight		Existing		19%	17%	14%		13%	12%	9%		1%	1%	1%
SDG&E	Commercial	Unrefrigerated W: Misc		Existing		2%	2%	2%		2%	2%	2%		1%	1%	1%
SDG&E	Industrial	Industrial	Proc Heat	Existing		8%	3%	2%		8%	3%	2%		2%	2%	1%
SDG&E	Industrial	Industrial	Proc Cool	Existing		18%	14%	11%		12%	10%	7%		4%	3%	2%
SDG&E	Industrial	Industrial	Pumps	Existing		35%	32%	21%		35%	32%	21%		29%	23%	18%
SDG&E	Industrial	Industrial	Fans	Existing		27%	21%	16%		25%	20%	15%		16%	13%	9%
SDG&E	Industrial	Industrial	Comp Air	Existing		47%	38%	28%		46%	37%	28%		24%	20%	15%
SDG&E	Industrial	Industrial	Proc Drives	Existing		7%	6%	4%		7%	6%	4%		4%	3%	2%
SDG&E	Industrial	Industrial	Ind Lighting	Existing		33%	26%	20%		33%	26%	20%		31%	25%	18%
SDG&E	Industrial	Industrial	Refrigeration	Existing		1%	1%	0%		1%	1%	0%		1%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	Existing		5%	4%	3%		5%	4%	3%		2%	2%	1%
SDG&E	Industrial	Ag	Ag	Existing		12%	9%	7%		12%	9%	7%		11%	9%	6%
SDG&E	Industrial	Construction	Construction	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Industrial	Mining	Mining	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Industrial	TCU	TCU	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Water Heating	New		12%	9%	7%		9%	7%	5%		5%	4%	3%
PG&E	Residential	Single Family	Clothes Dryer	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Other	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Refrigerator	New		7%	6%	4%		0%	0%	0%		4%	3%	1%
PG&E	Residential	Single Family	Freezer	New		0%	0%	0%		0%	0%	0%		4%	3%	1%
PG&E	Residential	Single Family	Swimming Pool Pump	New		0%	0%	0%		0%	0%	0%		0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year 2020			Scenario: Economic Savings relative to base year 2020			Scenario: Full Restricted Savings relative to base year 2020			Scenario: Base Restricted Savings relative to base year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Residential	Single Family	Space Heat	New	12%	9%	7%	9%	7%	5%	5%	4%	3%	3%	2%	2%
PG&E	Residential	Single Family	Furnace Fan	New	12%	9%	7%	9%	7%	5%	5%	4%	3%	3%	2%	2%
PG&E	Residential	Single Family	Space Cooling	New	12%	9%	7%	9%	7%	5%	5%	4%	3%	3%	2%	2%
PG&E	Residential	Single Family	Lighting	New	74%	67%	47%	61%	56%	39%	41%	37%	18%	30%	20%	15%
PG&E	Residential	Multi Family	Water Heating	New	4%	3%	2%	1%	1%	1%	2%	1%	1%	0%	0%	0%
PG&E	Residential	Multi Family	Clothes Dryer	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Multi Family	Other	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Multi Family	Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Multi Family	Refrigerator	New	9%	8%	6%	0%	0%	0%	7%	5%	2%	4%	3%	1%
PG&E	Residential	Multi Family	Freezer	New	0%	0%	0%	0%	0%	0%	4%	3%	1%	3%	2%	1%
PG&E	Residential	Multi Family	Swimming Pool Pump	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Multi Family	Space Heat	New	4%	3%	2%	1%	1%	1%	2%	1%	1%	0%	0%	0%
PG&E	Residential	Multi Family	Furnace Fan	New	4%	3%	2%	1%	1%	1%	2%	1%	1%	0%	0%	0%
PG&E	Residential	Multi Family	Space Cooling	New	4%	3%	2%	1%	1%	1%	2%	1%	1%	0%	0%	0%
PG&E	Residential	Multi Family	Lighting	New	69%	63%	44%	59%	54%	38%	33%	30%	15%	24%	16%	12%
PG&E	Commercial	College	Cooling	New	37%	29%	22%	37%	29%	22%	10%	8%	6%	4%	3%	2%
PG&E	Commercial	College	Heating	New	37%	29%	22%	37%	29%	22%	10%	8%	6%	4%	3%	2%
PG&E	Commercial	College	Vent	New	37%	29%	22%	37%	29%	22%	10%	8%	6%	4%	3%	2%
PG&E	Commercial	College	WaterHeat	New	37%	29%	22%	37%	29%	22%	10%	8%	6%	4%	3%	2%
PG&E	Commercial	College	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	College	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	College	IntLight	New	37%	29%	22%	37%	29%	22%	10%	8%	6%	4%	3%	2%
PG&E	Commercial	College	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	College	ExtLight	New	37%	29%	22%	37%	29%	22%	10%	8%	6%	4%	3%	2%
PG&E	Commercial	College	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Food Store	Cooling	New	30%	24%	18%	30%	24%	18%	8%	6%	5%	4%	3%	2%
PG&E	Commercial	Food Store	Heating	New	30%	24%	18%	30%	24%	18%	8%	6%	5%	4%	3%	2%
PG&E	Commercial	Food Store	Vent	New	30%	24%	18%	30%	24%	18%	8%	6%	5%	4%	3%	2%
PG&E	Commercial	Food Store	WaterHeat	New	30%	24%	18%	30%	24%	18%	8%	6%	5%	4%	3%	2%
PG&E	Commercial	Food Store	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Food Store	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Food Store	IntLight	New	30%	24%	18%	30%	24%	18%	8%	6%	5%	4%	3%	2%
PG&E	Commercial	Food Store	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Food Store	ExtLight	New	30%	24%	18%	30%	24%	18%	8%	6%	5%	4%	3%	2%
PG&E	Commercial	Food Store	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Health	Cooling	New	10%	8%	6%	10%	8%	6%	5%	4%	3%	1%	1%	1%
PG&E	Commercial	Health	Heating	New	10%	8%	6%	10%	8%	6%	5%	4%	3%	1%	1%	1%
PG&E	Commercial	Health	Vent	New	10%	8%	6%	10%	8%	6%	5%	4%	3%	1%	1%	1%
PG&E	Commercial	Health	WaterHeat	New	10%	8%	6%	10%	8%	6%	5%	4%	3%	1%	1%	1%
PG&E	Commercial	Health	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Health	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Health	IntLight	New	10%	8%	6%	10%	8%	6%	5%	4%	3%	1%	1%	1%
PG&E	Commercial	Health	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Health	ExtLight	New	10%	8%	6%	10%	8%	6%	5%	4%	3%	1%	1%	1%
PG&E	Commercial	Health	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Large Office	Cooling	New	11%	9%	7%	11%	9%	7%	3%	3%	2%	3%	2%	2%
PG&E	Commercial	Large Office	Heating	New	11%	9%	7%	11%	9%	7%	3%	3%	2%	3%	2%	2%
PG&E	Commercial	Large Office	Vent	New	11%	9%	7%	11%	9%	7%	3%	3%	2%	3%	2%	2%
PG&E	Commercial	Large Office	WaterHeat	New	11%	9%	7%	11%	9%	7%	3%	3%	2%	3%	2%	2%
PG&E	Commercial	Large Office	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Large Office	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Large Office	IntLight	New	11%	9%	7%	11%	9%	7%	3%	3%	2%	3%	2%	2%
PG&E	Commercial	Large Office	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Large Office	ExtLight	New	11%	9%	7%	11%	9%	7%	3%	3%	2%	3%	2%	2%
PG&E	Commercial	Large Office	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Lodging	Cooling	New	43%	34%	26%	43%	34%	26%	12%	10%	7%	10%	8%	6%
PG&E	Commercial	Lodging	Heating	New	43%	34%	26%	43%	34%	26%	12%	10%	7%	10%	8%	6%
PG&E	Commercial	Lodging	Vent	New	43%	34%	26%	43%	34%	26%	12%	10%	7%	10%	8%	6%
PG&E	Commercial	Lodging	WaterHeat	New	43%	34%	26%	43%	34%	26%	12%	10%	7%	10%	8%	6%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings
PG&E	Commercial	Lodging	Com Cooking	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Lodging	Refrig	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Lodging	IntLight	New		43%	34%	26%		43%	34%	26%		12%	10%	7%
PG&E	Commercial	Lodging	OfficeEquip	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Lodging	ExtLight	New		43%	34%	26%		43%	34%	26%		12%	10%	7%
PG&E	Commercial	Lodging	Misc	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Miscellaneous	Cooling	New		22%	17%	13%		22%	17%	13%		10%	8%	6%
PG&E	Commercial	Miscellaneous	Heating	New		22%	17%	13%		22%	17%	13%		10%	8%	6%
PG&E	Commercial	Miscellaneous	Vent	New		22%	17%	13%		22%	17%	13%		10%	8%	6%
PG&E	Commercial	Miscellaneous	WaterHeat	New		22%	17%	13%		22%	17%	13%		10%	8%	6%
PG&E	Commercial	Miscellaneous	Com Cooking	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Miscellaneous	Refrig	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Miscellaneous	IntLight	New		22%	17%	13%		22%	17%	13%		10%	8%	6%
PG&E	Commercial	Miscellaneous	OfficeEquip	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Miscellaneous	ExtLight	New		22%	17%	13%		22%	17%	13%		10%	8%	6%
PG&E	Commercial	Miscellaneous	Misc	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Refrigerated Wart	Cooling	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Refrigerated Wart	Heating	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Refrigerated Wart	Vent	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Refrigerated Wart	WaterHeat	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Refrigerated Wart	Com Cooking	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Refrigerated Wart	Refrig	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Refrigerated Wart	IntLight	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Refrigerated Wart	OfficeEquip	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Refrigerated Wart	ExtLight	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Refrigerated Wart	Misc	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Restaurant	Cooling	New		13%	11%	8%		13%	11%	8%		9%	8%	6%
PG&E	Commercial	Restaurant	Heating	New		13%	11%	8%		13%	11%	8%		9%	8%	6%
PG&E	Commercial	Restaurant	Vent	New		13%	11%	8%		13%	11%	8%		9%	8%	6%
PG&E	Commercial	Restaurant	WaterHeat	New		13%	11%	8%		13%	11%	8%		9%	8%	6%
PG&E	Commercial	Restaurant	Com Cooking	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Restaurant	Refrig	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Restaurant	IntLight	New		13%	11%	8%		13%	11%	8%		9%	8%	6%
PG&E	Commercial	Restaurant	OfficeEquip	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Restaurant	ExtLight	New		13%	11%	8%		13%	11%	8%		9%	8%	6%
PG&E	Commercial	Restaurant	Misc	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Retail	Cooling	New		19%	15%	11%		19%	15%	11%		9%	7%	5%
PG&E	Commercial	Retail	Heating	New		19%	15%	11%		19%	15%	11%		9%	7%	5%
PG&E	Commercial	Retail	Vent	New		19%	15%	11%		19%	15%	11%		9%	7%	5%
PG&E	Commercial	Retail	WaterHeat	New		19%	15%	11%		19%	15%	11%		9%	7%	5%
PG&E	Commercial	Retail	Com Cooking	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Retail	Refrig	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Retail	IntLight	New		19%	15%	11%		19%	15%	11%		9%	7%	5%
PG&E	Commercial	Retail	OfficeEquip	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Retail	ExtLight	New		19%	15%	11%		19%	15%	11%		9%	7%	5%
PG&E	Commercial	Retail	Misc	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	School	Cooling	New		18%	14%	11%		18%	14%	11%		12%	10%	7%
PG&E	Commercial	School	Heating	New		18%	14%	11%		18%	14%	11%		12%	10%	7%
PG&E	Commercial	School	Vent	New		18%	14%	11%		18%	14%	11%		12%	10%	7%
PG&E	Commercial	School	WaterHeat	New		18%	14%	11%		18%	14%	11%		12%	10%	7%
PG&E	Commercial	School	Com Cooking	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	School	Refrig	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	School	IntLight	New		18%	14%	11%		18%	14%	11%		12%	10%	7%
PG&E	Commercial	School	OfficeEquip	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	School	ExtLight	New		18%	14%	11%		18%	14%	11%		12%	10%	7%
PG&E	Commercial	School	Misc	New		0%		0%		0%		0%		0%		0%
PG&E	Commercial	Small Office	Cooling	New		14%	11%	9%		14%	11%	9%		5%	4%	3%
PG&E	Commercial	Small Office	Heating	New		14%	11%	9%		14%	11%	9%		5%	4%	3%
PG&E	Commercial	Small Office	Vent	New		14%	11%	9%		14%	11%	9%		5%	4%	3%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year Year			Scenario: Economic Savings relative to base year Year			Scenario: Full Restricted Savings relative to base year Year			Scenario: Base Restricted Savings relative to base year Year		
					High	Mid	Low	High	Mid	Low	High	Mid	Low	High	Mid	Low
PG&E	Commercial	Small Office	WaterHeat	New	14%	11%	9%	14%	11%	9%	5%	4%	3%	2%	2%	1%
PG&E	Commercial	Small Office	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Small Office	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Small Office	IntLight	New	14%	11%	9%	14%	11%	9%	5%	4%	3%	2%	2%	1%
PG&E	Commercial	Small Office	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Small Office	ExtLight	New	14%	11%	9%	14%	11%	9%	5%	4%	3%	2%	2%	1%
PG&E	Commercial	Small Office	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Unrefrigerated W:	Cooling	New	18%	15%	11%	16%	13%	10%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Heating	New	18%	15%	11%	16%	13%	10%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Vent	New	18%	15%	11%	16%	13%	10%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	WaterHeat	New	18%	15%	11%	16%	13%	10%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Unrefrigerated W:	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Unrefrigerated W:	IntLight	New	18%	15%	11%	16%	13%	10%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Unrefrigerated W:	ExtLight	New	18%	15%	11%	16%	13%	10%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Industrial	Proc Heat	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Industrial	Proc Cool	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Industrial	Pumps	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Industrial	Fans	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Industrial	Comp Air	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Industrial	Proc Drives	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Industrial	Ind Lighting	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Industrial	Refrigeration	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Industrial	Ind Other	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Ag		0 New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Construction		0 New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	Mining		0 New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Industrial	TCU		0 New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Residential	Single Family	Water Heating	New	20%	16%	12%	10%	8%	6%	5%	4%	3%	2%	2%	1%
SCE	Residential	Single Family	Clothes Dryer	New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Residential	Single Family	Other	New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Residential	Single Family	Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Residential	Single Family	Refrigerator	New	7%	6%	4%	0%	0%	0%	12%	8%	4%	8%	5%	3%
SCE	Residential	Single Family	Freezer	New	0%	0%	0%	0%	0%	0%	22%	14%	7%	15%	10%	5%
SCE	Residential	Single Family	Swimming Pool Pump	New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Residential	Single Family	Space Heat	New	20%	16%	12%	10%	8%	6%	5%	4%	3%	2%	2%	1%
SCE	Residential	Single Family	Furnace Fan	New	20%	16%	12%	10%	8%	6%	5%	4%	3%	2%	2%	1%
SCE	Residential	Single Family	Space Cooling	New	20%	16%	12%	10%	8%	6%	5%	4%	3%	2%	2%	1%
SCE	Residential	Single Family	Lighting	New	70%	63%	44%	59%	54%	38%	44%	40%	20%	39%	26%	19%
SCE	Residential	Multi Family	Water Heating	New	11%	9%	6%	2%	2%	1%	5%	4%	3%	1%	1%	1%
SCE	Residential	Multi Family	Clothes Dryer	New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Residential	Multi Family	Other	New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Residential	Multi Family	Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Residential	Multi Family	Refrigerator	New	8%	7%	5%	0%	0%	0%	17%	11%	6%	11%	7%	4%
SCE	Residential	Multi Family	Freezer	New	0%	0%	0%	0%	0%	0%	18%	12%	6%	11%	7%	4%
SCE	Residential	Multi Family	Swimming Pool Pump	New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Residential	Multi Family	Space Heat	New	11%	9%	6%	2%	2%	1%	5%	4%	3%	1%	1%	1%
SCE	Residential	Multi Family	Furnace Fan	New	11%	9%	6%	2%	2%	1%	5%	4%	3%	1%	1%	1%
SCE	Residential	Multi Family	Space Cooling	New	11%	9%	6%	2%	2%	1%	5%	4%	3%	1%	1%	1%
SCE	Residential	Multi Family	Lighting	New	60%	55%	38%	53%	48%	33%	32%	29%	14%	27%	18%	13%
SCE	Commercial	College	Cooling	New	29%	23%	17%	29%	23%	17%	11%	9%	7%	3%	2%	2%
SCE	Commercial	College	Heating	New	29%	23%	17%	29%	23%	17%	11%	9%	7%	3%	2%	2%
SCE	Commercial	College	Vent	New	29%	23%	17%	29%	23%	17%	11%	9%	7%	3%	2%	2%
SCE	Commercial	College	WaterHeat	New	29%	23%	17%	29%	23%	17%	11%	9%	7%	3%	2%	2%
SCE	Commercial	College	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Commercial	College	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
SCE	Commercial	College	IntLight	New	29%	23%	17%	29%	23%	17%	11%	9%	7%	3%	2%	2%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings
SCE	Commercial	College	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	College	ExtLight	New		29%	23%	17%		29%	23%	17%		11%	9%	7%
SCE	Commercial	College	Misc	New		0%		0%		0%		0%		0%	2%	0%
SCE	Commercial	Food Store	Cooling	New		37%	30%	22%		37%	30%	22%		15%	12%	9%
SCE	Commercial	Food Store	Heating	New		37%	30%	22%		37%	30%	22%		15%	12%	9%
SCE	Commercial	Food Store	Vent	New		37%	30%	22%		37%	30%	22%		15%	12%	9%
SCE	Commercial	Food Store	WaterHeat	New		37%	30%	22%		37%	30%	22%		15%	12%	9%
SCE	Commercial	Food Store	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Food Store	Refrig	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Food Store	IntLight	New		37%	30%	22%		37%	30%	22%		15%	12%	9%
SCE	Commercial	Food Store	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Food Store	ExtLight	New		37%	30%	22%		37%	30%	22%		15%	12%	9%
SCE	Commercial	Food Store	Misc	New		0%		0%		0%		0%		0%	8%	0%
SCE	Commercial	Health	Cooling	New		26%	21%	16%		26%	21%	16%		12%	9%	7%
SCE	Commercial	Health	Heating	New		26%	21%	16%		26%	21%	16%		12%	9%	7%
SCE	Commercial	Health	Vent	New		26%	21%	16%		26%	21%	16%		12%	9%	7%
SCE	Commercial	Health	WaterHeat	New		26%	21%	16%		26%	21%	16%		12%	9%	7%
SCE	Commercial	Health	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Health	Refrig	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Health	IntLight	New		26%	21%	16%		26%	21%	16%		12%	9%	7%
SCE	Commercial	Health	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Health	ExtLight	New		26%	21%	16%		26%	21%	16%		12%	9%	7%
SCE	Commercial	Health	Misc	New		0%		0%		0%		0%		0%	5%	0%
SCE	Commercial	Large Office	Cooling	New		16%	13%	10%		16%	13%	10%		8%	6%	5%
SCE	Commercial	Large Office	Heating	New		16%	13%	10%		16%	13%	10%		8%	6%	5%
SCE	Commercial	Large Office	Vent	New		16%	13%	10%		16%	13%	10%		8%	6%	5%
SCE	Commercial	Large Office	WaterHeat	New		16%	13%	10%		16%	13%	10%		8%	6%	5%
SCE	Commercial	Large Office	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Large Office	Refrig	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Large Office	IntLight	New		16%	13%	10%		16%	13%	10%		8%	6%	5%
SCE	Commercial	Large Office	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Large Office	ExtLight	New		16%	13%	10%		16%	13%	10%		8%	6%	5%
SCE	Commercial	Large Office	Misc	New		0%		0%		0%		0%		0%	4%	0%
SCE	Commercial	Lodging	Cooling	New		43%	34%	26%		43%	34%	26%		8%	7%	5%
SCE	Commercial	Lodging	Heating	New		43%	34%	26%		43%	34%	26%		8%	7%	5%
SCE	Commercial	Lodging	Vent	New		43%	34%	26%		43%	34%	26%		8%	7%	5%
SCE	Commercial	Lodging	WaterHeat	New		43%	34%	26%		43%	34%	26%		8%	7%	5%
SCE	Commercial	Lodging	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Lodging	Refrig	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Lodging	IntLight	New		43%	34%	26%		43%	34%	26%		8%	7%	5%
SCE	Commercial	Lodging	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Lodging	ExtLight	New		43%	34%	26%		43%	34%	26%		8%	7%	5%
SCE	Commercial	Lodging	Misc	New		0%		0%		0%		0%		0%	4%	0%
SCE	Commercial	Miscellaneous	Cooling	New		31%	25%	19%		31%	25%	19%		15%	12%	9%
SCE	Commercial	Miscellaneous	Heating	New		31%	25%	19%		31%	25%	19%		15%	12%	9%
SCE	Commercial	Miscellaneous	Vent	New		31%	25%	19%		31%	25%	19%		15%	12%	9%
SCE	Commercial	Miscellaneous	WaterHeat	New		31%	25%	19%		31%	25%	19%		15%	12%	9%
SCE	Commercial	Miscellaneous	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Miscellaneous	Refrig	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Miscellaneous	IntLight	New		31%	25%	19%		31%	25%	19%		15%	12%	9%
SCE	Commercial	Miscellaneous	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Miscellaneous	ExtLight	New		31%	25%	19%		31%	25%	19%		15%	12%	9%
SCE	Commercial	Miscellaneous	Misc	New		0%		0%		0%		0%		0%	2%	0%
SCE	Commercial	Refrigerated Warr	Cooling	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Refrigerated Warr	Heating	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Refrigerated Warr	Vent	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Refrigerated Warr	WaterHeat	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Refrigerated Warr	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Refrigerated Warr	Refrig	New		0%		0%		0%		0%		0%		0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings
SCE	Commercial	Refrigerated Wari	IntLight	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Refrigerated Wari	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Refrigerated Wari	ExtLight	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Refrigerated Wari	Misc	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Restaurant	Cooling	New		31%	25%	19%		5%	4%	3%		25%	20%	15%
SCE	Commercial	Restaurant	Heating	New		31%	25%	19%		5%	4%	3%		25%	20%	15%
SCE	Commercial	Restaurant	Vent	New		31%	25%	19%		5%	4%	3%		25%	20%	15%
SCE	Commercial	Restaurant	WaterHeat	New		31%	25%	19%		5%	4%	3%		25%	20%	15%
SCE	Commercial	Restaurant	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Restaurant	Refrig	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Restaurant	IntLight	New		31%	25%	19%		5%	4%	3%		25%	20%	15%
SCE	Commercial	Restaurant	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Restaurant	ExtLight	New		31%	25%	19%		5%	4%	3%		25%	20%	15%
SCE	Commercial	Restaurant	Misc	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Retail	Cooling	New		27%	21%	16%		27%	21%	16%		12%	10%	7%
SCE	Commercial	Retail	Heating	New		27%	21%	16%		27%	21%	16%		12%	10%	7%
SCE	Commercial	Retail	Vent	New		27%	21%	16%		27%	21%	16%		12%	10%	7%
SCE	Commercial	Retail	WaterHeat	New		27%	21%	16%		27%	21%	16%		12%	10%	7%
SCE	Commercial	Retail	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Retail	Refrig	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Retail	IntLight	New		27%	21%	16%		27%	21%	16%		12%	10%	7%
SCE	Commercial	Retail	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Retail	ExtLight	New		27%	21%	16%		27%	21%	16%		12%	10%	7%
SCE	Commercial	Retail	Misc	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	School	Cooling	New		28%	22%	17%		28%	22%	17%		16%	12%	9%
SCE	Commercial	School	Heating	New		28%	22%	17%		28%	22%	17%		16%	12%	9%
SCE	Commercial	School	Vent	New		28%	22%	17%		28%	22%	17%		16%	12%	9%
SCE	Commercial	School	WaterHeat	New		28%	22%	17%		28%	22%	17%		16%	12%	9%
SCE	Commercial	School	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	School	Refrig	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	School	IntLight	New		28%	22%	17%		28%	22%	17%		16%	12%	9%
SCE	Commercial	School	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	School	ExtLight	New		28%	22%	17%		28%	22%	17%		16%	12%	9%
SCE	Commercial	School	Misc	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Small Office	Cooling	New		35%	28%	21%		35%	28%	21%		19%	15%	11%
SCE	Commercial	Small Office	Heating	New		35%	28%	21%		35%	28%	21%		19%	15%	11%
SCE	Commercial	Small Office	Vent	New		35%	28%	21%		35%	28%	21%		19%	15%	11%
SCE	Commercial	Small Office	WaterHeat	New		35%	28%	21%		35%	28%	21%		19%	15%	11%
SCE	Commercial	Small Office	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Small Office	Refrig	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Small Office	IntLight	New		35%	28%	21%		35%	28%	21%		19%	15%	11%
SCE	Commercial	Small Office	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Small Office	ExtLight	New		35%	28%	21%		35%	28%	21%		19%	15%	11%
SCE	Commercial	Small Office	Misc	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Unrefrigerated W:	Cooling	New		13%	10%	8%		12%	9%	7%		4%	3%	3%
SCE	Commercial	Unrefrigerated W:	Heating	New		13%	10%	8%		12%	9%	7%		4%	3%	3%
SCE	Commercial	Unrefrigerated W:	Vent	New		13%	10%	8%		12%	9%	7%		4%	3%	3%
SCE	Commercial	Unrefrigerated W:	WaterHeat	New		13%	10%	8%		12%	9%	7%		4%	3%	3%
SCE	Commercial	Unrefrigerated W:	Com Cooking	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Unrefrigerated W:	Refrig	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Unrefrigerated W:	IntLight	New		13%	10%	8%		12%	9%	7%		4%	3%	3%
SCE	Commercial	Unrefrigerated W:	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SCE	Commercial	Unrefrigerated W:	ExtLight	New		13%	10%	8%		12%	9%	7%		4%	3%	3%
SCE	Commercial	Unrefrigerated W:	Misc	New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Industrial	Proc Heat	New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Industrial	Proc Cool	New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Industrial	Pumps	New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Industrial	Fans	New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Industrial	Comp Air	New		0%		0%		0%		0%		0%		0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings
SCE	Industrial	Industrial	Proc Drives	New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Industrial	Ind Lighting	New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Industrial	Refrigeration	New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Industrial	Ind Other	New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Ag		0 New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Construction		0 New		0%		0%		0%		0%		0%		0%
SCE	Industrial	Mining		0 New		0%		0%		0%		0%		0%		0%
SCE	Industrial	TCU		0 New		0%		0%		0%		0%		0%		0%
SDG&E	Residential	Single Family	Water Heating	New		24%	19%	14%		20%	16%	12%		13%	11%	8%
SDG&E	Residential	Single Family	Clothes Dryer	New		0%		0%		0%		0%		0%		0%
SDG&E	Residential	Single Family	Other	New		0%		0%		0%		0%		0%		0%
SDG&E	Residential	Single Family	Cooking	New		0%		0%		0%		0%		0%		0%
SDG&E	Residential	Single Family	Refrigerator	New		7%	6%	4%		0%	0%	0%		10%	7%	3%
SDG&E	Residential	Single Family	Freezer	New		0%	0%	0%		0%	0%	0%		20%	14%	7%
SDG&E	Residential	Single Family	Swimming Pool Pump	New		0%		0%		0%		0%		0%		0%
SDG&E	Residential	Single Family	Space Heat	New		24%	19%	14%		20%	16%	12%		13%	11%	8%
SDG&E	Residential	Single Family	Furnace Fan	New		24%	19%	14%		20%	16%	12%		13%	11%	8%
SDG&E	Residential	Single Family	Space Cooling	New		24%	19%	14%		20%	16%	12%		13%	11%	8%
SDG&E	Residential	Single Family	Lighting	New		74%	67%	47%		58%	52%	37%		44%	40%	20%
SDG&E	Residential	Multi Family	Water Heating	New		9%	7%	5%		4%	3%	2%		6%	5%	4%
SDG&E	Residential	Multi Family	Clothes Dryer	New		0%		0%		0%		0%		0%		0%
SDG&E	Residential	Multi Family	Other	New		0%		0%		0%		0%		0%		0%
SDG&E	Residential	Multi Family	Cooking	New		0%		0%		0%		0%		0%		0%
SDG&E	Residential	Multi Family	Refrigerator	New		8%	8%	5%		0%	0%	0%		15%	10%	5%
SDG&E	Residential	Multi Family	Freezer	New		0%	0%	0%		0%	0%	0%		19%	13%	6%
SDG&E	Residential	Multi Family	Swimming Pool Pump	New		0%		0%		0%		0%		0%		0%
SDG&E	Residential	Multi Family	Space Heat	New		9%	7%	5%		4%	3%	2%		6%	5%	4%
SDG&E	Residential	Multi Family	Furnace Fan	New		9%	7%	5%		4%	3%	2%		6%	5%	4%
SDG&E	Residential	Multi Family	Space Cooling	New		9%	7%	5%		4%	3%	2%		6%	5%	4%
SDG&E	Residential	Multi Family	Lighting	New		67%	61%	43%		54%	49%	35%		31%	28%	14%
SDG&E	Commercial	College	Cooling	New		26%	21%	16%		26%	21%	16%		7%	6%	4%
SDG&E	Commercial	College	Heating	New		26%	21%	16%		26%	21%	16%		7%	6%	4%
SDG&E	Commercial	College	Vent	New		26%	21%	16%		26%	21%	16%		7%	6%	4%
SDG&E	Commercial	College	WaterHeat	New		26%	21%	16%		26%	21%	16%		7%	6%	4%
SDG&E	Commercial	College	Com Cooking	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	College	Refrig	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	College	IntLight	New		26%	21%	16%		26%	21%	16%		7%	6%	4%
SDG&E	Commercial	College	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	College	ExtLight	New		26%	21%	16%		26%	21%	16%		7%	6%	4%
SDG&E	Commercial	College	Misc	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	Food Store	Cooling	New		36%	29%	22%		36%	29%	22%		9%	7%	5%
SDG&E	Commercial	Food Store	Heating	New		36%	29%	22%		36%	29%	22%		9%	7%	5%
SDG&E	Commercial	Food Store	Vent	New		36%	29%	22%		36%	29%	22%		9%	7%	5%
SDG&E	Commercial	Food Store	WaterHeat	New		36%	29%	22%		36%	29%	22%		9%	7%	5%
SDG&E	Commercial	Food Store	Com Cooking	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	Food Store	Refrig	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	Food Store	IntLight	New		36%	29%	22%		36%	29%	22%		9%	7%	5%
SDG&E	Commercial	Food Store	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	Food Store	ExtLight	New		36%	29%	22%		36%	29%	22%		9%	7%	5%
SDG&E	Commercial	Food Store	Misc	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	Health	Cooling	New		28%	23%	17%		28%	23%	17%		6%	5%	4%
SDG&E	Commercial	Health	Heating	New		28%	23%	17%		28%	23%	17%		6%	5%	4%
SDG&E	Commercial	Health	Vent	New		28%	23%	17%		28%	23%	17%		6%	5%	4%
SDG&E	Commercial	Health	WaterHeat	New		28%	23%	17%		28%	23%	17%		6%	5%	4%
SDG&E	Commercial	Health	Com Cooking	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	Health	Refrig	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	Health	IntLight	New		28%	23%	17%		28%	23%	17%		6%	5%	4%
SDG&E	Commercial	Health	OfficeEquip	New		0%		0%		0%		0%		0%		0%
SDG&E	Commercial	Health	ExtLight	New		28%	23%	17%		28%	23%	17%		6%	5%	4%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year 2020			Scenario: Economic Savings relative to base year 2020			Scenario: Full Restricted Savings relative to base year 2020			Scenario: Base Restricted Savings relative to base year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SDG&E	Commercial	Health	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Large Office	Cooling	New	12%	9%	7%	12%	9%	7%	5%	4%	3%	4%	3%	2%
SDG&E	Commercial	Large Office	Heating	New	12%	9%	7%	12%	9%	7%	5%	4%	3%	4%	3%	2%
SDG&E	Commercial	Large Office	Vent	New	12%	9%	7%	12%	9%	7%	5%	4%	3%	4%	3%	2%
SDG&E	Commercial	Large Office	WaterHeat	New	12%	9%	7%	12%	9%	7%	5%	4%	3%	4%	3%	2%
SDG&E	Commercial	Large Office	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Large Office	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Large Office	IntLight	New	12%	9%	7%	12%	9%	7%	5%	4%	3%	4%	3%	2%
SDG&E	Commercial	Large Office	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Large Office	ExtLight	New	12%	9%	7%	12%	9%	7%	5%	4%	3%	4%	3%	2%
SDG&E	Commercial	Large Office	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Lodging	Cooling	New	18%	14%	11%	18%	14%	11%	5%	4%	3%	2%	1%	1%
SDG&E	Commercial	Lodging	Heating	New	18%	14%	11%	18%	14%	11%	5%	4%	3%	2%	1%	1%
SDG&E	Commercial	Lodging	Vent	New	18%	14%	11%	18%	14%	11%	5%	4%	3%	2%	1%	1%
SDG&E	Commercial	Lodging	WaterHeat	New	18%	14%	11%	18%	14%	11%	5%	4%	3%	2%	1%	1%
SDG&E	Commercial	Lodging	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Lodging	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Lodging	IntLight	New	18%	14%	11%	18%	14%	11%	5%	4%	3%	2%	1%	1%
SDG&E	Commercial	Lodging	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Lodging	ExtLight	New	18%	14%	11%	18%	14%	11%	5%	4%	3%	2%	1%	1%
SDG&E	Commercial	Lodging	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Miscellaneous	Cooling	New	27%	22%	16%	27%	22%	16%	13%	11%	8%	7%	5%	4%
SDG&E	Commercial	Miscellaneous	Heating	New	27%	22%	16%	27%	22%	16%	13%	11%	8%	7%	5%	4%
SDG&E	Commercial	Miscellaneous	Vent	New	27%	22%	16%	27%	22%	16%	13%	11%	8%	7%	5%	4%
SDG&E	Commercial	Miscellaneous	WaterHeat	New	27%	22%	16%	27%	22%	16%	13%	11%	8%	7%	5%	4%
SDG&E	Commercial	Miscellaneous	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Miscellaneous	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Miscellaneous	IntLight	New	27%	22%	16%	27%	22%	16%	13%	11%	8%	7%	5%	4%
SDG&E	Commercial	Miscellaneous	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Miscellaneous	ExtLight	New	27%	22%	16%	27%	22%	16%	13%	11%	8%	7%	5%	4%
SDG&E	Commercial	Miscellaneous	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Refrigerated Wari	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Refrigerated Wari	Heating	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Refrigerated Wari	Vent	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Refrigerated Wari	WaterHeat	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Refrigerated Wari	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Refrigerated Wari	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Refrigerated Wari	IntLight	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Refrigerated Wari	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Refrigerated Wari	ExtLight	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Refrigerated Wari	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Restaurant	Cooling	New	37%	30%	22%	37%	30%	22%	26%	21%	16%	7%	5%	4%
SDG&E	Commercial	Restaurant	Heating	New	37%	30%	22%	37%	30%	22%	26%	21%	16%	7%	5%	4%
SDG&E	Commercial	Restaurant	Vent	New	37%	30%	22%	37%	30%	22%	26%	21%	16%	7%	5%	4%
SDG&E	Commercial	Restaurant	WaterHeat	New	37%	30%	22%	37%	30%	22%	26%	21%	16%	7%	5%	4%
SDG&E	Commercial	Restaurant	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Restaurant	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Restaurant	IntLight	New	37%	30%	22%	37%	30%	22%	26%	21%	16%	7%	5%	4%
SDG&E	Commercial	Restaurant	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Restaurant	ExtLight	New	37%	30%	22%	37%	30%	22%	26%	21%	16%	7%	5%	4%
SDG&E	Commercial	Restaurant	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Retail	Cooling	New	24%	19%	14%	24%	19%	14%	7%	5%	4%	5%	4%	3%
SDG&E	Commercial	Retail	Heating	New	24%	19%	14%	24%	19%	14%	7%	5%	4%	5%	4%	3%
SDG&E	Commercial	Retail	Vent	New	24%	19%	14%	24%	19%	14%	7%	5%	4%	5%	4%	3%
SDG&E	Commercial	Retail	WaterHeat	New	24%	19%	14%	24%	19%	14%	7%	5%	4%	5%	4%	3%
SDG&E	Commercial	Retail	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Retail	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Retail	IntLight	New	24%	19%	14%	24%	19%	14%	7%	5%	4%	5%	4%	3%
SDG&E	Commercial	Retail	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Name	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020	Low	Year	2020	Low	Year	2020	Low	Year	2020	Low
					High	Mid	Savings	High	Mid	Savings	High	Mid	Savings	High	Mid	Savings
SDG&E	Commercial	Retail	ExtLight	New	24%	19%	14%	24%	19%	14%	7%	5%	4%	5%	4%	3%
SDG&E	Commercial	Retail	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	School	Cooling	New	28%	23%	17%	28%	23%	17%	9%	7%	6%	3%	2%	2%
SDG&E	Commercial	School	Heating	New	28%	23%	17%	28%	23%	17%	9%	7%	6%	3%	2%	2%
SDG&E	Commercial	School	Vent	New	28%	23%	17%	28%	23%	17%	9%	7%	6%	3%	2%	2%
SDG&E	Commercial	School	WaterHeat	New	28%	23%	17%	28%	23%	17%	9%	7%	6%	3%	2%	2%
SDG&E	Commercial	School	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	School	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	School	IntLight	New	28%	23%	17%	28%	23%	17%	9%	7%	6%	3%	2%	2%
SDG&E	Commercial	School	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	School	ExtLight	New	28%	23%	17%	28%	23%	17%	9%	7%	6%	3%	2%	2%
SDG&E	Commercial	School	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Small Office	Cooling	New	40%	32%	24%	40%	32%	24%	17%	13%	10%	12%	10%	7%
SDG&E	Commercial	Small Office	Heating	New	40%	32%	24%	40%	32%	24%	17%	13%	10%	12%	10%	7%
SDG&E	Commercial	Small Office	Vent	New	40%	32%	24%	40%	32%	24%	17%	13%	10%	12%	10%	7%
SDG&E	Commercial	Small Office	WaterHeat	New	40%	32%	24%	40%	32%	24%	17%	13%	10%	12%	10%	7%
SDG&E	Commercial	Small Office	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Small Office	Refrig	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Small Office	IntLight	New	40%	32%	24%	40%	32%	24%	17%	13%	10%	12%	10%	7%
SDG&E	Commercial	Small Office	OfficeEquip	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Small Office	ExtLight	New	40%	32%	24%	40%	32%	24%	17%	13%	10%	12%	10%	7%
SDG&E	Commercial	Small Office	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Unrefrigerated W: Cooling		New	11%	9%	7%	10%	8%	6%	3%	2%	2%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Heating		New	11%	9%	7%	10%	8%	6%	3%	2%	2%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Vent		New	11%	9%	7%	10%	8%	6%	3%	2%	2%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: WaterHeat		New	11%	9%	7%	10%	8%	6%	3%	2%	2%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Com Cooking		New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Unrefrigerated W: Refrig		New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Unrefrigerated W: IntLight		New	11%	9%	7%	10%	8%	6%	3%	2%	2%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: OfficeEquip		New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Commercial	Unrefrigerated W: ExtLight		New	11%	9%	7%	10%	8%	6%	3%	2%	2%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Misc		New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Industrial	Proc Heat	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Industrial	Proc Cool	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Industrial	Pumps	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Industrial	Fans	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Industrial	Comp Air	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Industrial	Proc Drives	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Industrial	Ind Lighting	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Industrial	Refrigeration	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Industrial	Ind Other	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Ag	Ag	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Construction	Construction	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	Mining	Mining	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	TCU	TCU	New	0%		0%	0%		0%	0%		0%	0%		0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					Year	2020	Low	Year	2020	Low	Year	2020	Low	Year	2020	Low
					High	Mid	Savings	High	Mid	Savings	High	Mid	Savings	High	Mid	Savings
PG&E	Residential	Single Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Refrigerator	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Freezer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Space Cooling	Existing	11%	8%	6%	11%	8%	6%	7%	6%	4%	7%	6%	4%
PG&E	Residential	Single Family	Lighting	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Refrigerator	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Freezer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Cooling	Existing	10%	8%	6%	10%	8%	6%	8%	6%	4%	8%	6%	4%
PG&E	Residential	Multi Family	Lighting	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Commercial	Large Office	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warr	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warr	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warr	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warr	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warr	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warr	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warr	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warr	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warr	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warr	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					Year	2020	Low	Year	2020	Low	Year	2020	Low	Year	2020	Low
					High Savings	Mid Savings	Savings	High Savings	Mid Savings	Savings	High Savings	Mid Savings	Savings	High Savings	Mid Savings	Savings
PG&E	Commercial	School	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial		Unrefrigerated W: Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial		Unrefrigerated W: Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial		Unrefrigerated W: Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial		Unrefrigerated W: WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial		Unrefrigerated W: Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial		Unrefrigerated W: Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial		Unrefrigerated W: IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial		Unrefrigerated W: OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial		Unrefrigerated W: ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial		Unrefrigerated W: Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Cool	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Pumps	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Fans	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Comp Air	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Drives	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Lighting	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Refrigeration	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Refrigerator	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Freezer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Space Cooling	Existing	11%	8%	6%	11%	8%	6%	7%	5%	4%	7%	5%	4%
SCE	Residential	Single Family	Lighting	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Refrigerator	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Freezer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Space Cooling	Existing	10%	7%	6%	10%	7%	6%	7%	5%	4%	7%	5%	4%
SCE	Residential	Multi Family	Lighting	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full			Scenario: Big Bold (ASSET) - base			Scenario: Big Bold (C&S) - full			Scenario: Big Bold (C&S) - base		
					Savings relative to base year			Savings relative to base year			Savings relative to base year			Savings relative to base year		
					High	Mid	Low	High	Mid	Low	High	Mid	Low	High	Mid	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SCE	Commercial	Unrefrigerated Wt	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated Wt	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Proc Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Proc Cool	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Pumps	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Fans	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Comp Air	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Proc Drives	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Ind Lighting	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Refrigeration	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Ag		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Refrigerator	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Freezer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Cooling	Existing	13%	10%	8%	13%	10%	8%	9%	7%	5%	9%	7%	5%
SDG&E	Residential	Single Family	Lighting	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Refrigerator	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Freezer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Cooling	Existing	11%	8%	6%	11%	8%	6%	8%	6%	4%	8%	6%	4%
SDG&E	Residential	Multi Family	Lighting	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SDG&E	Commercial	Health	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warr	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warr	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warr	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warr	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warr	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warr	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warr	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warr	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warr	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warr	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings
SDG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W:	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W:	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W:	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W:	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W:	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W:	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W:	IntLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W:	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W:	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W:	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Cool	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Pumps	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Fans	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Comp Air	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Drives	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Lighting	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Refrigeration	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Ag	Ag	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Construction	Construction	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Mining	Mining	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	TCU	TCU	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Water Heating	New	49%	36%	22%	51%	38%	24%	31%	22%	15%	32%	22%	15%
PG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Refrigerator	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Freezer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					2020			2020			2020			2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Residential	Single Family	Space Heat	New	49%	36%	22%	51%	38%	24%	31%	22%	15%	32%	22%	15%
PG&E	Residential	Single Family	Furnace Fan	New	49%	36%	22%	51%	38%	24%	31%	22%	15%	32%	22%	15%
PG&E	Residential	Single Family	Space Cooling	New	49%	36%	22%	51%	38%	24%	31%	22%	15%	32%	22%	15%
PG&E	Residential	Single Family	Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Water Heating	New	52%	39%	25%	53%	40%	26%	30%	21%	15%	30%	22%	16%
PG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Refrigerator	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Freezer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	New	52%	39%	25%	53%	40%	26%	30%	21%	15%	30%	22%	16%
PG&E	Residential	Multi Family	Furnace Fan	New	52%	39%	25%	53%	40%	26%	30%	21%	15%	30%	22%	16%
PG&E	Residential	Multi Family	Space Cooling	New	52%	39%	25%	53%	40%	26%	30%	21%	15%	30%	22%	16%
PG&E	Residential	Multi Family	Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Cooling	New	13%	9%	4%	18%	14%	9%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	College	Heating	New	13%	9%	4%	18%	14%	9%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	College	Vent	New	13%	9%	4%	18%	14%	9%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	College	WaterHeat	New	13%	9%	4%	18%	14%	9%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	IntLight	New	13%	9%	4%	18%	14%	9%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	College	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	ExtLight	New	13%	9%	4%	18%	14%	9%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Cooling	New	15%	10%	6%	18%	14%	9%	8%	5%	4%	8%	5%	4%
PG&E	Commercial	Food Store	Heating	New	15%	10%	6%	18%	14%	9%	8%	5%	4%	8%	5%	4%
PG&E	Commercial	Food Store	Vent	New	15%	10%	6%	18%	14%	9%	8%	5%	4%	8%	5%	4%
PG&E	Commercial	Food Store	WaterHeat	New	15%	10%	6%	18%	14%	9%	8%	5%	4%	8%	5%	4%
PG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	IntLight	New	15%	10%	6%	18%	14%	9%	8%	5%	4%	8%	5%	4%
PG&E	Commercial	Food Store	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	ExtLight	New	15%	10%	6%	18%	14%	9%	8%	5%	4%	8%	5%	4%
PG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	New	17%	13%	8%	20%	16%	11%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Health	Heating	New	17%	13%	8%	20%	16%	11%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Health	Vent	New	17%	13%	8%	20%	16%	11%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Health	WaterHeat	New	17%	13%	8%	20%	16%	11%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	IntLight	New	17%	13%	8%	20%	16%	11%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Health	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	ExtLight	New	17%	13%	8%	20%	16%	11%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	New	18%	14%	9%	19%	14%	10%	9%	5%	4%	9%	6%	4%
PG&E	Commercial	Large Office	Heating	New	18%	14%	9%	19%	14%	10%	9%	5%	4%	9%	6%	4%
PG&E	Commercial	Large Office	Vent	New	18%	14%	9%	19%	14%	10%	9%	5%	4%	9%	6%	4%
PG&E	Commercial	Large Office	WaterHeat	New	18%	14%	9%	19%	14%	10%	9%	5%	4%	9%	6%	4%
PG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	IntLight	New	18%	14%	9%	19%	14%	10%	9%	5%	4%	9%	6%	4%
PG&E	Commercial	Large Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	ExtLight	New	18%	14%	9%	19%	14%	10%	9%	5%	4%	9%	6%	4%
PG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	New	11%	7%	2%	13%	9%	4%	8%	4%	3%	8%	5%	3%
PG&E	Commercial	Lodging	Heating	New	11%	7%	2%	13%	9%	4%	8%	4%	3%	8%	5%	3%
PG&E	Commercial	Lodging	Vent	New	11%	7%	2%	13%	9%	4%	8%	4%	3%	8%	5%	3%
PG&E	Commercial	Lodging	WaterHeat	New	11%	7%	2%	13%	9%	4%	8%	4%	3%	8%	5%	3%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	IntLight	New	11%	7%	2%	13%	9%	4%	8%	4%	3%	8%	5%	3%
PG&E	Commercial	Lodging	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	ExtLight	New	11%	7%	2%	13%	9%	4%	8%	4%	3%	8%	5%	3%
PG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	New	13%	8%	4%	18%	14%	9%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Miscellaneous	Heating	New	13%	8%	4%	18%	14%	9%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Miscellaneous	Vent	New	13%	8%	4%	18%	14%	9%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Miscellaneous	WaterHeat	New	13%	8%	4%	18%	14%	9%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	IntLight	New	13%	8%	4%	18%	14%	9%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Miscellaneous	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	ExtLight	New	13%	8%	4%	18%	14%	9%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Ware	Cooling	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
PG&E	Commercial	Refrigerated Ware	Heating	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
PG&E	Commercial	Refrigerated Ware	Vent	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
PG&E	Commercial	Refrigerated Ware	WaterHeat	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
PG&E	Commercial	Refrigerated Ware	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Ware	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Ware	IntLight	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
PG&E	Commercial	Refrigerated Ware	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Ware	ExtLight	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
PG&E	Commercial	Refrigerated Ware	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	New	13%	9%	4%	20%	15%	11%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Restaurant	Heating	New	13%	9%	4%	20%	15%	11%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Restaurant	Vent	New	13%	9%	4%	20%	15%	11%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Restaurant	WaterHeat	New	13%	9%	4%	20%	15%	11%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	IntLight	New	13%	9%	4%	20%	15%	11%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Restaurant	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	ExtLight	New	13%	9%	4%	20%	15%	11%	8%	4%	3%	9%	5%	4%
PG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	New	14%	9%	5%	19%	14%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Retail	Heating	New	14%	9%	5%	19%	14%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Retail	Vent	New	14%	9%	5%	19%	14%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Retail	WaterHeat	New	14%	9%	5%	19%	14%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	IntLight	New	14%	9%	5%	19%	14%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Retail	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	ExtLight	New	14%	9%	5%	19%	14%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Cooling	New	11%	7%	2%	20%	15%	11%	7%	4%	3%	9%	5%	4%
PG&E	Commercial	School	Heating	New	11%	7%	2%	20%	15%	11%	7%	4%	3%	9%	5%	4%
PG&E	Commercial	School	Vent	New	11%	7%	2%	20%	15%	11%	7%	4%	3%	9%	5%	4%
PG&E	Commercial	School	WaterHeat	New	11%	7%	2%	20%	15%	11%	7%	4%	3%	9%	5%	4%
PG&E	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	IntLight	New	11%	7%	2%	20%	15%	11%	7%	4%	3%	9%	5%	4%
PG&E	Commercial	School	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	ExtLight	New	11%	7%	2%	20%	15%	11%	7%	4%	3%	9%	5%	4%
PG&E	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	New	17%	12%	8%	19%	15%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Small Office	Heating	New	17%	12%	8%	19%	15%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Small Office	Vent	New	17%	12%	8%	19%	15%	10%	8%	5%	4%	9%	5%	4%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Commercial	Small Office	WaterHeat	New	17%	12%	8%	19%	15%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	IntLight	New	17%	12%	8%	19%	15%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Small Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	ExtLight	New	17%	12%	8%	19%	15%	10%	8%	5%	4%	9%	5%	4%
PG&E	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Cooling	New	20%	16%	11%	21%	16%	12%	9%	5%	4%	9%	5%	5%
PG&E	Commercial	Unrefrigerated W:	Heating	New	20%	16%	11%	21%	16%	12%	9%	5%	4%	9%	5%	5%
PG&E	Commercial	Unrefrigerated W:	Vent	New	20%	16%	11%	21%	16%	12%	9%	5%	4%	9%	5%	5%
PG&E	Commercial	Unrefrigerated W:	WaterHeat	New	20%	16%	11%	21%	16%	12%	9%	5%	4%	9%	5%	5%
PG&E	Commercial	Unrefrigerated W:	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	IntLight	New	20%	16%	11%	21%	16%	12%	9%	5%	4%	9%	5%	5%
PG&E	Commercial	Unrefrigerated W:	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	ExtLight	New	20%	16%	11%	21%	16%	12%	9%	5%	4%	9%	5%	5%
PG&E	Commercial	Unrefrigerated W:	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Cool	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Pumps	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Fans	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Comp Air	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Drives	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Refrigeration	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Water Heating	New	49%	36%	22%	51%	38%	24%	32%	22%	15%	32%	22%	15%
SCE	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Refrigerator	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Freezer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Space Heat	New	49%	36%	22%	51%	38%	24%	32%	22%	15%	32%	22%	15%
SCE	Residential	Single Family	Furnace Fan	New	49%	36%	22%	51%	38%	24%	32%	22%	15%	32%	22%	15%
SCE	Residential	Single Family	Space Cooling	New	49%	36%	22%	51%	38%	24%	32%	22%	15%	32%	22%	15%
SCE	Residential	Single Family	Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Water Heating	New	49%	36%	22%	52%	39%	25%	30%	21%	15%	30%	22%	16%
SCE	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Refrigerator	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Freezer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Space Heat	New	49%	36%	22%	52%	39%	25%	30%	21%	15%	30%	22%	16%
SCE	Residential	Multi Family	Furnace Fan	New	49%	36%	22%	52%	39%	25%	30%	21%	15%	30%	22%	16%
SCE	Residential	Multi Family	Space Cooling	New	49%	36%	22%	52%	39%	25%	30%	21%	15%	30%	22%	16%
SCE	Residential	Multi Family	Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Cooling	New	12%	7%	3%	19%	14%	10%	8%	4%	3%	9%	5%	4%
SCE	Commercial	College	Heating	New	12%	7%	3%	19%	14%	10%	8%	4%	3%	9%	5%	4%
SCE	Commercial	College	Vent	New	12%	7%	3%	19%	14%	10%	8%	4%	3%	9%	5%	4%
SCE	Commercial	College	WaterHeat	New	12%	7%	3%	19%	14%	10%	8%	4%	3%	9%	5%	4%
SCE	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	IntLight	New	12%	7%	3%	19%	14%	10%	8%	4%	3%	9%	5%	4%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	College	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	ExtLight	New	12%	7%	3%	19%	14%	10%	8%	4%	3%	9%	5%	4%
SCE	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Cooling	New	9%	4%	0%	13%	9%	4%	7%	4%	3%	8%	4%	3%
SCE	Commercial	Food Store	Heating	New	9%	4%	0%	13%	9%	4%	7%	4%	3%	8%	4%	3%
SCE	Commercial	Food Store	Vent	New	9%	4%	0%	13%	9%	4%	7%	4%	3%	8%	4%	3%
SCE	Commercial	Food Store	WaterHeat	New	9%	4%	0%	13%	9%	4%	7%	4%	3%	8%	4%	3%
SCE	Commercial	Food Store	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	IntLight	New	9%	4%	0%	13%	9%	4%	7%	4%	3%	8%	4%	3%
SCE	Commercial	Food Store	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	ExtLight	New	9%	4%	0%	13%	9%	4%	7%	4%	3%	8%	4%	3%
SCE	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Cooling	New	12%	7%	3%	16%	12%	7%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Health	Heating	New	12%	7%	3%	16%	12%	7%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Health	Vent	New	12%	7%	3%	16%	12%	7%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Health	WaterHeat	New	12%	7%	3%	16%	12%	7%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Health	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	IntLight	New	12%	7%	3%	16%	12%	7%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Health	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	ExtLight	New	12%	7%	3%	16%	12%	7%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Cooling	New	15%	10%	6%	17%	13%	8%	8%	5%	4%	9%	5%	4%
SCE	Commercial	Large Office	Heating	New	15%	10%	6%	17%	13%	8%	8%	5%	4%	9%	5%	4%
SCE	Commercial	Large Office	Vent	New	15%	10%	6%	17%	13%	8%	8%	5%	4%	9%	5%	4%
SCE	Commercial	Large Office	WaterHeat	New	15%	10%	6%	17%	13%	8%	8%	5%	4%	9%	5%	4%
SCE	Commercial	Large Office	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	IntLight	New	15%	10%	6%	17%	13%	8%	8%	5%	4%	9%	5%	4%
SCE	Commercial	Large Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	ExtLight	New	15%	10%	6%	17%	13%	8%	8%	5%	4%	9%	5%	4%
SCE	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Cooling	New	14%	10%	5%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SCE	Commercial	Lodging	Heating	New	14%	10%	5%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SCE	Commercial	Lodging	Vent	New	14%	10%	5%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SCE	Commercial	Lodging	WaterHeat	New	14%	10%	5%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SCE	Commercial	Lodging	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	IntLight	New	14%	10%	5%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SCE	Commercial	Lodging	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	ExtLight	New	14%	10%	5%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SCE	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Cooling	New	9%	4%	0%	19%	14%	10%	7%	4%	3%	9%	5%	4%
SCE	Commercial	Miscellaneous	Heating	New	9%	4%	0%	19%	14%	10%	7%	4%	3%	9%	5%	4%
SCE	Commercial	Miscellaneous	Vent	New	9%	4%	0%	19%	14%	10%	7%	4%	3%	9%	5%	4%
SCE	Commercial	Miscellaneous	WaterHeat	New	9%	4%	0%	19%	14%	10%	7%	4%	3%	9%	5%	4%
SCE	Commercial	Miscellaneous	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	IntLight	New	9%	4%	0%	19%	14%	10%	7%	4%	3%	9%	5%	4%
SCE	Commercial	Miscellaneous	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	ExtLight	New	9%	4%	0%	19%	14%	10%	7%	4%	3%	9%	5%	4%
SCE	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Wareh	Cooling	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SCE	Commercial	Refrigerated Wareh	Heating	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SCE	Commercial	Refrigerated Wareh	Vent	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SCE	Commercial	Refrigerated Wareh	WaterHeat	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SCE	Commercial	Refrigerated Wareh	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Wareh	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					Year			Year			Year			Year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	Refrigerated Warr	IntLight	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SCE	Commercial	Refrigerated Warr	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	ExtLight	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SCE	Commercial	Refrigerated Warr	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Cooling	New	1%	0%	0%	13%	8%	4%	6%	3%	2%	8%	4%	3%
SCE	Commercial	Restaurant	Heating	New	1%	0%	0%	13%	8%	4%	6%	3%	2%	8%	4%	3%
SCE	Commercial	Restaurant	Vent	New	1%	0%	0%	13%	8%	4%	6%	3%	2%	8%	4%	3%
SCE	Commercial	Restaurant	WaterHeat	New	1%	0%	0%	13%	8%	4%	6%	3%	2%	8%	4%	3%
SCE	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	IntLight	New	1%	0%	0%	13%	8%	4%	6%	3%	2%	8%	4%	3%
SCE	Commercial	Restaurant	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	ExtLight	New	1%	0%	0%	13%	8%	4%	6%	3%	2%	8%	4%	3%
SCE	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Cooling	New	11%	7%	2%	15%	10%	6%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Retail	Heating	New	11%	7%	2%	15%	10%	6%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Retail	Vent	New	11%	7%	2%	15%	10%	6%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Retail	WaterHeat	New	11%	7%	2%	15%	10%	6%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	IntLight	New	11%	7%	2%	15%	10%	6%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Retail	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	ExtLight	New	11%	7%	2%	15%	10%	6%	8%	4%	3%	8%	5%	4%
SCE	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Cooling	New	9%	4%	0%	20%	15%	11%	7%	4%	3%	9%	5%	4%
SCE	Commercial	School	Heating	New	9%	4%	0%	20%	15%	11%	7%	4%	3%	9%	5%	4%
SCE	Commercial	School	Vent	New	9%	4%	0%	20%	15%	11%	7%	4%	3%	9%	5%	4%
SCE	Commercial	School	WaterHeat	New	9%	4%	0%	20%	15%	11%	7%	4%	3%	9%	5%	4%
SCE	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	IntLight	New	9%	4%	0%	20%	15%	11%	7%	4%	3%	9%	5%	4%
SCE	Commercial	School	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	ExtLight	New	9%	4%	0%	20%	15%	11%	7%	4%	3%	9%	5%	4%
SCE	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Cooling	New	6%	2%	0%	16%	11%	7%	7%	3%	2%	8%	5%	4%
SCE	Commercial	Small Office	Heating	New	6%	2%	0%	16%	11%	7%	7%	3%	2%	8%	5%	4%
SCE	Commercial	Small Office	Vent	New	6%	2%	0%	16%	11%	7%	7%	3%	2%	8%	5%	4%
SCE	Commercial	Small Office	WaterHeat	New	6%	2%	0%	16%	11%	7%	7%	3%	2%	8%	5%	4%
SCE	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	IntLight	New	6%	2%	0%	16%	11%	7%	7%	3%	2%	8%	5%	4%
SCE	Commercial	Small Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	ExtLight	New	6%	2%	0%	16%	11%	7%	7%	3%	2%	8%	5%	4%
SCE	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Cooling	New	18%	13%	9%	21%	16%	12%	9%	5%	4%	9%	6%	5%
SCE	Commercial	Unrefrigerated W:	Heating	New	18%	13%	9%	21%	16%	12%	9%	5%	4%	9%	6%	5%
SCE	Commercial	Unrefrigerated W:	Vent	New	18%	13%	9%	21%	16%	12%	9%	5%	4%	9%	6%	5%
SCE	Commercial	Unrefrigerated W:	WaterHeat	New	18%	13%	9%	21%	16%	12%	9%	5%	4%	9%	6%	5%
SCE	Commercial	Unrefrigerated W:	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	IntLight	New	18%	13%	9%	21%	16%	12%	9%	5%	4%	9%	6%	5%
SCE	Commercial	Unrefrigerated W:	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	ExtLight	New	18%	13%	9%	21%	16%	12%	9%	5%	4%	9%	6%	5%
SCE	Commercial	Unrefrigerated W:	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Proc Cool	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Pumps	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Fans	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Comp Air	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Industrial	Industrial	Proc Drives	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Ind Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Refrigeration	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Ag		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Construction		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Mining		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	TCU		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	New	42%	29%	15%	47%	34%	20%	31%	21%	14%	31%	22%	15%
SDG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Refrigerator	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Freezer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	New	42%	29%	15%	47%	34%	20%	31%	21%	14%	31%	22%	15%
SDG&E	Residential	Single Family	Furnace Fan	New	42%	29%	15%	47%	34%	20%	31%	21%	14%	31%	22%	15%
SDG&E	Residential	Single Family	Space Cooling	New	42%	29%	15%	47%	34%	20%	31%	21%	14%	31%	22%	15%
SDG&E	Residential	Single Family	Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Water Heating	New	48%	35%	21%	51%	38%	24%	30%	21%	15%	30%	21%	15%
SDG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Refrigerator	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Freezer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	New	48%	35%	21%	51%	38%	24%	30%	21%	15%	30%	21%	15%
SDG&E	Residential	Multi Family	Furnace Fan	New	48%	35%	21%	51%	38%	24%	30%	21%	15%	30%	21%	15%
SDG&E	Residential	Multi Family	Space Cooling	New	48%	35%	21%	51%	38%	24%	30%	21%	15%	30%	21%	15%
SDG&E	Residential	Multi Family	Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Cooling	New	15%	11%	6%	18%	14%	9%	9%	5%	4%	9%	6%	4%
SDG&E	Commercial	College	Heating	New	15%	11%	6%	18%	14%	9%	9%	5%	4%	9%	6%	4%
SDG&E	Commercial	College	Vent	New	15%	11%	6%	18%	14%	9%	9%	5%	4%	9%	6%	4%
SDG&E	Commercial	College	WaterHeat	New	15%	11%	6%	18%	14%	9%	9%	5%	4%	9%	6%	4%
SDG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	InttLight	New	15%	11%	6%	18%	14%	9%	9%	5%	4%	9%	6%	4%
SDG&E	Commercial	College	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	ExttLight	New	15%	11%	6%	18%	14%	9%	9%	5%	4%	9%	6%	4%
SDG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	New	14%	9%	5%	16%	12%	7%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Food Store	Heating	New	14%	9%	5%	16%	12%	7%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Food Store	Vent	New	14%	9%	5%	16%	12%	7%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Food Store	WaterHeat	New	14%	9%	5%	16%	12%	7%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	InttLight	New	14%	9%	5%	16%	12%	7%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Food Store	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	ExttLight	New	14%	9%	5%	16%	12%	7%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	New	16%	12%	7%	18%	14%	9%	8%	5%	4%	9%	5%	4%
SDG&E	Commercial	Health	Heating	New	16%	12%	7%	18%	14%	9%	8%	5%	4%	9%	5%	4%
SDG&E	Commercial	Health	Vent	New	16%	12%	7%	18%	14%	9%	8%	5%	4%	9%	5%	4%
SDG&E	Commercial	Health	WaterHeat	New	16%	12%	7%	18%	14%	9%	8%	5%	4%	9%	5%	4%
SDG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	InttLight	New	16%	12%	7%	18%	14%	9%	8%	5%	4%	9%	5%	4%
SDG&E	Commercial	Health	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	ExttLight	New	16%	12%	7%	18%	14%	9%	8%	5%	4%	9%	5%	4%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Year	Scenario: Big Bold (ASSET) - full Savings relative to base year			Scenario: Big Bold (ASSET) - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SDG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	New	17%	13%	8%	18%	14%	9%	9%	5%	4%	9%	5%	4%
SDG&E	Commercial	Large Office	Heating	New	17%	13%	8%	18%	14%	9%	9%	5%	4%	9%	5%	4%
SDG&E	Commercial	Large Office	Vent	New	17%	13%	8%	18%	14%	9%	9%	5%	4%	9%	5%	4%
SDG&E	Commercial	Large Office	WaterHeat	New	17%	13%	8%	18%	14%	9%	9%	5%	4%	9%	5%	4%
SDG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	IntLight	New	17%	13%	8%	18%	14%	9%	9%	5%	4%	9%	5%	4%
SDG&E	Commercial	Large Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	ExtLight	New	17%	13%	8%	18%	14%	9%	9%	5%	4%	9%	5%	4%
SDG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	New	17%	13%	8%	20%	15%	11%	9%	5%	4%	9%	6%	5%
SDG&E	Commercial	Lodging	Heating	New	17%	13%	8%	20%	15%	11%	9%	5%	4%	9%	6%	5%
SDG&E	Commercial	Lodging	Vent	New	17%	13%	8%	20%	15%	11%	9%	5%	4%	9%	6%	5%
SDG&E	Commercial	Lodging	WaterHeat	New	17%	13%	8%	20%	15%	11%	9%	5%	4%	9%	6%	5%
SDG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	IntLight	New	17%	13%	8%	20%	15%	11%	9%	5%	4%	9%	6%	5%
SDG&E	Commercial	Lodging	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	ExtLight	New	17%	13%	8%	20%	15%	11%	9%	5%	4%	9%	6%	5%
SDG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	New	10%	6%	1%	16%	11%	7%	7%	4%	3%	8%	5%	4%
SDG&E	Commercial	Miscellaneous	Heating	New	10%	6%	1%	16%	11%	7%	7%	4%	3%	8%	5%	4%
SDG&E	Commercial	Miscellaneous	Vent	New	10%	6%	1%	16%	11%	7%	7%	4%	3%	8%	5%	4%
SDG&E	Commercial	Miscellaneous	WaterHeat	New	10%	6%	1%	16%	11%	7%	7%	4%	3%	8%	5%	4%
SDG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	IntLight	New	10%	6%	1%	16%	11%	7%	7%	4%	3%	8%	5%	4%
SDG&E	Commercial	Miscellaneous	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	ExtLight	New	10%	6%	1%	16%	11%	7%	7%	4%	3%	8%	5%	4%
SDG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Ware	Cooling	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SDG&E	Commercial	Refrigerated Ware	Heating	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SDG&E	Commercial	Refrigerated Ware	Vent	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SDG&E	Commercial	Refrigerated Ware	WaterHeat	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SDG&E	Commercial	Refrigerated Ware	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Ware	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Ware	IntLight	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SDG&E	Commercial	Refrigerated Ware	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Ware	ExtLight	New	21%	17%	12%	21%	17%	12%	9%	6%	5%	9%	6%	5%
SDG&E	Commercial	Refrigerated Ware	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	New	0%	0%	0%	16%	11%	7%	6%	3%	2%	8%	5%	4%
SDG&E	Commercial	Restaurant	Heating	New	0%	0%	0%	16%	11%	7%	6%	3%	2%	8%	5%	4%
SDG&E	Commercial	Restaurant	Vent	New	0%	0%	0%	16%	11%	7%	6%	3%	2%	8%	5%	4%
SDG&E	Commercial	Restaurant	WaterHeat	New	0%	0%	0%	16%	11%	7%	6%	3%	2%	8%	5%	4%
SDG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	IntLight	New	0%	0%	0%	16%	11%	7%	6%	3%	2%	8%	5%	4%
SDG&E	Commercial	Restaurant	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	ExtLight	New	0%	0%	0%	16%	11%	7%	6%	3%	2%	8%	5%	4%
SDG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	New	16%	11%	7%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Retail	Heating	New	16%	11%	7%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Retail	Vent	New	16%	11%	7%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Retail	WaterHeat	New	16%	11%	7%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	IntLight	New	16%	11%	7%	17%	13%	8%	8%	5%	4%	8%	5%	4%
SDG&E	Commercial	Retail	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold (ASSET) - full			Scenario: Big Bold (ASSET) - base			Scenario: Big Bold (C&S) - full			Scenario: Big Bold (C&S) - base		
					Savings relative to base year			Savings relative to base year			Savings relative to base year			Savings relative to base year		
					Year	2020	High	Year	2020	High	Year	2020	High	Year	2020	High
							Savings			Savings			Savings			Savings
SDG&E	Commercial	Retail	ExtLight	New			16%			17%			8%			8%
SDG&E	Commercial	Retail	Misc	New			0%			0%			0%			0%
SDG&E	Commercial	School	Cooling	New			14%			19%			8%			9%
SDG&E	Commercial	School	Heating	New			14%			19%			8%			9%
SDG&E	Commercial	School	Vent	New			14%			19%			8%			9%
SDG&E	Commercial	School	WaterHeat	New			14%			19%			8%			9%
SDG&E	Commercial	School	Com Cooking	New			0%			0%			0%			0%
SDG&E	Commercial	School	Refrig	New			0%			0%			0%			0%
SDG&E	Commercial	School	IntLight	New			14%			19%			8%			9%
SDG&E	Commercial	School	OfficeEquip	New			0%			0%			0%			0%
SDG&E	Commercial	School	ExtLight	New			14%			19%			8%			9%
SDG&E	Commercial	School	Misc	New			0%			0%			0%			0%
SDG&E	Commercial	Small Office	Cooling	New			8%			11%			7%			8%
SDG&E	Commercial	Small Office	Heating	New			8%			11%			7%			8%
SDG&E	Commercial	Small Office	Vent	New			8%			11%			7%			8%
SDG&E	Commercial	Small Office	WaterHeat	New			8%			11%			7%			8%
SDG&E	Commercial	Small Office	Com Cooking	New			0%			0%			0%			0%
SDG&E	Commercial	Small Office	Refrig	New			0%			0%			0%			0%
SDG&E	Commercial	Small Office	IntLight	New			8%			11%			7%			8%
SDG&E	Commercial	Small Office	OfficeEquip	New			0%			0%			0%			0%
SDG&E	Commercial	Small Office	ExtLight	New			8%			11%			7%			8%
SDG&E	Commercial	Small Office	Misc	New			0%			0%			0%			0%
SDG&E	Commercial	Unrefrigerated W:	Cooling	New			19%			21%			9%			9%
SDG&E	Commercial	Unrefrigerated W:	Heating	New			19%			21%			9%			9%
SDG&E	Commercial	Unrefrigerated W:	Vent	New			19%			21%			9%			9%
SDG&E	Commercial	Unrefrigerated W:	WaterHeat	New			19%			21%			9%			9%
SDG&E	Commercial	Unrefrigerated W:	Com Cooking	New			0%			0%			0%			0%
SDG&E	Commercial	Unrefrigerated W:	Refrig	New			0%			0%			0%			0%
SDG&E	Commercial	Unrefrigerated W:	IntLight	New			19%			21%			9%			9%
SDG&E	Commercial	Unrefrigerated W:	OfficeEquip	New			0%			0%			0%			0%
SDG&E	Commercial	Unrefrigerated W:	ExtLight	New			19%			21%			9%			9%
SDG&E	Commercial	Unrefrigerated W:	Misc	New			0%			0%			0%			0%
SDG&E	Industrial	Industrial	Proc Heat	New			0%			0%			0%			0%
SDG&E	Industrial	Industrial	Proc Cool	New			0%			0%			0%			0%
SDG&E	Industrial	Industrial	Pumps	New			0%			0%			0%			0%
SDG&E	Industrial	Industrial	Fans	New			0%			0%			0%			0%
SDG&E	Industrial	Industrial	Comp Air	New			0%			0%			0%			0%
SDG&E	Industrial	Industrial	Proc Drives	New			0%			0%			0%			0%
SDG&E	Industrial	Industrial	Ind Lighting	New			0%			0%			0%			0%
SDG&E	Industrial	Industrial	Refrigeration	New			0%			0%			0%			0%
SDG&E	Industrial	Industrial	Ind Other	New			0%			0%			0%			0%
SDG&E	Industrial	Ag	Ag	New			0%			0%			0%			0%
SDG&E	Industrial	Construction	Construction	New			0%			0%			0%			0%
SDG&E	Industrial	Mining	Mining	New			0%			0%			0%			0%
SDG&E	Industrial	TCU	TCU	New			0%			0%			0%			0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings	Year	High Savings	Mid Savings	Low Savings
PG&E	Residential	Single Family	Water Heating	Existing		10%	9%	7%		9%	8%	6%		0%	0%	0%
PG&E	Residential	Single Family	Clothes Dryer	Existing		0%	0%	0%		0%	0%	0%		3%	3%	2%
PG&E	Residential	Single Family	Other	Existing		0%	0%	0%		0%	0%	0%		1%	1%	1%
PG&E	Residential	Single Family	Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Refrigerator	Existing		4%	3%	1%		3%	2%	1%		0%	0%	0%
PG&E	Residential	Single Family	Freezer	Existing		4%	3%	1%		3%	2%	1%		0%	0%	0%
PG&E	Residential	Single Family	Swimming Pool Pump	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Space Heat	Existing		22%	18%	15%		18%	15%	12%		0%	0%	0%
PG&E	Residential	Single Family	Furnace Fan	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Single Family	Space Cooling	Existing		11%	9%	7%		9%	7%	5%		5%	3%	3%
PG&E	Residential	Single Family	Lighting	Existing		34%	31%	13%		22%	15%	9%		19%	19%	14%
PG&E	Residential	Multi Family	Water Heating	Existing		1%	1%	1%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Clothes Dryer	Existing		0%	0%	0%		0%	0%	0%		3%	3%	2%
PG&E	Residential	Multi Family	Other	Existing		0%	0%	0%		0%	0%	0%		1%	1%	0%
PG&E	Residential	Multi Family	Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Refrigerator	Existing		7%	5%	2%		4%	3%	1%		0%	0%	0%
PG&E	Residential	Multi Family	Freezer	Existing		4%	3%	1%		3%	2%	1%		0%	0%	0%
PG&E	Residential	Multi Family	Swimming Pool Pump	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	Existing		7%	6%	5%		5%	4%	3%		0%	0%	0%
PG&E	Residential	Multi Family	Furnace Fan	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Space Cooling	Existing		10%	8%	6%		7%	6%	4%		4%	3%	2%
PG&E	Residential	Multi Family	Lighting	Existing		27%	25%	11%		18%	12%	7%		25%	25%	19%
PG&E	Commercial	College	Cooling	Existing		21%	18%	11%		15%	12%	7%		0%	0%	0%
PG&E	Commercial	College	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	College	Vent	Existing		6%	6%	4%		6%	5%	4%		0%	0%	0%
PG&E	Commercial	College	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	College	Com Cooking	Existing		2%	2%	2%		2%	2%	1%		0%	0%	0%
PG&E	Commercial	College	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	College	IntLight	Existing		26%	22%	18%		21%	18%	14%		3%	3%	2%
PG&E	Commercial	College	OfficeEquip	Existing		2%	1%	1%		1%	1%	1%		0%	0%	0%
PG&E	Commercial	College	ExtLight	Existing		3%	2%	2%		2%	2%	1%		0%	0%	0%
PG&E	Commercial	College	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	Cooling	Existing		10%	9%	5%		8%	6%	4%		0%	0%	0%
PG&E	Commercial	Food Store	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	Vent	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	Com Cooking	Existing		15%	13%	11%		13%	12%	10%		0%	0%	0%
PG&E	Commercial	Food Store	Refrig	Existing		20%	18%	15%		17%	15%	12%		0%	0%	0%
PG&E	Commercial	Food Store	IntLight	Existing		9%	8%	6%		7%	6%	5%		17%	17%	13%
PG&E	Commercial	Food Store	OfficeEquip	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	ExtLight	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	Cooling	Existing		17%	14%	9%		13%	11%	7%		0%	0%	0%
PG&E	Commercial	Health	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	Vent	Existing		5%	4%	3%		4%	4%	3%		0%	0%	0%
PG&E	Commercial	Health	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	Com Cooking	Existing		4%	3%	3%		3%	3%	2%		0%	0%	0%
PG&E	Commercial	Health	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	IntLight	Existing		18%	15%	12%		15%	12%	10%		10%	10%	7%
PG&E	Commercial	Health	OfficeEquip	Existing		1%	1%	0%		1%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	ExtLight	Existing		1%	1%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	Cooling	Existing		14%	12%	7%		8%	6%	4%		0%	0%	0%
PG&E	Commercial	Large Office	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	Vent	Existing		10%	10%	8%		8%	8%	6%		0%	0%	0%
PG&E	Commercial	Large Office	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	Com Cooking	Existing		5%	5%	4%		3%	3%	2%		0%	0%	0%
PG&E	Commercial	Large Office	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	IntLight	Existing		14%	11%	9%		7%	6%	5%		14%	14%	10%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year 2020			Year 2020			Year 2020			Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Commercial	Large Office	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	Existing	28%	24%	14%	17%	14%	8%	3%	2%	2%	3%	2%	2%
PG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Vent	Existing	2%	2%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Com Cooking	Existing	3%	3%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	IntLight	Existing	23%	19%	15%	16%	13%	10%	6%	6%	4%	12%	12%	9%
PG&E	Commercial	Lodging	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	ExtLight	Existing	5%	4%	3%	2%	2%	2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	Existing	16%	14%	8%	12%	10%	6%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Vent	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Com Cooking	Existing	5%	4%	3%	4%	3%	3%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	IntLight	Existing	18%	15%	12%	15%	12%	10%	10%	10%	7%	13%	13%	10%
PG&E	Commercial	Miscellaneous	OfficeEquip	Existing	1%	1%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Cooling	Existing	16%	14%	8%	10%	8%	5%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Vent	Existing	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Com Cooking	Existing	4%	3%	3%	3%	3%	2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Refrig	Existing	10%	9%	7%	8%	8%	6%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	IntLight	Existing	17%	14%	11%	14%	12%	9%	11%	11%	8%	13%	13%	10%
PG&E	Commercial	Refrigerated War	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	Existing	7%	6%	3%	5%	4%	2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Com Cooking	Existing	4%	4%	3%	4%	3%	3%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Refrig	Existing	15%	14%	11%	15%	13%	11%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	IntLight	Existing	17%	14%	11%	14%	12%	9%	11%	11%	8%	13%	13%	10%
PG&E	Commercial	Restaurant	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	ExtLight	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	Existing	14%	11%	7%	9%	8%	5%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Vent	Existing	2%	2%	2%	2%	2%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Com Cooking	Existing	8%	7%	6%	7%	6%	5%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	IntLight	Existing	14%	12%	10%	11%	9%	7%	13%	13%	10%	16%	16%	12%
PG&E	Commercial	Retail	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	ExtLight	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Cooling	Existing	28%	23%	14%	19%	16%	10%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Vent	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Com Cooking	Existing	9%	8%	7%	7%	6%	5%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year			Year			Year			Year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Commercial	School	IntLight	Existing	22%	18%	15%	16%	14%	11%	7%	7%	5%	11%	11%	9%
PG&E	Commercial	School	OfficeEquip	Existing	2%	2%	1%	2%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	Existing	13%	11%	7%	9%	8%	5%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	Existing	2%	2%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	IntLight	Existing	16%	13%	11%	12%	10%	8%	12%	12%	9%	15%	15%	11%
PG&E	Commercial	Small Office	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	ExtLight	Existing	9%	8%	6%	7%	6%	5%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Cooling		Existing	12%	10%	6%	8%	7%	4%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Heating		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Vent		Existing	4%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: WaterHeat		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Com Cooking		Existing	4%	3%	3%	3%	3%	2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Refrig		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: IntLight		Existing	19%	16%	13%	16%	13%	11%	9%	9%	7%	12%	12%	9%
PG&E	Commercial	Unrefrigerated W: OfficeEquip		Existing	1%	1%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: ExtLight		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Misc		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	Existing	3%	2%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Cool	Existing	3%	3%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Pumps	Existing	30%	24%	18%	22%	18%	13%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Fans	Existing	16%	13%	10%	9%	7%	6%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Comp Air	Existing	24%	19%	14%	20%	16%	12%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Drives	Existing	3%	3%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Lighting	Existing	30%	24%	18%	16%	13%	10%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Refrigeration	Existing	4%	3%	2%	3%	3%	2%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	Existing	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 Existing	11%	9%	6%	9%	7%	5%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Water Heating	Existing	6%	5%	4%	2%	2%	1%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	3%	3%	2%	3%	3%	2%
SCE	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Refrigerator	Existing	12%	8%	4%	8%	5%	3%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Freezer	Existing	22%	14%	7%	15%	10%	5%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Space Heat	Existing	14%	12%	10%	9%	7%	6%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Space Cooling	Existing	5%	4%	3%	4%	3%	2%	5%	3%	3%	5%	3%	3%
SCE	Residential	Single Family	Lighting	Existing	37%	34%	15%	30%	20%	12%	16%	16%	12%	30%	30%	22%
SCE	Residential	Multi Family	Water Heating	Existing	3%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	3%	3%	2%	3%	3%	2%
SCE	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Refrigerator	Existing	17%	11%	6%	11%	7%	4%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Freezer	Existing	18%	12%	6%	11%	7%	4%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Space Heat	Existing	11%	9%	7%	4%	4%	3%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Space Cooling	Existing	6%	5%	3%	3%	3%	2%	4%	3%	3%	4%	3%	3%
SCE	Residential	Multi Family	Lighting	Existing	27%	24%	11%	21%	14%	8%	26%	26%	19%	36%	36%	27%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year Year 2020			Scenario: C&S (IOU) - base Savings relative to base year Year 2020			Scenario: C&S (society) - full Savings relative to base year Year 2020			Scenario: C&S (society) - base Savings relative to base year Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	College	Cooling	Existing	28%	23%	14%	21%	18%	11%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Vent	Existing	21%	19%	15%	17%	16%	13%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Com Cooking	Existing	7%	6%	5%	4%	3%	3%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	IntLight	Existing	13%	11%	9%	8%	7%	6%	14%	14%	10%	18%	18%	13%
SCE	Commercial	College	OfficeEquip	Existing	4%	3%	3%	2%	2%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	ExtLight	Existing	5%	5%	4%	1%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Cooling	Existing	9%	8%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Com Cooking	Existing	3%	2%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Refrig	Existing	33%	30%	24%	20%	18%	15%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	IntLight	Existing	16%	14%	11%	10%	9%	7%	11%	11%	9%	16%	16%	12%
SCE	Commercial	Food Store	OfficeEquip	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	ExtLight	Existing	4%	4%	3%	1%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Cooling	Existing	25%	21%	13%	19%	16%	9%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Vent	Existing	5%	4%	4%	4%	4%	3%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Com Cooking	Existing	5%	4%	3%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	IntLight	Existing	19%	15%	12%	14%	12%	9%	10%	10%	7%	13%	13%	10%
SCE	Commercial	Health	OfficeEquip	Existing	3%	2%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	ExtLight	Existing	6%	5%	4%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Cooling	Existing	22%	19%	11%	15%	13%	8%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Vent	Existing	15%	14%	11%	13%	12%	9%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Com Cooking	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	IntLight	Existing	12%	10%	8%	9%	7%	6%	15%	15%	11%	18%	18%	13%
SCE	Commercial	Large Office	OfficeEquip	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	ExtLight	Existing	7%	7%	5%	3%	3%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Cooling	Existing	38%	31%	19%	27%	23%	14%	2%	2%	2%	2%	2%	2%
SCE	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Vent	Existing	6%	5%	4%	5%	5%	4%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Com Cooking	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	IntLight	Existing	31%	26%	21%	22%	19%	15%	0%	0%	0%	6%	6%	5%
SCE	Commercial	Lodging	OfficeEquip	Existing	4%	4%	3%	3%	2%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	ExtLight	Existing	7%	7%	5%	1%	1%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Cooling	Existing	28%	24%	14%	16%	14%	8%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Vent	Existing	3%	3%	2%	3%	3%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Com Cooking	Existing	3%	2%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	IntLight	Existing	30%	25%	20%	18%	15%	12%	0%	0%	0%	10%	10%	8%
SCE	Commercial	Miscellaneous	OfficeEquip	Existing	3%	3%	2%	2%	2%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	ExtLight	Existing	7%	6%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings
SCE	Commercial	Miscellaneous	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	Cooling	Existing		17%	14%	8%		10%	8%	5%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	Vent	Existing		4%	4%	3%		3%	3%	2%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	Com Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	Refrig	Existing		14%	13%	10%		10%	9%	7%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	IntLight	Existing		20%	17%	13%		11%	9%	7%		8%	8%	6%
SCE	Commercial	Refrigerated Warr	OfficeEquip	Existing		3%	3%	2%		2%	2%	2%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	ExtLight	Existing		9%	8%	6%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Refrigerated Warr	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Restaurant	Cooling	Existing		11%	9%	5%		5%	4%	3%		0%	0%	0%
SCE	Commercial	Restaurant	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Restaurant	Vent	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Restaurant	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Restaurant	Com Cooking	Existing		2%	2%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Restaurant	Refrig	Existing		14%	13%	10%		12%	11%	9%		0%	0%	0%
SCE	Commercial	Restaurant	IntLight	Existing		25%	21%	17%		17%	14%	11%		4%	4%	3%
SCE	Commercial	Restaurant	OfficeEquip	Existing		1%	1%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Restaurant	ExtLight	Existing		3%	2%	2%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Restaurant	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Retail	Cooling	Existing		22%	19%	11%		13%	10%	6%		0%	0%	0%
SCE	Commercial	Retail	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Retail	Vent	Existing		5%	4%	3%		4%	3%	3%		0%	0%	0%
SCE	Commercial	Retail	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Retail	Com Cooking	Existing		1%	1%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Retail	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Retail	IntLight	Existing		22%	19%	15%		12%	10%	8%		6%	6%	5%
SCE	Commercial	Retail	OfficeEquip	Existing		2%	2%	1%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Retail	ExtLight	Existing		2%	2%	2%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Retail	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	School	Cooling	Existing		32%	27%	16%		18%	15%	9%		0%	0%	0%
SCE	Commercial	School	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	School	Vent	Existing		3%	3%	2%		3%	2%	2%		0%	0%	0%
SCE	Commercial	School	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	School	Com Cooking	Existing		17%	16%	13%		7%	7%	5%		0%	0%	0%
SCE	Commercial	School	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	School	IntLight	Existing		23%	19%	15%		16%	14%	11%		6%	6%	5%
SCE	Commercial	School	OfficeEquip	Existing		8%	8%	6%		5%	5%	4%		0%	0%	0%
SCE	Commercial	School	ExtLight	Existing		12%	11%	9%		1%	1%	1%		0%	0%	0%
SCE	Commercial	School	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Small Office	Cooling	Existing		24%	20%	12%		16%	13%	8%		0%	0%	0%
SCE	Commercial	Small Office	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Small Office	Vent	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Small Office	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Small Office	Com Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Small Office	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Small Office	IntLight	Existing		40%	33%	26%		28%	24%	19%		0%	0%	0%
SCE	Commercial	Small Office	OfficeEquip	Existing		4%	3%	3%		2%	2%	2%		0%	0%	0%
SCE	Commercial	Small Office	ExtLight	Existing		4%	4%	3%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Small Office	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Cooling	Existing		24%	20%	12%		13%	11%	6%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Vent	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Com Cooking	Existing		1%	1%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Unrefrigerated W:	IntLight	Existing		25%	21%	17%		14%	11%	9%		4%	4%	3%
SCE	Commercial	Unrefrigerated W:	OfficeEquip	Existing		3%	3%	2%		2%	2%	1%		0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	2020	High	Year	2020	High	Year	2020	High	Year	2020	High
						Savings	Mid		Savings	Mid		Savings	Mid		Savings	Mid
						Savings	Savings		Savings	Savings		Savings	Savings		Savings	Savings
SCE	Commercial	Unrefrigerated Wt	ExtLight	Existing		3%	3%	2%		1%	1%	1%		0%	0%	0%
SCE	Commercial	Unrefrigerated Wt	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Industrial	Industrial	Proc Heat	Existing		3%	2%	2%		2%	1%	1%		0%	0%	0%
SCE	Industrial	Industrial	Proc Cool	Existing		5%	4%	3%		3%	2%	2%		0%	0%	0%
SCE	Industrial	Industrial	Pumps	Existing		31%	25%	19%		23%	19%	14%		0%	0%	0%
SCE	Industrial	Industrial	Fans	Existing		18%	14%	11%		10%	8%	6%		0%	0%	0%
SCE	Industrial	Industrial	Comp Air	Existing		25%	20%	15%		21%	17%	13%		0%	0%	0%
SCE	Industrial	Industrial	Proc Drives	Existing		5%	4%	3%		3%	2%	2%		0%	0%	0%
SCE	Industrial	Industrial	Ind Lighting	Existing		32%	26%	19%		19%	15%	12%		0%	0%	0%
SCE	Industrial	Industrial	Refrigeration	Existing		2%	2%	1%		2%	2%	1%		0%	0%	0%
SCE	Industrial	Industrial	Ind Other	Existing		1%	1%	1%		1%	1%	1%		0%	0%	0%
SCE	Industrial	Ag		0 Existing		11%	9%	6%		9%	7%	5%		0%	0%	0%
SCE	Industrial	Construction		0 Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Industrial	Mining		0 Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Industrial	TCU		0 Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	Existing		14%	12%	10%		11%	10%	8%		0%	0%	0%
SDG&E	Residential	Single Family	Clothes Dryer	Existing		0%	0%	0%		0%	0%	0%		3%	3%	2%
SDG&E	Residential	Single Family	Other	Existing		0%	0%	0%		0%	0%	0%		1%	1%	1%
SDG&E	Residential	Single Family	Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Single Family	Refrigerator	Existing		10%	7%	3%		4%	3%	1%		0%	0%	0%
SDG&E	Residential	Single Family	Freezer	Existing		20%	14%	7%		8%	5%	3%		0%	0%	0%
SDG&E	Residential	Single Family	Swimming Pool Pump	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	Existing		42%	35%	28%		16%	13%	11%		0%	0%	0%
SDG&E	Residential	Single Family	Furnace Fan	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Single Family	Space Cooling	Existing		28%	22%	17%		11%	9%	6%		5%	4%	3%
SDG&E	Residential	Single Family	Lighting	Existing		38%	34%	15%		12%	8%	5%		16%	16%	12%
SDG&E	Residential	Multi Family	Water Heating	Existing		2%	2%	1%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Multi Family	Clothes Dryer	Existing		0%	0%	0%		0%	0%	0%		3%	3%	2%
SDG&E	Residential	Multi Family	Other	Existing		0%	0%	0%		0%	0%	0%		1%	1%	1%
SDG&E	Residential	Multi Family	Cooking	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Multi Family	Refrigerator	Existing		15%	10%	5%		10%	6%	3%		0%	0%	0%
SDG&E	Residential	Multi Family	Freezer	Existing		19%	13%	6%		12%	8%	4%		0%	0%	0%
SDG&E	Residential	Multi Family	Swimming Pool Pump	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	Existing		17%	15%	12%		4%	3%	3%		0%	0%	0%
SDG&E	Residential	Multi Family	Furnace Fan	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Residential	Multi Family	Space Cooling	Existing		35%	28%	21%		12%	9%	7%		4%	3%	3%
SDG&E	Residential	Multi Family	Lighting	Existing		27%	24%	11%		23%	15%	10%		26%	26%	19%
SDG&E	Commercial	College	Cooling	Existing		14%	11%	7%		11%	9%	5%		0%	0%	0%
SDG&E	Commercial	College	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	College	Vent	Existing		56%	51%	41%		50%	46%	36%		0%	0%	0%
SDG&E	Commercial	College	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	College	Com Cooking	Existing		3%	3%	2%		3%	2%	2%		0%	0%	0%
SDG&E	Commercial	College	Refrig	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	College	IntLight	Existing		19%	16%	13%		11%	9%	7%		9%	9%	7%
SDG&E	Commercial	College	OfficeEquip	Existing		2%	2%	2%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	College	ExtLight	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	College	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	Existing		10%	8%	5%		5%	4%	2%		0%	0%	0%
SDG&E	Commercial	Food Store	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Food Store	Vent	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Food Store	Com Cooking	Existing		8%	7%	5%		6%	5%	4%		0%	0%	0%
SDG&E	Commercial	Food Store	Refrig	Existing		26%	24%	19%		15%	14%	11%		0%	0%	0%
SDG&E	Commercial	Food Store	IntLight	Existing		23%	19%	15%		16%	13%	11%		6%	6%	4%
SDG&E	Commercial	Food Store	OfficeEquip	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Food Store	ExtLight	Existing		2%	1%	1%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Food Store	Misc	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%
SDG&E	Commercial	Health	Cooling	Existing		18%	15%	9%		13%	11%	6%		0%	0%	0%
SDG&E	Commercial	Health	Heating	Existing		0%	0%	0%		0%	0%	0%		0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year			Year			Year			Year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SDG&E	Commercial	Health	Vent	Existing	2%	2%	2%	2%	2%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Com Cooking	Existing	10%	9%	7%	7%	6%	5%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	IntLight	Existing	17%	14%	11%	12%	10%	8%	11%	11%	8%	15%	15%	11%
SDG&E	Commercial	Health	OfficeEquip	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	ExtLight	Existing	2%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	Existing	16%	13%	8%	10%	9%	5%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Vent	Existing	11%	10%	8%	10%	9%	7%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Com Cooking	Existing	9%	8%	6%	6%	6%	5%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	IntLight	Existing	14%	11%	9%	7%	6%	5%	14%	14%	10%	19%	19%	14%
SDG&E	Commercial	Large Office	OfficeEquip	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	ExtLight	Existing	3%	3%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	Existing	24%	20%	12%	17%	14%	9%	2%	2%	2%	2%	2%	2%
SDG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Vent	Existing	6%	5%	4%	6%	5%	4%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Com Cooking	Existing	2%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	IntLight	Existing	21%	17%	14%	16%	14%	11%	8%	8%	6%	11%	11%	8%
SDG&E	Commercial	Lodging	OfficeEquip	Existing	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	Existing	34%	28%	17%	23%	19%	11%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Vent	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Com Cooking	Existing	14%	12%	10%	10%	9%	7%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	IntLight	Existing	26%	22%	17%	18%	15%	12%	3%	3%	2%	10%	10%	8%
SDG&E	Commercial	Miscellaneous	OfficeEquip	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	ExtLight	Existing	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Cooling	Existing	6%	5%	3%	4%	3%	2%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Refrig	Existing	7%	6%	5%	5%	5%	4%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	IntLight	Existing	13%	11%	9%	8%	6%	5%	14%	14%	11%	19%	19%	14%
SDG&E	Commercial	Refrigerated War	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	Existing	9%	8%	5%	5%	4%	3%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Com Cooking	Existing	5%	4%	4%	4%	4%	3%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Refrig	Existing	24%	22%	17%	21%	19%	15%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	IntLight	Existing	24%	20%	16%	18%	15%	12%	5%	5%	4%	10%	10%	7%
SDG&E	Commercial	Restaurant	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	Existing	17%	14%	9%	11%	9%	5%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SDG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Vent	Existing	2%	2%	2%	2%	2%	2%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Com Cooking	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	IntLight	Existing	23%	19%	15%	15%	12%	10%	6%	6%	4%	13%	13%	9%
SDG&E	Commercial	Retail	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Cooling	Existing	31%	26%	15%	19%	16%	10%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Vent	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Com Cooking	Existing	54%	49%	39%	44%	40%	32%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	IntLight	Existing	24%	20%	16%	14%	12%	9%	5%	5%	3%	13%	13%	10%
SDG&E	Commercial	School	OfficeEquip	Existing	2%	2%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	Existing	22%	19%	11%	18%	15%	9%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Com Cooking	Existing	9%	8%	7%	7%	6%	5%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	IntLight	Existing	38%	31%	25%	27%	22%	18%	0%	0%	0%	3%	3%	2%
SDG&E	Commercial	Small Office	OfficeEquip	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	ExtLight	Existing	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Cooling		Existing	14%	12%	7%	9%	8%	5%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Heating		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Vent		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: WaterHeat		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Com Cooking		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Refrig		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: IntLight		Existing	27%	22%	18%	17%	14%	11%	3%	3%	2%	11%	11%	8%
SDG&E	Commercial	Unrefrigerated W: OfficeEquip		Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: ExtLight		Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Misc		Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Heat	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Cool	Existing	4%	3%	2%	2%	2%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Pumps	Existing	29%	23%	18%	23%	19%	14%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Fans	Existing	16%	13%	9%	10%	8%	6%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Comp Air	Existing	24%	20%	15%	21%	17%	13%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Drives	Existing	4%	3%	2%	3%	2%	2%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Lighting	Existing	31%	25%	18%	24%	19%	14%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Refrigeration	Existing	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	Existing	2%	2%	1%	2%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Ag	Ag	Existing	11%	9%	6%	9%	7%	5%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Construction	Construction	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Mining	Mining	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	TCU	TCU	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Water Heating	New	1%	1%	0%	0%	0%	0%	21%	18%	10%	21%	18%	10%
PG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	3%	3%	2%	3%	3%	2%
PG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Refrigerator	New	4%	3%	1%	3%	2%	1%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Freezer	New	4%	3%	1%	3%	2%	1%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings
PG&E	Residential	Single Family	Space Heat	New		1%	1%	0%		0%	0%	0%		21%	18%	10%
PG&E	Residential	Single Family	Furnace Fan	New		1%	1%	0%		0%	0%	0%		21%	18%	10%
PG&E	Residential	Single Family	Space Cooling	New		1%	1%	0%		0%	0%	0%		21%	18%	10%
PG&E	Residential	Single Family	Lighting	New		34%	31%	13%		22%	15%	9%		19%	19%	14%
PG&E	Residential	Multi Family	Water Heating	New		0%	0%	0%		0%	0%	0%		23%	18%	10%
PG&E	Residential	Multi Family	Clothes Dryer	New		0%	0%	0%		0%	0%	0%		3%	3%	2%
PG&E	Residential	Multi Family	Other	New		0%	0%	0%		0%	0%	0%		1%	1%	1%
PG&E	Residential	Multi Family	Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Refrigerator	New		7%	5%	2%		4%	3%	1%		0%	0%	0%
PG&E	Residential	Multi Family	Freezer	New		4%	3%	1%		3%	2%	1%		0%	0%	0%
PG&E	Residential	Multi Family	Swimming Pool Pump	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	New		0%	0%	0%		0%	0%	0%		23%	18%	10%
PG&E	Residential	Multi Family	Furnace Fan	New		0%	0%	0%		0%	0%	0%		23%	18%	10%
PG&E	Residential	Multi Family	Space Cooling	New		0%	0%	0%		0%	0%	0%		23%	18%	10%
PG&E	Residential	Multi Family	Lighting	New		27%	25%	11%		18%	12%	7%		25%	25%	19%
PG&E	Commercial	College	Cooling	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	College	Heating	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	College	Vent	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	College	WaterHeat	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	College	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	College	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	College	IntLight	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	College	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	College	ExtLight	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	College	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	Cooling	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Food Store	Heating	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Food Store	Vent	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Food Store	WaterHeat	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Food Store	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	IntLight	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Food Store	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Food Store	ExtLight	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Food Store	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	Cooling	New		1%	1%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Health	Heating	New		1%	1%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Health	Vent	New		1%	1%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Health	WaterHeat	New		1%	1%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Health	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	IntLight	New		1%	1%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Health	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Health	ExtLight	New		1%	1%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Health	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	Cooling	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Large Office	Heating	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Large Office	Vent	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Large Office	WaterHeat	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Large Office	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	IntLight	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Large Office	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Large Office	ExtLight	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Large Office	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Lodging	Cooling	New		2%	1%	1%		1%	1%	1%		12%	11%	7%
PG&E	Commercial	Lodging	Heating	New		2%	1%	1%		1%	1%	1%		12%	11%	7%
PG&E	Commercial	Lodging	Vent	New		2%	1%	1%		1%	1%	1%		12%	11%	7%
PG&E	Commercial	Lodging	WaterHeat	New		2%	1%	1%		1%	1%	1%		12%	11%	7%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings
PG&E	Commercial	Lodging	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Lodging	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Lodging	IntLight	New		2%	1%	1%		1%	1%	1%		12%	11%	7%
PG&E	Commercial	Lodging	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Lodging	ExtLight	New		2%	1%	1%		1%	1%	1%		12%	11%	7%
PG&E	Commercial	Lodging	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Miscellaneous	Heating	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Miscellaneous	Vent	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Miscellaneous	WaterHeat	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Miscellaneous	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Miscellaneous	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Miscellaneous	IntLight	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Miscellaneous	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Miscellaneous	ExtLight	New		1%	1%	1%		1%	0%	0%		12%	11%	7%
PG&E	Commercial	Miscellaneous	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Refrigerated War	Cooling	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Refrigerated War	Heating	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Refrigerated War	Vent	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Refrigerated War	WaterHeat	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Refrigerated War	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Refrigerated War	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Refrigerated War	IntLight	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Refrigerated War	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Refrigerated War	ExtLight	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Refrigerated War	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Restaurant	Heating	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Restaurant	Vent	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Restaurant	WaterHeat	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Restaurant	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Restaurant	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Restaurant	IntLight	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Restaurant	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Restaurant	ExtLight	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Restaurant	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Retail	Cooling	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Retail	Heating	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Retail	Vent	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Retail	WaterHeat	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Retail	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Retail	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Retail	IntLight	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Retail	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Retail	ExtLight	New		1%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Retail	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	School	Cooling	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	School	Heating	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	School	Vent	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	School	WaterHeat	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	School	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	School	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	School	IntLight	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	School	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	School	ExtLight	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	School	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Small Office	Cooling	New		1%	Small	1%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Small Office	Heating	New		1%	1%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Small Office	Vent	New		1%	1%	0%		0%	0%	0%		12%	11%	7%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	2020	High Savings	Year	2020	High Savings	Year	2020	High Savings	Year	2020	High Savings
PG&E	Commercial	Small Office	WaterHeat	New		1%	1%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Small Office	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Small Office	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Small Office	IntLight	New		1%	1%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Small Office	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Small Office	ExtLight	New		1%	1%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Small Office	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Cooling		New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Unrefrigerated W: Heating		New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Unrefrigerated W: Vent		New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Unrefrigerated W: WaterHeat		New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Unrefrigerated W: Com Cooking		New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Refrig		New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Unrefrigerated W: IntLight		New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Unrefrigerated W: OfficeEquip		New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Commercial	Unrefrigerated W: ExtLight		New		0%	0%	0%		0%	0%	0%		12%	11%	7%
PG&E	Commercial	Unrefrigerated W: Misc		New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Industrial	Proc Cool	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Industrial	Pumps	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Industrial	Fans	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Industrial	Comp Air	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Industrial	Proc Drives	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Industrial	Ind Lighting	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Industrial	Refrigeration	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Ag		0 New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Construction		0 New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	Mining		0 New		0%	0%	0%		0%	0%	0%		0%	0%	0%
PG&E	Industrial	TCU		0 New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Single Family	Water Heating	New		1%	1%	0%		0%	0%	0%		21%	17%	10%
SCE	Residential	Single Family	Clothes Dryer	New		0%	0%	0%		0%	0%	0%		3%	3%	2%
SCE	Residential	Single Family	Other	New		0%	0%	0%		0%	0%	0%		1%	1%	1%
SCE	Residential	Single Family	Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Single Family	Refrigerator	New		12%	8%	4%		8%	5%	3%		0%	0%	0%
SCE	Residential	Single Family	Freezer	New		22%	14%	7%		15%	10%	5%		0%	0%	0%
SCE	Residential	Single Family	Swimming Pool Pump	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Single Family	Space Heat	New		1%	1%	0%		0%	0%	0%		21%	17%	10%
SCE	Residential	Single Family	Furnace Fan	New		1%	1%	0%		0%	0%	0%		21%	17%	10%
SCE	Residential	Single Family	Space Cooling	New		1%	1%	0%		0%	0%	0%		21%	17%	10%
SCE	Residential	Single Family	Lighting	New		37%	34%	15%		30%	20%	12%		16%	16%	12%
SCE	Residential	Multi Family	Water Heating	New		1%	1%	0%		0%	0%	0%		22%	18%	10%
SCE	Residential	Multi Family	Clothes Dryer	New		0%	0%	0%		0%	0%	0%		3%	3%	2%
SCE	Residential	Multi Family	Other	New		0%	0%	0%		0%	0%	0%		1%	1%	1%
SCE	Residential	Multi Family	Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Multi Family	Refrigerator	New		17%	11%	6%		11%	7%	4%		0%	0%	0%
SCE	Residential	Multi Family	Freezer	New		18%	12%	6%		11%	7%	4%		0%	0%	0%
SCE	Residential	Multi Family	Swimming Pool Pump	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Residential	Multi Family	Space Heat	New		1%	1%	0%		0%	0%	0%		22%	18%	10%
SCE	Residential	Multi Family	Furnace Fan	New		1%	1%	0%		0%	0%	0%		22%	18%	10%
SCE	Residential	Multi Family	Space Cooling	New		1%	1%	0%		0%	0%	0%		22%	18%	10%
SCE	Residential	Multi Family	Lighting	New		27%	24%	11%		21%	14%	8%		26%	26%	19%
SCE	Commercial	College	Cooling	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	College	Heating	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	College	Vent	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	College	WaterHeat	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	College	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	College	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	College	IntLight	New		2%	1%	1%		0%	0%	0%		12%	11%	7%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings	Year	2020 High Savings	2020 Mid Savings	2020 Low Savings
SCE	Commercial	College	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	College	ExtLight	New		2%	1%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	College	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Food Store	Cooling	New		2%	2%	1%		1%	1%	1%		12%	11%	7%
SCE	Commercial	Food Store	Heating	New		2%	2%	1%		1%	1%	1%		12%	11%	7%
SCE	Commercial	Food Store	Vent	New		2%	2%	1%		1%	1%	1%		12%	11%	7%
SCE	Commercial	Food Store	WaterHeat	New		2%	2%	1%		1%	1%	1%		12%	11%	7%
SCE	Commercial	Food Store	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Food Store	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Food Store	IntLight	New		2%	2%	1%		1%	1%	1%		12%	11%	7%
SCE	Commercial	Food Store	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Food Store	ExtLight	New		2%	2%	1%		1%	1%	1%		12%	11%	7%
SCE	Commercial	Food Store	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Health	Cooling	New		2%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Health	Heating	New		2%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Health	Vent	New		2%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Health	WaterHeat	New		2%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Health	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Health	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Health	IntLight	New		2%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Health	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Health	ExtLight	New		2%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Health	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Large Office	Cooling	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Large Office	Heating	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Large Office	Vent	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Large Office	WaterHeat	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Large Office	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Large Office	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Large Office	IntLight	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Large Office	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Large Office	ExtLight	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Large Office	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Lodging	Cooling	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Lodging	Heating	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Lodging	Vent	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Lodging	WaterHeat	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Lodging	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Lodging	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Lodging	IntLight	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Lodging	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Lodging	ExtLight	New		1%	1%	1%		1%	1%	0%		12%	11%	7%
SCE	Commercial	Lodging	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Miscellaneous	Cooling	New		2%	2%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	Miscellaneous	Heating	New		2%	2%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	Miscellaneous	Vent	New		2%	2%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	Miscellaneous	WaterHeat	New		2%	2%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	Miscellaneous	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Miscellaneous	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Miscellaneous	IntLight	New		2%	2%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	Miscellaneous	OfficeEquip	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Miscellaneous	ExtLight	New		2%	2%	1%		0%	0%	0%		12%	11%	7%
SCE	Commercial	Miscellaneous	Misc	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Refrigerated War	Cooling	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
SCE	Commercial	Refrigerated War	Heating	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
SCE	Commercial	Refrigerated War	Vent	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
SCE	Commercial	Refrigerated War	WaterHeat	New		0%	0%	0%		0%	0%	0%		12%	11%	7%
SCE	Commercial	Refrigerated War	Com Cooking	New		0%	0%	0%		0%	0%	0%		0%	0%	0%
SCE	Commercial	Refrigerated War	Refrig	New		0%	0%	0%		0%	0%	0%		0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year Year			Scenario: C&S (IOU) - base Savings relative to base year Year			Scenario: C&S (society) - full Savings relative to base year Year			Scenario: C&S (society) - base Savings relative to base year Year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	Refrigerated Warr	IntLight	New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Refrigerated Warr	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	ExtLight	New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Refrigerated Warr	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Cooling	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Restaurant	Heating	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Restaurant	Vent	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Restaurant	WaterHeat	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	IntLight	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Restaurant	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	ExtLight	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Cooling	New	2%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Retail	Heating	New	2%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Retail	Vent	New	2%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Retail	WaterHeat	New	2%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	IntLight	New	2%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Retail	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	ExtLight	New	2%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Cooling	New	2%	2%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	School	Heating	New	2%	2%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	School	Vent	New	2%	2%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	School	WaterHeat	New	2%	2%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	IntLight	New	2%	2%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	School	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	ExtLight	New	2%	2%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Cooling	New	3%	2%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Small Office	Heating	New	3%	2%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Small Office	Vent	New	3%	2%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Small Office	WaterHeat	New	3%	2%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	IntLight	New	3%	2%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Small Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	ExtLight	New	3%	2%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Cooling	New	1%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Unrefrigerated W:	Heating	New	1%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Unrefrigerated W:	Vent	New	1%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Unrefrigerated W:	WaterHeat	New	1%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Unrefrigerated W:	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	IntLight	New	1%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Unrefrigerated W:	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	ExtLight	New	1%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SCE	Commercial	Unrefrigerated W:	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Proc Cool	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Pumps	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Fans	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Comp Air	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	2020	High Savings	Year	2020	High Savings	Year	2020	High Savings	Year	2020	High Savings
SCE	Industrial	Industrial	Proc Drives	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Ind Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Refrigeration	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Ag		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Construction		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Mining		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	TCU		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	New	2%	2%	1%	1%	1%	1%	21%	17%	10%	21%	17%	10%
SDG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	3%	3%	2%	3%	3%	2%
SDG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Refrigerator	New	10%	7%	3%	4%	3%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Freezer	New	20%	14%	7%	8%	5%	3%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	New	2%	2%	1%	1%	1%	1%	21%	17%	10%	21%	17%	10%
SDG&E	Residential	Single Family	Furnace Fan	New	2%	2%	1%	1%	1%	1%	21%	17%	10%	21%	17%	10%
SDG&E	Residential	Single Family	Space Cooling	New	2%	2%	1%	1%	1%	1%	21%	17%	10%	21%	17%	10%
SDG&E	Residential	Single Family	Lighting	New	38%	34%	15%	12%	8%	5%	16%	16%	12%	42%	42%	31%
SDG&E	Residential	Multi Family	Water Heating	New	1%	1%	1%	0%	0%	0%	23%	18%	10%	23%	18%	10%
SDG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	3%	3%	2%	3%	3%	2%
SDG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Refrigerator	New	15%	10%	5%	10%	6%	3%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Freezer	New	19%	13%	6%	12%	8%	4%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	New	1%	1%	1%	0%	0%	0%	23%	18%	10%	23%	18%	10%
SDG&E	Residential	Multi Family	Furnace Fan	New	1%	1%	1%	0%	0%	0%	23%	18%	10%	23%	18%	10%
SDG&E	Residential	Multi Family	Space Cooling	New	1%	1%	1%	0%	0%	0%	23%	18%	10%	23%	18%	10%
SDG&E	Residential	Multi Family	Lighting	New	27%	24%	11%	23%	15%	10%	26%	26%	19%	35%	35%	26%
SDG&E	Commercial	College	Cooling	New	1%	1%	1%	1%	0%	0%	11%	10%	7%	11%	10%	7%
SDG&E	Commercial	College	Heating	New	1%	1%	1%	1%	0%	0%	11%	10%	7%	11%	10%	7%
SDG&E	Commercial	College	Vent	New	1%	1%	1%	1%	0%	0%	11%	10%	7%	11%	10%	7%
SDG&E	Commercial	College	WaterHeat	New	1%	1%	1%	1%	0%	0%	11%	10%	7%	11%	10%	7%
SDG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	IntLight	New	1%	1%	1%	1%	0%	0%	11%	10%	7%	11%	10%	7%
SDG&E	Commercial	College	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	ExtLight	New	1%	1%	1%	1%	0%	0%	11%	10%	7%	11%	10%	7%
SDG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	New	1%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Food Store	Heating	New	1%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Food Store	Vent	New	1%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Food Store	WaterHeat	New	1%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	IntLight	New	1%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Food Store	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	ExtLight	New	1%	1%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	New	1%	1%	1%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Health	Heating	New	1%	1%	1%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Health	Vent	New	1%	1%	1%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Health	WaterHeat	New	1%	1%	1%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	IntLight	New	1%	1%	1%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Health	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	ExtLight	New	1%	1%	1%	1%	0%	0%	12%	11%	7%	12%	11%	7%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	2020	High Savings	Year	2020	High Savings	Year	2020	High Savings	Year	2020	High Savings
SDG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	New	1%	1%	0%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Large Office	Heating	New	1%	1%	0%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Large Office	Vent	New	1%	1%	0%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Large Office	WaterHeat	New	1%	1%	0%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	IntLight	New	1%	1%	0%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Large Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	ExtLight	New	1%	1%	0%	1%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	New	1%	1%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Lodging	Heating	New	1%	1%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Lodging	Vent	New	1%	1%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Lodging	WaterHeat	New	1%	1%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	IntLight	New	1%	1%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Lodging	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	ExtLight	New	1%	1%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	New	2%	2%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Miscellaneous	Heating	New	2%	2%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Miscellaneous	Vent	New	2%	2%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Miscellaneous	WaterHeat	New	2%	2%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	IntLight	New	2%	2%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Miscellaneous	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	ExtLight	New	2%	2%	1%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Cooling	New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Refrigerated War	Heating	New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Refrigerated War	Vent	New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Refrigerated War	WaterHeat	New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Refrigerated War	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	IntLight	New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Refrigerated War	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	ExtLight	New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Refrigerated War	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Restaurant	Heating	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Restaurant	Vent	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Restaurant	WaterHeat	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	IntLight	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Restaurant	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	ExtLight	New	4%	3%	2%	1%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	New	1%	1%	1%	1%	1%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Retail	Heating	New	1%	1%	1%	1%	1%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Retail	Vent	New	1%	1%	1%	1%	1%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Retail	WaterHeat	New	1%	1%	1%	1%	1%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	IntLight	New	1%	1%	1%	1%	1%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Retail	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year			Scenario: C&S (society) - base Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SDG&E	Commercial	Retail	ExtLight	New	1%	1%	1%	1%	1%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Cooling	New	1%	1%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	School	Heating	New	1%	1%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	School	Vent	New	1%	1%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	School	WaterHeat	New	1%	1%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	IntLight	New	1%	1%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	School	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	ExtLight	New	1%	1%	1%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	New	2%	2%	1%	2%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Small Office	Heating	New	2%	2%	1%	2%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Small Office	Vent	New	2%	2%	1%	2%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Small Office	WaterHeat	New	2%	2%	1%	2%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	IntLight	New	2%	2%	1%	2%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Small Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	ExtLight	New	2%	2%	1%	2%	1%	1%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Cooling		New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Unrefrigerated W: Heating		New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Unrefrigerated W: Vent		New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Unrefrigerated W: WaterHeat		New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Unrefrigerated W: Com Cooking		New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Refrig		New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: IntLight		New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Unrefrigerated W: OfficeEquip		New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: ExtLight		New	0%	0%	0%	0%	0%	0%	12%	11%	7%	12%	11%	7%
SDG&E	Commercial	Unrefrigerated W: Misc		New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Cool	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Pumps	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Fans	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Comp Air	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Drives	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Refrigeration	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Ag	Ag	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Construction	Construction	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Mining	Mining	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	TCU	TCU	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year 2020			Scenario: C&S (IOU,CC) - base Savings relative to base year Year 2020			Scenario: Nat-occurring - Huffman Savings relative to base year Year 2020			Scenario: Naturally-occurring Savings relative to base year Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Residential	Single Family	Water Heating	Existing	10%	9%	7%	9%	8%	6%	8%	7%	5%	8%	7%	5%
PG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Refrigerator	Existing	4%	3%	1%	3%	2%	1%	2%	1%	1%	2%	1%	1%
PG&E	Residential	Single Family	Freezer	Existing	4%	3%	1%	3%	2%	1%	2%	1%	1%	2%	1%	1%
PG&E	Residential	Single Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Space Heat	Existing	22%	18%	15%	18%	15%	12%	9%	8%	6%	9%	8%	6%
PG&E	Residential	Single Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Space Cooling	Existing	11%	9%	7%	9%	7%	5%	5%	4%	3%	5%	4%	3%
PG&E	Residential	Single Family	Lighting	Existing	34%	31%	13%	22%	15%	9%	11%	4%	3%	15%	6%	5%
PG&E	Residential	Multi Family	Water Heating	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Refrigerator	Existing	7%	5%	2%	4%	3%	1%	2%	1%	1%	2%	1%	1%
PG&E	Residential	Multi Family	Freezer	Existing	4%	3%	1%	3%	2%	1%	1%	1%	0%	1%	1%	0%
PG&E	Residential	Multi Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	Existing	7%	6%	5%	5%	4%	3%	1%	1%	1%	1%	1%	1%
PG&E	Residential	Multi Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Cooling	Existing	10%	8%	6%	7%	6%	4%	1%	1%	1%	1%	1%	1%
PG&E	Residential	Multi Family	Lighting	Existing	27%	25%	11%	18%	12%	7%	13%	5%	3%	17%	7%	6%
PG&E	Commercial	College	Cooling	Existing	21%	18%	11%	15%	12%	7%	8%	7%	5%	8%	7%	5%
PG&E	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Vent	Existing	6%	6%	4%	6%	5%	4%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Com Cooking	Existing	2%	2%	2%	2%	2%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	IntLight	Existing	26%	22%	18%	21%	18%	14%	7%	6%	5%	7%	6%	5%
PG&E	Commercial	College	OfficeEquip	Existing	2%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	ExtLight	Existing	3%	2%	2%	2%	2%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Cooling	Existing	10%	9%	5%	8%	6%	4%	2%	2%	1%	2%	2%	1%
PG&E	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Com Cooking	Existing	15%	13%	11%	13%	12%	10%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Refrig	Existing	20%	18%	15%	17%	15%	12%	8%	7%	6%	8%	7%	6%
PG&E	Commercial	Food Store	IntLight	Existing	9%	8%	6%	7%	6%	5%	2%	2%	2%	2%	2%	2%
PG&E	Commercial	Food Store	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	Existing	17%	14%	9%	13%	11%	7%	9%	7%	5%	9%	7%	5%
PG&E	Commercial	Health	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Vent	Existing	5%	4%	3%	4%	4%	3%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Com Cooking	Existing	4%	3%	3%	3%	3%	2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	IntLight	Existing	18%	15%	12%	15%	12%	10%	5%	4%	3%	5%	4%	3%
PG&E	Commercial	Health	OfficeEquip	Existing	1%	1%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	ExtLight	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	Existing	14%	12%	7%	8%	6%	4%	7%	5%	4%	7%	5%	4%
PG&E	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Vent	Existing	10%	10%	8%	8%	8%	6%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Com Cooking	Existing	5%	5%	4%	3%	3%	2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	IntLight	Existing	14%	11%	9%	7%	6%	5%	3%	3%	2%	3%	3%	2%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year			Scenario: C&S (IOU,CC) - base Savings relative to base year Year			Scenario: Nat-occurring - Huffman Savings relative to base year Year			Scenario: Naturally-occurring Savings relative to base year Year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Commercial	Large Office	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	Existing	28%	24%	14%	17%	14%	8%	8%	7%	5%	8%	7%	5%
PG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Vent	Existing	2%	2%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Com Cooking	Existing	3%	3%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	IntLight	Existing	23%	19%	15%	16%	13%	10%	9%	8%	6%	9%	8%	6%
PG&E	Commercial	Lodging	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	ExtLight	Existing	5%	4%	3%	2%	2%	2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	Existing	16%	14%	8%	12%	10%	6%	3%	2%	2%	3%	2%	2%
PG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Vent	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Com Cooking	Existing	5%	4%	3%	4%	3%	3%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	IntLight	Existing	18%	15%	12%	15%	12%	10%	5%	4%	3%	5%	4%	3%
PG&E	Commercial	Miscellaneous	OfficeEquip	Existing	1%	1%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Cooling	Existing	16%	14%	8%	10%	8%	5%	4%	3%	2%	4%	3%	2%
PG&E	Commercial	Refrigerated War	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Vent	Existing	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Com Cooking	Existing	4%	3%	3%	3%	3%	2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Refrig	Existing	10%	9%	7%	8%	8%	6%	3%	2%	2%	3%	2%	2%
PG&E	Commercial	Refrigerated War	IntLight	Existing	17%	14%	11%	14%	12%	9%	3%	3%	2%	3%	3%	2%
PG&E	Commercial	Refrigerated War	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	Existing	7%	6%	3%	5%	4%	2%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Com Cooking	Existing	4%	4%	3%	4%	3%	3%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Refrig	Existing	15%	14%	11%	15%	13%	11%	9%	8%	6%	9%	8%	6%
PG&E	Commercial	Restaurant	IntLight	Existing	17%	14%	11%	14%	12%	9%	5%	4%	3%	5%	4%	3%
PG&E	Commercial	Restaurant	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	ExtLight	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	Existing	14%	11%	7%	9%	8%	5%	3%	2%	2%	3%	2%	2%
PG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Vent	Existing	2%	2%	2%	2%	2%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Com Cooking	Existing	8%	7%	6%	7%	6%	5%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	IntLight	Existing	14%	12%	10%	11%	9%	7%	3%	3%	2%	3%	3%	2%
PG&E	Commercial	Retail	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	ExtLight	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Cooling	Existing	28%	23%	14%	19%	16%	10%	2%	2%	1%	2%	2%	1%
PG&E	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Vent	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Com Cooking	Existing	9%	8%	7%	7%	6%	5%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year			Scenario: C&S (IOU,CC) - base Savings relative to base year Year			Scenario: Nat-occurring - Huffman Savings relative to base year Year			Scenario: Naturally-occurring Savings relative to base year Year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Commercial	School	IntLight	Existing	22%	18%	15%	16%	14%	11%	4%	3%	2%	4%	3%	2%
PG&E	Commercial	School	OfficeEquip	Existing	2%	2%	1%	2%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	Existing	13%	11%	7%	9%	8%	5%	2%	1%	1%	2%	1%	1%
PG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	Existing	2%	2%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	IntLight	Existing	16%	13%	11%	12%	10%	8%	4%	4%	3%	4%	4%	3%
PG&E	Commercial	Small Office	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	ExtLight	Existing	9%	8%	6%	7%	6%	5%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Cooling		Existing	12%	10%	6%	8%	7%	4%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Unrefrigerated W: Heating		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Vent		Existing	4%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: WaterHeat		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Com Cooking		Existing	4%	3%	3%	3%	3%	2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Refrig		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: IntLight		Existing	19%	16%	13%	16%	13%	11%	3%	3%	2%	3%	3%	2%
PG&E	Commercial	Unrefrigerated W: OfficeEquip		Existing	1%	1%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: ExtLight		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W: Misc		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	Existing	3%	2%	2%	2%	1%	1%	1%	1%	1%	1%	1%	1%
PG&E	Industrial	Industrial	Proc Cool	Existing	3%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%	1%
PG&E	Industrial	Industrial	Pumps	Existing	30%	24%	18%	22%	18%	13%	10%	8%	6%	10%	8%	6%
PG&E	Industrial	Industrial	Fans	Existing	16%	13%	10%	9%	7%	6%	4%	3%	2%	4%	3%	2%
PG&E	Industrial	Industrial	Comp Air	Existing	24%	19%	14%	20%	16%	12%	15%	12%	9%	15%	12%	9%
PG&E	Industrial	Industrial	Proc Drives	Existing	3%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%	1%
PG&E	Industrial	Industrial	Ind Lighting	Existing	30%	24%	18%	16%	13%	10%	9%	7%	5%	9%	7%	5%
PG&E	Industrial	Industrial	Refrigeration	Existing	4%	3%	2%	3%	3%	2%	2%	2%	1%	2%	2%	1%
PG&E	Industrial	Industrial	Ind Other	Existing	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 Existing	11%	9%	6%	9%	7%	5%	6%	4%	3%	6%	4%	3%
PG&E	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Water Heating	Existing	6%	5%	4%	2%	2%	1%	1%	1%	1%	1%	1%	1%
SCE	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Refrigerator	Existing	12%	8%	4%	8%	5%	3%	4%	3%	1%	4%	3%	1%
SCE	Residential	Single Family	Freezer	Existing	22%	14%	7%	15%	10%	5%	8%	5%	3%	8%	5%	3%
SCE	Residential	Single Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Space Heat	Existing	14%	12%	10%	9%	7%	6%	4%	3%	3%	4%	3%	3%
SCE	Residential	Single Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Space Cooling	Existing	5%	4%	3%	4%	3%	2%	2%	1%	1%	2%	1%	1%
SCE	Residential	Single Family	Lighting	Existing	37%	34%	15%	30%	20%	12%	18%	7%	5%	22%	9%	7%
SCE	Residential	Multi Family	Water Heating	Existing	3%	2%	2%	1%	1%	0%	1%	0%	0%	1%	0%	0%
SCE	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Refrigerator	Existing	17%	11%	6%	11%	7%	4%	5%	4%	2%	5%	4%	2%
SCE	Residential	Multi Family	Freezer	Existing	18%	12%	6%	11%	7%	4%	5%	3%	2%	5%	3%	2%
SCE	Residential	Multi Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Space Heat	Existing	11%	9%	7%	4%	4%	3%	1%	1%	0%	1%	1%	0%
SCE	Residential	Multi Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Space Cooling	Existing	6%	5%	3%	3%	3%	2%	1%	1%	1%	1%	1%	1%
SCE	Residential	Multi Family	Lighting	Existing	27%	24%	11%	21%	14%	8%	17%	7%	4%	22%	9%	7%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year 2020			Scenario: C&S (IOU,CC) - base Savings relative to base year Year 2020			Scenario: Nat-occurring - Huffman Savings relative to base year Year 2020			Scenario: Naturally-occurring Savings relative to base year Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	College	Cooling	Existing	28%	23%	14%	21%	18%	11%	18%	14%	11%	18%	14%	11%
SCE	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Vent	Existing	21%	19%	15%	17%	16%	13%	1%	1%	1%	1%	1%	1%
SCE	Commercial	College	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Com Cooking	Existing	7%	6%	5%	4%	3%	3%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	IntLight	Existing	13%	11%	9%	8%	7%	6%	4%	3%	2%	4%	3%	2%
SCE	Commercial	College	OfficeEquip	Existing	4%	3%	3%	2%	2%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	ExtLight	Existing	5%	5%	4%	1%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Cooling	Existing	9%	8%	5%	4%	3%	2%	1%	1%	0%	1%	1%	0%
SCE	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Com Cooking	Existing	3%	2%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Refrig	Existing	33%	30%	24%	20%	18%	15%	11%	10%	8%	11%	10%	8%
SCE	Commercial	Food Store	IntLight	Existing	16%	14%	11%	10%	9%	7%	5%	4%	3%	5%	4%	3%
SCE	Commercial	Food Store	OfficeEquip	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	ExtLight	Existing	4%	4%	3%	1%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Cooling	Existing	25%	21%	13%	19%	16%	9%	11%	9%	6%	11%	9%	6%
SCE	Commercial	Health	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Vent	Existing	5%	4%	4%	4%	4%	3%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Com Cooking	Existing	5%	4%	3%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	IntLight	Existing	19%	15%	12%	14%	12%	9%	8%	6%	5%	8%	6%	5%
SCE	Commercial	Health	OfficeEquip	Existing	3%	2%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	ExtLight	Existing	6%	5%	4%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Cooling	Existing	22%	19%	11%	15%	13%	8%	11%	9%	6%	11%	9%	6%
SCE	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Vent	Existing	15%	14%	11%	13%	12%	9%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Com Cooking	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	IntLight	Existing	12%	10%	8%	9%	7%	6%	5%	4%	3%	5%	4%	3%
SCE	Commercial	Large Office	OfficeEquip	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	ExtLight	Existing	7%	7%	5%	3%	3%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Cooling	Existing	38%	31%	19%	27%	23%	14%	15%	12%	9%	15%	12%	9%
SCE	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Vent	Existing	6%	5%	4%	5%	5%	4%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Com Cooking	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	IntLight	Existing	31%	26%	21%	22%	19%	15%	13%	11%	9%	13%	11%	9%
SCE	Commercial	Lodging	OfficeEquip	Existing	4%	4%	3%	3%	2%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	ExtLight	Existing	7%	7%	5%	1%	1%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Cooling	Existing	28%	24%	14%	16%	14%	8%	6%	5%	4%	6%	5%	4%
SCE	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Vent	Existing	3%	3%	2%	3%	3%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Com Cooking	Existing	3%	2%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	IntLight	Existing	30%	25%	20%	18%	15%	12%	7%	6%	5%	7%	6%	5%
SCE	Commercial	Miscellaneous	OfficeEquip	Existing	3%	3%	2%	2%	2%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	ExtLight	Existing	7%	6%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year			Scenario: C&S (IOU,CC) - base Savings relative to base year Year			Scenario: Nat-occurring - Huffman Savings relative to base year Year			Scenario: Naturally-occurring Savings relative to base year Year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Cooling	Existing	17%	14%	8%	10%	8%	5%	4%	3%	2%	4%	3%	2%
SCE	Commercial	Refrigerated Warr	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Vent	Existing	4%	4%	3%	3%	3%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Refrig	Existing	14%	13%	10%	10%	9%	7%	6%	5%	4%	6%	5%	4%
SCE	Commercial	Refrigerated Warr	IntLight	Existing	20%	17%	13%	11%	9%	7%	4%	3%	2%	4%	3%	3%
SCE	Commercial	Refrigerated Warr	OfficeEquip	Existing	3%	3%	2%	2%	2%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	ExtLight	Existing	9%	8%	6%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated Warr	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Cooling	Existing	11%	9%	5%	5%	4%	3%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Com Cooking	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Refrig	Existing	14%	13%	10%	12%	11%	9%	6%	6%	4%	6%	6%	4%
SCE	Commercial	Restaurant	IntLight	Existing	25%	21%	17%	17%	14%	11%	8%	7%	5%	8%	7%	6%
SCE	Commercial	Restaurant	OfficeEquip	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	ExtLight	Existing	3%	2%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Cooling	Existing	22%	19%	11%	13%	10%	6%	6%	4%	3%	6%	4%	3%
SCE	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Vent	Existing	5%	4%	3%	4%	3%	3%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Com Cooking	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	IntLight	Existing	22%	19%	15%	12%	10%	8%	4%	4%	3%	4%	4%	3%
SCE	Commercial	Retail	OfficeEquip	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	ExtLight	Existing	2%	2%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Cooling	Existing	32%	27%	16%	18%	15%	9%	5%	4%	3%	5%	4%	3%
SCE	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Vent	Existing	3%	3%	2%	3%	2%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Com Cooking	Existing	17%	16%	13%	7%	7%	5%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	IntLight	Existing	23%	19%	15%	16%	14%	11%	8%	6%	5%	8%	6%	5%
SCE	Commercial	School	OfficeEquip	Existing	8%	8%	6%	5%	5%	4%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	ExtLight	Existing	12%	11%	9%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Cooling	Existing	24%	20%	12%	16%	13%	8%	5%	4%	3%	5%	4%	3%
SCE	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	IntLight	Existing	40%	33%	26%	28%	24%	19%	11%	9%	7%	11%	9%	7%
SCE	Commercial	Small Office	OfficeEquip	Existing	4%	3%	3%	2%	2%	2%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	ExtLight	Existing	4%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Cooling	Existing	24%	20%	12%	13%	11%	6%	5%	4%	3%	5%	4%	3%
SCE	Commercial	Unrefrigerated W:	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Com Cooking	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	IntLight	Existing	25%	21%	17%	14%	11%	9%	4%	3%	3%	4%	3%	3%
SCE	Commercial	Unrefrigerated W:	OfficeEquip	Existing	3%	3%	2%	2%	2%	1%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year 2020			Scenario: C&S (IOU,CC) - base Savings relative to base year Year 2020			Scenario: Nat-occurring - Huffman Savings relative to base year Year 2020			Scenario: Naturally-occurring Savings relative to base year Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	Unrefrigerated W:	ExtLight	Existing	3%	3%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Proc Heat	Existing	3%	2%	2%	2%	1%	1%	1%	1%	1%	1%	1%	1%
SCE	Industrial	Industrial	Proc Cool	Existing	5%	4%	3%	3%	2%	2%	2%	1%	1%	2%	1%	1%
SCE	Industrial	Industrial	Pumps	Existing	31%	25%	19%	23%	19%	14%	10%	8%	6%	10%	8%	6%
SCE	Industrial	Industrial	Fans	Existing	18%	14%	11%	10%	8%	6%	4%	3%	2%	4%	3%	2%
SCE	Industrial	Industrial	Comp Air	Existing	25%	20%	15%	21%	17%	13%	15%	12%	9%	15%	12%	9%
SCE	Industrial	Industrial	Proc Drives	Existing	5%	4%	3%	3%	2%	2%	2%	1%	1%	2%	1%	1%
SCE	Industrial	Industrial	Ind Lighting	Existing	32%	26%	19%	19%	15%	12%	11%	8%	6%	11%	8%	6%
SCE	Industrial	Industrial	Refrigeration	Existing	2%	2%	1%	2%	2%	1%	1%	1%	1%	1%	1%	1%
SCE	Industrial	Industrial	Ind Other	Existing	1%	1%	1%	1%	1%	1%	1%	0%	0%	1%	0%	0%
SCE	Industrial	Ag		0 Existing	11%	9%	6%	9%	7%	5%	6%	4%	3%	6%	4%	3%
SCE	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	Existing	14%	12%	10%	11%	10%	8%	11%	10%	8%	11%	10%	8%
SDG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Refrigerator	Existing	10%	7%	3%	4%	3%	1%	4%	3%	1%	4%	3%	1%
SDG&E	Residential	Single Family	Freezer	Existing	20%	14%	7%	8%	5%	3%	8%	5%	3%	8%	5%	3%
SDG&E	Residential	Single Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	Existing	42%	35%	28%	16%	13%	11%	16%	13%	11%	16%	13%	11%
SDG&E	Residential	Single Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Cooling	Existing	28%	22%	17%	11%	9%	6%	11%	9%	6%	11%	9%	6%
SDG&E	Residential	Single Family	Lighting	Existing	38%	34%	15%	12%	8%	5%	21%	8%	6%	26%	10%	8%
SDG&E	Residential	Multi Family	Water Heating	Existing	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Refrigerator	Existing	15%	10%	5%	10%	6%	3%	5%	3%	2%	5%	3%	2%
SDG&E	Residential	Multi Family	Freezer	Existing	19%	13%	6%	12%	8%	4%	6%	4%	2%	6%	4%	2%
SDG&E	Residential	Multi Family	Swimming Pool Pump	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	Existing	17%	15%	12%	4%	3%	3%	3%	3%	2%	3%	3%	2%
SDG&E	Residential	Multi Family	Furnace Fan	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Cooling	Existing	35%	28%	21%	12%	9%	7%	7%	6%	4%	7%	6%	4%
SDG&E	Residential	Multi Family	Lighting	Existing	27%	24%	11%	23%	15%	10%	19%	7%	5%	23%	9%	7%
SDG&E	Commercial	College	Cooling	Existing	14%	11%	7%	11%	9%	5%	13%	11%	8%	13%	11%	8%
SDG&E	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Vent	Existing	56%	51%	41%	50%	46%	36%	3%	3%	2%	3%	3%	2%
SDG&E	Commercial	College	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Com Cooking	Existing	3%	3%	2%	3%	2%	2%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	IntLight	Existing	19%	16%	13%	11%	9%	7%	6%	5%	4%	6%	5%	4%
SDG&E	Commercial	College	OfficeEquip	Existing	2%	2%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	ExtLight	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	Existing	10%	8%	5%	5%	4%	2%	2%	2%	1%	2%	2%	1%
SDG&E	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Com Cooking	Existing	8%	7%	5%	6%	5%	4%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Refrig	Existing	26%	24%	19%	15%	14%	11%	8%	7%	6%	8%	7%	6%
SDG&E	Commercial	Food Store	IntLight	Existing	23%	19%	15%	16%	13%	11%	6%	5%	4%	6%	5%	4%
SDG&E	Commercial	Food Store	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	ExtLight	Existing	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	Existing	18%	15%	9%	13%	11%	6%	8%	6%	5%	8%	6%	5%
SDG&E	Commercial	Health	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year			Scenario: C&S (IOU,CC) - base Savings relative to base year			Scenario: Nat-occurring - Huffman Savings relative to base year			Scenario: Naturally-occurring Savings relative to base year		
					Year	2020	Low	Year	2020	Low	Year	2020	Low	Year	2020	Low
					High	Mid	Savings	High	Mid	Savings	High	Mid	Savings	High	Mid	Savings
SDG&E	Commercial	Health	Vent	Existing	2%	2%	2%	2%	2%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Com Cooking	Existing	10%	9%	7%	7%	6%	5%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	IntLight	Existing	17%	14%	11%	12%	10%	8%	6%	5%	4%	6%	5%	4%
SDG&E	Commercial	Health	OfficeEquip	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	ExtLight	Existing	2%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	Existing	16%	13%	8%	10%	9%	5%	9%	7%	5%	9%	7%	5%
SDG&E	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Vent	Existing	11%	10%	8%	10%	9%	7%	1%	0%	0%	1%	0%	0%
SDG&E	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Com Cooking	Existing	9%	8%	6%	6%	6%	5%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	IntLight	Existing	14%	11%	9%	7%	6%	5%	4%	3%	2%	4%	3%	2%
SDG&E	Commercial	Large Office	OfficeEquip	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	ExtLight	Existing	3%	3%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	Existing	24%	20%	12%	17%	14%	9%	12%	10%	7%	12%	10%	7%
SDG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Vent	Existing	6%	5%	4%	6%	5%	4%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Com Cooking	Existing	2%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	IntLight	Existing	21%	17%	14%	16%	14%	11%	10%	9%	7%	10%	9%	7%
SDG&E	Commercial	Lodging	OfficeEquip	Existing	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	Existing	34%	28%	17%	23%	19%	11%	14%	11%	8%	14%	11%	8%
SDG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Vent	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Com Cooking	Existing	14%	12%	10%	10%	9%	7%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	IntLight	Existing	26%	22%	17%	18%	15%	12%	9%	7%	6%	9%	7%	6%
SDG&E	Commercial	Miscellaneous	OfficeEquip	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	ExtLight	Existing	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Cooling	Existing	6%	5%	3%	4%	3%	2%	2%	2%	1%	2%	2%	1%
SDG&E	Commercial	Refrigerated War	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Refrig	Existing	7%	6%	5%	5%	5%	4%	3%	3%	2%	3%	3%	2%
SDG&E	Commercial	Refrigerated War	IntLight	Existing	13%	11%	9%	8%	6%	5%	3%	3%	2%	3%	3%	2%
SDG&E	Commercial	Refrigerated War	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	Existing	9%	8%	5%	5%	4%	3%	3%	2%	2%	3%	2%	2%
SDG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Com Cooking	Existing	5%	4%	4%	4%	4%	3%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Refrig	Existing	24%	22%	17%	21%	19%	15%	10%	9%	7%	10%	9%	7%
SDG&E	Commercial	Restaurant	IntLight	Existing	24%	20%	16%	18%	15%	12%	9%	8%	6%	9%	8%	6%
SDG&E	Commercial	Restaurant	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	Existing	17%	14%	9%	11%	9%	5%	7%	6%	4%	7%	6%	4%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year			Scenario: C&S (IOU,CC) - base Savings relative to base year Year			Scenario: Nat-occurring - Huffman Savings relative to base year Year			Scenario: Naturally-occurring Savings relative to base year Year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SDG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Vent	Existing	2%	2%	2%	2%	2%	2%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Com Cooking	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	IntLight	Existing	23%	19%	15%	15%	12%	10%	5%	5%	4%	6%	5%	4%
SDG&E	Commercial	Retail	OfficeEquip	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Cooling	Existing	31%	26%	15%	19%	16%	10%	11%	9%	6%	11%	9%	6%
SDG&E	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Vent	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Com Cooking	Existing	54%	49%	39%	44%	40%	32%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	IntLight	Existing	24%	20%	16%	14%	12%	9%	6%	5%	4%	6%	5%	4%
SDG&E	Commercial	School	OfficeEquip	Existing	2%	2%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	ExtLight	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	Existing	22%	19%	11%	18%	15%	9%	11%	9%	7%	11%	9%	7%
SDG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Vent	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Com Cooking	Existing	9%	8%	7%	7%	6%	5%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Refrig	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	IntLight	Existing	38%	31%	25%	27%	22%	18%	13%	11%	9%	14%	11%	9%
SDG&E	Commercial	Small Office	OfficeEquip	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	ExtLight	Existing	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Cooling		Existing	14%	12%	7%	9%	8%	5%	7%	5%	4%	7%	5%	4%
SDG&E	Commercial	Unrefrigerated W: Heating		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Vent		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: WaterHeat		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Com Cooking		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Refrig		Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: IntLight		Existing	27%	22%	18%	17%	14%	11%	6%	5%	4%	7%	5%	4%
SDG&E	Commercial	Unrefrigerated W: OfficeEquip		Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: ExtLight		Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated W: Misc		Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Heat	Existing	2%	2%	1%	1%	1%	1%	1%	1%	0%	1%	1%	0%
SDG&E	Industrial	Industrial	Proc Cool	Existing	4%	3%	2%	2%	2%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Industrial	Industrial	Pumps	Existing	29%	23%	18%	23%	19%	14%	10%	8%	6%	10%	8%	6%
SDG&E	Industrial	Industrial	Fans	Existing	16%	13%	9%	10%	8%	6%	4%	3%	2%	4%	3%	2%
SDG&E	Industrial	Industrial	Comp Air	Existing	24%	20%	15%	21%	17%	13%	16%	13%	9%	16%	13%	9%
SDG&E	Industrial	Industrial	Proc Drives	Existing	4%	3%	2%	3%	2%	2%	2%	1%	1%	2%	1%	1%
SDG&E	Industrial	Industrial	Ind Lighting	Existing	31%	25%	18%	24%	19%	14%	15%	12%	9%	15%	12%	9%
SDG&E	Industrial	Industrial	Refrigeration	Existing	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	Existing	2%	2%	1%	2%	1%	1%	1%	1%	1%	1%	1%	1%
SDG&E	Industrial	Ag	Ag	Existing	11%	9%	6%	9%	7%	5%	6%	4%	3%	6%	4%	3%
SDG&E	Industrial	Construction	Construction	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Mining	Mining	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	TCU	TCU	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Water Heating	New	4%	3%	2%	4%	3%	2%	1%	1%	0%	1%	1%	0%
PG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Refrigerator	New	4%	3%	1%	3%	2%	1%	2%	1%	1%	2%	1%	1%
PG&E	Residential	Single Family	Freezer	New	4%	3%	1%	3%	2%	1%	2%	1%	1%	2%	1%	1%
PG&E	Residential	Single Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year 2020			Scenario: C&S (IOU,CC) - base Savings relative to base year Year 2020			Scenario: Nat-occurring - Huffman Savings relative to base year Year 2020			Scenario: Naturally-occurring Savings relative to base year Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Residential	Single Family	Space Heat	New	4%	3%	2%	4%	3%	2%	1%	1%	0%	1%	1%	0%
PG&E	Residential	Single Family	Furnace Fan	New	4%	3%	2%	4%	3%	2%	1%	1%	0%	1%	1%	0%
PG&E	Residential	Single Family	Space Cooling	New	4%	3%	2%	4%	3%	2%	1%	1%	0%	1%	1%	0%
PG&E	Residential	Single Family	Lighting	New	34%	31%	13%	22%	15%	9%	11%	4%	3%	15%	6%	5%
PG&E	Residential	Multi Family	Water Heating	New	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Refrigerator	New	7%	5%	2%	4%	3%	1%	2%	1%	1%	2%	1%	1%
PG&E	Residential	Multi Family	Freezer	New	4%	3%	1%	3%	2%	1%	1%	1%	0%	1%	1%	0%
PG&E	Residential	Multi Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	New	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Furnace Fan	New	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Cooling	New	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Lighting	New	27%	25%	11%	18%	12%	7%	13%	5%	3%	17%	7%	6%
PG&E	Commercial	College	Cooling	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	College	Heating	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	College	Vent	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	College	WaterHeat	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	IntLight	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	College	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	ExtLight	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Cooling	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Food Store	Heating	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Food Store	Vent	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Food Store	WaterHeat	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	IntLight	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Food Store	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	ExtLight	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Heating	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Vent	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	WaterHeat	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	IntLight	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	ExtLight	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Large Office	Heating	New	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Large Office	Vent	New	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Large Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	IntLight	New	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Large Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	ExtLight	New	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
PG&E	Commercial	Lodging	Heating	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
PG&E	Commercial	Lodging	Vent	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
PG&E	Commercial	Lodging	WaterHeat	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year 2020			Scenario: C&S (IOU,CC) - base Savings relative to base year Year 2020			Scenario: Nat-occurring - Huffman Savings relative to base year Year 2020			Scenario: Naturally-occurring Savings relative to base year Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	IntLight	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
PG&E	Commercial	Lodging	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	ExtLight	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
PG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Miscellaneous	Heating	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Miscellaneous	Vent	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Miscellaneous	WaterHeat	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	IntLight	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Miscellaneous	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	ExtLight	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Vent	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	IntLight	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	ExtLight	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated War	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	New	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Heating	New	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Vent	New	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	WaterHeat	New	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	IntLight	New	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	ExtLight	New	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	New	1%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Retail	Heating	New	1%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Retail	Vent	New	1%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Retail	WaterHeat	New	1%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	IntLight	New	1%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Retail	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	ExtLight	New	1%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
PG&E	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Cooling	New	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Heating	New	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Vent	New	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	WaterHeat	New	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	IntLight	New	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	ExtLight	New	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	New	1%	1%	0%	0%	0%	0%	1%	0%	0%	1%	0%	0%
PG&E	Commercial	Small Office	Heating	New	1%	1%	0%	0%	0%	0%	1%	0%	0%	1%	0%	0%
PG&E	Commercial	Small Office	Vent	New	1%	1%	0%	0%	0%	0%	1%	0%	0%	1%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year 2020			Scenario: C&S (IOU,CC) - base Savings relative to base year Year 2020			Scenario: Nat-occurring - Huffman Savings relative to base year Year 2020			Scenario: Naturally-occurring Savings relative to base year Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
PG&E	Commercial	Small Office	WaterHeat	New	1%	1%	0%	0%	0%	0%	1%	0%	0%	1%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	IntLight	New	1%	1%	0%	0%	0%	0%	1%	0%	0%	1%	0%	0%
PG&E	Commercial	Small Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	ExtLight	New	1%	1%	0%	0%	0%	0%	1%	0%	0%	1%	0%	0%
PG&E	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Vent	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	IntLight	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	ExtLight	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated W:	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Cool	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Pumps	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Fans	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Comp Air	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Drives	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Refrigeration	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Water Heating	New	4%	3%	2%	4%	2%	2%	1%	0%	0%	1%	0%	0%
SCE	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Refrigerator	New	12%	8%	4%	8%	5%	3%	4%	3%	1%	4%	3%	1%
SCE	Residential	Single Family	Freezer	New	22%	14%	7%	15%	10%	5%	8%	5%	3%	8%	5%	3%
SCE	Residential	Single Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Single Family	Space Heat	New	4%	3%	2%	4%	2%	2%	1%	0%	0%	1%	0%	0%
SCE	Residential	Single Family	Furnace Fan	New	4%	3%	2%	4%	2%	2%	1%	0%	0%	1%	0%	0%
SCE	Residential	Single Family	Space Cooling	New	4%	3%	2%	4%	2%	2%	1%	0%	0%	1%	0%	0%
SCE	Residential	Single Family	Lighting	New	37%	34%	15%	30%	20%	12%	18%	7%	5%	22%	9%	7%
SCE	Residential	Multi Family	Water Heating	New	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Refrigerator	New	17%	11%	6%	11%	7%	4%	5%	4%	2%	5%	4%	2%
SCE	Residential	Multi Family	Freezer	New	18%	12%	6%	11%	7%	4%	5%	3%	2%	5%	3%	2%
SCE	Residential	Multi Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Space Heat	New	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Furnace Fan	New	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Space Cooling	New	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
SCE	Residential	Multi Family	Lighting	New	27%	24%	11%	21%	14%	8%	17%	7%	4%	22%	9%	7%
SCE	Commercial	College	Cooling	New	2%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	College	Heating	New	2%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	College	Vent	New	2%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	College	WaterHeat	New	2%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	IntLight	New	2%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year 2020			Scenario: C&S (IOU,CC) - base Savings relative to base year Year 2020			Scenario: Nat-occurring - Huffman Savings relative to base year Year 2020			Scenario: Naturally-occurring Savings relative to base year Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	College	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	College	ExtLight	New	2%	1%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Cooling	New	2%	2%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Food Store	Heating	New	2%	2%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Food Store	Vent	New	2%	2%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Food Store	WaterHeat	New	2%	2%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	IntLight	New	2%	2%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Food Store	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Food Store	ExtLight	New	2%	2%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Cooling	New	2%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Health	Heating	New	2%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Health	Vent	New	2%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Health	WaterHeat	New	2%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	IntLight	New	2%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Health	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Health	ExtLight	New	2%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Cooling	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Large Office	Heating	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Large Office	Vent	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Large Office	WaterHeat	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	IntLight	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Large Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Large Office	ExtLight	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Cooling	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Lodging	Heating	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Lodging	Vent	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Lodging	WaterHeat	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	IntLight	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Lodging	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Lodging	ExtLight	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SCE	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Cooling	New	2%	2%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	Miscellaneous	Heating	New	2%	2%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	Miscellaneous	Vent	New	2%	2%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	Miscellaneous	WaterHeat	New	2%	2%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	IntLight	New	2%	2%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	Miscellaneous	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Miscellaneous	ExtLight	New	2%	2%	1%	0%	0%	0%	1%	1%	0%	1%	1%	0%
SCE	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated War	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated War	Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated War	Vent	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated War	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated War	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated War	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year 2020			Scenario: C&S (IOU,CC) - base Savings relative to base year Year 2020			Scenario: Nat-occurring - Huffman Savings relative to base year Year 2020			Scenario: Naturally-occurring Savings relative to base year Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Commercial	Refrigerated War	IntLight	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated War	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated War	ExtLight	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Refrigerated War	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Cooling	New	4%	3%	2%	1%	1%	1%	3%	2%	2%	3%	2%	2%
SCE	Commercial	Restaurant	Heating	New	4%	3%	2%	1%	1%	1%	3%	2%	2%	3%	2%	2%
SCE	Commercial	Restaurant	Vent	New	4%	3%	2%	1%	1%	1%	3%	2%	2%	3%	2%	2%
SCE	Commercial	Restaurant	WaterHeat	New	4%	3%	2%	1%	1%	1%	3%	2%	2%	3%	2%	2%
SCE	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	IntLight	New	4%	3%	2%	1%	1%	1%	3%	2%	2%	3%	2%	2%
SCE	Commercial	Restaurant	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Restaurant	ExtLight	New	4%	3%	2%	1%	1%	1%	3%	2%	2%	3%	2%	2%
SCE	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Cooling	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Retail	Heating	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Retail	Vent	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Retail	WaterHeat	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	IntLight	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Retail	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Retail	ExtLight	New	2%	1%	1%	1%	1%	1%	2%	2%	1%	2%	2%	1%
SCE	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Cooling	New	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Heating	New	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Vent	New	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	WaterHeat	New	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	IntLight	New	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	ExtLight	New	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Cooling	New	3%	2%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SCE	Commercial	Small Office	Heating	New	3%	2%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SCE	Commercial	Small Office	Vent	New	3%	2%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SCE	Commercial	Small Office	WaterHeat	New	3%	2%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SCE	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	IntLight	New	3%	2%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SCE	Commercial	Small Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Small Office	ExtLight	New	3%	2%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SCE	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Cooling	New	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Heating	New	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Vent	New	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	WaterHeat	New	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	IntLight	New	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	ExtLight	New	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Commercial	Unrefrigerated W:	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Proc Cool	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Pumps	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Fans	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Comp Air	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix B

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year 2020			Scenario: C&S (IOU,CC) - base Savings relative to base year Year 2020			Scenario: Nat-occurring - Huffman Savings relative to base year Year 2020			Scenario: Naturally-occurring Savings relative to base year Year 2020		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SCE	Industrial	Industrial	Proc Drives	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Ind Lighting	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Refrigeration	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Ag		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Construction		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	Mining		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCE	Industrial	TCU		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	New	5%	4%	3%	4%	3%	2%	2%	2%	1%	2%	2%	1%
SDG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Refrigerator	New	10%	7%	3%	4%	3%	1%	4%	3%	1%	4%	3%	1%
SDG&E	Residential	Single Family	Freezer	New	20%	14%	7%	8%	5%	3%	8%	5%	3%	8%	5%	3%
SDG&E	Residential	Single Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	New	5%	4%	3%	4%	3%	2%	2%	2%	1%	2%	2%	1%
SDG&E	Residential	Single Family	Furnace Fan	New	5%	4%	3%	4%	3%	2%	2%	2%	1%	2%	2%	1%
SDG&E	Residential	Single Family	Space Cooling	New	5%	4%	3%	4%	3%	2%	2%	2%	1%	2%	2%	1%
SDG&E	Residential	Single Family	Lighting	New	38%	34%	15%	12%	8%	5%	21%	8%	6%	26%	10%	8%
SDG&E	Residential	Multi Family	Water Heating	New	2%	2%	1%	2%	1%	1%	1%	1%	0%	1%	1%	0%
SDG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Refrigerator	New	15%	10%	5%	10%	6%	3%	5%	3%	2%	5%	3%	2%
SDG&E	Residential	Multi Family	Freezer	New	19%	13%	6%	12%	8%	4%	6%	4%	2%	6%	4%	2%
SDG&E	Residential	Multi Family	Swimming Pool Pump	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	New	2%	2%	1%	2%	1%	1%	1%	1%	0%	1%	1%	0%
SDG&E	Residential	Multi Family	Furnace Fan	New	2%	2%	1%	2%	1%	1%	1%	1%	0%	1%	1%	0%
SDG&E	Residential	Multi Family	Space Cooling	New	2%	2%	1%	2%	1%	1%	1%	1%	0%	1%	1%	0%
SDG&E	Residential	Multi Family	Lighting	New	27%	24%	11%	23%	15%	10%	19%	7%	5%	23%	9%	7%
SDG&E	Commercial	College	Cooling	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	College	Heating	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	College	Vent	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	College	WaterHeat	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	IntLight	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	College	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	ExtLight	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	New	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Food Store	Heating	New	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Food Store	Vent	New	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Food Store	WaterHeat	New	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	IntLight	New	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Food Store	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	ExtLight	New	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Health	Heating	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Health	Vent	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Health	WaterHeat	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	IntLight	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Health	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	ExtLight	New	1%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%	1%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year Year			Scenario: C&S (IOU,CC) - base Savings relative to base year Year			Scenario: Nat-occurring - Huffman Savings relative to base year Year			Scenario: Naturally-occurring Savings relative to base year Year		
					High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings	High Savings	Mid Savings	Low Savings
SDG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	New	1%	1%	0%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Large Office	Heating	New	1%	1%	0%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Large Office	Vent	New	1%	1%	0%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Large Office	WaterHeat	New	1%	1%	0%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	IntLight	New	1%	1%	0%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Large Office	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	ExtLight	New	1%	1%	0%	1%	0%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Heating	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Vent	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	WaterHeat	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	IntLight	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	ExtLight	New	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	New	2%	2%	1%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Miscellaneous	Heating	New	2%	2%	1%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Miscellaneous	Vent	New	2%	2%	1%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Miscellaneous	WaterHeat	New	2%	2%	1%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	IntLight	New	2%	2%	1%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Miscellaneous	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	ExtLight	New	2%	2%	1%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Vent	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	IntLight	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	ExtLight	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated War	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	New	4%	3%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Restaurant	Heating	New	4%	3%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Restaurant	Vent	New	4%	3%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Restaurant	WaterHeat	New	4%	3%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	IntLight	New	4%	3%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Restaurant	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	ExtLight	New	4%	3%	2%	1%	1%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Retail	Heating	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Retail	Vent	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Retail	WaterHeat	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Refrig	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	IntLight	New	1%	1%	1%	1%	1%	0%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Retail	OfficeEquip	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU,CC) - full Savings relative to base year			Scenario: C&S (IOU,CC) - base Savings relative to base year			Scenario: Nat-occurring - Huffman Savings relative to base year			Scenario: Naturally-occurring Savings relative to base year		
					Year	2020	High Savings	Year	2020	High Savings	Year	2020	High Savings	Year	2020	High Savings
SDG&E	Commercial	Retail	ExtLight	New		1%	1%		1%	1%		1%	1%		1%	1%
SDG&E	Commercial	Retail	Misc	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	School	Cooling	New		1%	1%		0%	0%		1%	1%		1%	0%
SDG&E	Commercial	School	Heating	New		1%	1%		0%	0%		1%	1%		1%	0%
SDG&E	Commercial	School	Vent	New		1%	1%		0%	0%		1%	1%		1%	0%
SDG&E	Commercial	School	WaterHeat	New		1%	1%		0%	0%		1%	1%		1%	0%
SDG&E	Commercial	School	Com Cooking	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	School	Refrig	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	School	IntLight	New		1%	1%		0%	0%		1%	1%		1%	0%
SDG&E	Commercial	School	OfficeEquip	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	School	ExtLight	New		1%	1%		0%	0%		1%	1%		1%	0%
SDG&E	Commercial	School	Misc	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Small Office	Cooling	New		2%	2%		2%	1%		3%	2%		3%	2%
SDG&E	Commercial	Small Office	Heating	New		2%	2%		2%	1%		3%	2%		3%	2%
SDG&E	Commercial	Small Office	Vent	New		2%	2%		2%	1%		3%	2%		3%	2%
SDG&E	Commercial	Small Office	WaterHeat	New		2%	2%		2%	1%		3%	2%		3%	2%
SDG&E	Commercial	Small Office	Com Cooking	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Small Office	Refrig	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Small Office	IntLight	New		2%	2%		2%	1%		3%	2%		3%	2%
SDG&E	Commercial	Small Office	OfficeEquip	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Small Office	ExtLight	New		2%	2%		2%	1%		3%	2%		3%	2%
SDG&E	Commercial	Small Office	Misc	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Unrefrigerated W:	Cooling	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Unrefrigerated W:	Heating	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Unrefrigerated W:	Vent	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Unrefrigerated W:	WaterHeat	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Unrefrigerated W:	Com Cooking	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Unrefrigerated W:	Refrig	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Unrefrigerated W:	IntLight	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Unrefrigerated W:	OfficeEquip	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Unrefrigerated W:	ExtLight	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Commercial	Unrefrigerated W:	Misc	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Industrial	Proc Heat	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Industrial	Proc Cool	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Industrial	Pumps	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Industrial	Fans	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Industrial	Comp Air	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Industrial	Proc Drives	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Industrial	Ind Lighting	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Industrial	Refrigeration	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Industrial	Ind Other	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Ag	Ag	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Construction	Construction	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	Mining	Mining	New		0%	0%		0%	0%		0%	0%		0%	0%
SDG&E	Industrial	TCU	TCU	New		0%	0%		0%	0%		0%	0%		0%	0%

Appendix C

IOU – Specific Scenario Results

Appendix C1

Scenario Results for PG&E

Figure C1-1. Technical potential by sector and vintage in PG&E

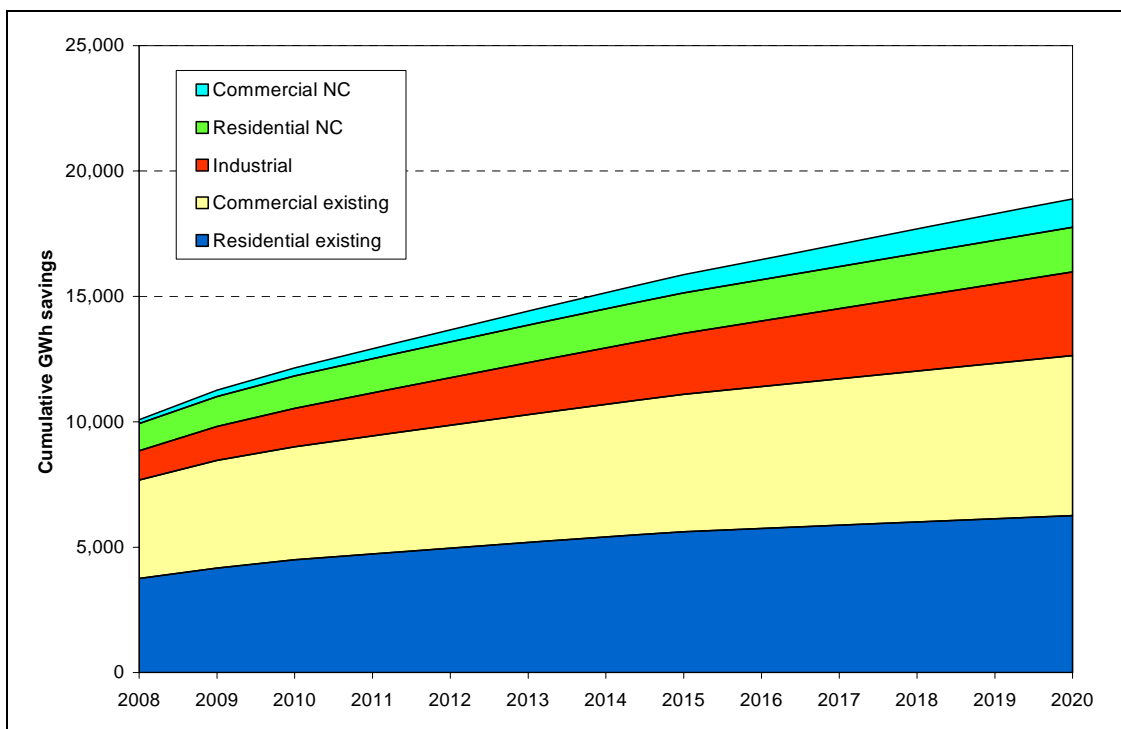


Table C1-1. Technical potential in the residential sector by end use and vintage in PG&E (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	518	471	376	49	39	29
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	346	315	220	114	103	72
Freezer	0	0	0	0	0	0
Pool Pump	24	20	16	0	0	0
Space Heating	347	289	231	18	15	11
Furnace Fan	0	0	0	31	25	19
Space Cooling	761	572	458	164	131	98
Lighting	5,060	4,600	3,220	1,615	1,468	1,028
Total	7,056	6,267	4,522	1,991	1,782	1,258

Table C1-2. Technical potential in the commercial sector by end use and vintage in PG&E (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	1,016	847	677	266	212	159
Space Heating	0	0	0	41	33	25
Ventilation	301	251	201	283	227	170
Water Heating	0	0	0	18	14	11
Com Cooking	768	640	512	0	0	0
Refrigeration	1,224	1,224	612	0	0	0
Interior Lighting	3,151	2,865	2,292	687	550	412
Office Equipment	319	290	232	0	0	0
Exterior Lighting	248	226	181	118	95	71
Miscellaneous	29	29	29	0	0	0
Total	7,056	6,370	4,735	1,413	1,131	848

Table C1-3. Technical potential in the industrial sector by end use in PG&E (cumulative GWh savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	157	63	50
Process Cooling	290	232	174
Pumps	1,085	986	651
Fans	366	293	220
Compressed Air	709	567	425
Process Drives	186	148	111
Industrial Lighting	559	447	335
Refrigeration	61	49	37
Industrial Other	29	23	17
Agriculture	662	530	397
Total	4,103	3,338	2,418

Figure C1-2. Uncertainty estimate for total technical potential in PG&E

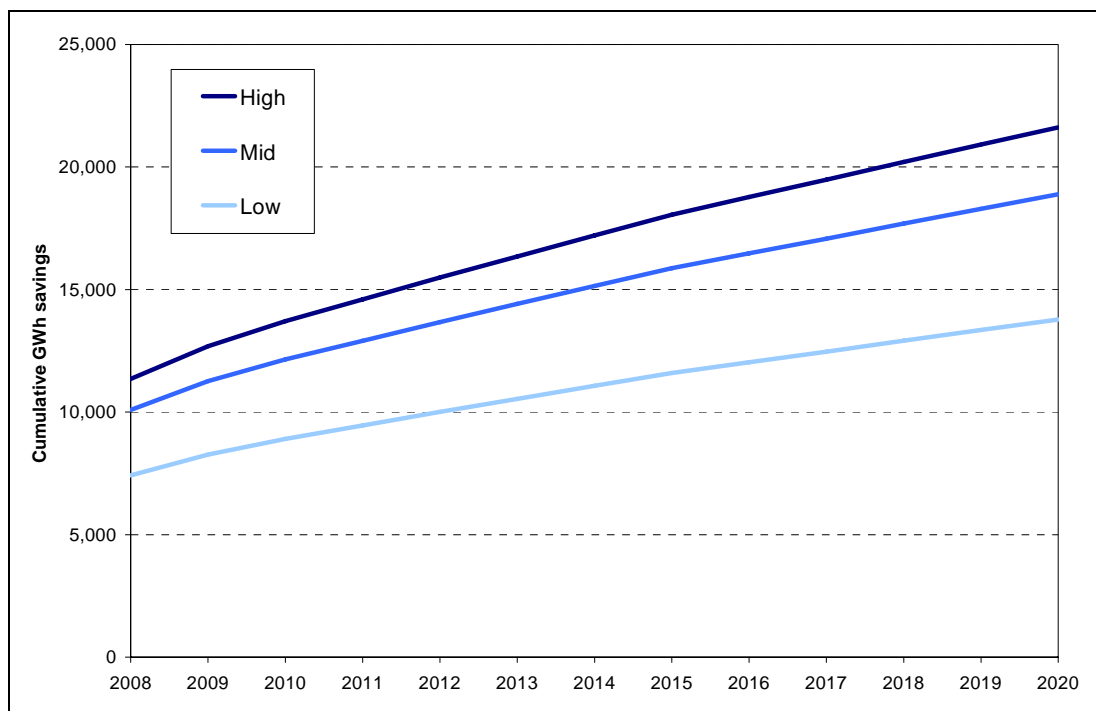


Figure C1-3. Economic potential by sector and vintage in PG&E

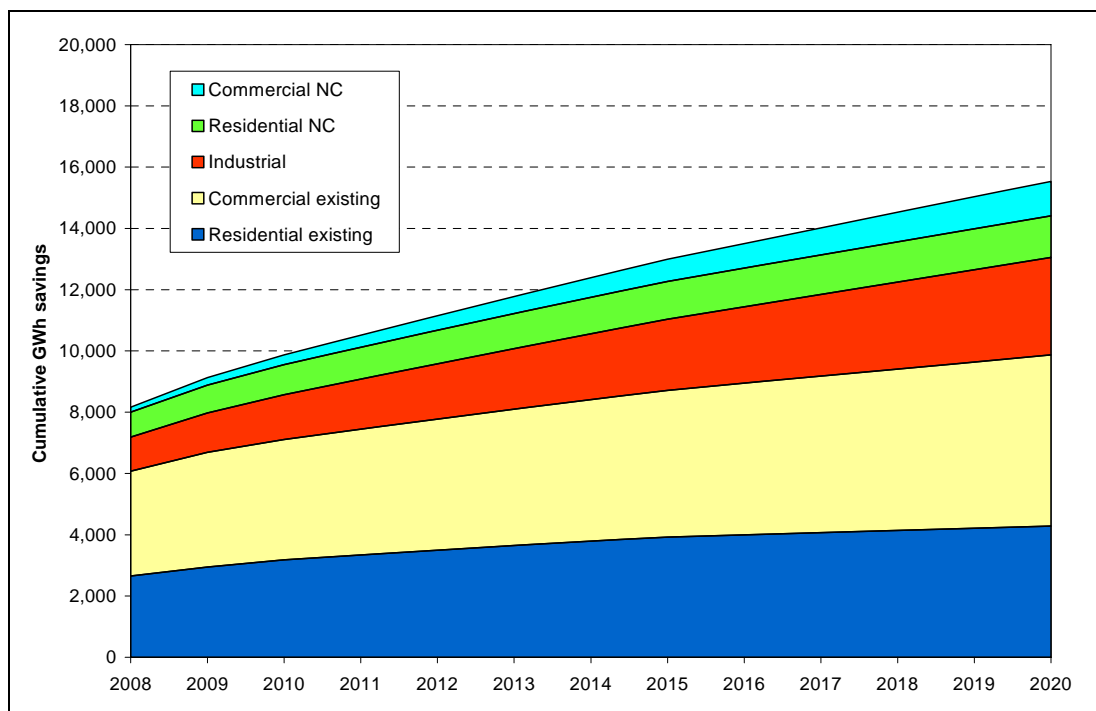


Table C1-4. Economic potential in the residential sector by end use and vintage in PG&E (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	114	76	61	29	24	18
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	0	0	0	0	0	0
Freezer	0	0	0	0	0	0
Pool Pump	24	20	16	0	0	0
Space Heating	186	155	124	11	9	7
Furnace Fan	0	0	0	22	18	13
Space Cooling	234	195	156	112	89	67
Lighting	4,220	3,837	2,686	1,347	1,224	857
Total	4,779	4,283	3,043	1,521	1,363	961

Table C1-5. Economic potential in the commercial sector by end use and vintage in PG&E (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	852	710	568	265	212	159
Space Heating	0	0	0	41	33	25
Ventilation	296	247	197	283	226	170
Water Heating	0	0	0	18	14	11
Com Cooking	630	525	420	0	0	0
Refrigeration	1,152	1,152	576	0	0	0
Interior Lighting	2,835	2,577	2,062	679	543	407
Office Equipment	282	256	205	0	0	0
Exterior Lighting	99	90	72	117	94	70
Miscellaneous	29	29	29	0	0	0
Total	6,175	5,586	4,129	1,402	1,122	841

**Table C1-6. Economic potential in the industrial sector by end use in PG&E
(cumulative GWh savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	157	63	50
Process Cooling	195	156	117
Pumps	1,065	968	639
Fans	347	278	208
Compressed Air	687	550	412
Process Drives	162	130	97
Industrial Lighting	545	436	327
Refrigeration	61	49	37
Industrial Other	29	23	17
Agriculture	662	530	397
Total	3,911	3,183	2,303

Figure C1-4. Uncertainty estimate for total economic potential in PG&E

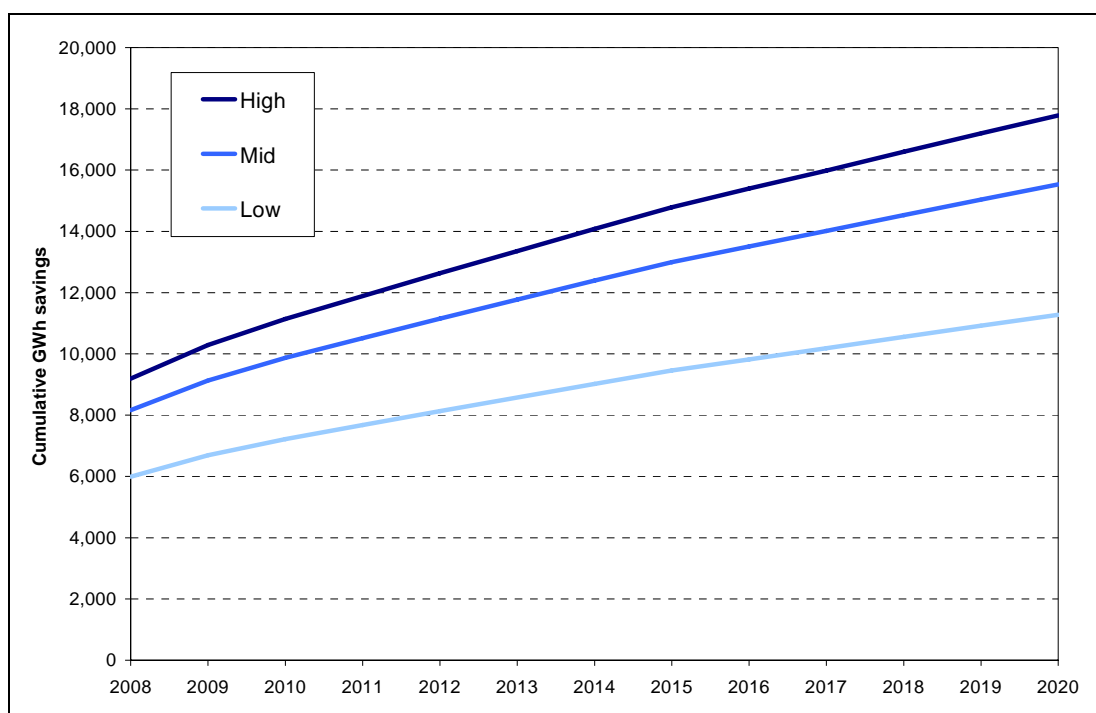


Figure C1-5. Base market potential by sector and vintage in PG&E (gross savings)

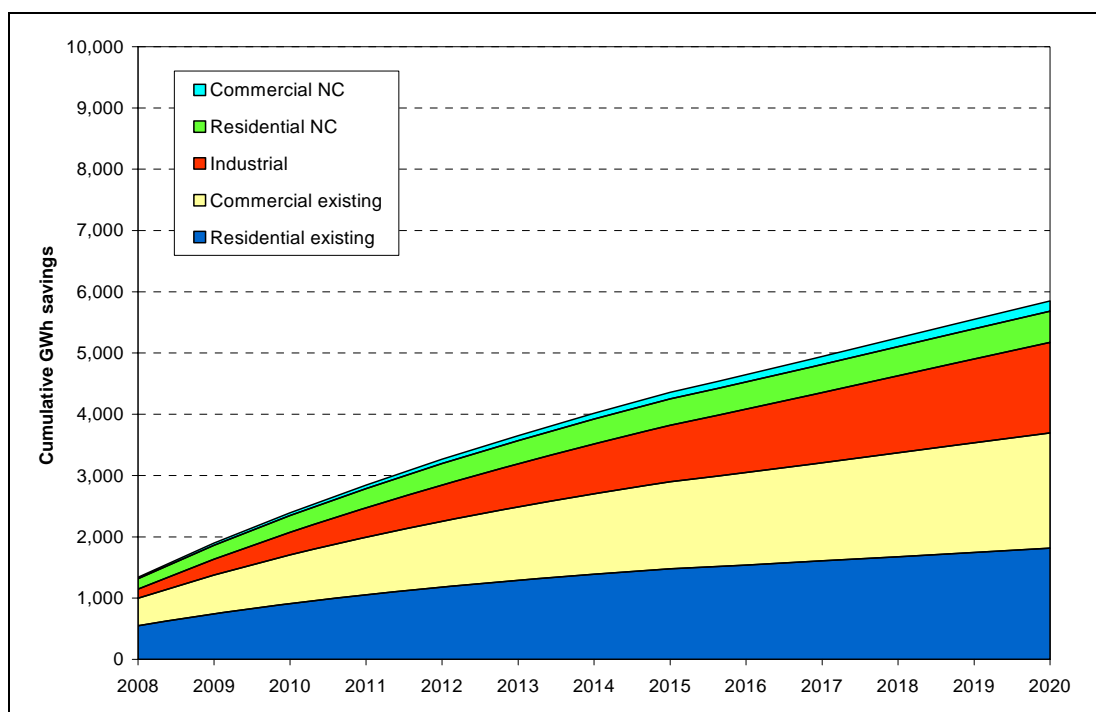


Table C1-7. Base market potential in the residential sector by end use and vintage in PG&E (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	93	78	62	9	7	5
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	157	105	52	52	34	17
Freezer	29	19	10	11	7	4
Pool Pump	1	1	1	0	0	0
Space Heating	141	117	94	3	3	2
Furnace Fan	0	0	0	6	5	4
Space Cooling	198	158	119	33	27	20
Lighting	2,002	1,335	1,001	640	427	320
Total	2,621	1,813	1,338	754	510	372

Table C1-8. Base market potential in the commercial sector by end use and vintage in PG&E (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	389	324	195	43	35	26
Space Heating	0	0	0	7	6	4
Ventilation	160	146	117	45	36	27
Water Heating	0	0	0	3	2	2
Com Cooking	63	57	46	0	0	0
Refrigeration	425	387	309	0	0	0
Interior Lighting	1,139	949	759	95	76	57
Office Equipment	5	5	4	0	0	0
Exterior Lighting	15	14	11	16	13	10
Miscellaneous	1	1	1	0	0	0
Total	2,198	1,882	1,441	209	167	125

Table C1-9. Base market potential in the industrial sector by end use in PG&E (cumulative gross GWh savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	25	20	15
Process Cooling	26	21	15
Pumps	557	445	334
Fans	112	90	67
Compressed Air	281	225	169
Process Drives	52	42	31
Industrial Lighting	228	182	137
Refrigeration	48	38	29
Industrial Other	5	4	3
Agriculture	513	410	308
Total	1,847	1,478	1,108

Figure C1-6. Uncertainty estimate for total base market potential in PG&E (gross savings)

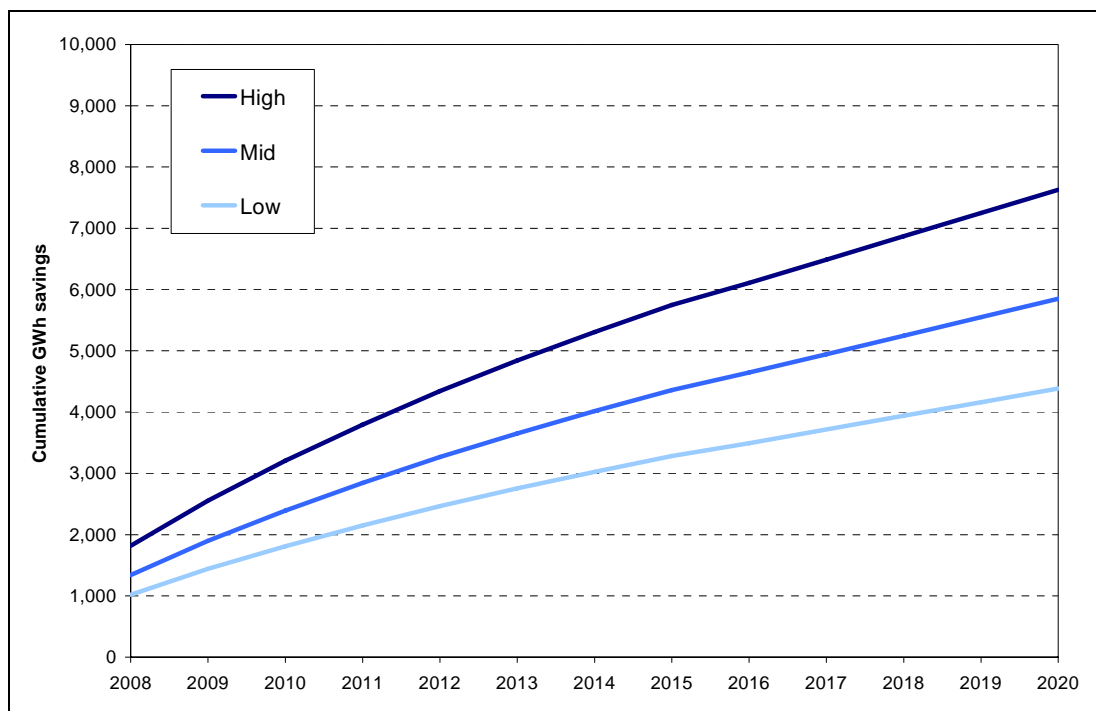


Figure C1-7. Full market potential by sector and vintage in PG&E (gross savings)

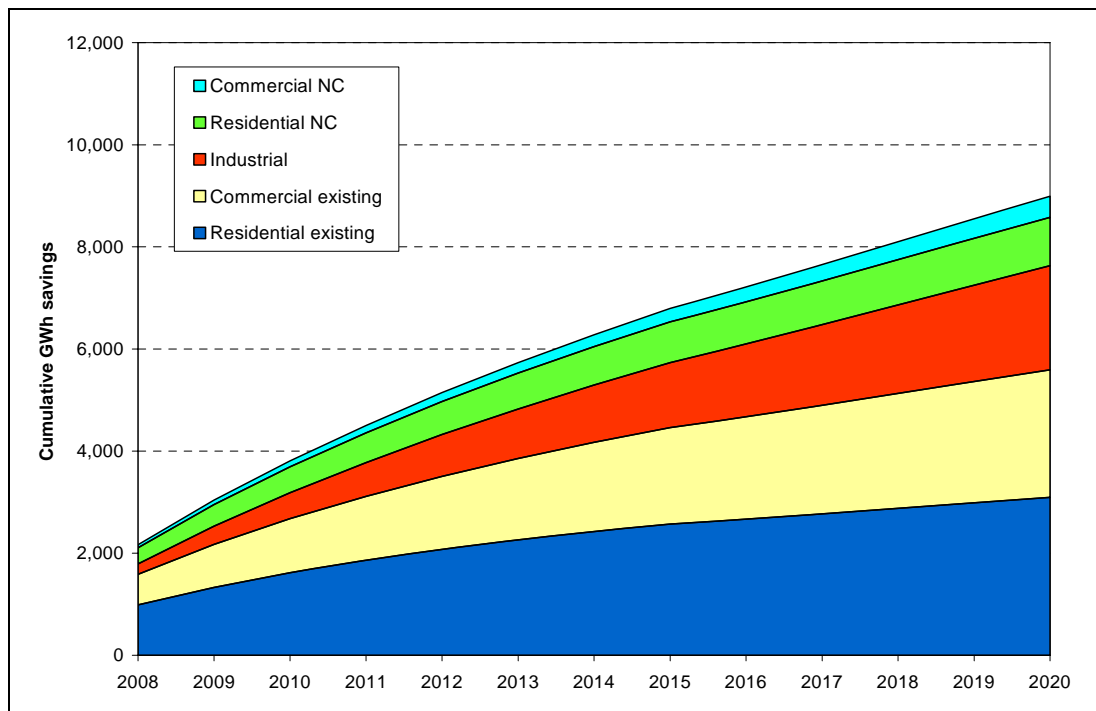


Table C1-10. Full market potential in the residential sector by end use and vintage in PG&E (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	105	87	70	22	18	13
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	237	158	79	78	52	26
Freezer	43	28	14	16	11	5
Pool Pump	1	1	1	0	0	0
Space Heating	178	148	119	8	7	5
Furnace Fan	0	0	0	14	11	9
Space Cooling	254	203	152	75	60	45
Lighting	2,713	2,467	1,233	868	789	394
Total	3,531	3,093	1,668	1,081	947	497

Table C1-11. Full market potential in the commercial sector by end use and vintage in PG&E (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	597	498	299	99	79	59
Space Heating	0	0	0	14	12	9
Ventilation	197	179	143	104	83	63
Water Heating	0	0	0	7	5	4
Com Cooking	75	68	55	0	0	0
Refrigeration	499	453	363	0	0	0
Interior Lighting	1,522	1,269	1,015	244	195	147
Office Equipment	11	10	8	0	0	0
Exterior Lighting	22	20	16	45	36	27
Miscellaneous	1	1	1	0	0	0
Total	2,925	2,498	1,899	514	411	308

**Table C1-12. Full market potential in the industrial sector by end use in PG&E
(cumulative gross GWh savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	43	34	26
Process Cooling	55	44	33
Pumps	742	594	445
Fans	193	154	116
Compressed Air	334	267	201
Process Drives	92	74	55
Industrial Lighting	421	337	252
Refrigeration	57	46	34
Industrial Other	10	8	6
Agriculture	604	483	362
Total	2,550	2,040	1,530

Figure C1-8. Uncertainty estimate for total full market potential in PG&E (gross savings)

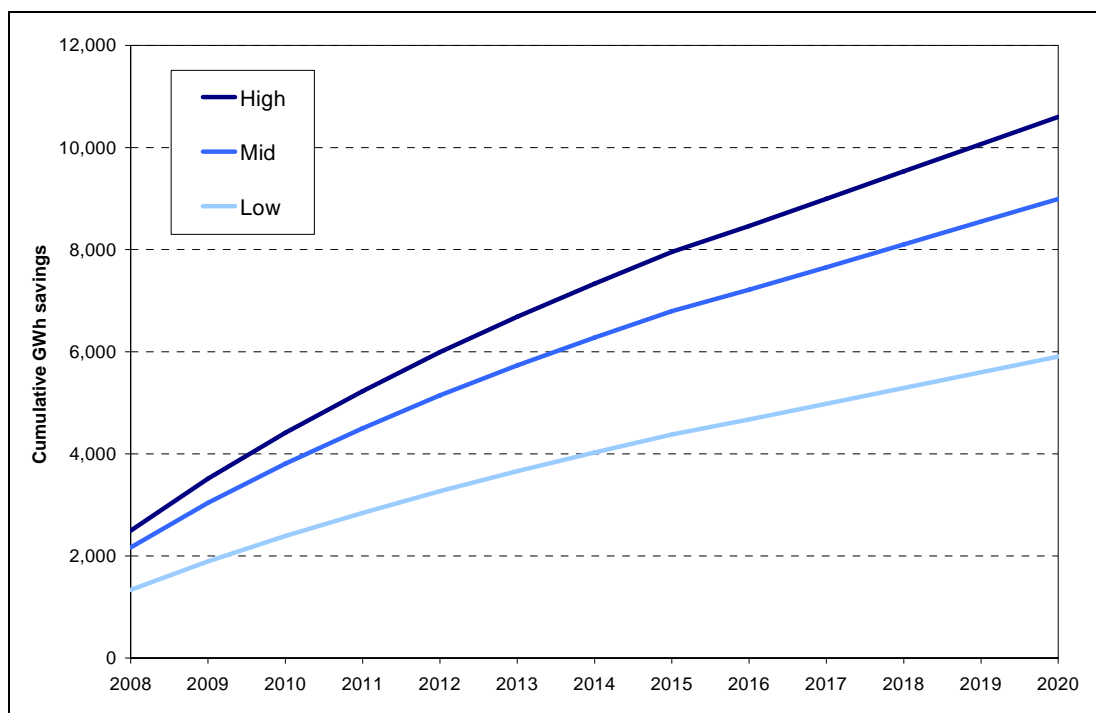
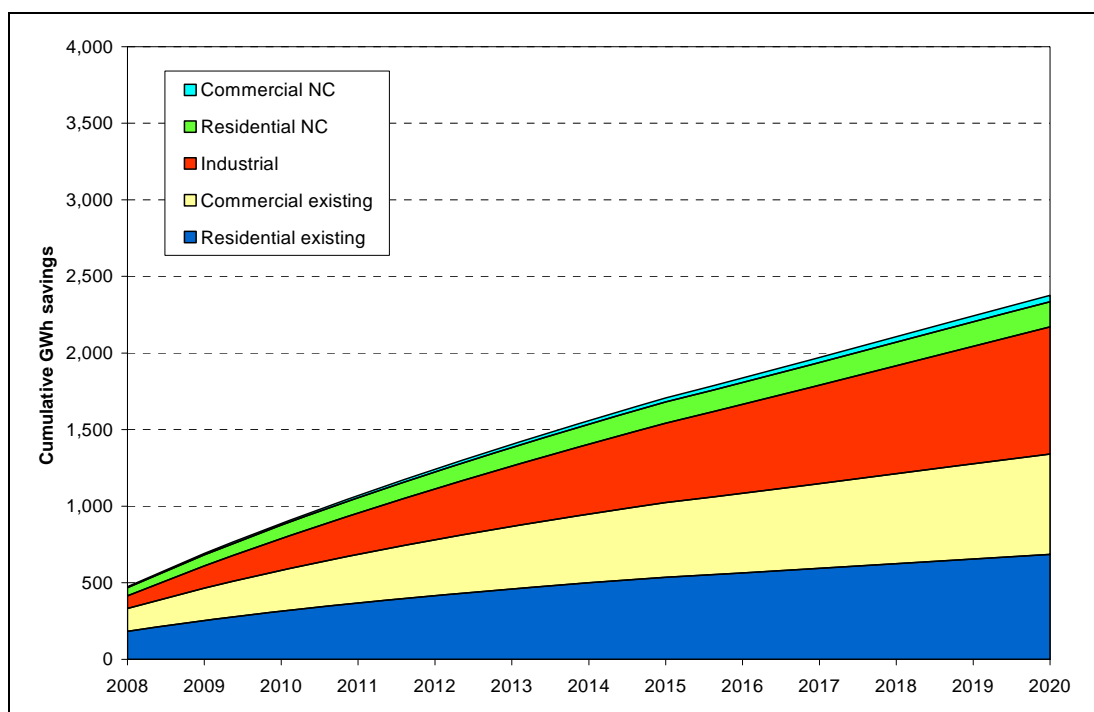


Figure C1-9. Naturally-occurring potential by sector and vintage in PG&E**Table C1-13. Naturally-occurring potential in the residential sector by end use and vintage in PG&E (cumulative GWh savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	83	69	55	2	2	1
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	83	55	28	27	18	9
Freezer	15	10	5	6	4	2
Pool Pump	1	1	1	0	0	0
Space Heating	67	56	45	1	1	1
Furnace Fan	0	0	0	2	1	1
Space Cooling	97	78	58	8	7	5
Lighting	1,042	417	333	332	133	106
Total	1,388	686	525	377	165	125

Table C1-14. Naturally-occurring potential in the commercial sector by end use and vintage in PG&E (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	189	151	113	11	9	6
Space Heating	0	0	0	2	1	1
Ventilation	8	7	6	11	9	7
Water Heating	0	0	0	1	1	0
Com Cooking	0	0	0	0	0	0
Refrigeration	211	192	153	0	0	0
Interior Lighting	365	304	243	24	19	14
Office Equipment	0	0	0	0	0	0
Exterior Lighting	0	0	0	4	3	2
Miscellaneous	0	0	0	0	0	0
Total	773	654	516	52	42	31

Table C1-15. Naturally-occurring potential in the industrial sector by end use in PG&E (cumulative GWh savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	16	13	9
Process Cooling	17	14	10
Pumps	256	205	154
Fans	46	37	27
Compressed Air	205	164	123
Process Drives	32	25	19
Industrial Lighting	122	97	73
Refrigeration	31	25	18
Industrial Other	3	3	2
Agriculture	311	249	186
Total	1,037	830	622

Figure C1-10. Uncertainty estimate for total naturally-occurring potential in PG&E

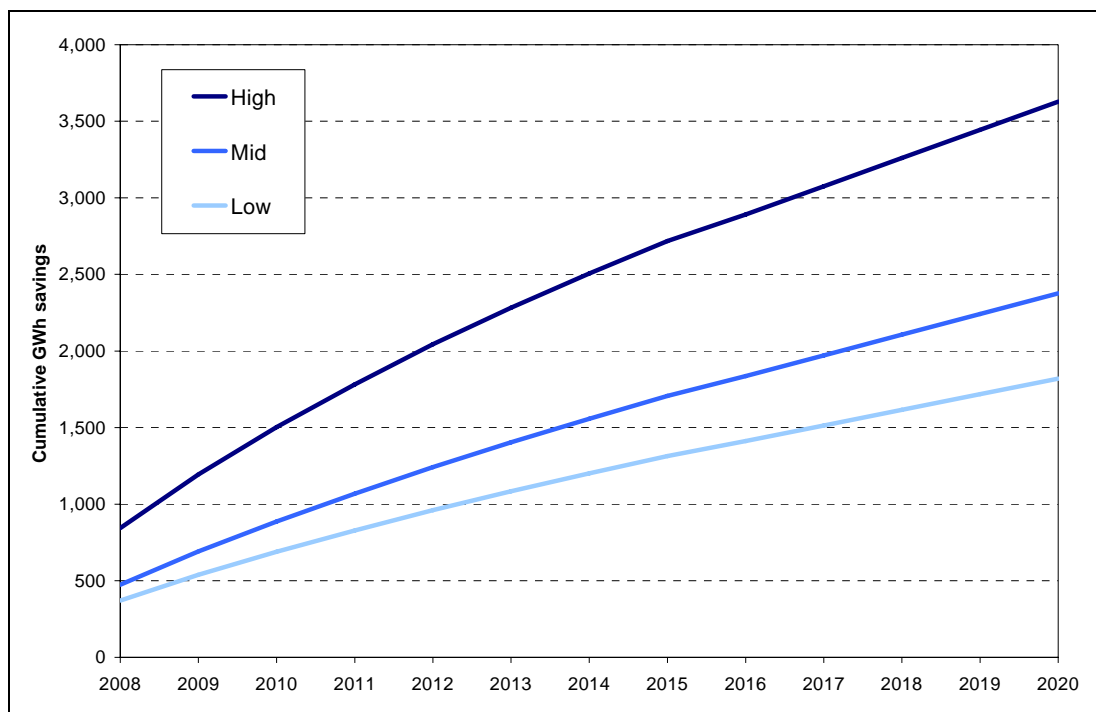


Figure C1-11. Estimated potential savings from BBEES initiatives in PG&E (gross savings incremental to base market potential)

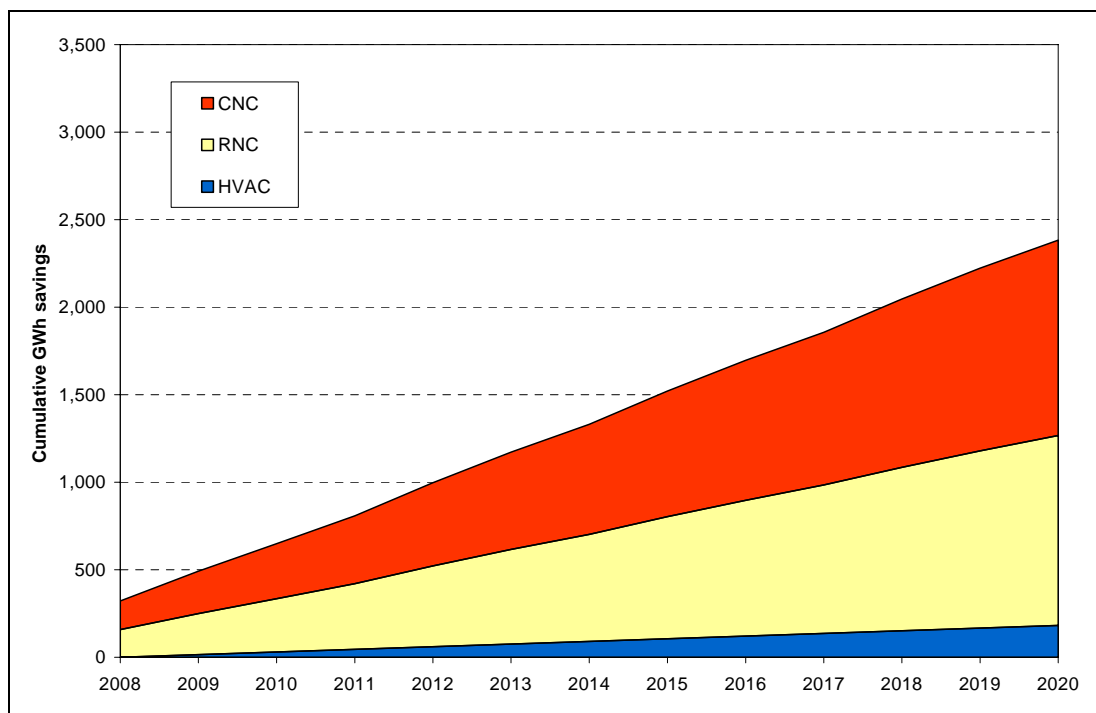


Figure C1-12. Uncertainty estimate for potential savings from all BB initiatives in PG&E (gross savings incremental to base market potential)

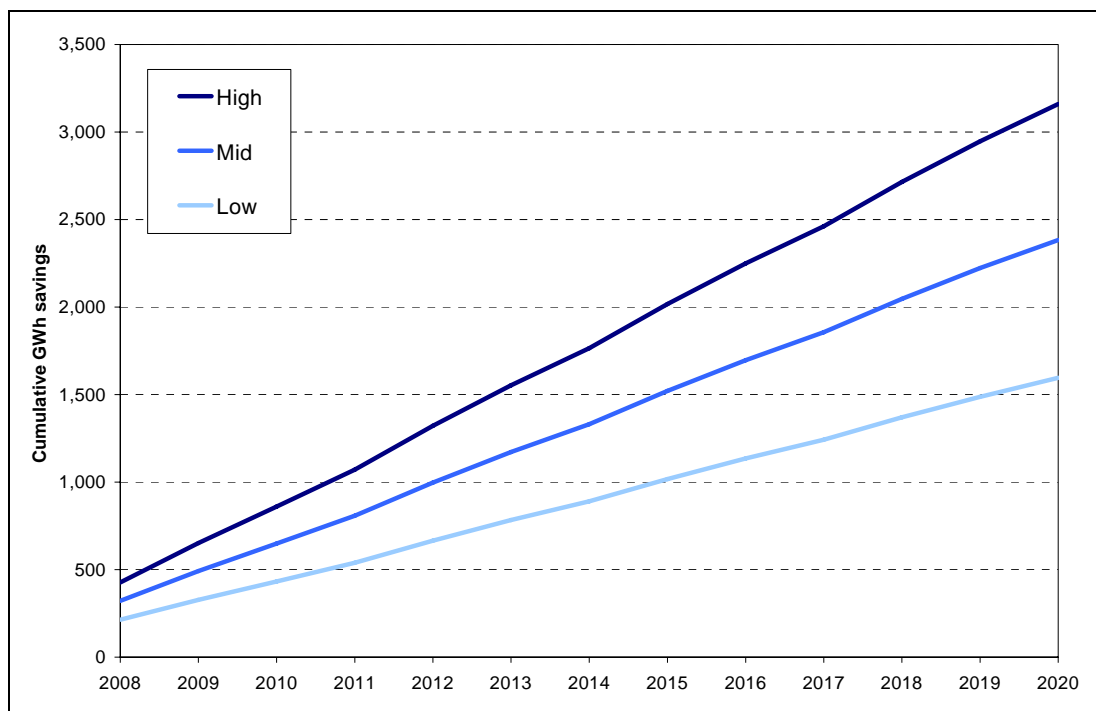


Figure C1-13. Impact of Huffman Bill on base market potential for lighting in PG&E (gross savings)

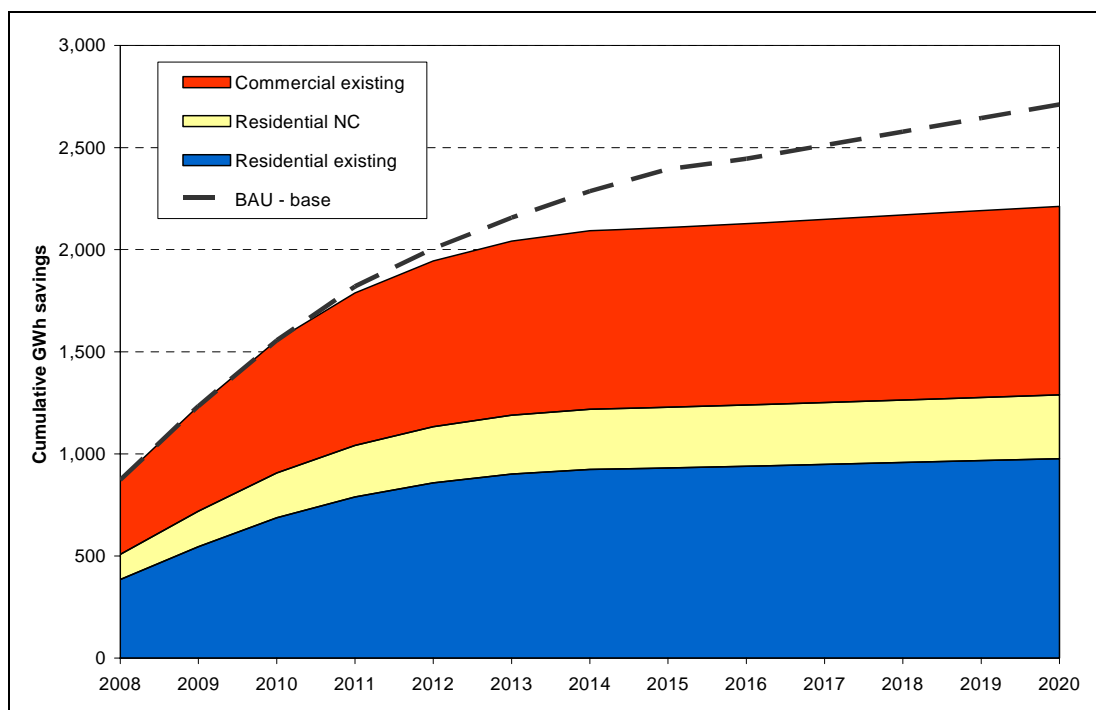


Figure C1-14. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction in PG&E (gross savings)

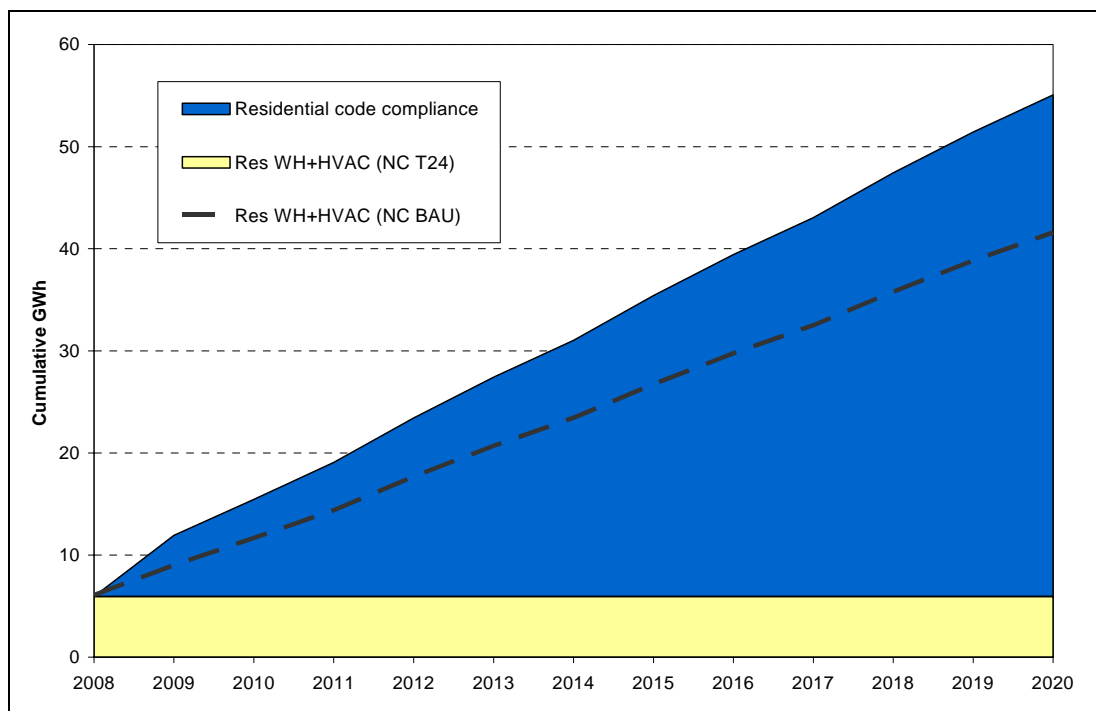


Figure C1-15. Total impact of future codes and standards on base market potential of IOU programs in PG&E (gross savings)

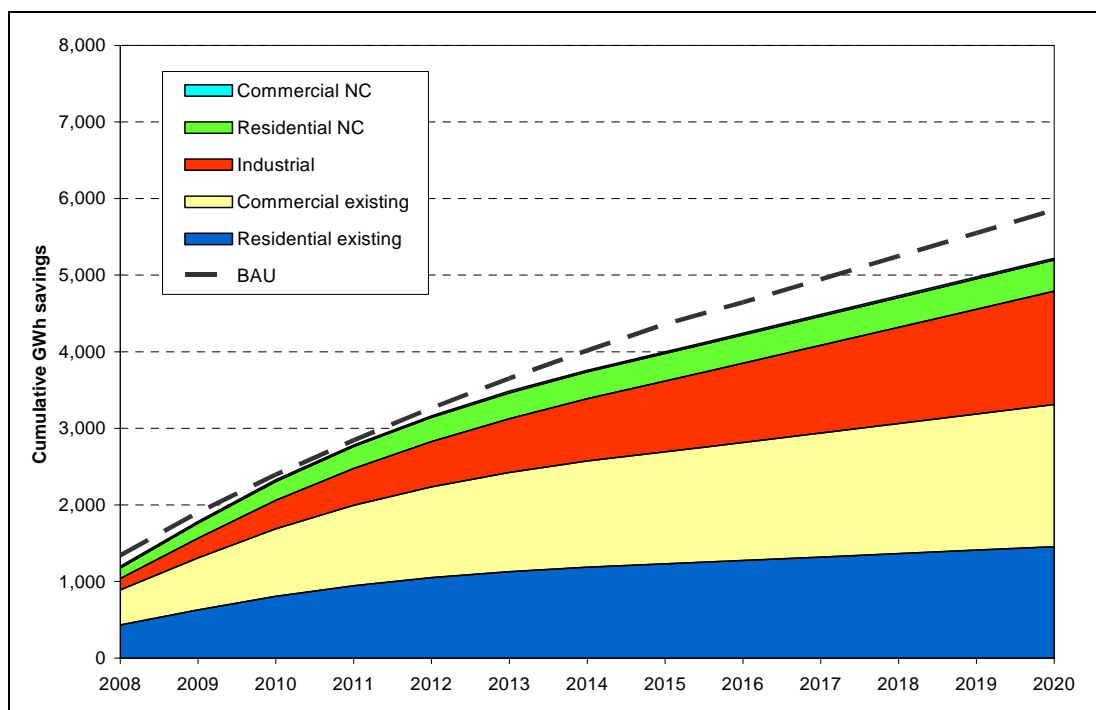


Figure C1-16. Uncertainty estimate of total base market potential of IOU programs in PG&E after accounting for impacts of future codes and standards (gross savings)

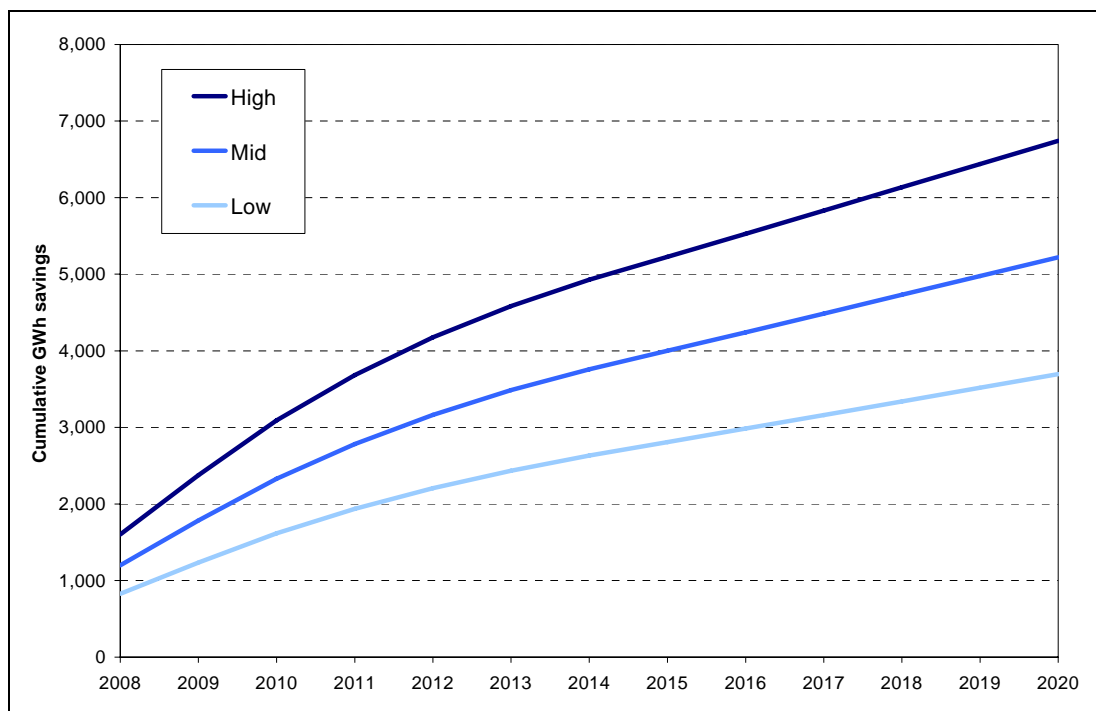


Figure C1-17. Estimated potential lighting savings in PG&E from implementation of the Huffman Bill (gross savings incremental to C&S-adjusted base market potential)

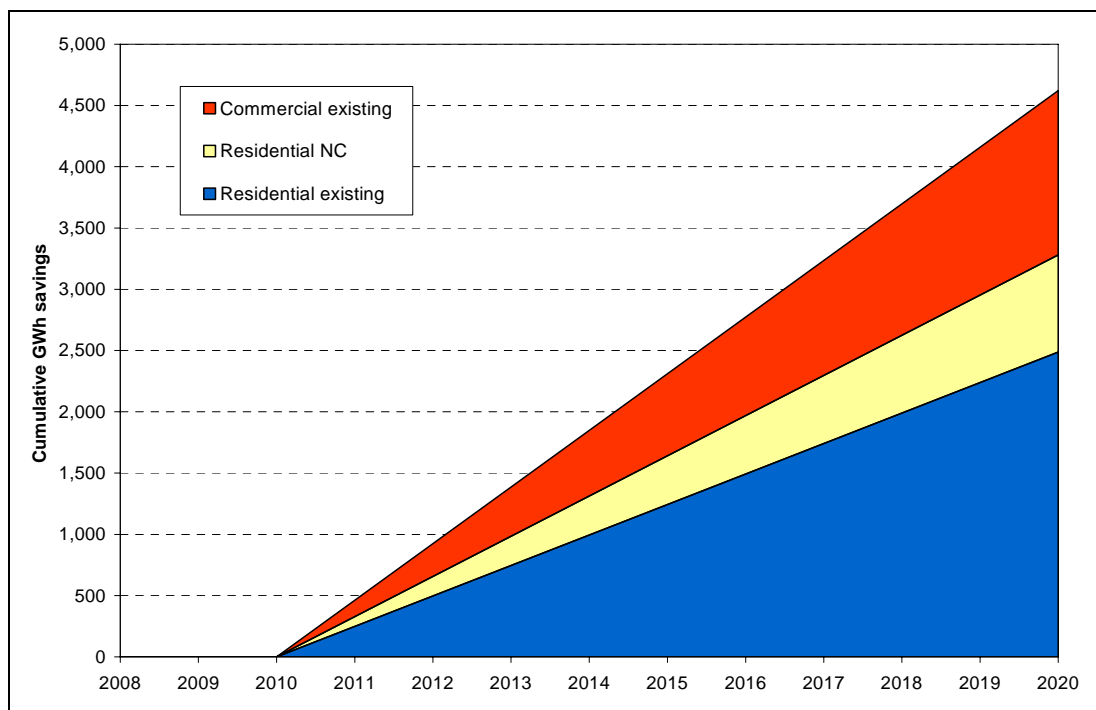


Figure C1-18. Estimated potential savings from implementation of the revisions to Title 24 in PG&E (gross savings incremental to C&S-adjusted base market potential)

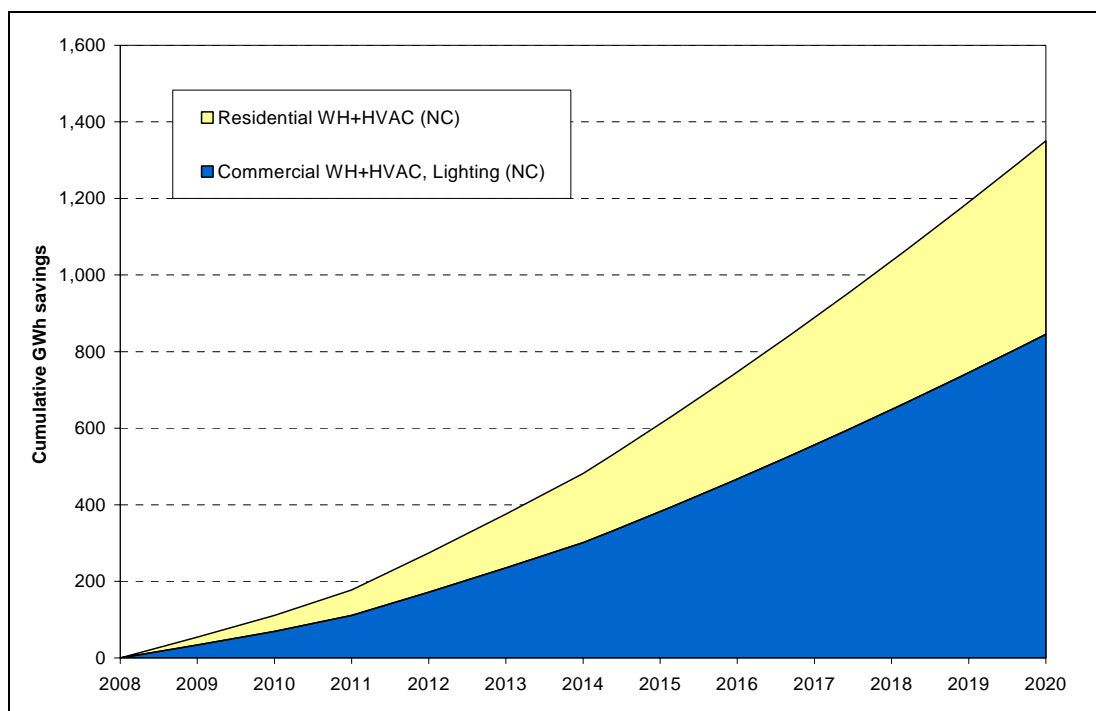


Figure C1-19. Estimated potential savings from implementation of the revised federal appliance standards in PG&E (gross savings incremental to C&S-adjusted base market potential)

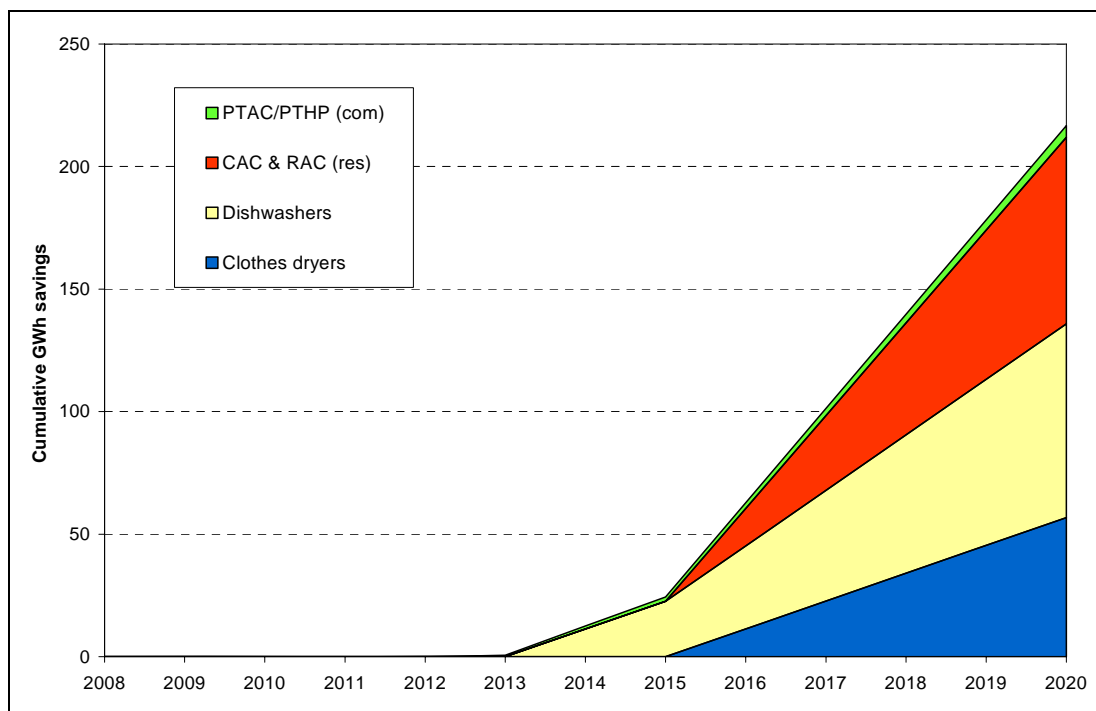


Figure C1-20. Estimated potential savings from future codes and standards in PG&E (gross savings incremental to C&S-adjusted base market potential)

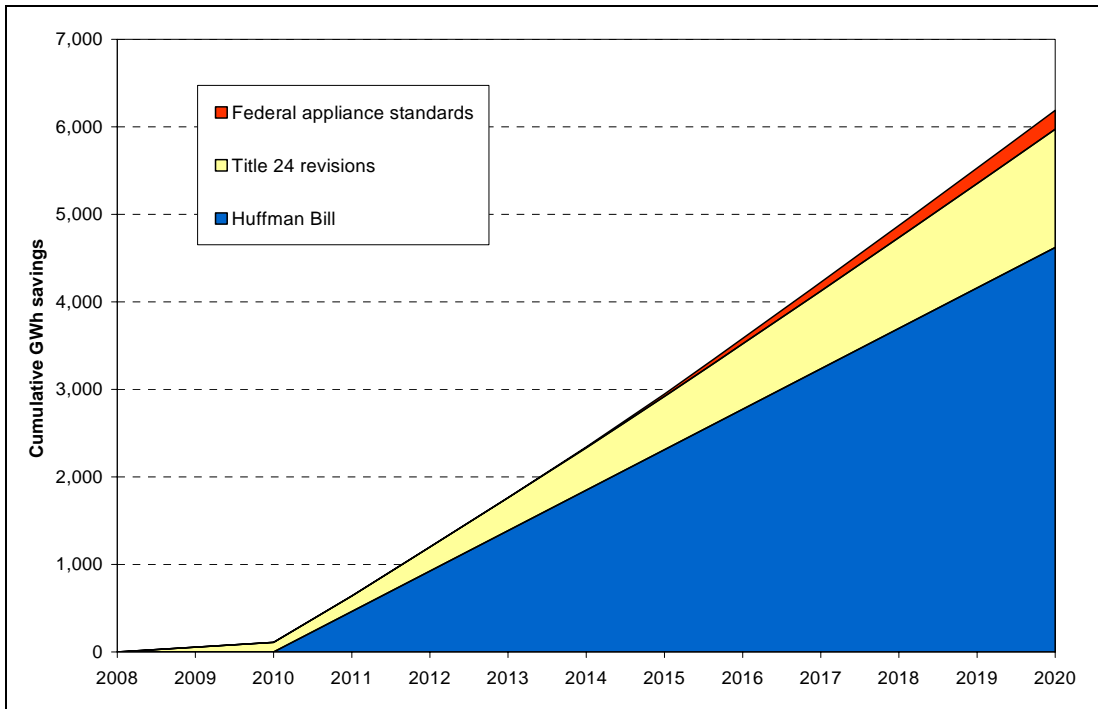


Figure C1-21. Uncertainty estimate of total potential savings from future codes and standards in PG&E (gross savings incremental to C&S-adjusted base market potential)

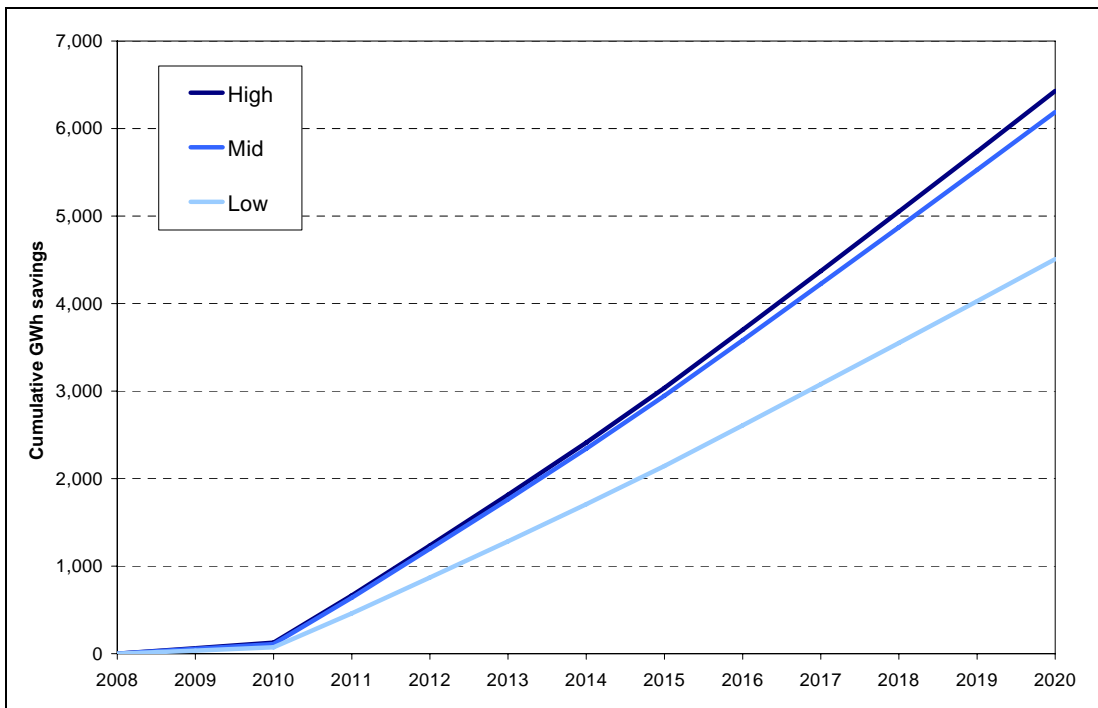


Figure C1-22. Estimated potential savings from all scenarios in PG&E (gross savings assuming base-funding for IOU programs)

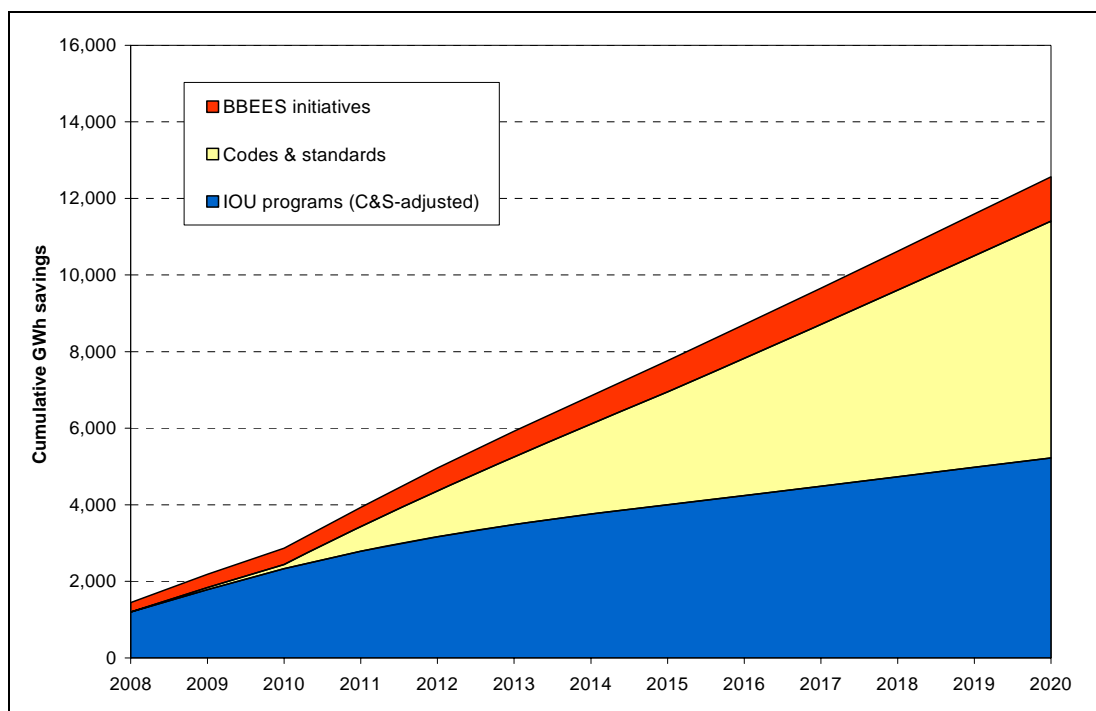


Figure C1-23. Estimated potential savings from all scenarios in PG&E (gross savings assuming full-funding for IOU programs)

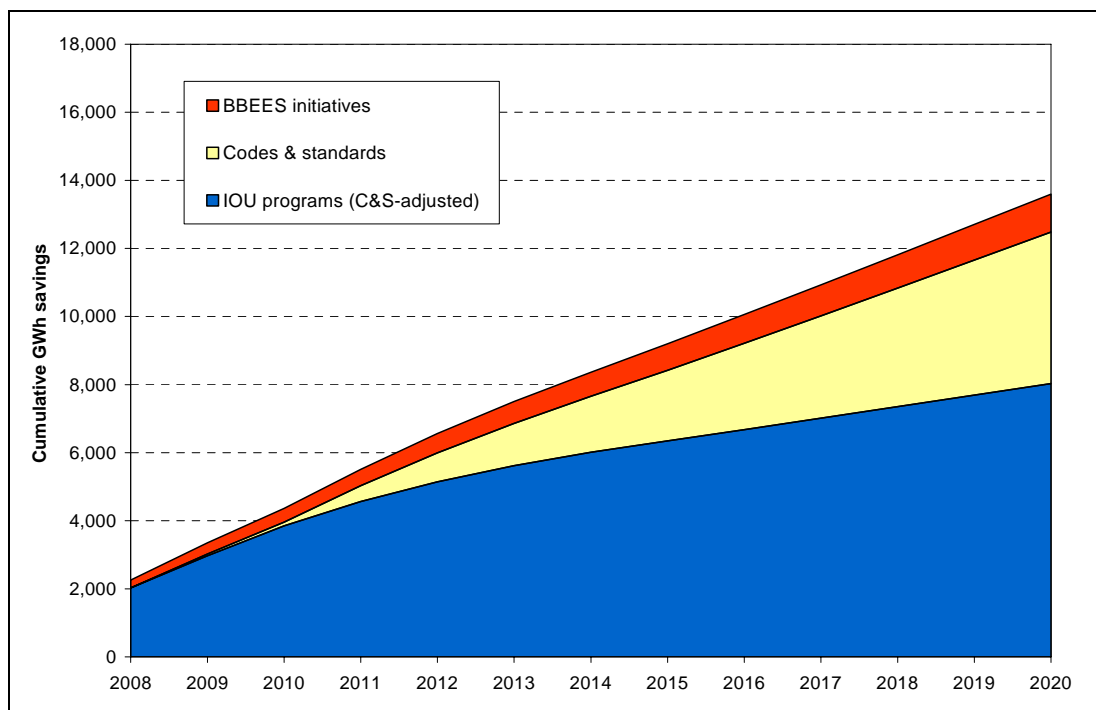


Table C1-16. Summary of estimated savings potential for each scenario in PG&E (cumulative gross GWh savings in 2020)

Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	HVAC	165	123	92	165	123	92
	RNC	878	615	434	871	607	426
	CNC	681	415	335	646	380	300
	Total	1,724	1,154	860	1,682	1,111	818
Huffman Bill	Res existing	2,488	2,488	1,866	1,414	1,414	1,061
	RNC	793	793	595	450	450	337
	CNC	1,341	1,341	1,006	1,018	1,018	764
	Total	4,621	4,621	3,466	2,883	2,883	2,162
Title 24 revisions	RNC	608	505	292	608	505	292
	CNC	930	845	575	930	845	575
	Total	1,538	1,350	868	1,538	1,350	868
Federal standards	Clothes dryers	68	57	45	68	57	45
	Dishwashers	95	79	63	95	79	63
	CAC & RAC (res)	101	76	61	101	76	61
	PTAC/PTHP (com)	6	5	4	6	5	4
	Total	270	217	173	270	217	173
IOU code compliance (res)	Total	78	49	31	76	49	33
IOU programs (C&S-adjusted)	Res existing	2,083	1,454	912	3,072	2,676	1,314
	Com existing	2,167	1,857	1,416	2,898	2,476	1,880
	Industrial	1,847	1,478	1,108	2,550	2,040	1,530
	RNC	616	409	240	908	781	356
	CNC	30	24	18	73	59	44
	Total	6,743	5,221	3,695	9,501	8,031	5,124
TOTAL GROSS SAVINGS POTENTIAL		14,975	12,613	9,094	15,950	13,641	9,178
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		<i>3,300</i>	<i>2,243</i>	<i>1,643</i>	<i>3,300</i>	<i>2,243</i>	<i>1,643</i>

Figure C1-24. Uncertainty estimate of total potential savings from all scenarios in PG&E (gross savings assuming base-funding for IOU programs)

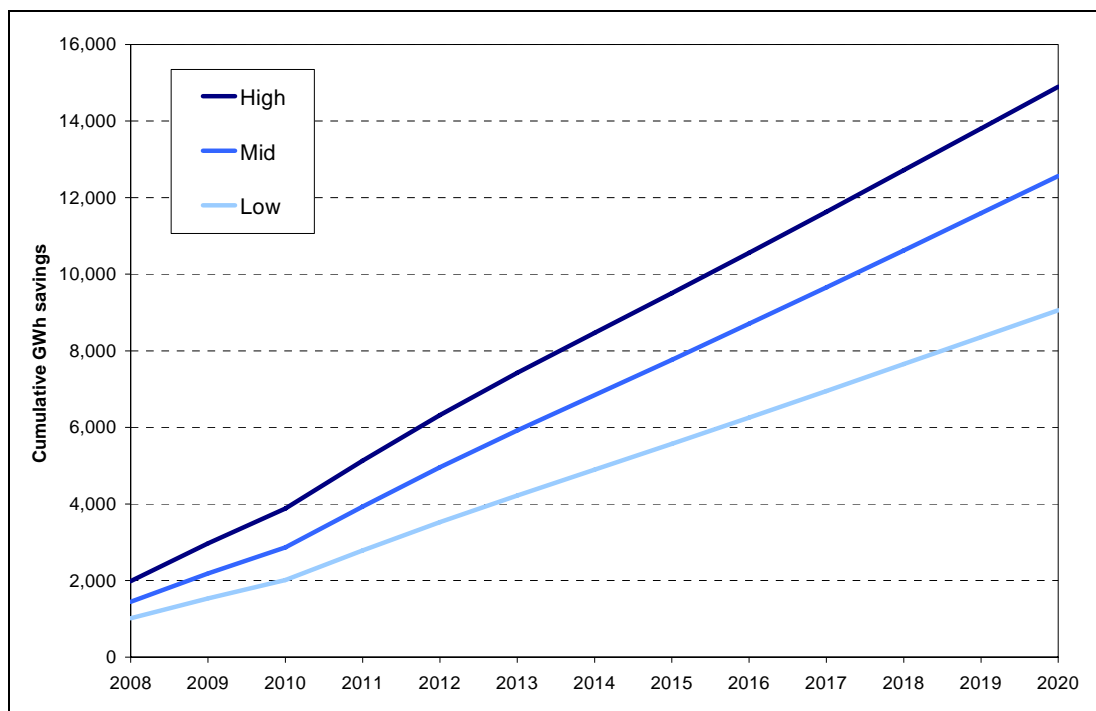


Figure C1-25. Uncertainty estimate of total potential savings from all scenarios in PG&E (gross savings assuming full-funding for IOU programs)

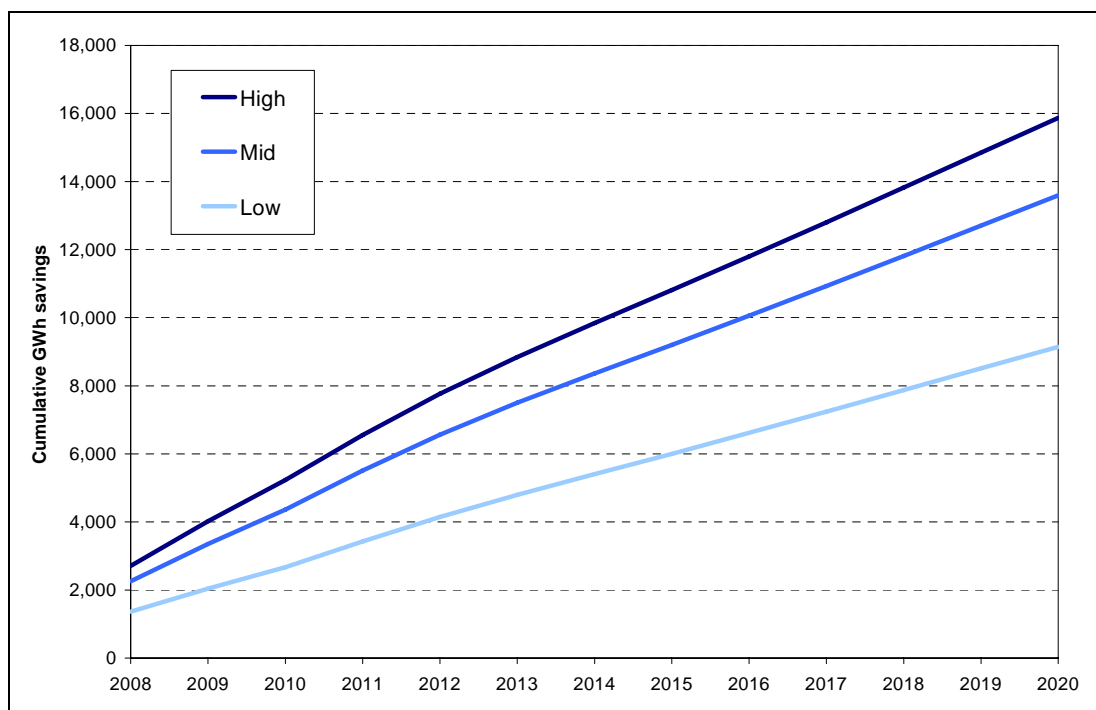


Figure C1-26. Cumulative savings from High, Mid and Low Cases compared to current goals through 2013 in PG&E

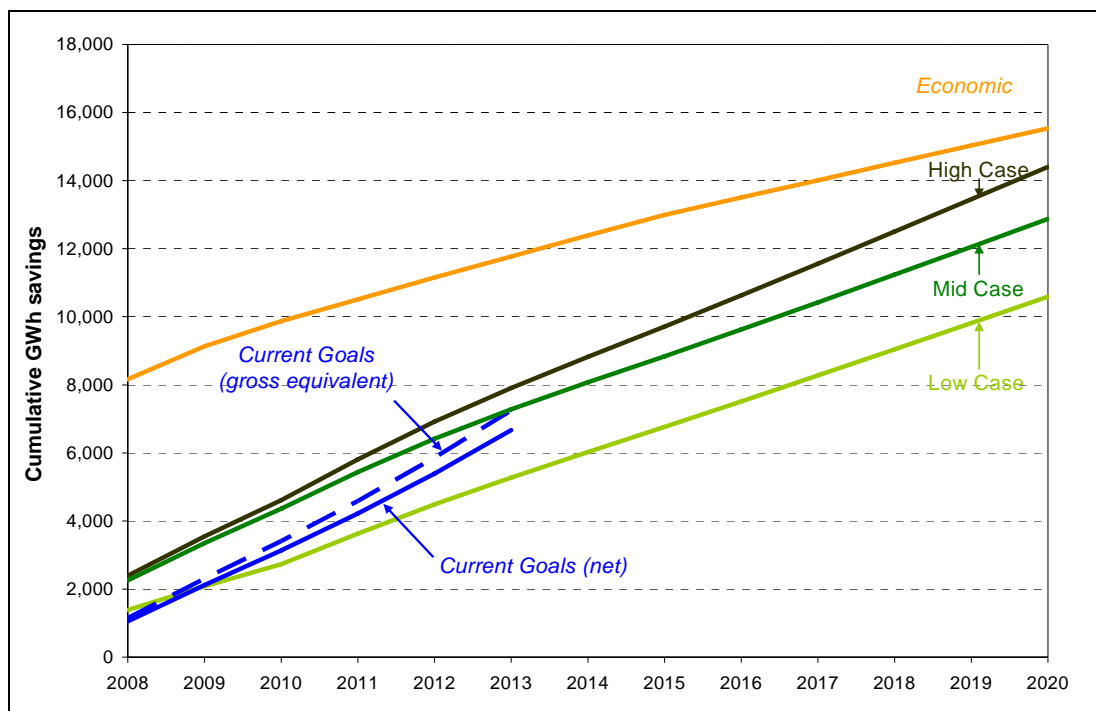


Figure C1-27. Composition of savings across mechanisms in the Low Case in PG&E

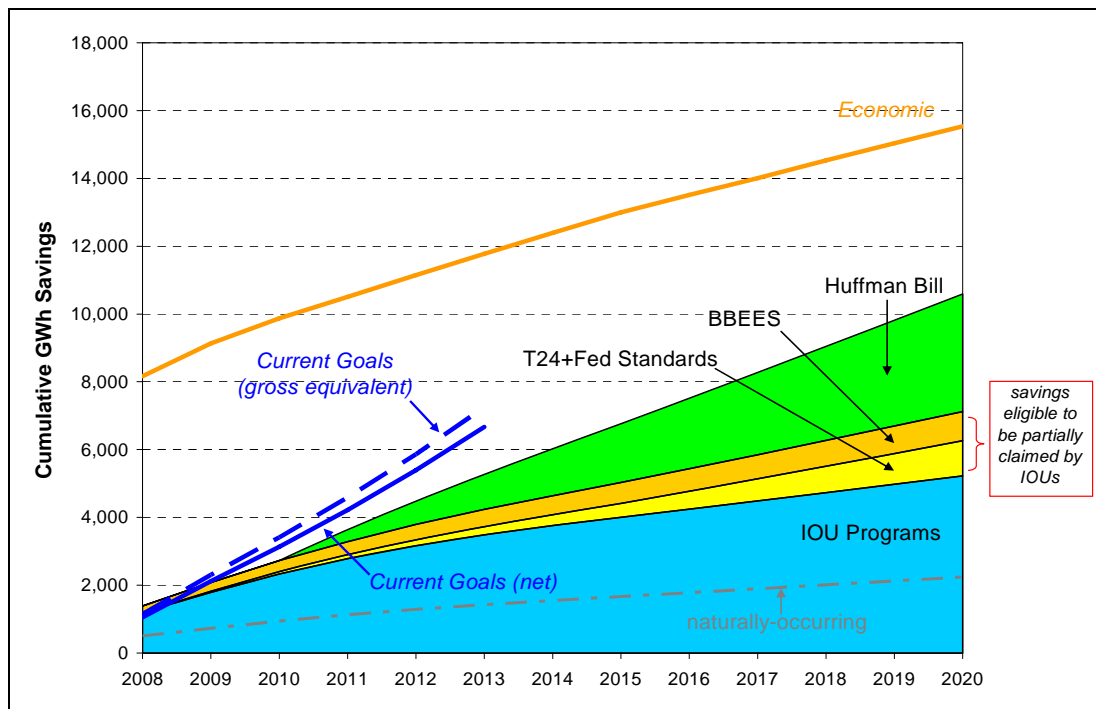


Figure C1-28. Composition of savings across mechanisms in the Mid Case in PG&E

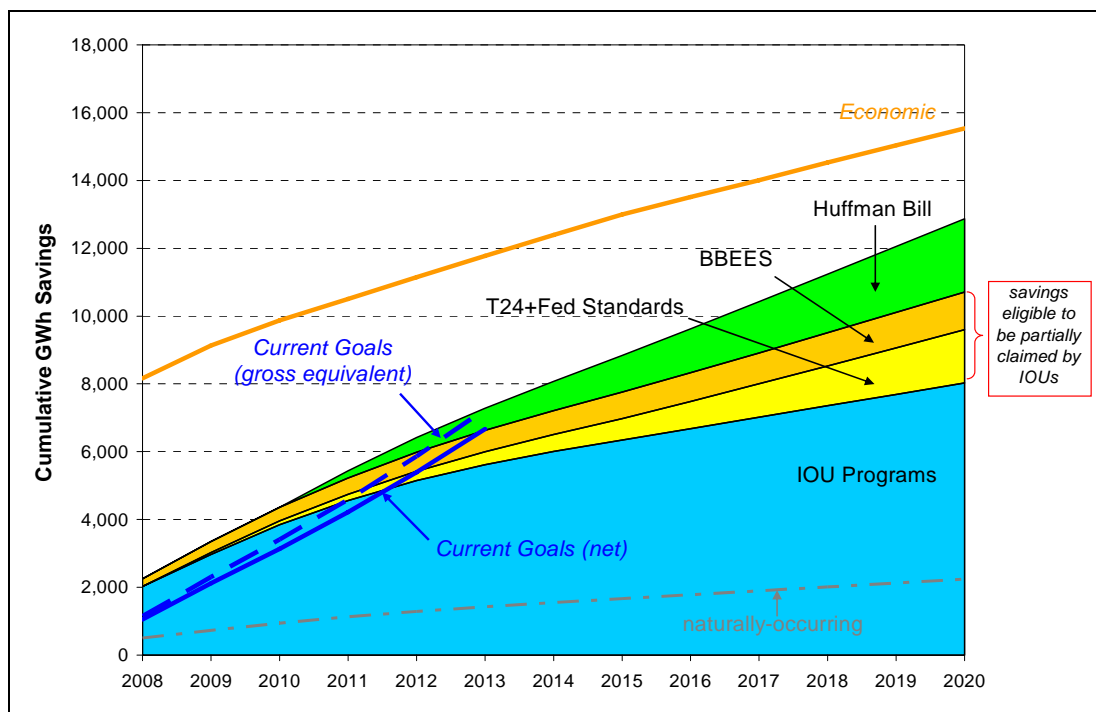


Figure C1-29. Composition of savings across mechanisms in the High Case in PG&E

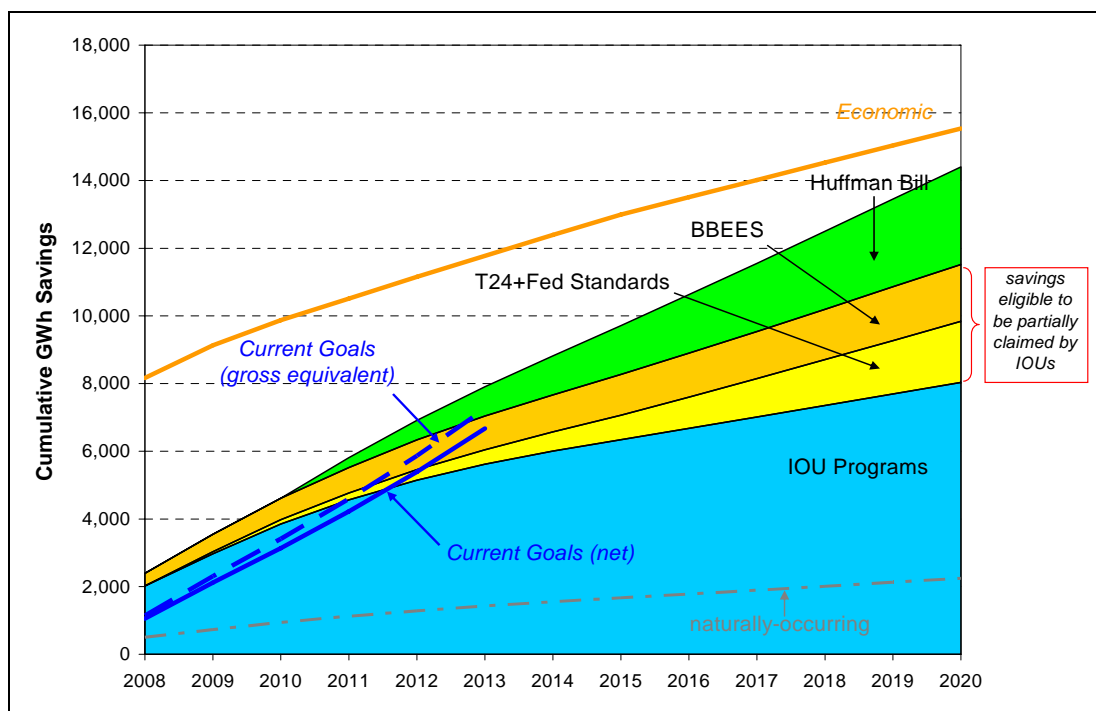


Table C1-17. Estimated savings in the High, Mid, and Low straw man cases in PG&E (cumulative GWh savings in 2020)

Savings mechanism:	Low Case	Mid Case	High Case
Utility programs (gross)	5,221	8,031	8,031
Huffman Bill	3,466	2,162	2,883
Codes & standards	1,041	1,567	1,808
BBEES initiatives	860	1,111	1,682
Total	10,589	12,871	14,403

Table C1-18. Cumulative GWh energy savings by saving mechanism in the High, Mid, and Low straw man cases in PG&E over time

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Huffman Bill	0	0	0	347	693	1040	1386	1733	2080	2426	2773	3120	3466
	T24+Federal Standards	0	35	71	114	176	242	320	412	530	652	778	908	1041
	BBEES	189	263	327	387	451	508	559	616	663	709	762	812	860
	IOU Programs	1198	1784	2329	2784	3165	3486	3760	4001	4242	4486	4732	4977	5221
Mid	Huffman Bill	0	0	0	216	432	649	865	1081	1297	1513	1730	1946	2162
	T24+Federal Standards	0	54	111	177	274	376	494	636	810	990	1176	1369	1567
	BBEES	231	325	406	482	565	639	707	782	846	908	979	1047	1111
	IOU Programs	2023	2972	3848	4562	5144	5618	6010	6342	6675	7013	7353	7693	8031
High	Huffman Bill	0	0	0	288	577	865	1153	1441	1730	2018	2306	2594	2883
	T24+Federal Standards	0	62	126	202	312	429	564	725	928	1137	1354	1577	1808
	BBEES	370	515	640	757	882	993	1094	1205	1297	1388	1491	1589	1682
	IOU Programs	2023	2972	3848	4562	5144	5618	6010	6342	6675	7013	7353	7693	8031
Benchmarks	<i>Economic</i>	8166	9131	9872	10510	11151	11772	12391	12995	13509	14011	14529	15037	15537
	<i>Current IOU Goals (gross equivalent)</i>	1145	2304	3408	4588	5863	7251							
	<i>Current IOU Goals (net)</i>	1053	2120	3135	4221	5394	6671							

Appendix C2

Scenario Results for SCE

Figure C2-1. Technical potential by sector and vintage in SCE

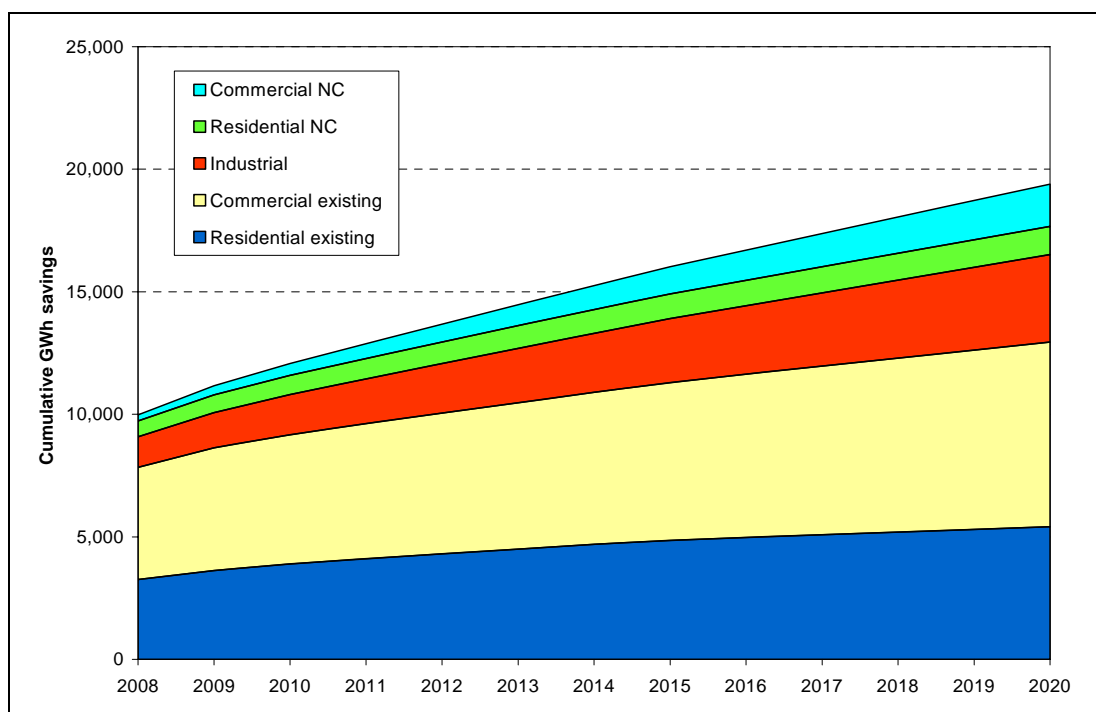


Table C2-1. Technical potential in the residential sector by end use and vintage in SCE (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	205	186	149	4	3	2
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	331	301	210	69	63	44
Freezer	0	0	0	0	0	0
Pool Pump	24	20	16	0	0	0
Space Heating	289	241	193	0	0	0
Furnace Fan	0	0	0	23	19	14
Space Cooling	898	675	540	271	217	163
Lighting	4,389	3,990	2,793	932	847	593
Total	6,135	5,413	3,901	1,300	1,149	816

Table C2-2. Technical potential in the commercial sector by end use and vintage in SCE (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	1,679	1,399	1,119	549	439	329
Space Heating	0	0	0	37	30	22
Ventilation	373	311	248	363	290	218
Water Heating	0	0	0	31	25	18
Com Cooking	549	457	366	0	0	0
Refrigeration	1,490	1,490	745	0	0	0
Interior Lighting	3,553	3,230	2,584	958	766	575
Office Equipment	341	310	248	0	0	0
Exterior Lighting	330	300	240	213	171	128
Miscellaneous	34	34	34	0	0	0
Total	8,349	7,532	5,585	2,150	1,720	1,290

Table C2-3. Technical potential in the industrial sector by end use in SCE (cumulative GWh savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	164	65	52
Process Cooling	384	307	230
Pumps	1,041	946	625
Fans	408	327	245
Compressed Air	686	549	412
Process Drives	306	245	184
Industrial Lighting	642	513	385
Refrigeration	31	25	19
Industrial Other	49	39	29
Agriculture	694	555	417
Total	4,405	3,572	2,597

Figure C2-2. Uncertainty estimate for total technical potential in SCE

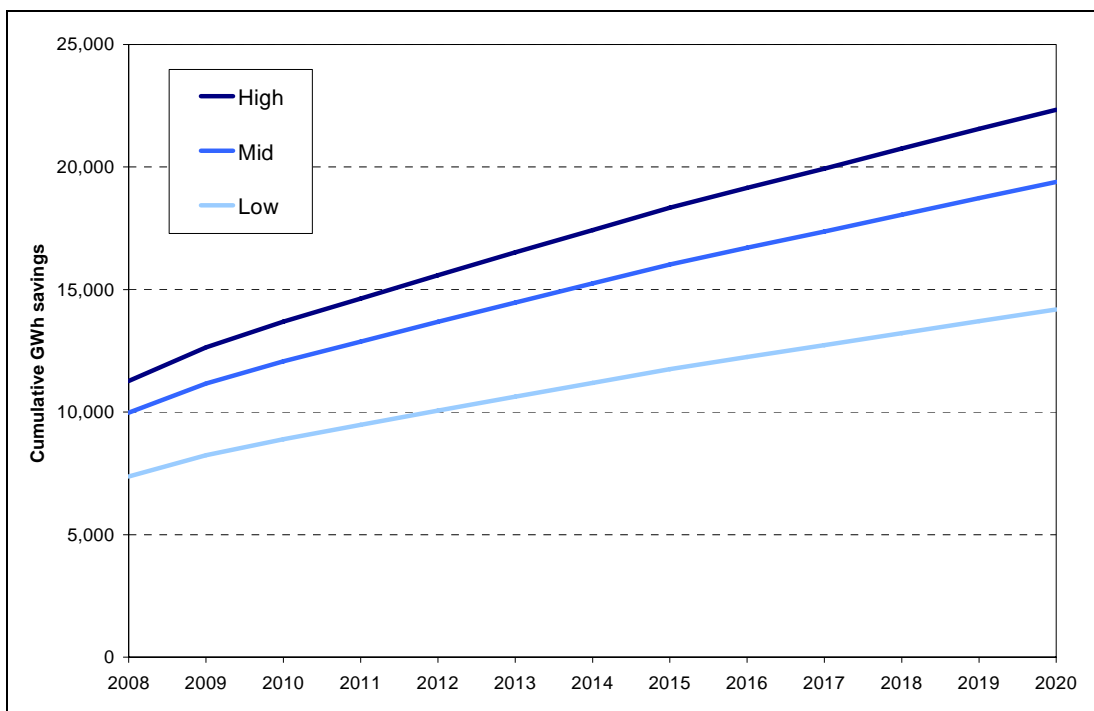


Figure C2-3. Economic potential by sector and vintage in SCE

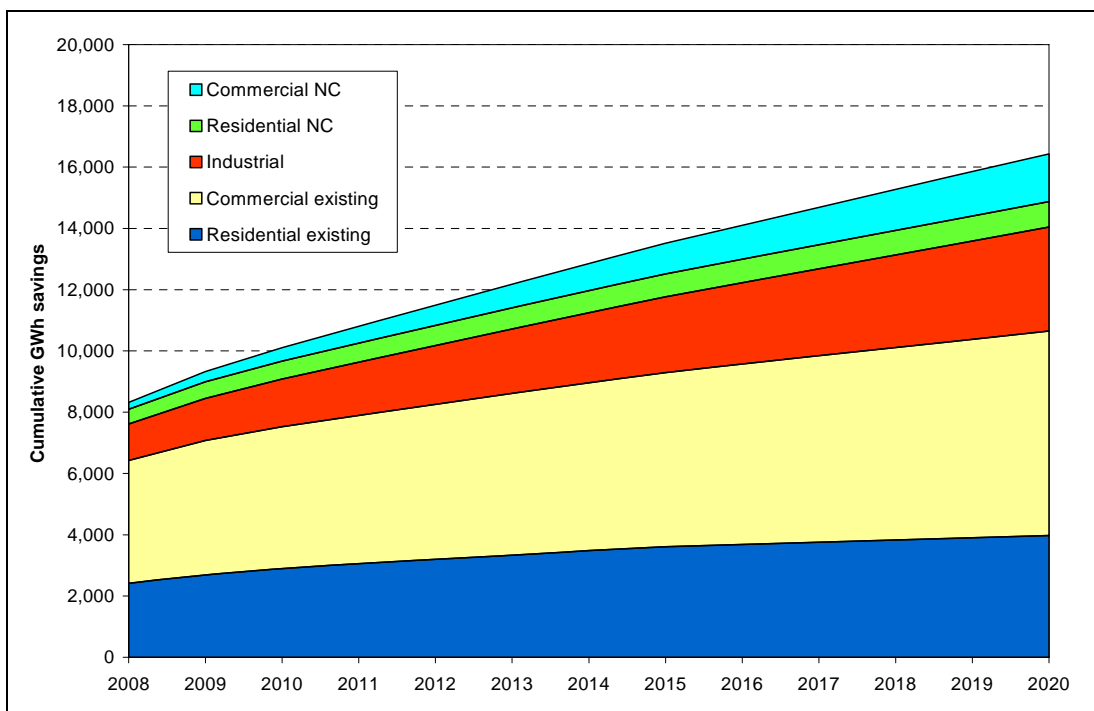


Table C2-4. Economic potential in the residential sector by end use and vintage in SCE (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	85	57	45	2	1	1
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	0	0	0	0	0	0
Freezer	0	0	0	0	0	0
Pool Pump	24	20	16	0	0	0
Space Heating	230	192	154	0	0	0
Furnace Fan	0	0	0	11	9	6
Space Cooling	360	300	240	125	100	75
Lighting	3,744	3,404	2,383	795	722	506
Total	4,443	3,972	2,837	932	832	588

Table C2-5. Economic potential in the commercial sector by end use and vintage in SCE (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	1,565	1,304	1,043	479	383	288
Space Heating	0	0	0	37	29	22
Ventilation	367	306	245	326	261	196
Water Heating	0	0	0	27	21	16
Com Cooking	384	320	256	0	0	0
Refrigeration	1,402	1,402	701	0	0	0
Interior Lighting	3,251	2,956	2,364	891	713	535
Office Equipment	293	266	213	0	0	0
Exterior Lighting	101	92	73	189	151	113
Miscellaneous	34	34	34	0	0	0
Total	7,396	6,679	4,930	1,949	1,559	1,169

**Table C2-6. Economic potential in the industrial sector by end use in SCE
(cumulative GWh savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	163	65	52
Process Cooling	259	207	156
Pumps	1,023	930	614
Fans	387	310	232
Compressed Air	666	533	400
Process Drives	280	224	168
Industrial Lighting	627	502	376
Refrigeration	31	25	19
Industrial Other	49	39	29
Agriculture	694	555	417
Total	4,181	3,391	2,463

Figure C2-4. Uncertainty estimate for total economic potential in SCE

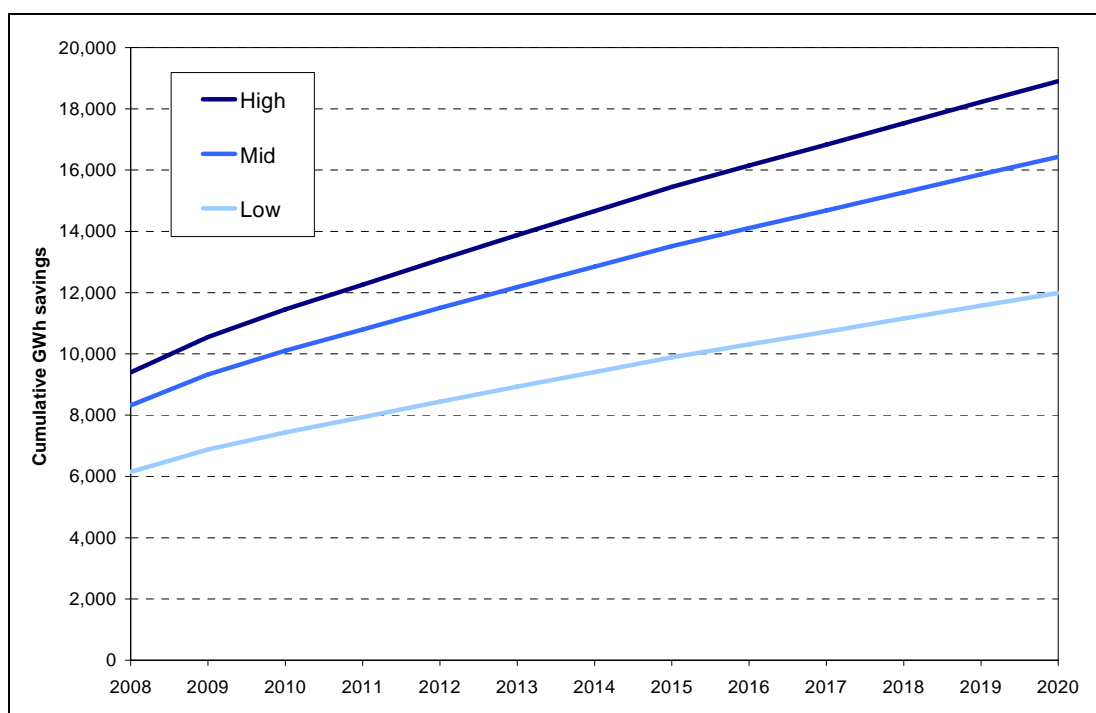


Figure C2-5. Base market potential by sector and vintage in SCE (gross savings)

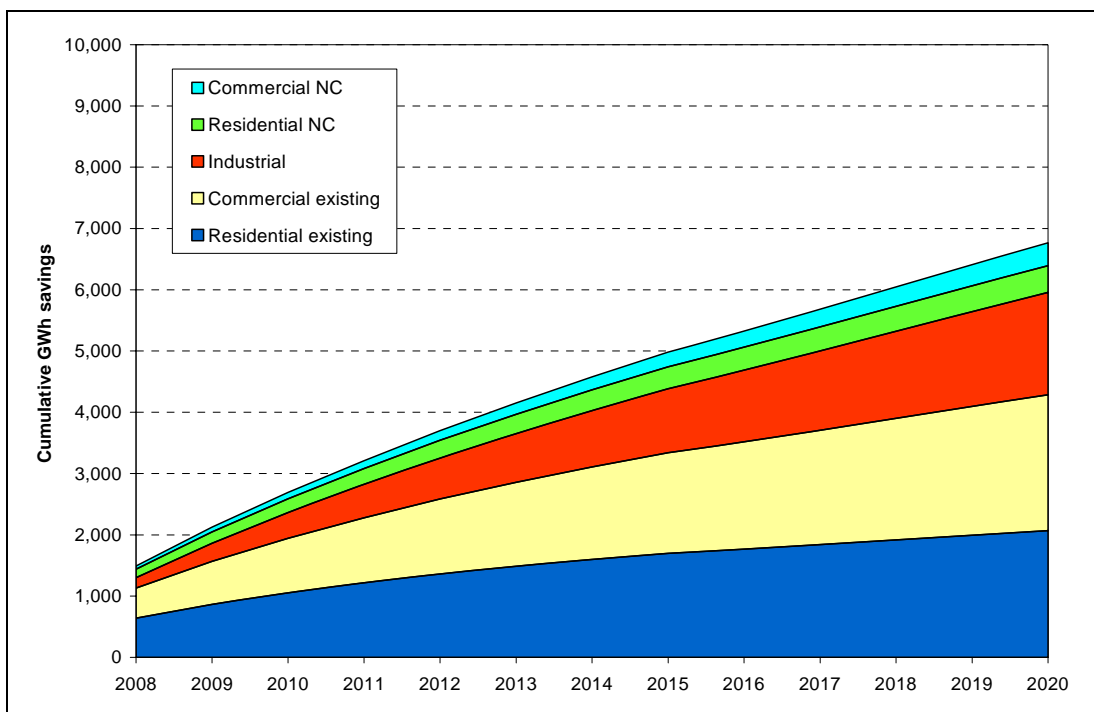


Table C2-7. Base market potential in the residential sector by end use and vintage in SCE (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	6	5	4	0	0	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	405	270	135	84	56	28
Freezer	123	82	41	25	16	8
Pool Pump	2	1	1	0	0	0
Space Heating	32	27	21	0	0	0
Furnace Fan	0	0	0	3	2	2
Space Cooling	138	111	83	33	26	20
Lighting	2,357	1,572	1,179	503	336	252
Total	3,064	2,068	1,464	648	437	309

Table C2-8. Base market potential in the commercial sector by end use and vintage in SCE (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	703	586	352	122	98	73
Space Heating	0	0	0	6	5	4
Ventilation	204	186	149	81	65	49
Water Heating	0	0	0	6	5	4
Com Cooking	11	10	8	0	0	0
Refrigeration	452	411	329	0	0	0
Interior Lighting	1,185	987	790	206	165	124
Office Equipment	28	26	20	0	0	0
Exterior Lighting	13	12	10	42	34	25
Miscellaneous	1	1	1	0	0	0
Total	2,597	2,218	1,658	463	371	278

Table C2-9. Base market potential in the industrial sector by end use in SCE (cumulative gross GWh savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	31	25	19
Process Cooling	50	40	30
Pumps	581	465	348
Fans	144	115	86
Compressed Air	288	230	173
Process Drives	108	86	65
Industrial Lighting	315	252	189
Refrigeration	26	21	16
Industrial Other	11	8	6
Agriculture	537	430	322
Total	2,091	1,673	1,254

Figure C2-6. Uncertainty estimate for total base market potential in SCE (gross savings)

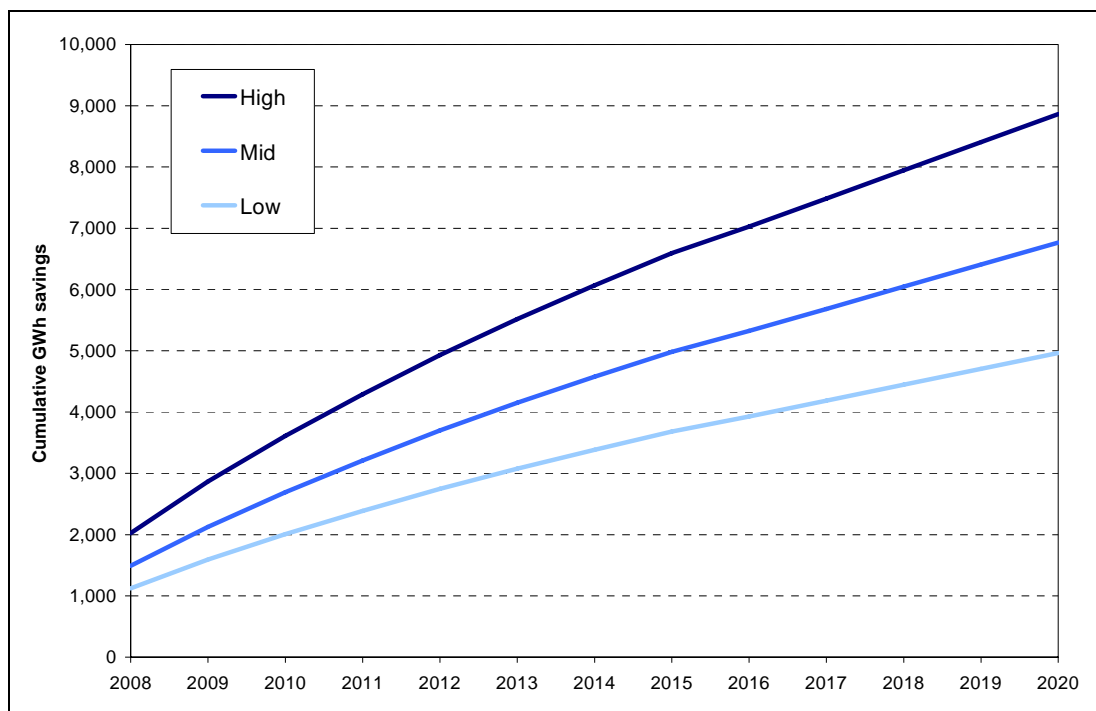


Figure C2-7. Full market potential by sector and vintage in SCE (gross savings)

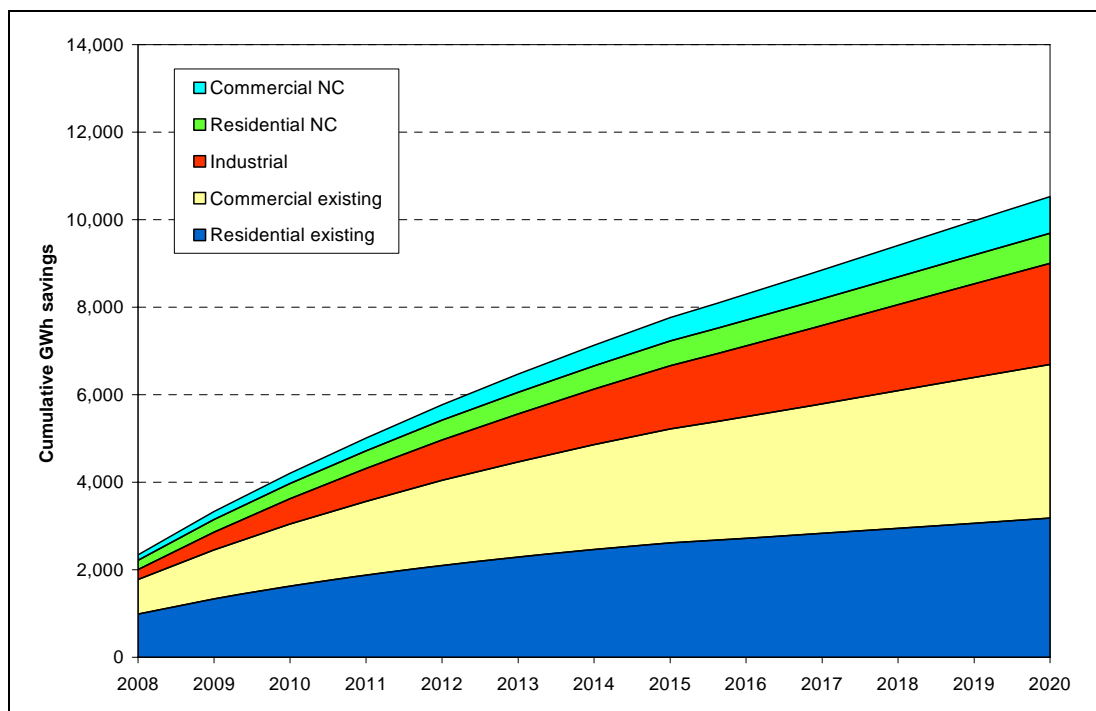


Table C2-10. Full market potential in the residential sector by end use and vintage in SCE (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	20	17	13	1	1	1
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	585	390	195	121	81	40
Freezer	188	125	63	37	25	12
Pool Pump	2	1	1	0	0	0
Space Heating	58	48	38	0	0	0
Furnace Fan	0	0	0	6	5	4
Space Cooling	207	165	124	71	57	42
Lighting	2,675	2,431	1,216	570	519	259
Total	3,734	3,178	1,650	807	687	359

Table C2-11. Full market potential in the commercial sector by end use and vintage in SCE (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	1,115	929	557	274	219	164
Space Heating	0	0	0	16	12	9
Ventilation	240	218	175	176	141	106
Water Heating	0	0	0	16	13	10
Com Cooking	27	24	19	0	0	0
Refrigeration	698	635	508	0	0	0
Interior Lighting	1,896	1,580	1,264	454	363	272
Office Equipment	45	41	33	0	0	0
Exterior Lighting	90	82	66	108	87	65
Miscellaneous	5	5	5	0	0	0
Total	1,115	929	557	274	219	164

**Table C2-12. Full market potential in the industrial sector by end use in SCE
(cumulative gross GWh savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	52	42	31
Process Cooling	96	77	58
Pumps	770	616	462
Fans	244	195	146
Compressed Air	339	271	203
Process Drives	179	143	108
Industrial Lighting	527	422	316
Refrigeration	30	24	18
Industrial Other	18	15	11
Agriculture	633	506	380
Total	2,889	2,311	1,733

Figure C2-8. Uncertainty estimate for total full market potential in SCE (gross savings)

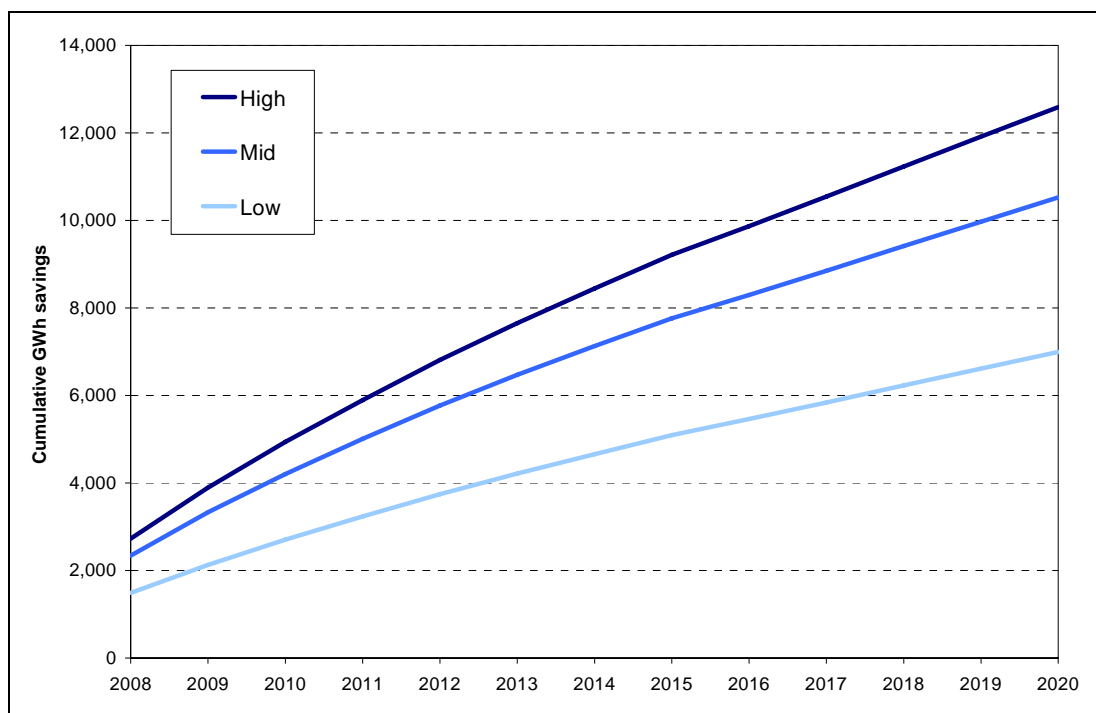


Figure C2-9. Naturally-occurring potential by sector and vintage in SCE

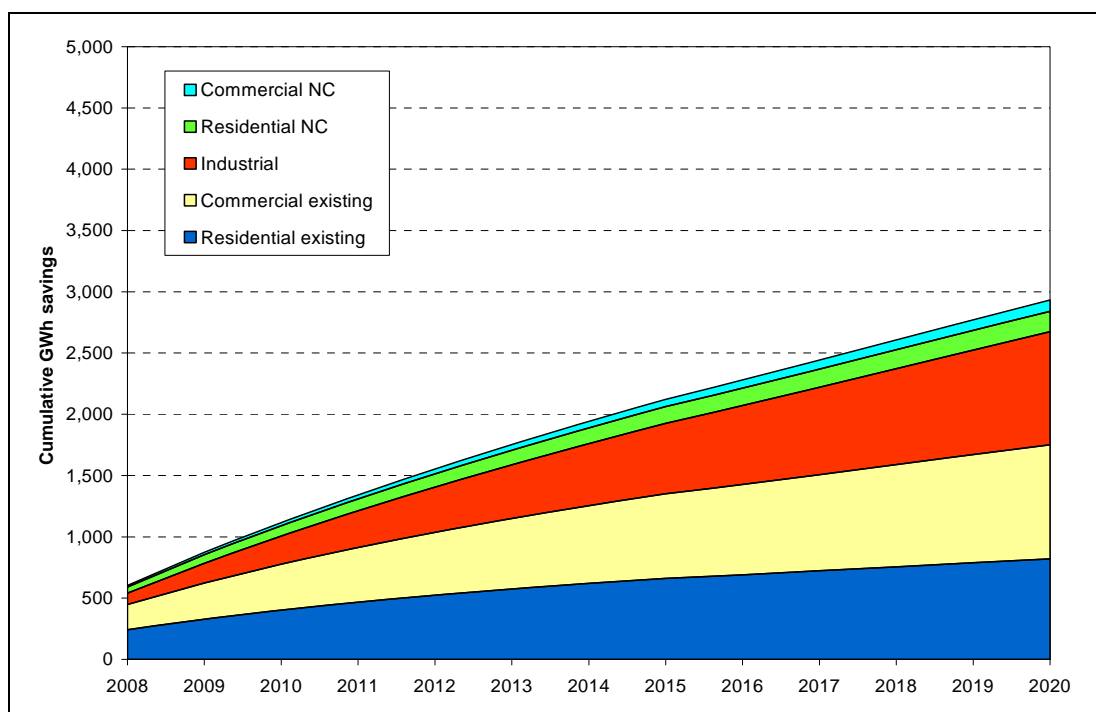


Table C2-13. Naturally-occurring potential in the residential sector by end use and vintage in SCE (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	4	3	3	0	0	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	213	142	71	44	30	15
Freezer	64	43	21	13	9	4
Pool Pump	1	1	1	0	0	0
Space Heating	13	10	8	0	0	0
Furnace Fan	0	0	0	1	1	0
Space Cooling	58	46	35	8	7	5
Lighting	1,438	575	460	304	122	97
Total	1,790	821	599	371	167	122

Table C2-14. Naturally-occurring potential in the commercial sector by end use and vintage in SCE (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	357	285	214	30	24	18
Space Heating	0	0	0	1	1	1
Ventilation	13	12	9	20	16	12
Water Heating	0	0	0	2	1	1
Com Cooking	0	0	0	0	0	0
Refrigeration	238	216	173	0	0	0
Interior Lighting	499	416	333	51	41	31
Office Equipment	2	2	2	0	0	0
Exterior Lighting	0	0	0	11	8	6
Miscellaneous	0	0	0	0	0	0
Total	1,109	931	731	116	93	70

Table C2-15. Naturally-occurring potential in the industrial sector by end use in SCE (cumulative GWh savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	19	15	11
Process Cooling	32	26	19
Pumps	250	200	150
Fans	54	43	32
Compressed Air	210	168	126
Process Drives	64	51	39
Industrial Lighting	173	138	104
Refrigeration	18	14	11
Industrial Other	7	5	4
Agriculture	326	261	195
Total	1,152	921	691

Figure C2-10. Uncertainty estimate for total naturally-occurring potential in SCE

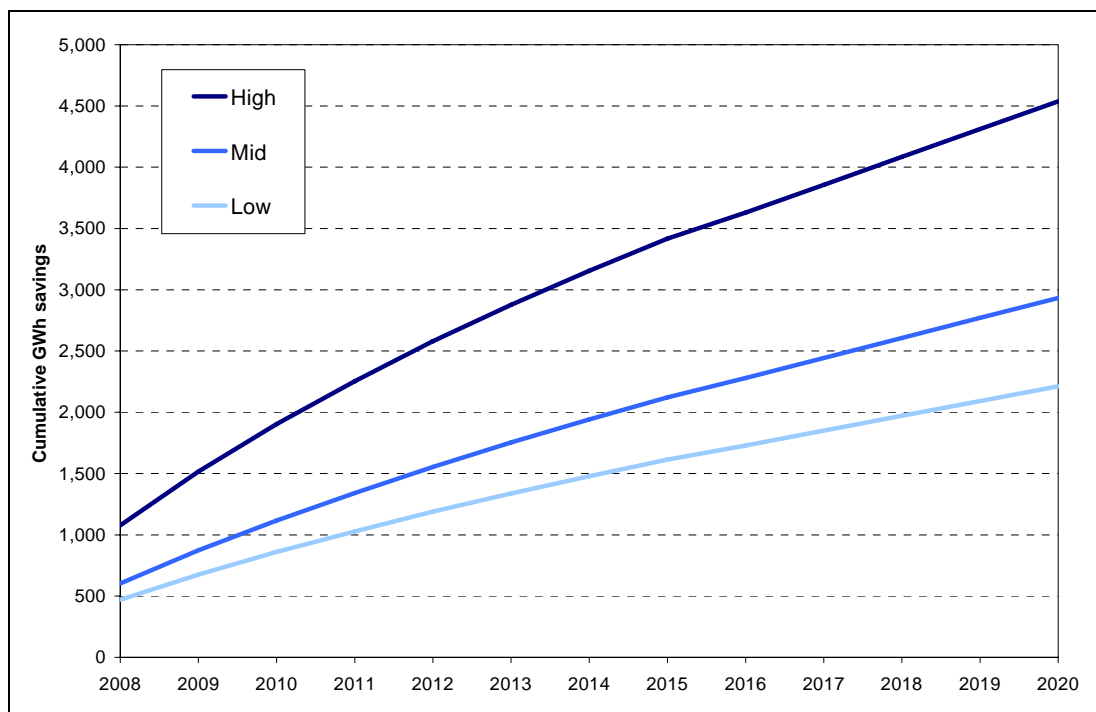


Figure C2-11. Estimated potential savings from BBEES initiatives in SCE (gross savings incremental to base market potential)

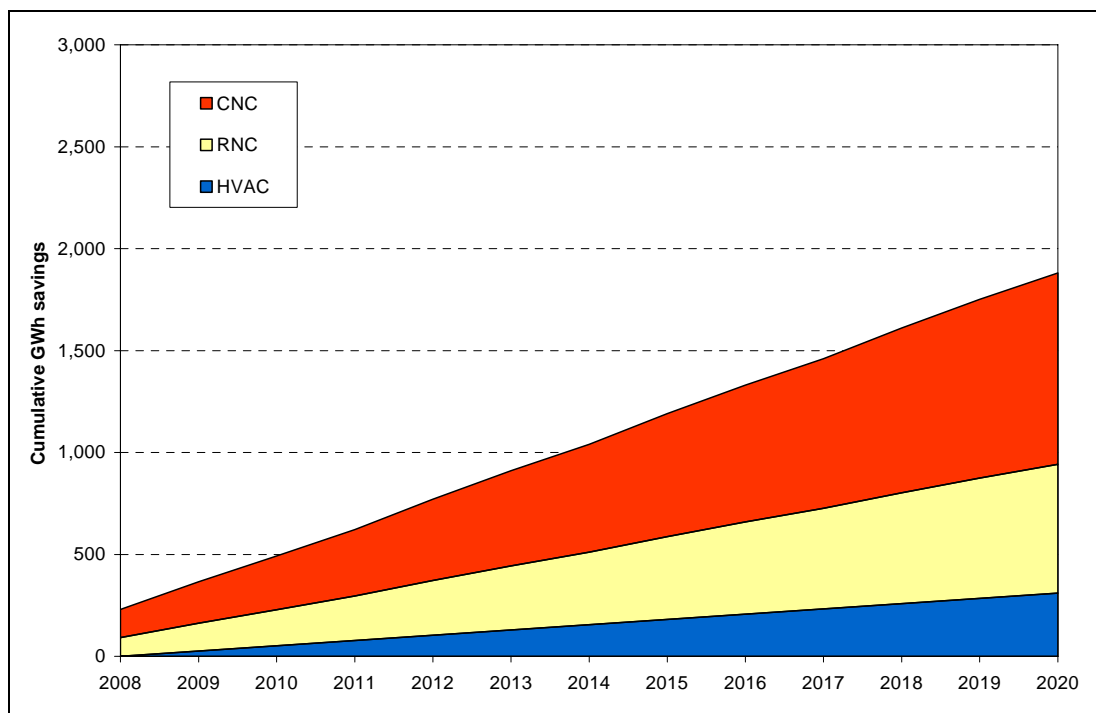


Figure C2-12. Uncertainty estimate for potential savings from all BB initiatives in SCE (gross savings incremental to base market potential)

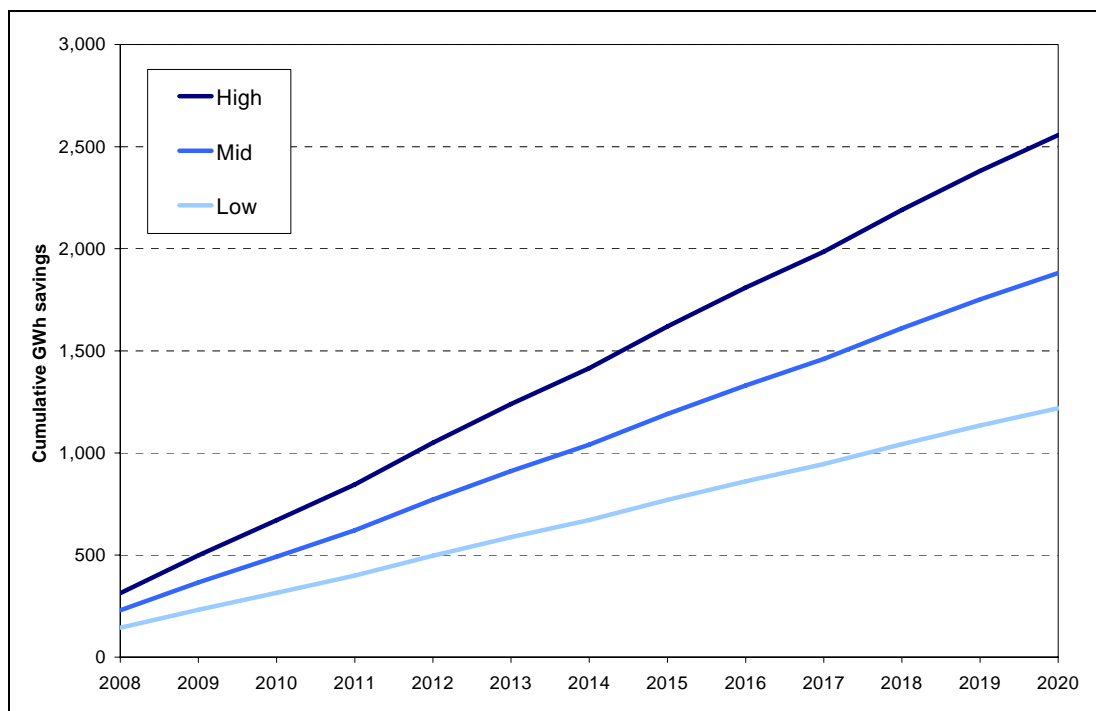


Figure C2-13. Impact of Huffman Bill on base market potential for lighting in SCE (gross savings)

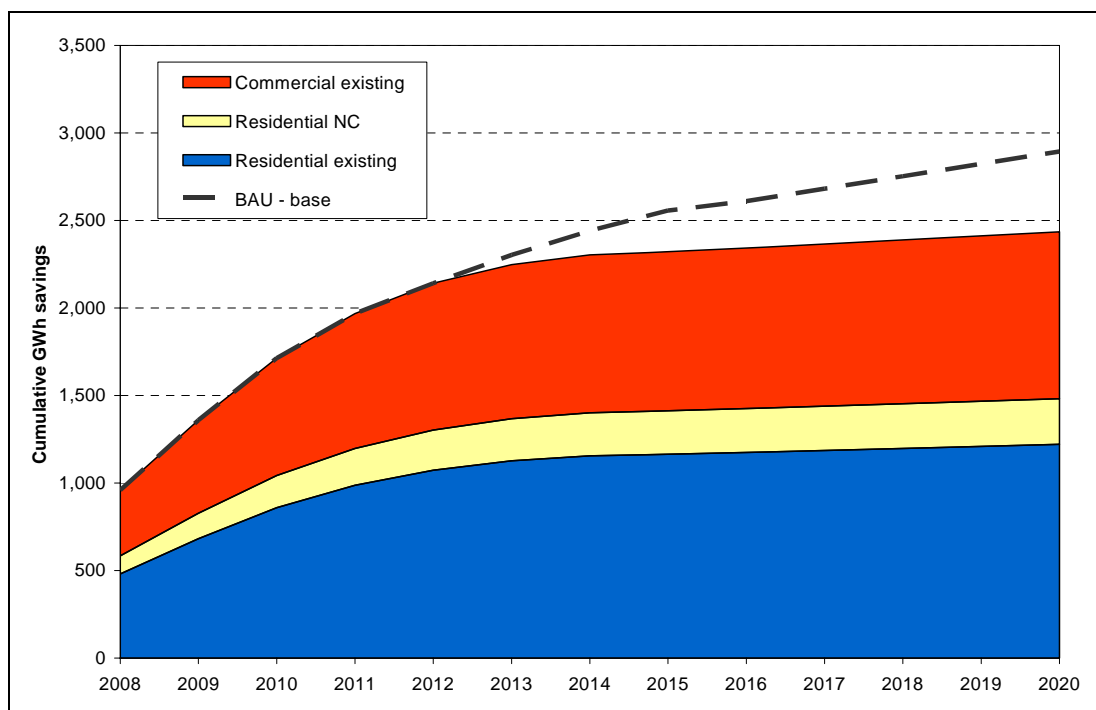


Figure C2-14. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction in SCE (gross savings)

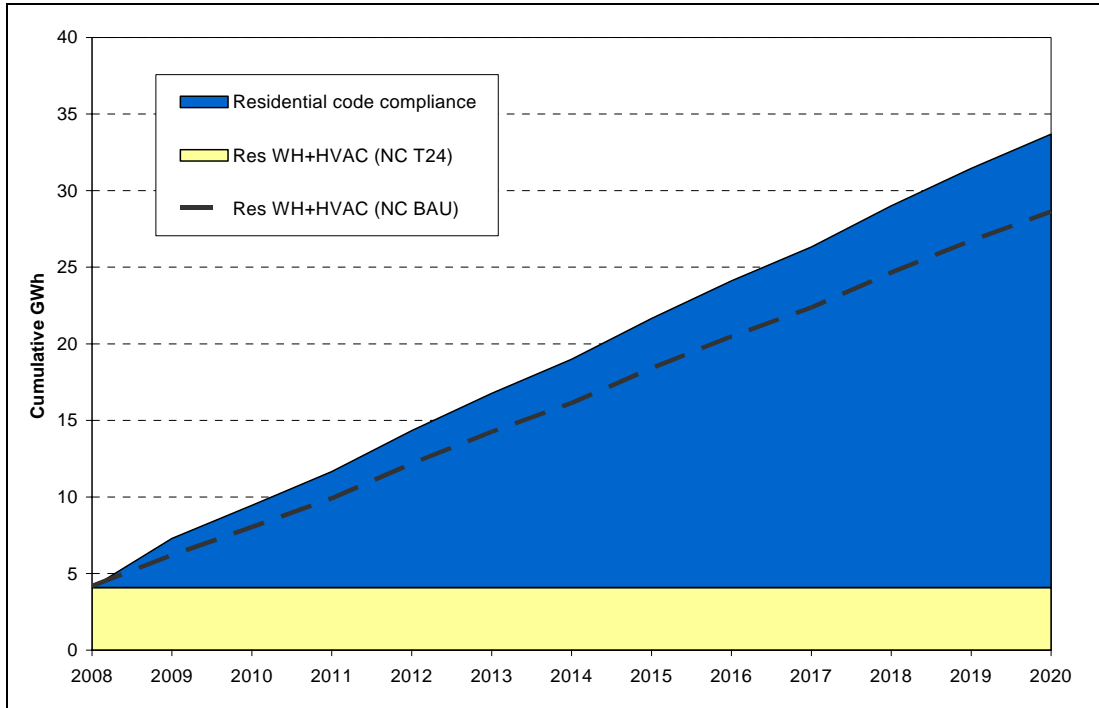


Figure C2-15. Total impact of future codes and standards on base market potential of IOU programs in SCE (gross savings)

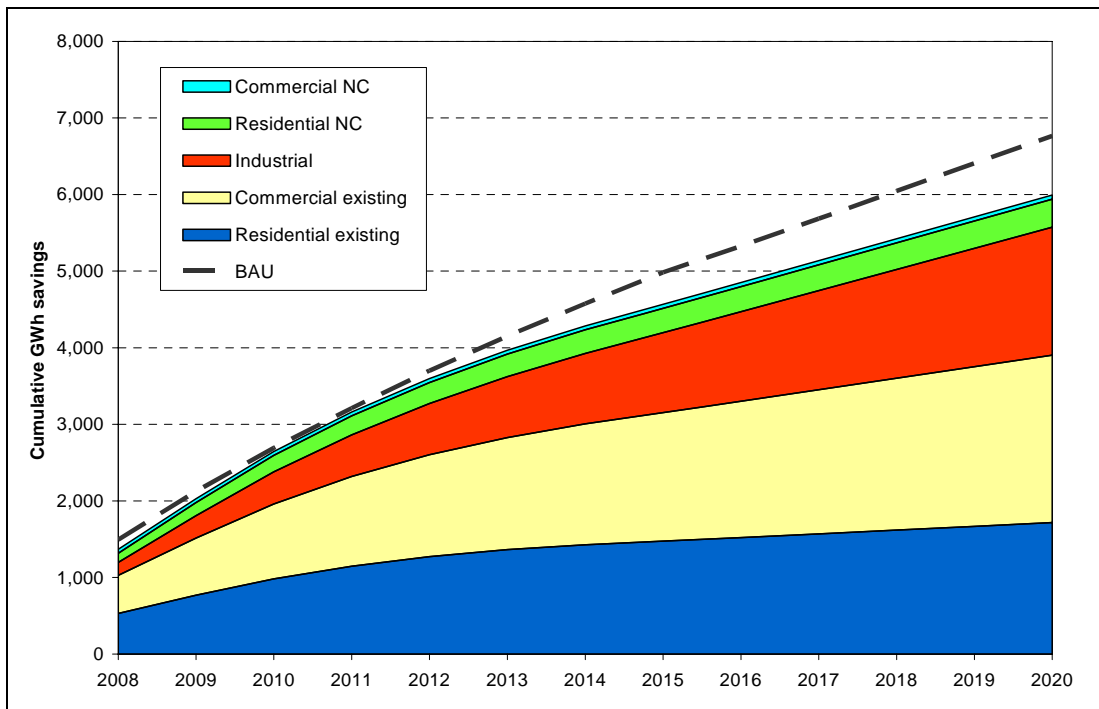


Figure C2-16. Uncertainty estimate of total base market potential of IOU programs in SCE after accounting for impacts of future codes and standards (gross savings)

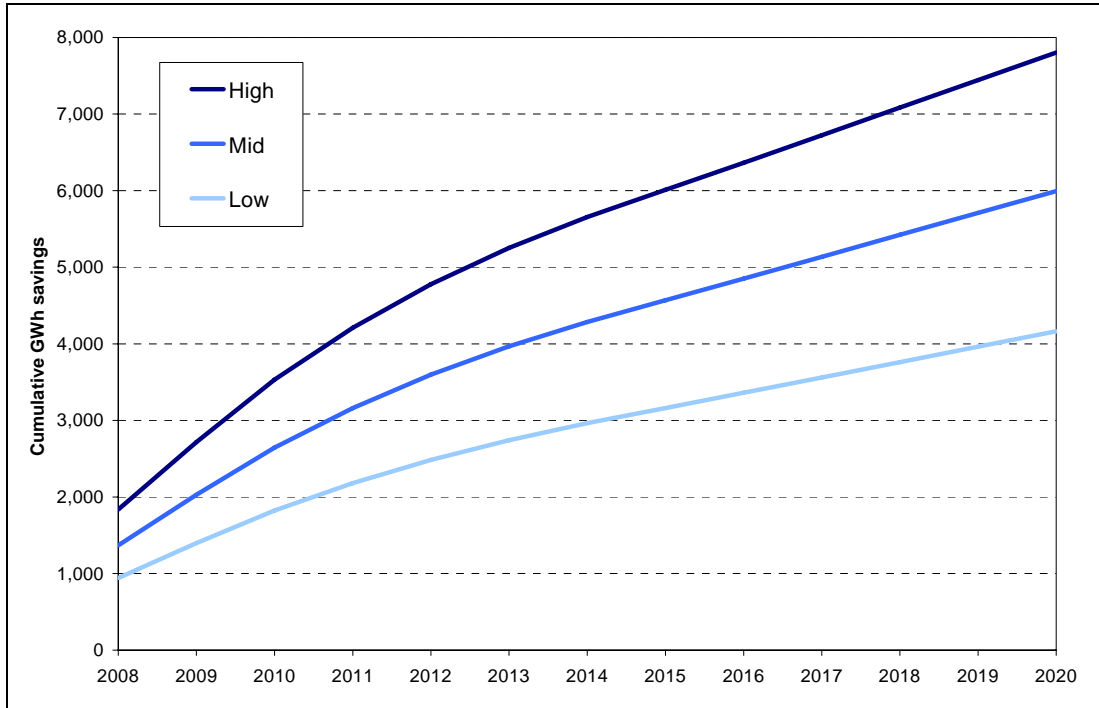


Figure C2-17. Estimated potential lighting savings in SCE from implementation of the Huffman Bill (gross savings incremental to C&S-adjusted base market potential)

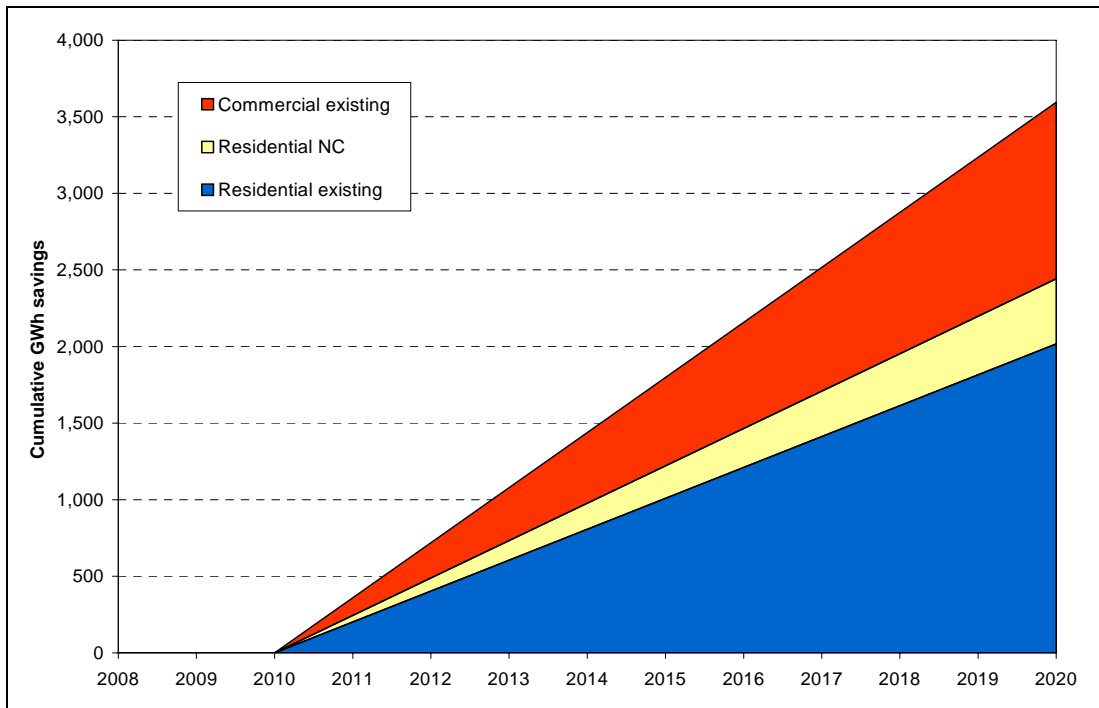


Figure C2-18. Estimated potential savings from implementation of the revisions to Title 24 in SCE (gross savings incremental to C&S-adjusted base market potential)

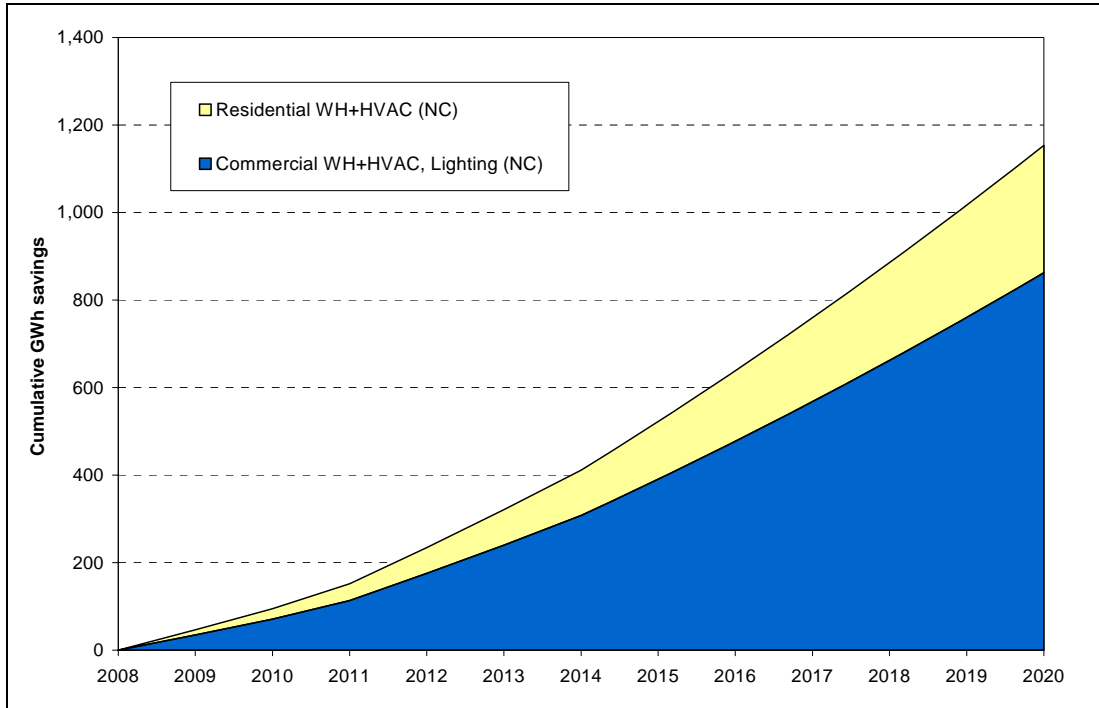


Figure C2-19. Estimated potential savings from implementation of the revised federal appliance standards in SCE (gross savings incremental to C&S-adjusted base market potential)

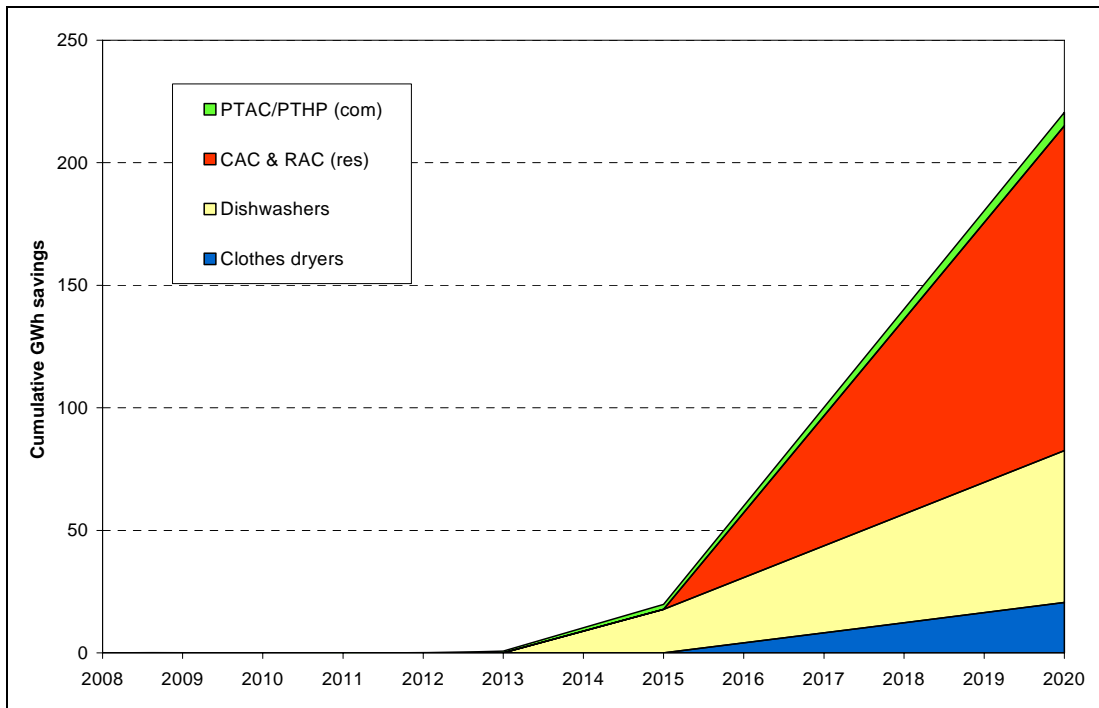


Figure C2-20. Estimated potential savings from future codes and standards in SCE (gross savings incremental to C&S-adjusted base market potential)

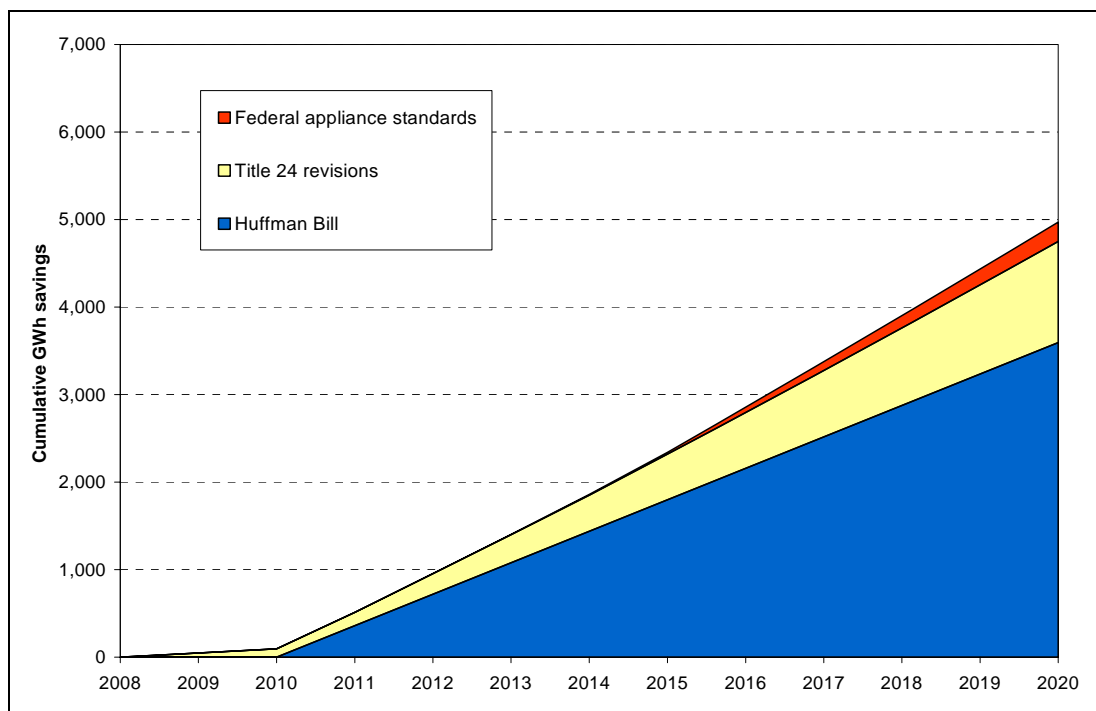


Figure C2-21. Uncertainty estimate of total potential savings from future codes and standards in SCE (gross savings incremental to C&S-adjusted base market potential)

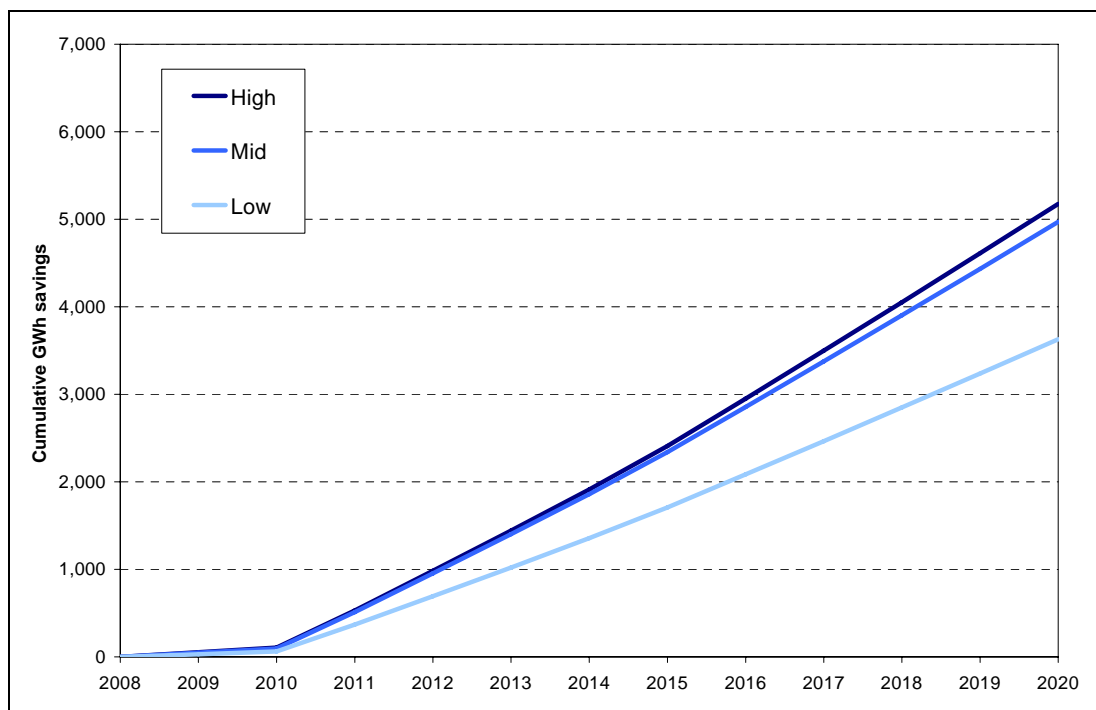


Figure C2-22. Estimated potential savings from all scenarios in SCE (gross savings assuming base-funding for IOU programs)

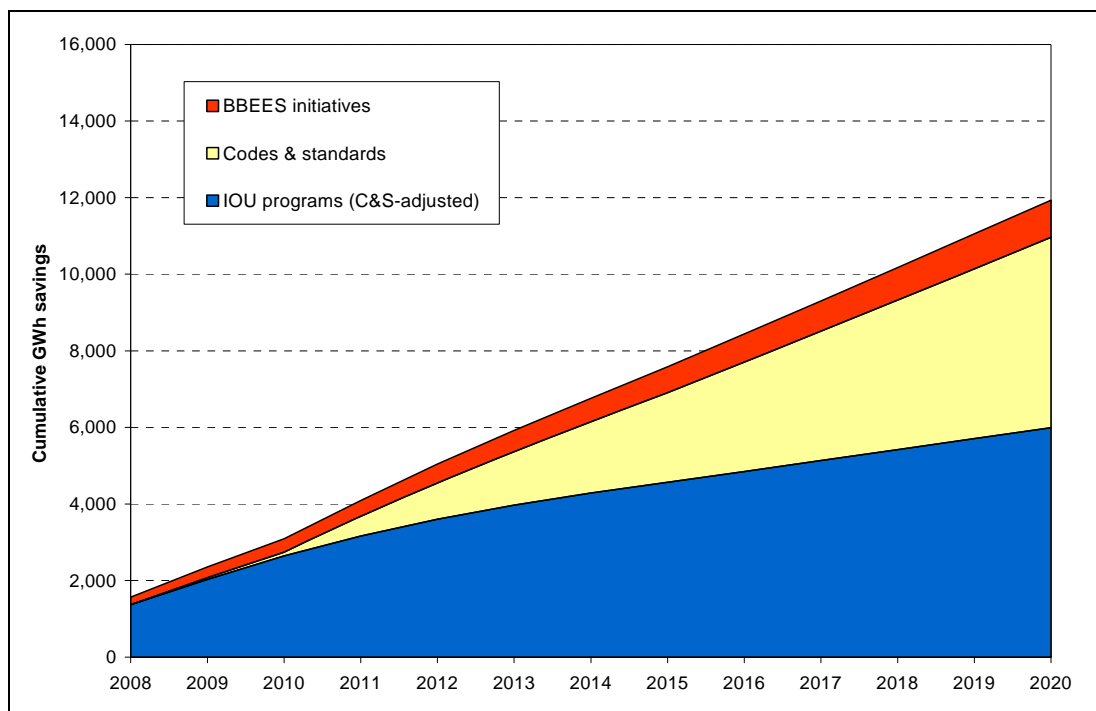


Figure C2-23. Estimated potential savings from all scenarios in SCE (gross savings assuming full-funding for IOU programs)

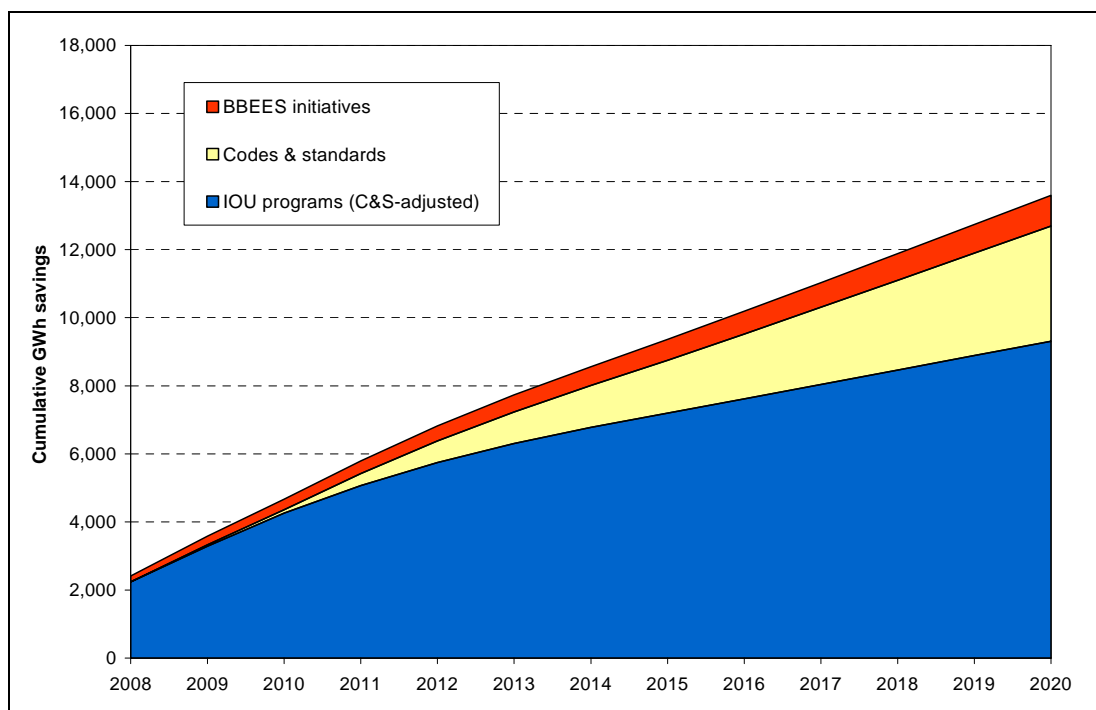


Table C2-16. Summary of estimated savings potential for each scenario in SCE (cumulative gross GWh savings in 2020)

Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	HVAC	286	213	159	286	213	159
	RNC	522	365	256	517	360	251
	CNC	664	394	312	598	328	246
	Total	1,471	972	727	1,400	901	656
Huffman Bill	Res existing	2,017	2,017	1,513	1,167	1,167	875
	RNC	424	424	318	243	243	182
	CNC	1,153	1,153	865	603	603	452
	Total	3,595	3,595	2,696	2,012	2,012	1,509
Title 24 revisions	RNC	349	291	169	349	291	169
	CNC	950	863	587	950	863	587
	Total	1,299	1,154	756	1,299	1,154	756
Federal standards	Clothes dryers	25	21	16	25	21	16
	Dishwashers	74	62	50	74	62	50
	CAC & RAC (res)	176	133	106	176	133	106
	PTAC/PTHP (com)	7	6	4	7	6	4
	Total	282	221	176	282	221	176
IOU code compliance (res)	Total	47	30	19	46	30	20
IOU programs (C&S-adjusted)	Res existing	2,538	1,717	1,026	3,338	2,819	1,332
	Com existing	2,557	2,184	1,626	4,067	3,473	2,589
	Industrial	2,091	1,673	1,254	2,889	2,311	1,733
	RNC	552	367	216	701	586	271
	CNC	66	53	40	149	119	89
	Total	7,803	5,994	4,163	11,144	9,309	6,015
TOTAL GROSS SAVINGS POTENTIAL		14,497	11,965	8,538	16,184	13,626	9,133
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		<i>4,170</i>	<i>2,784</i>	<i>2,006</i>	<i>4,170</i>	<i>2,784</i>	<i>2,006</i>

Figure C2-24. Uncertainty estimate of total potential savings from all scenarios in SCE (gross savings assuming base-funding for IOU programs)

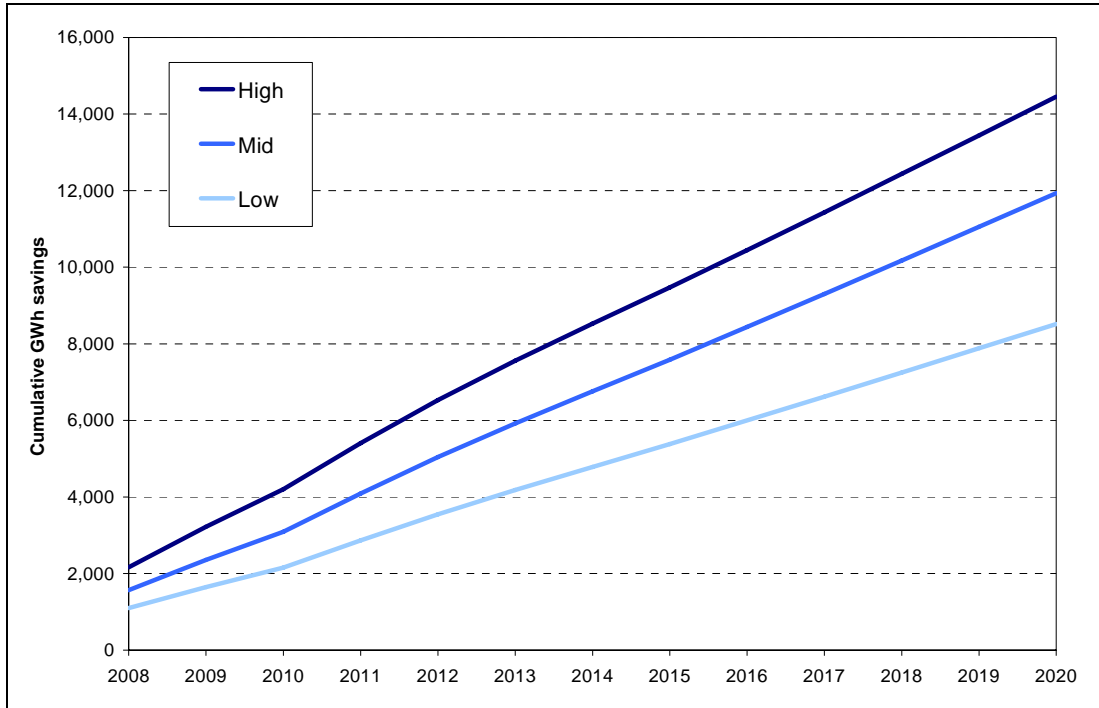


Figure C2-25. Uncertainty estimate of total potential savings from all scenarios in SCE (gross savings assuming full-funding for IOU programs)

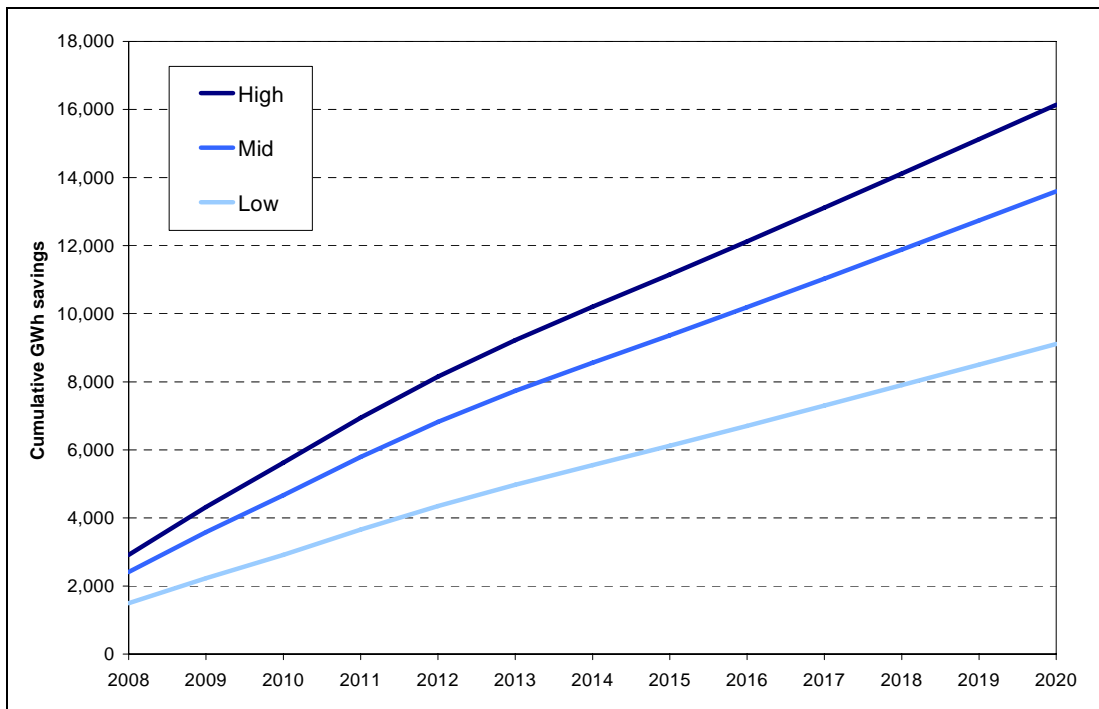


Figure C2-26. Cumulative savings from High, Mid and Low Cases compared to current goals through 2013 in SCE

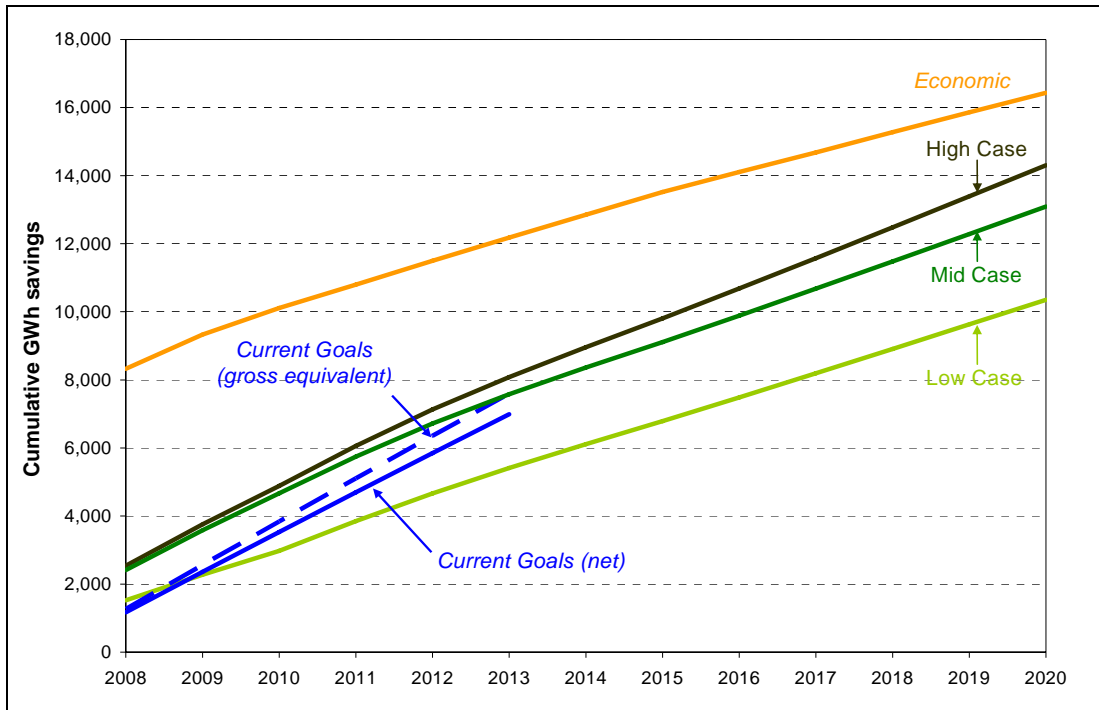


Figure C2-27. Composition of savings across mechanisms in the Low Case in SCE

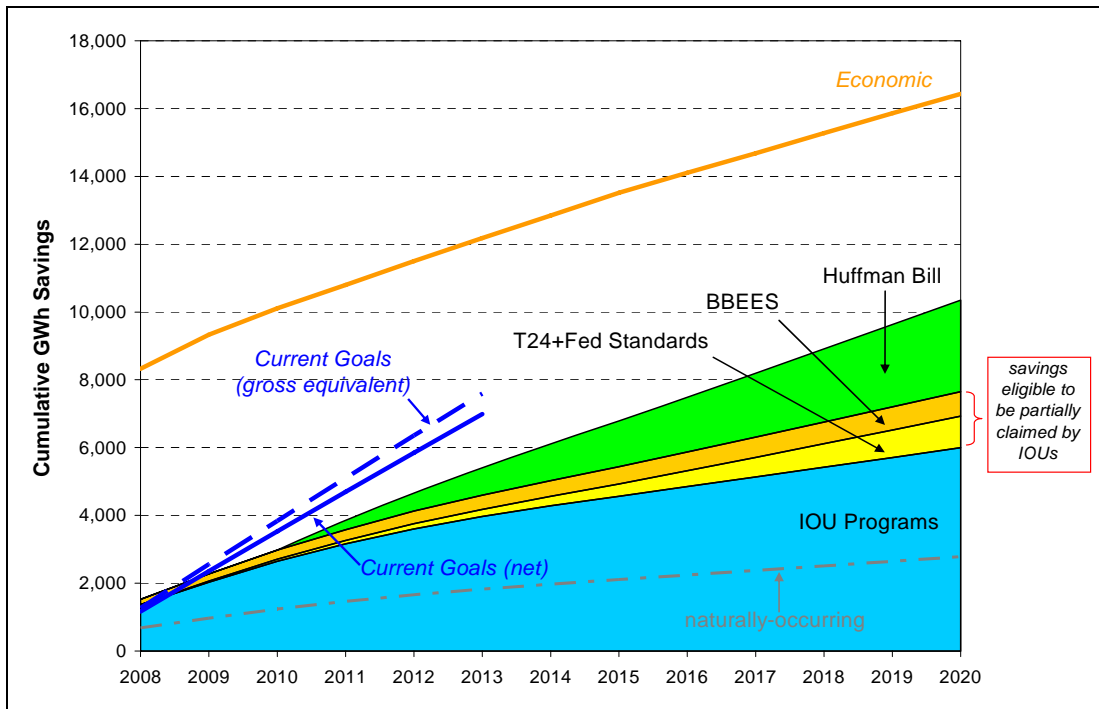


Figure C2-28. Composition of savings across mechanisms in the Mid Case in SCE

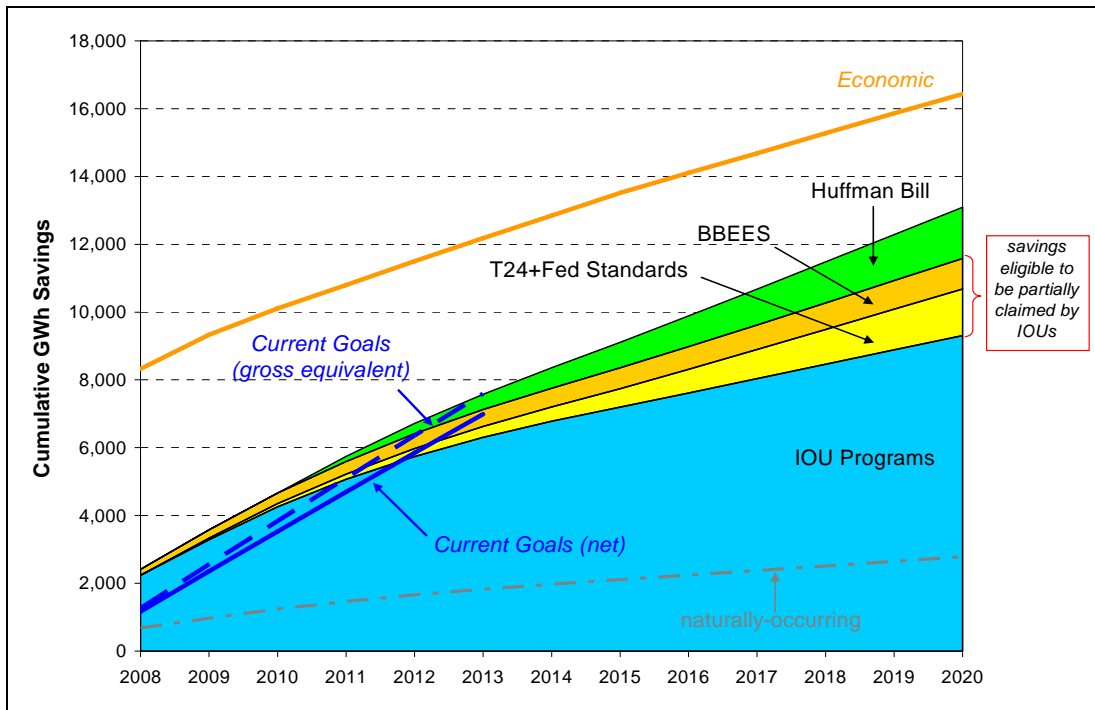
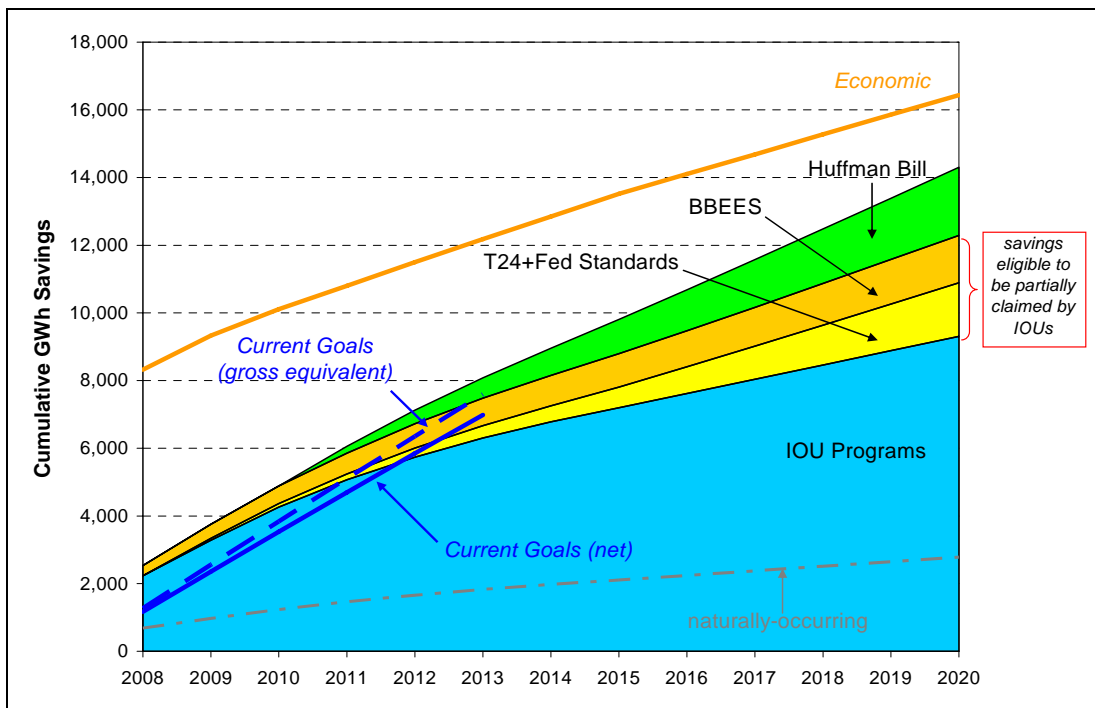


Figure C2-29. Composition of savings across mechanisms in the High Case in SCE



**Table C2-17. Estimated savings in the High, Mid, and Low straw man cases in SCE
(cumulative GWh savings in 2020)**

Savings mechanism:	Low Case	Mid Case	High Case
Utility programs (gross)	5,994	9,309	9,309
Huffman Bill	2,696	1,509	2,012
Codes & standards	933	1,374	1,581
BBEES initiatives	727	901	1,400
Total	10,350	13,093	14,302

Table C2-18. Cumulative GWh energy savings by saving mechanism in the High, Mid, and Low straw man cases in SCE over time

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Huffman Bill	0	0	0	270	539	809	1079	1348	1618	1887	2157	2427	2696
	T24+Federal Standards	0	30	62	99	154	211	278	358	466	578	693	811	933
	BBEES	155	216	270	319	372	420	464	512	553	594	639	684	727
	IOU Programs	1368	2029	2646	3163	3599	3968	4286	4568	4850	5135	5422	5708	5994
Mid	Huffman Bill	0	0	0	151	302	453	604	755	906	1057	1207	1358	1509
	T24+Federal Standards	0	46	95	152	234	322	422	542	698	859	1026	1197	1374
	BBEES	176	249	312	373	439	499	555	618	671	725	786	844	901
	IOU Programs	2236	3285	4259	5068	5741	6303	6780	7197	7614	8037	8462	8886	9309
High	Huffman Bill	0	0	0	201	402	604	805	1006	1207	1409	1610	1811	2012
	T24+Federal Standards	0	52	107	171	264	362	476	612	794	982	1176	1376	1581
	BBEES	300	419	522	618	720	812	897	989	1067	1146	1233	1318	1400
	IOU Programs	2236	3285	4259	5068	5741	6303	6780	7197	7614	8037	8462	8886	9309
Benchmarks	<i>Economic</i>	8324	9331	10109	10799	11499	12178	12850	13518	14108	14683	15277	15861	16433
	<i>Current IOU Goals (gross equivalent)</i>	1268	2561	3839	5104	6355	7593							
	<i>Current IOU Goals (net)</i>	1167	2356	3532	4696	5847	6986							

Appendix C3

Scenario Results for SDG&E

Figure C3-1. Technical potential by sector and vintage in SDG&E

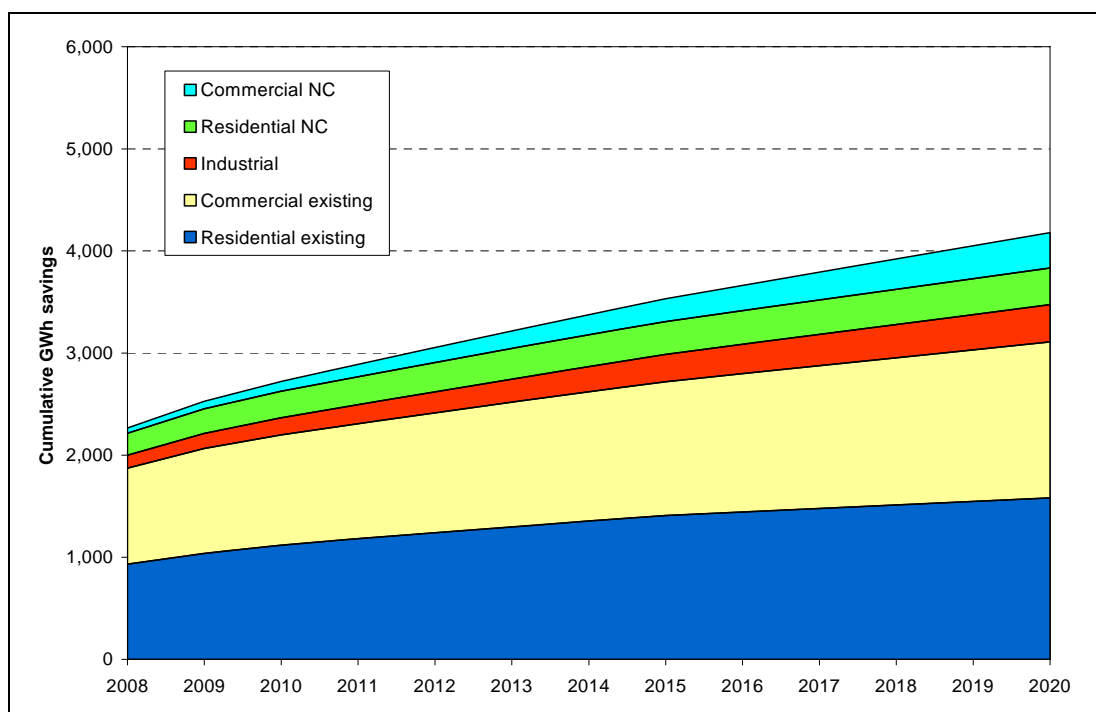


Table C3-1. Technical potential in the residential sector by end use and vintage in SDG&E (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	134	122	97	12	9	7
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	86	78	55	23	21	14
Freezer	0	0	0	0	0	0
Pool Pump	8	7	5	0	0	0
Space Heating	108	90	72	6	5	3
Furnace Fan	0	0	0	6	5	4
Space Cooling	223	168	134	34	27	20
Lighting	1,228	1,117	782	321	292	204
Total	1,788	1,581	1,146	401	358	253

Table C3-2. Technical potential in the commercial sector by end use and vintage in SDG&E (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	324	270	216	103	82	62
Space Heating	0	0	0	11	9	7
Ventilation	86	72	57	73	59	44
Water Heating	0	0	0	7	6	4
Com Cooking	102	85	68	0	0	0
Refrigeration	283	283	141	0	0	0
Interior Lighting	748	680	544	197	158	118
Office Equipment	79	72	58	0	0	0
Exterior Lighting	65	59	47	41	33	25
Miscellaneous	6	6	6	0	0	0
Total	1,693	1,527	1,138	433	346	260

Table C3-3. Technical potential in the industrial sector by end use in SDG&E (cumulative GWh savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	16	6	5
Process Cooling	60	48	36
Pumps	86	78	51
Fans	32	25	19
Compressed Air	90	72	54
Process Drives	26	21	16
Industrial Lighting	85	68	51
Refrigeration	1	1	1
Industrial Other	9	7	5
Agriculture	48	39	29
Total	453	366	267

Figure C3-2. Uncertainty estimate for total technical potential in SDG&E

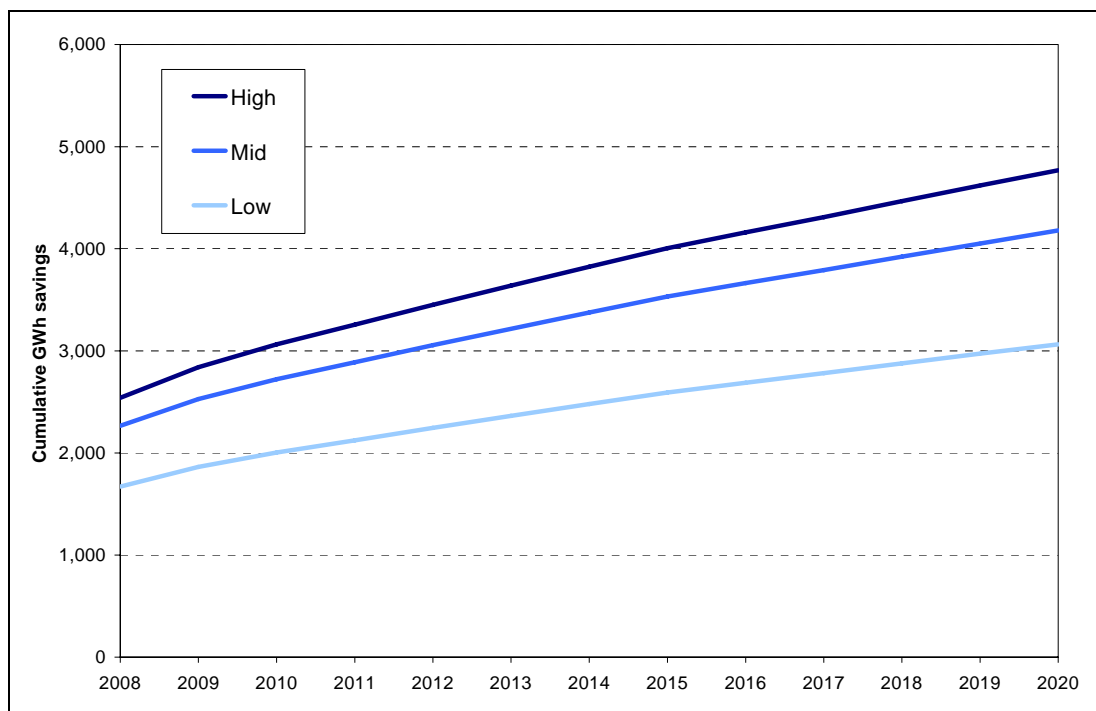


Figure C3-3. Economic potential by sector and vintage in SDG&E

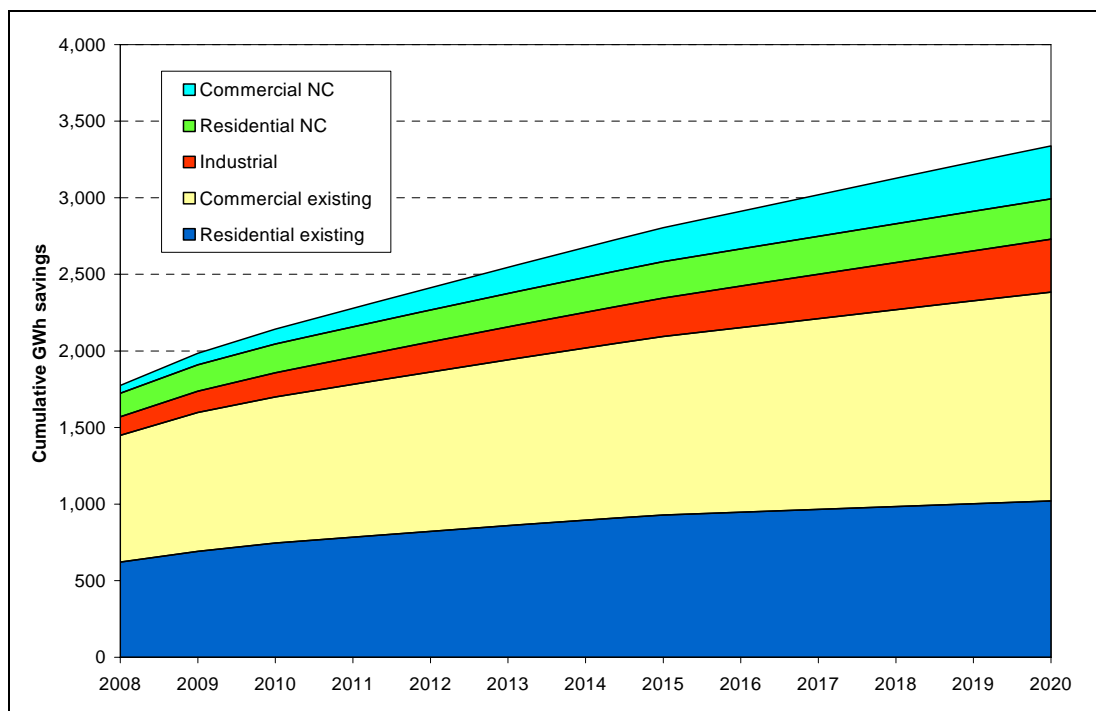


Table C3-4. Economic potential in the residential sector by end use and vintage in SDG&E (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	24	16	13	7	6	4
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	0	0	0	0	0	0
Freezer	0	0	0	0	0	0
Pool Pump	8	7	5	0	0	0
Space Heating	59	49	39	4	3	2
Furnace Fan	0	0	0	5	4	3
Space Cooling	84	70	56	26	21	16
Lighting	967	879	615	253	230	161
Total	1,142	1,021	729	295	263	186

Table C3-5. Economic potential in the commercial sector by end use and vintage in SDG&E (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	301	251	201	103	82	62
Space Heating	0	0	0	11	9	7
Ventilation	85	71	56	73	58	44
Water Heating	0	0	0	7	6	4
Com Cooking	73	61	48	0	0	0
Refrigeration	271	271	135	0	0	0
Interior Lighting	680	619	495	197	158	118
Office Equipment	73	67	53	0	0	0
Exterior Lighting	22	20	16	41	33	25
Miscellaneous	6	6	6	0	0	0
Total	1,511	1,364	1,011	432	346	259

**Table C3-6. Economic potential in the industrial sector by end use in SDG&E
(cumulative GWh savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	16	6	5
Process Cooling	41	33	25
Pumps	84	77	51
Fans	30	24	18
Compressed Air	88	70	53
Process Drives	26	21	15
Industrial Lighting	84	67	51
Refrigeration	1	1	1
Industrial Other	9	7	5
Agriculture	48	39	29
Total	428	346	253

Figure C3-4. Uncertainty estimate for total economic potential in SDG&E

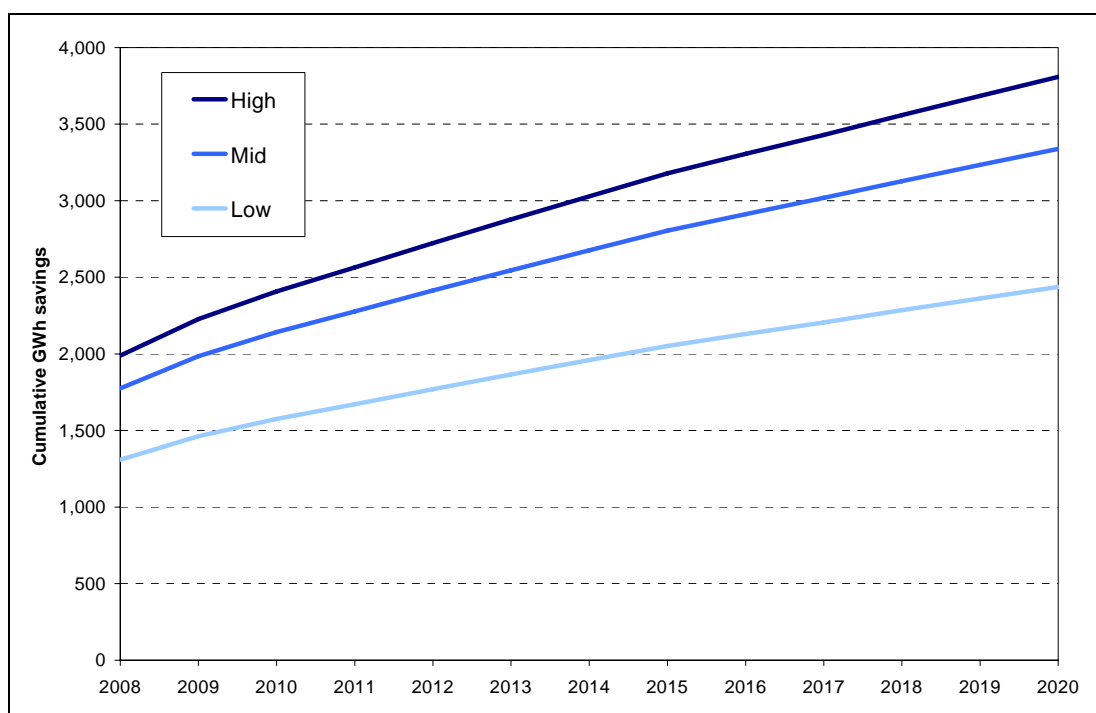
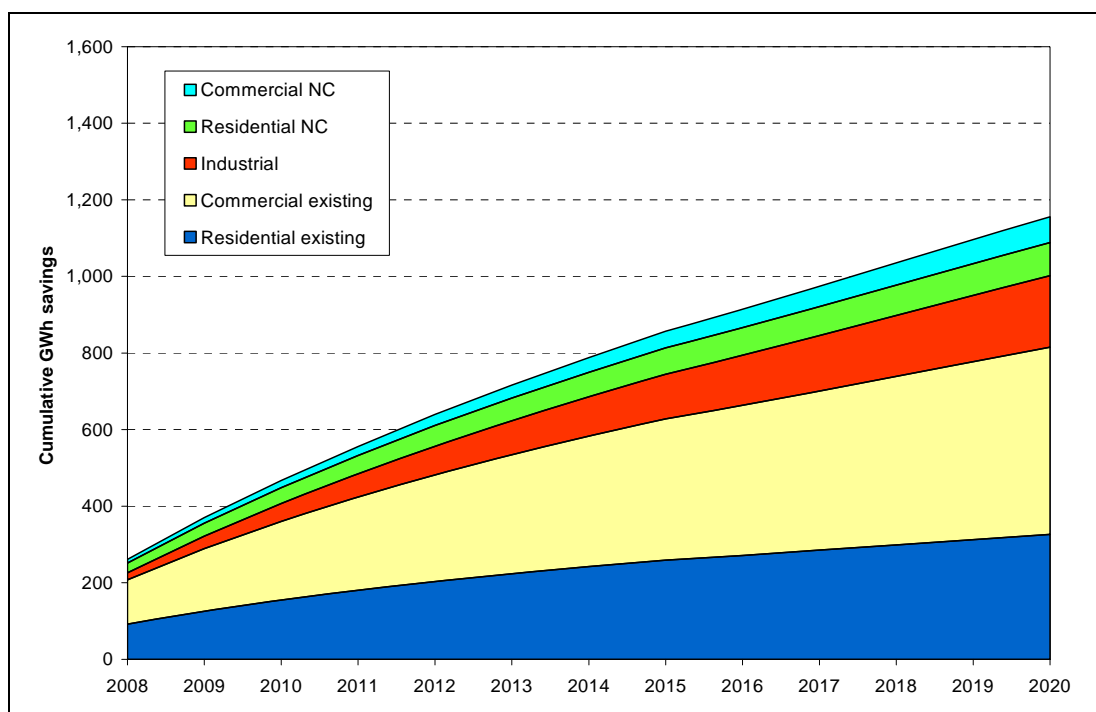


Figure C3-5. Base market potential by sector and vintage in SDG&E (gross savings)**Table C3-7. Base market potential in the residential sector by end use and vintage in SDG&E (cumulative gross GWh savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	15	12	10	4	3	2
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	65	43	22	17	12	6
Freezer	20	13	7	5	3	2
Pool Pump	1	0	0	0	0	0
Space Heating	19	16	13	2	1	1
Furnace Fan	0	0	0	2	2	1
Space Cooling	34	27	20	11	9	6
Lighting	321	214	161	85	57	43
Total	474	326	232	126	86	61

Table C3-8. Base market potential in the commercial sector by end use and vintage in SDG&E (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	133	111	66	20	16	12
Space Heating	0	0	0	2	2	1
Ventilation	43	39	31	14	11	9
Water Heating	0	0	0	2	1	1
Com Cooking	11	10	8	0	0	0
Refrigeration	92	83	67	0	0	0
Interior Lighting	293	244	195	38	30	23
Office Equipment	0	0	0	0	0	0
Exterior Lighting	1	1	1	8	7	5
Miscellaneous	1	1	1	0	0	0
Total	573	489	369	84	68	51

Table C3-9. Base market potential in the industrial sector by end use in SDG&E (cumulative gross GWh savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	3	2	2
Process Cooling	8	7	5
Pumps	57	45	34
Fans	12	10	7
Compressed Air	41	33	24
Process Drives	9	7	6
Industrial Lighting	62	50	37
Refrigeration	1	1	1
Industrial Other	3	2	2
Agriculture	37	30	22
Total	234	187	140

Figure C3-6. Uncertainty estimate for total base market potential in SDG&E (gross savings)

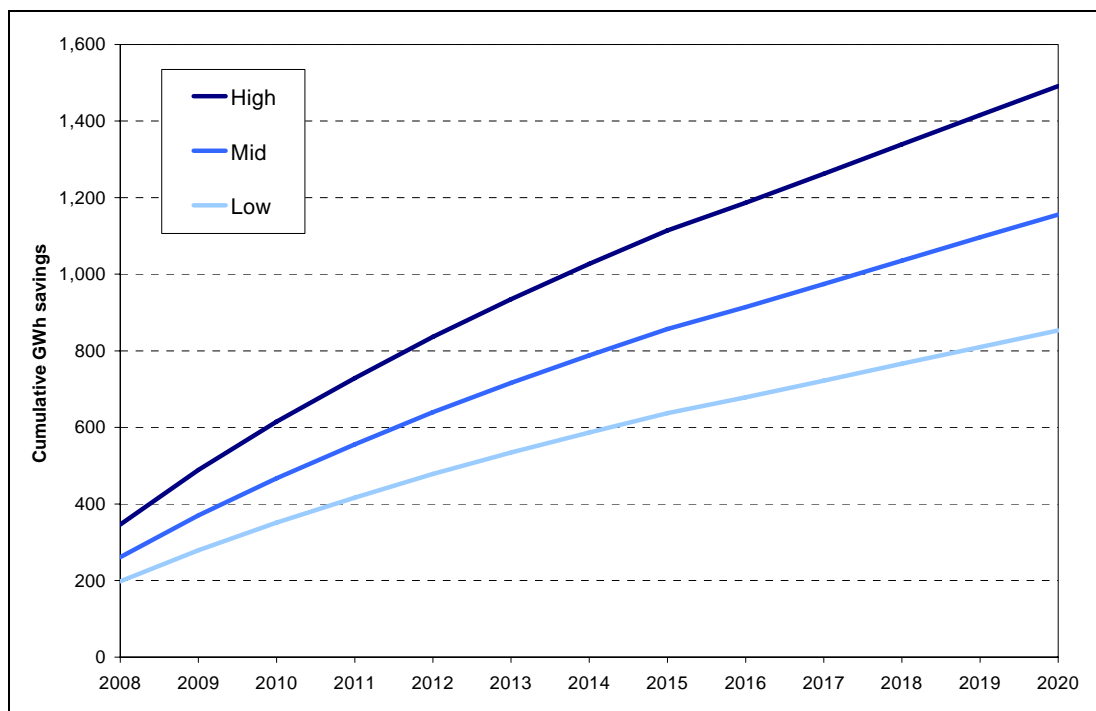


Figure C3-7. Full market potential by sector and vintage in SDG&E (gross savings)

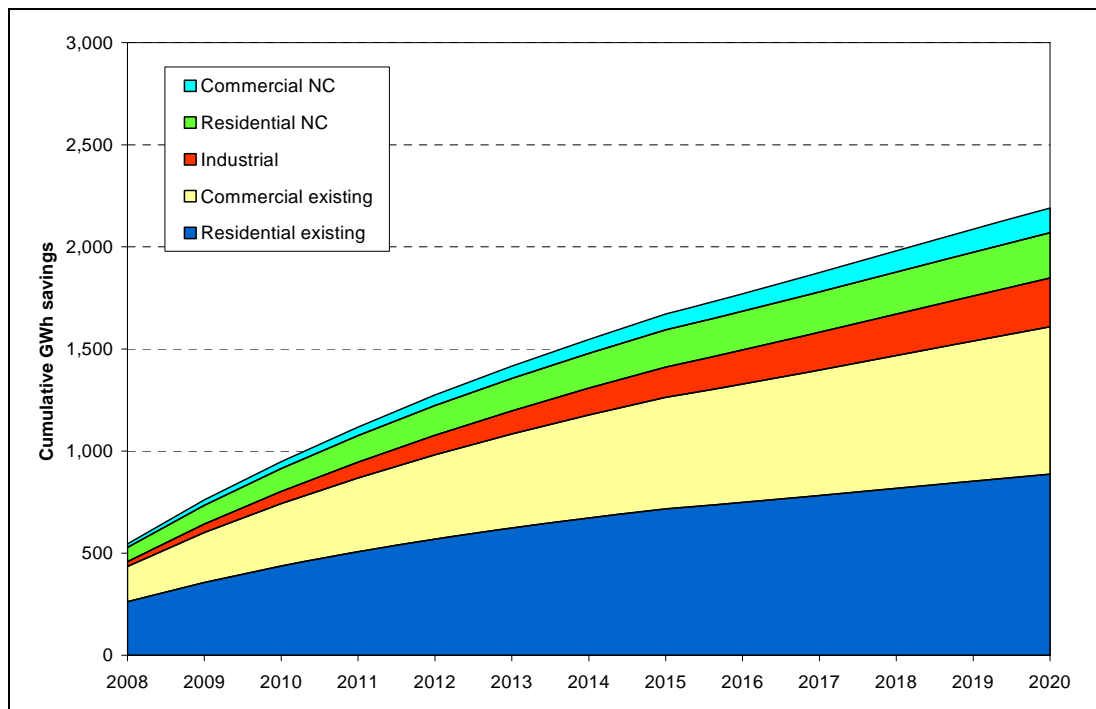


Table C3-10. Full market potential in the residential sector by end use and vintage in SDG&E (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	22	18	15	8	6	5
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	132	88	44	35	23	12
Freezer	45	30	15	11	8	4
Pool Pump	1	1	1	0	0	0
Space Heating	55	46	37	4	3	2
Furnace Fan	0	0	0	4	3	2
Space Cooling	92	74	55	20	16	12
Lighting	693	630	315	180	164	82
Total	1,040	887	481	261	222	118

Table C3-11. Full market potential in the commercial sector by end use and vintage in SDG&E (cumulative gross GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	196	163	98	37	29	22
Space Heating	0	0	0	4	3	2
Ventilation	48	44	35	26	21	15
Water Heating	0	0	0	3	2	2
Com Cooking	14	13	10	0	0	0
Refrigeration	139	126	101	0	0	0
Interior Lighting	440	366	293	67	54	40
Office Equipment	4	3	3	0	0	0
Exterior Lighting	5	5	4	16	12	9
Miscellaneous	2	2	2	0	0	0
Total	846	721	545	152	121	91

**Table C3-12. Full market potential in the industrial sector by end use in SDG&E
(cumulative gross GWh savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	5	4	3
Process Cooling	14	11	8
Pumps	71	57	43
Fans	19	15	11
Compressed Air	47	37	28
Process Drives	14	12	9
Industrial Lighting	79	63	48
Refrigeration	1	1	1
Industrial Other	5	4	3
Agriculture	44	35	27
Total	298	239	179

Figure C3-8. Uncertainty estimate for total full market potential in SDG&E (gross savings)

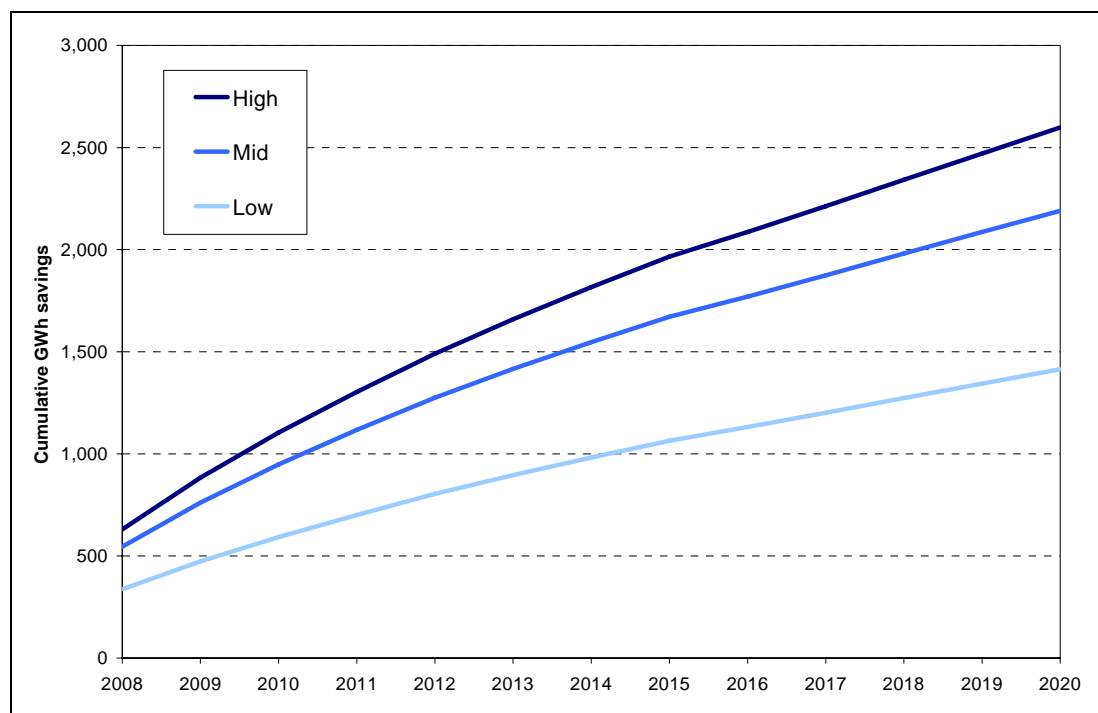
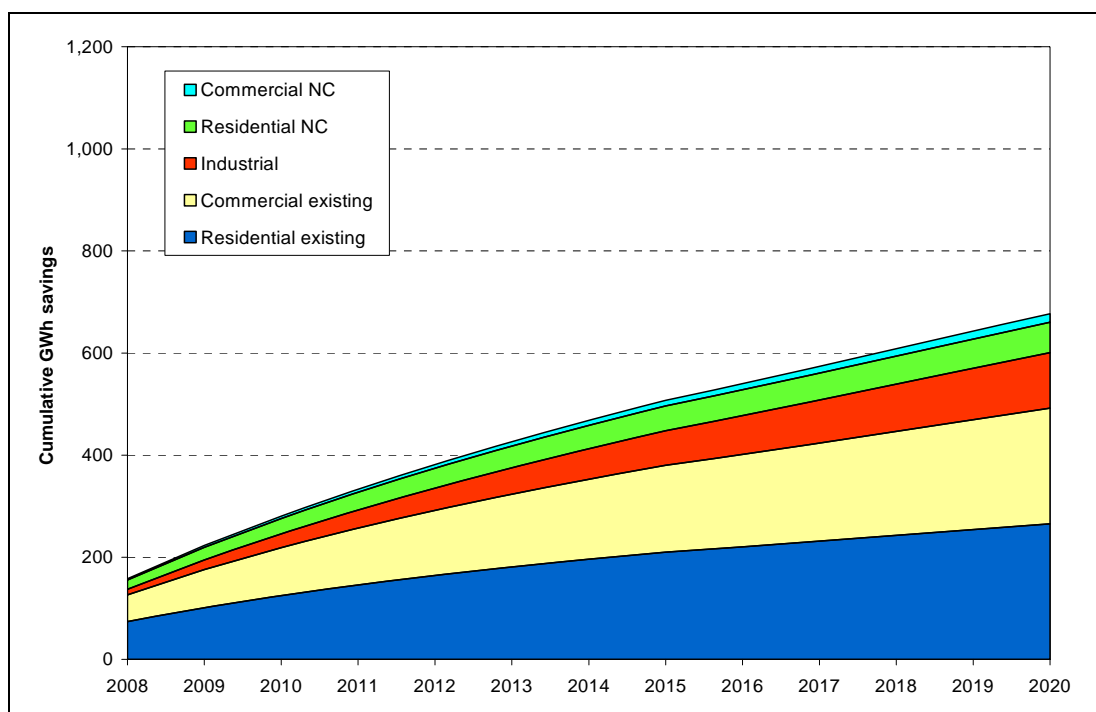


Figure C3-9. Naturally-occurring potential by sector and vintage in SDG&E**Table C3-13. Naturally-occurring potential in the residential sector by end use and vintage in SDG&E (cumulative GWh savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	14	12	10	1	1	1
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	48	32	16	13	8	4
Freezer	16	10	5	4	3	1
Pool Pump	1	0	0	0	0	0
Space Heating	18	15	12	0	0	0
Furnace Fan	0	0	0	1	0	0
Space Cooling	30	24	18	3	2	2
Lighting	429	172	137	112	45	36
Total	555	265	198	133	59	44

Table C3-14. Naturally-occurring potential in the commercial sector by end use and vintage in SDG&E (cumulative GWh savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	94	75	56	5	4	3
Space Heating	0	0	0	1	0	0
Ventilation	2	2	2	4	3	2
Water Heating	0	0	0	0	0	0
Com Cooking	0	0	0	0	0	0
Refrigeration	45	41	33	0	0	0
Interior Lighting	130	108	87	9	8	6
Office Equipment	0	0	0	0	0	0
Exterior Lighting	0	0	0	2	2	1
Miscellaneous	0	0	0	0	0	0
Total	272	227	178	21	17	13

Table C3-15. Naturally-occurring potential in the industrial sector by end use in SDG&E (cumulative GWh savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	2	1	1
Process Cooling	6	5	4
Pumps	24	19	14
Fans	5	4	3
Compressed Air	30	24	18
Process Drives	6	5	4
Industrial Lighting	38	31	23
Refrigeration	1	0	0
Industrial Other	2	2	1
Agriculture	23	18	14
Total	136	109	81

Figure C3-10. Uncertainty estimate for total naturally-occurring potential in SDG&E

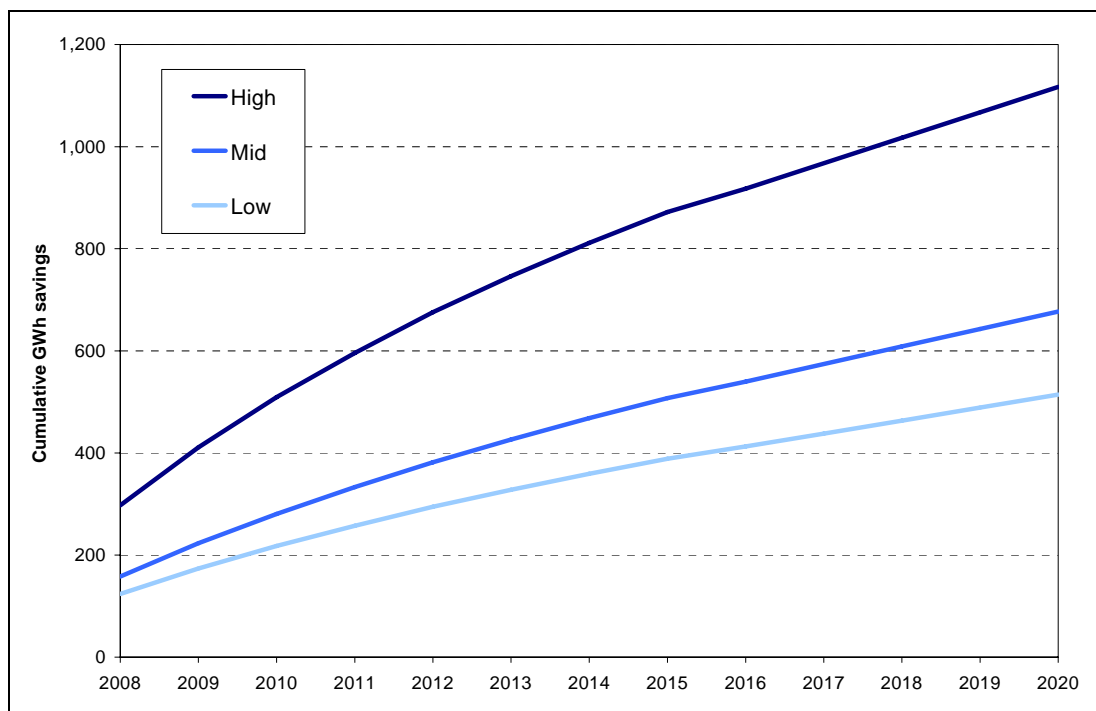


Figure C3-11. Estimated potential savings from BBEES initiatives in SDG&E (gross savings incremental to base market potential)

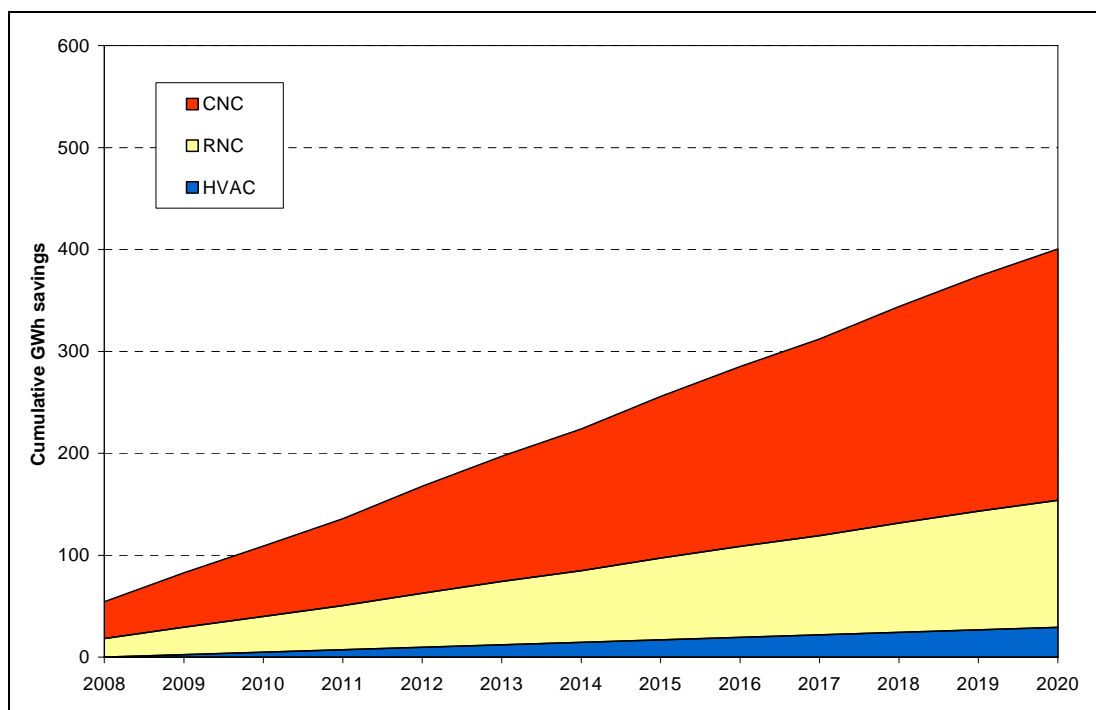


Figure C3-12. Uncertainty estimate for potential savings from all BB initiatives in SDG&E (gross savings incremental to base market potential)

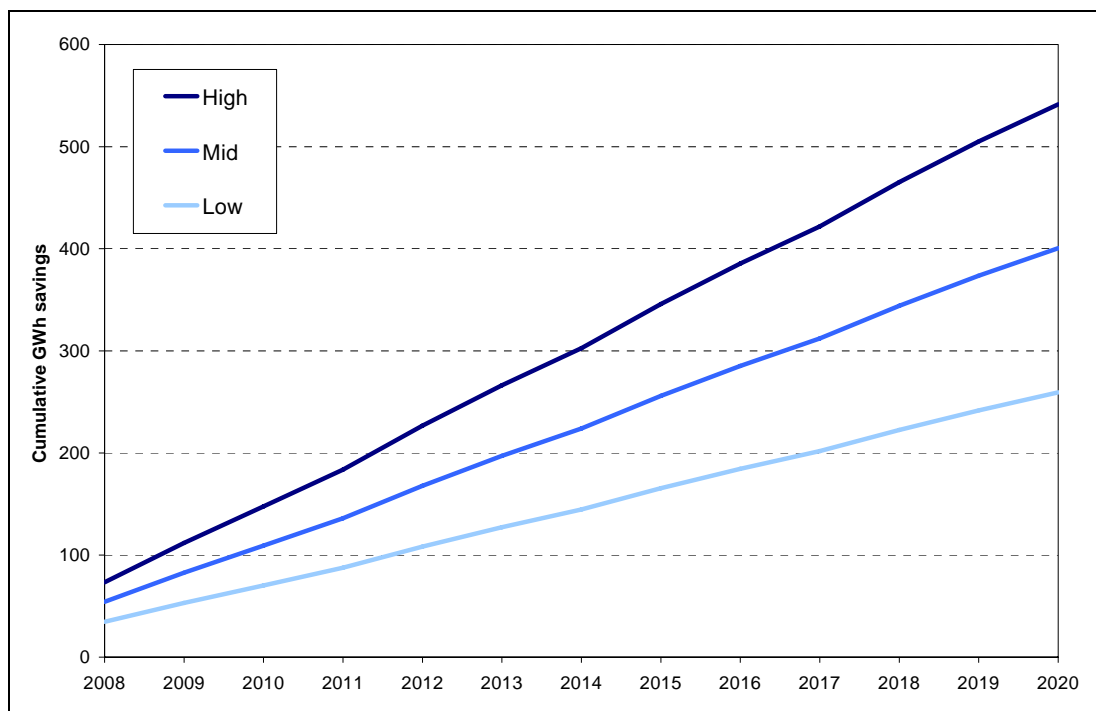


Figure C3-13. Impact of Huffman Bill on base market potential for lighting in SDG&E (gross savings)

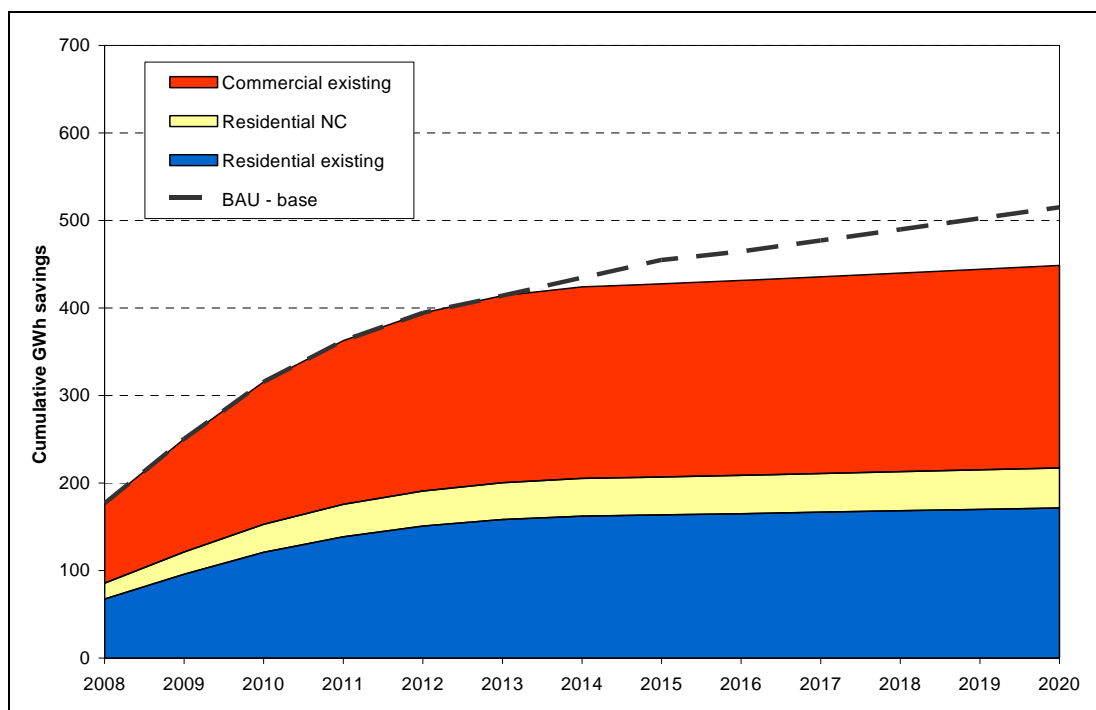


Figure C3-14. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction in SDG&E (gross savings)

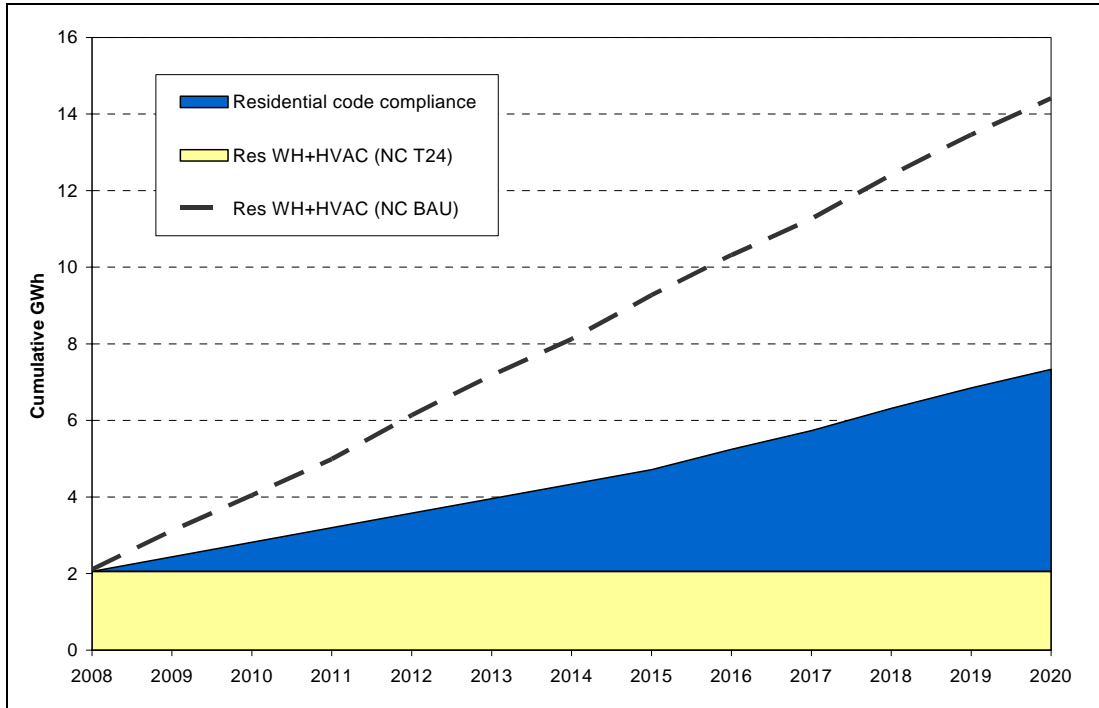


Figure C3-15. Total impact of future codes and standards on base market potential of IOU programs in SDG&E (gross savings)

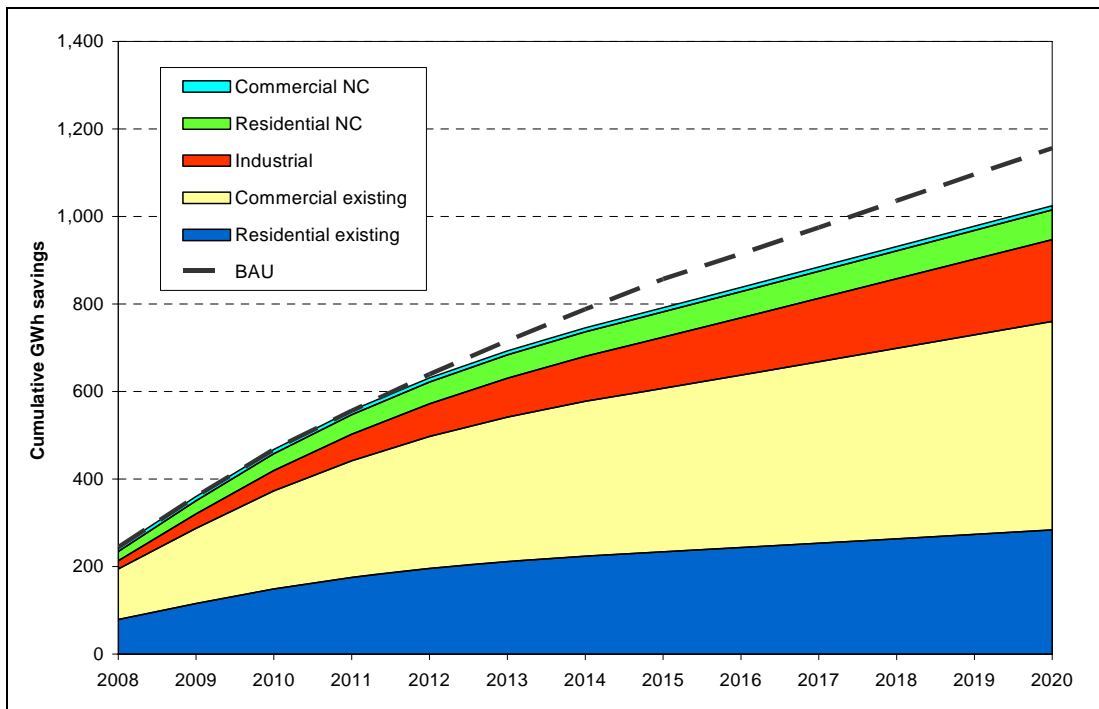


Figure C3-16. Uncertainty estimate of total base market potential of IOU programs in SDG&E after accounting for impacts of future codes and standards (gross savings)

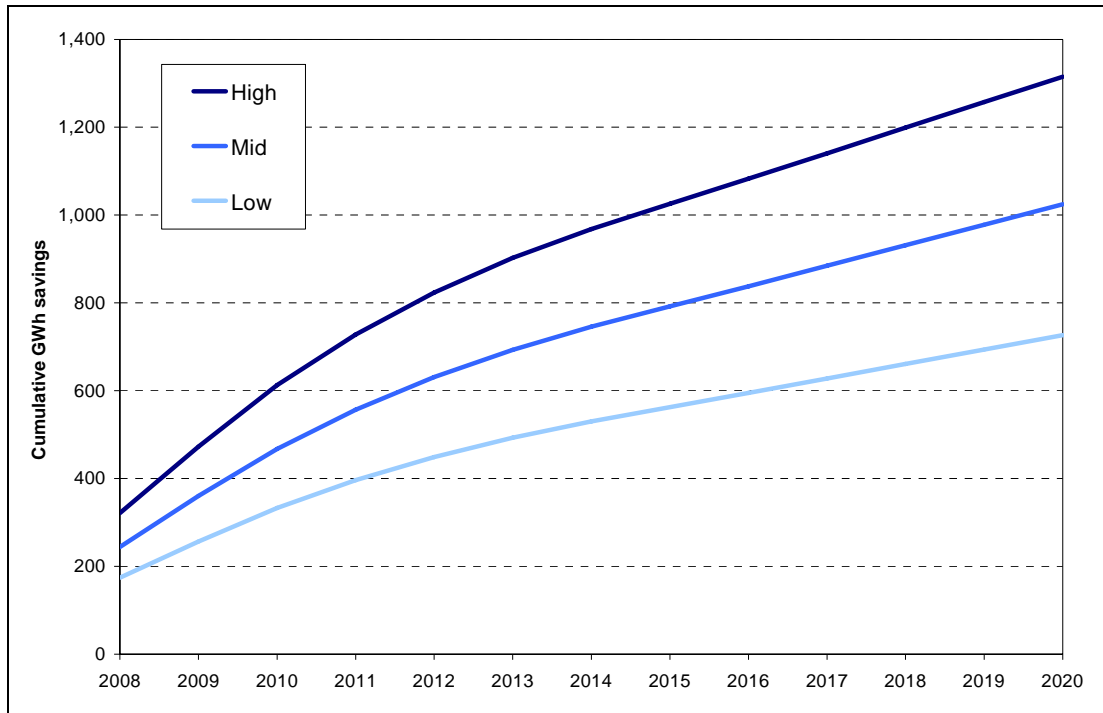


Figure C3-17. Estimated potential lighting savings in SDG&E from implementation of the Huffman Bill (gross savings incremental to C&S-adjusted base market potential)

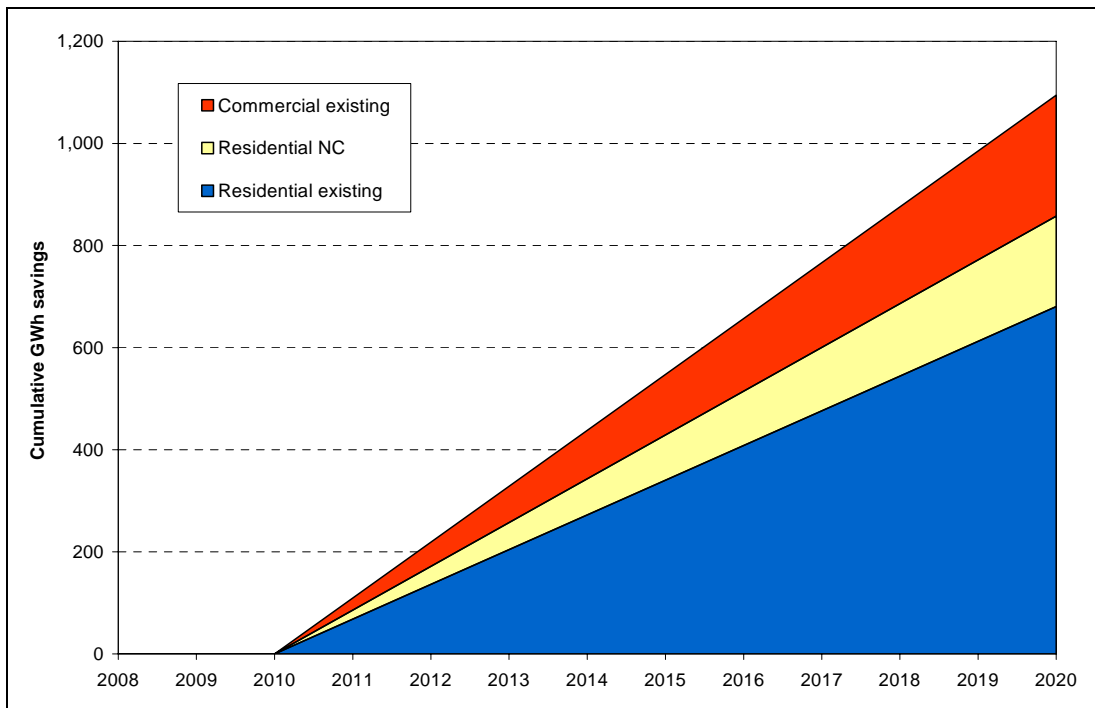


Figure C3-18. Estimated potential savings from implementation of the revisions to Title 24 in SDG&E (gross savings incremental to C&S-adjusted base market potential)

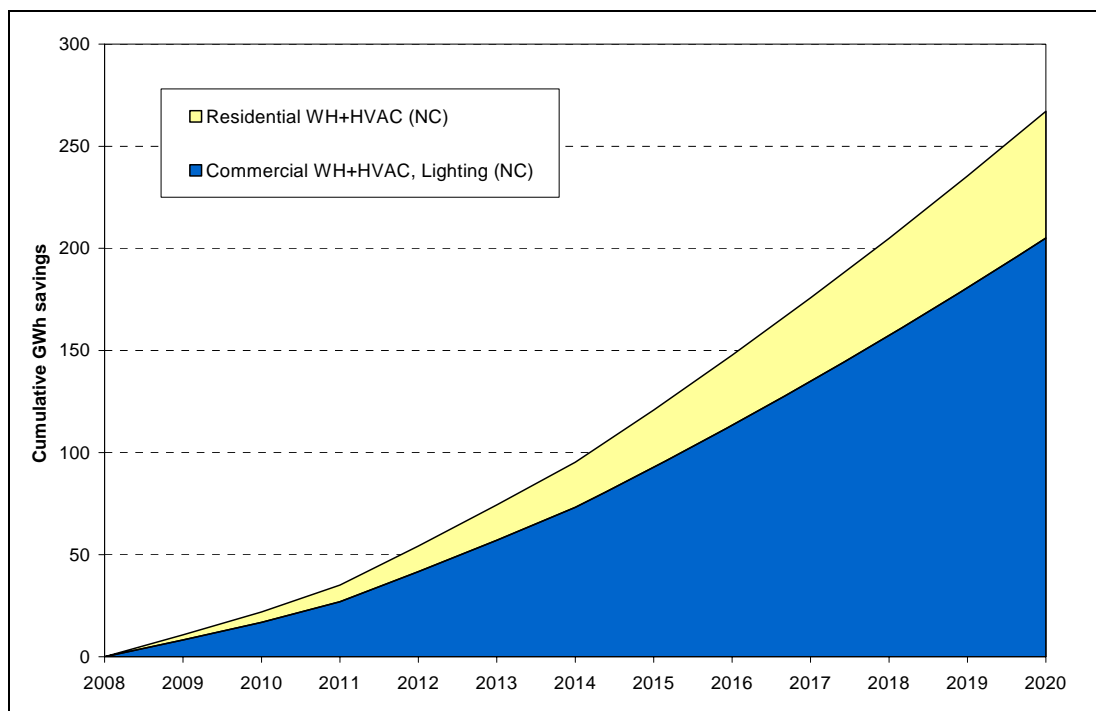


Figure C3-19. Estimated potential savings from implementation of the revised federal appliance standards in SDG&E (gross savings incremental to C&S-adjusted base market potential)

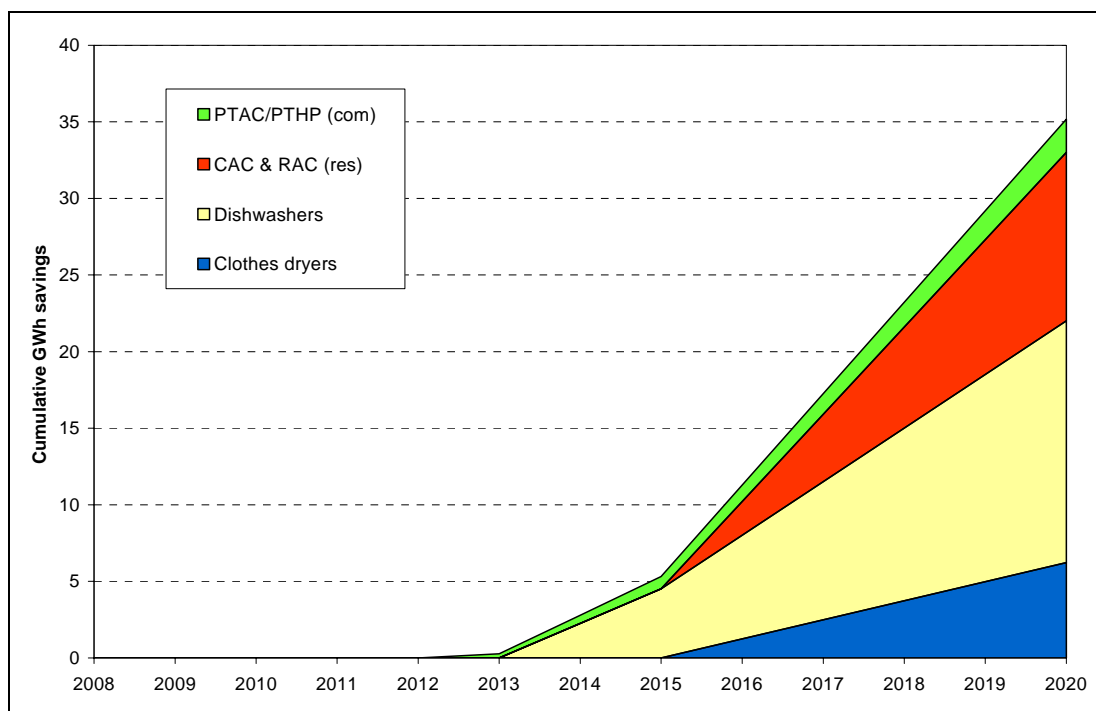


Figure C3-20. Estimated potential savings from future codes and standards in SDG&E (gross savings incremental to C&S-adjusted base market potential)

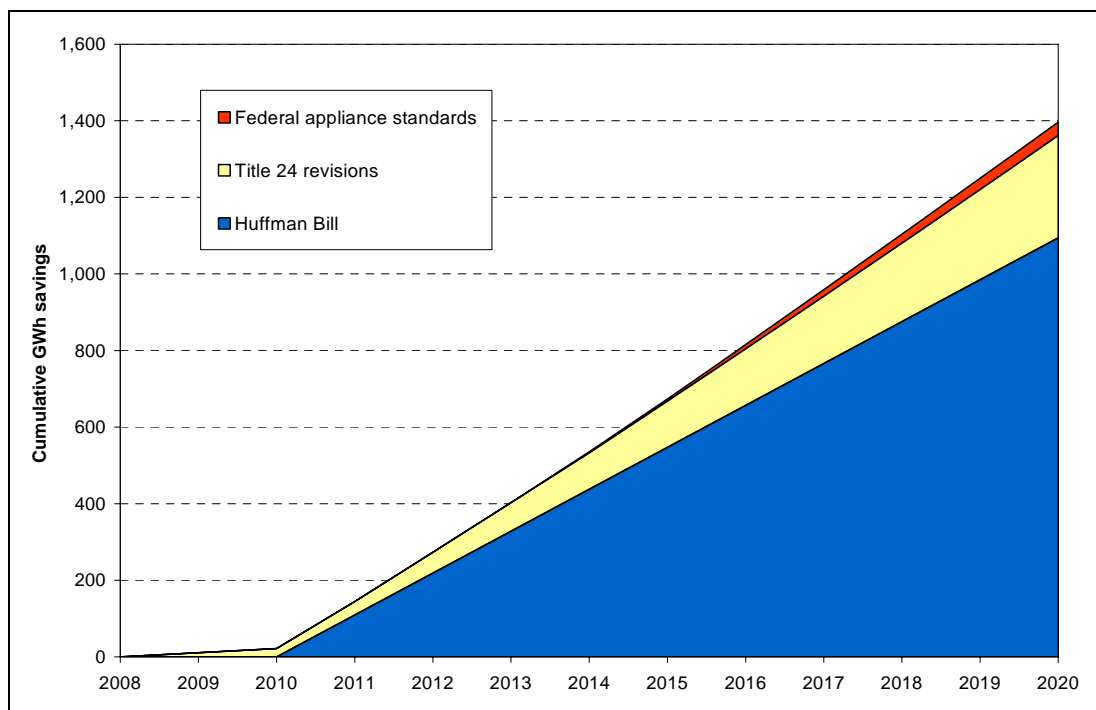


Figure C3-21. Uncertainty estimate of total potential savings from future codes and standards in SDG&E (gross savings incremental to C&S-adjusted base market potential)

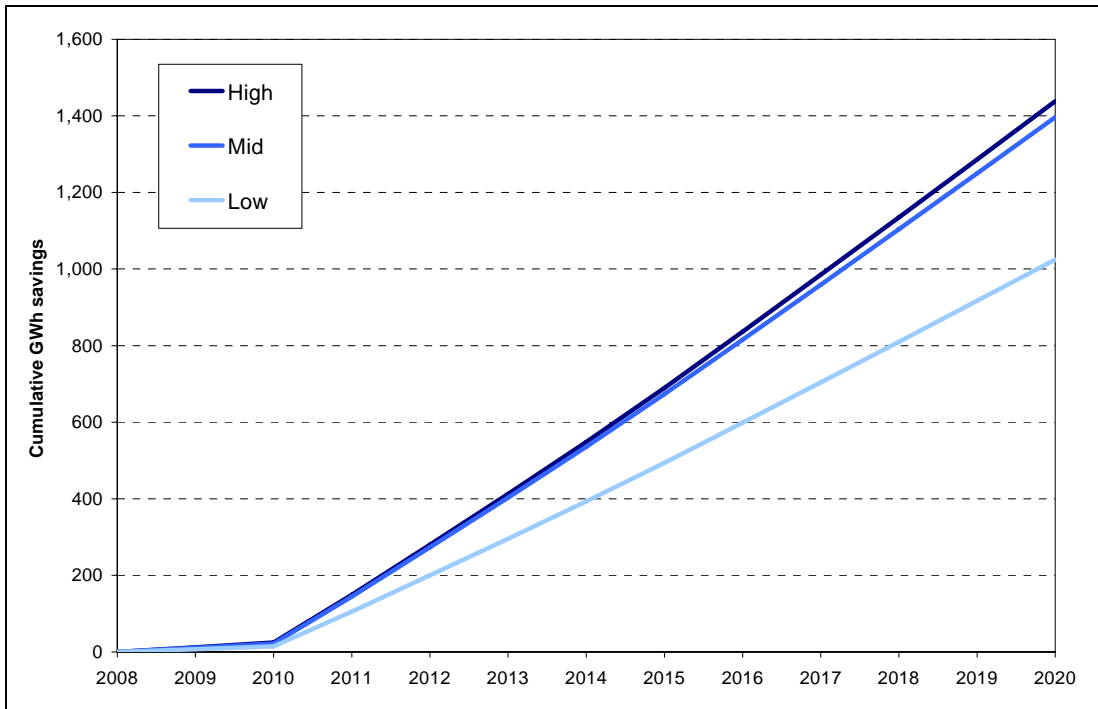


Figure C3-22. Estimated potential savings from all scenarios in SDG&E (gross savings assuming base-funding for IOU programs)

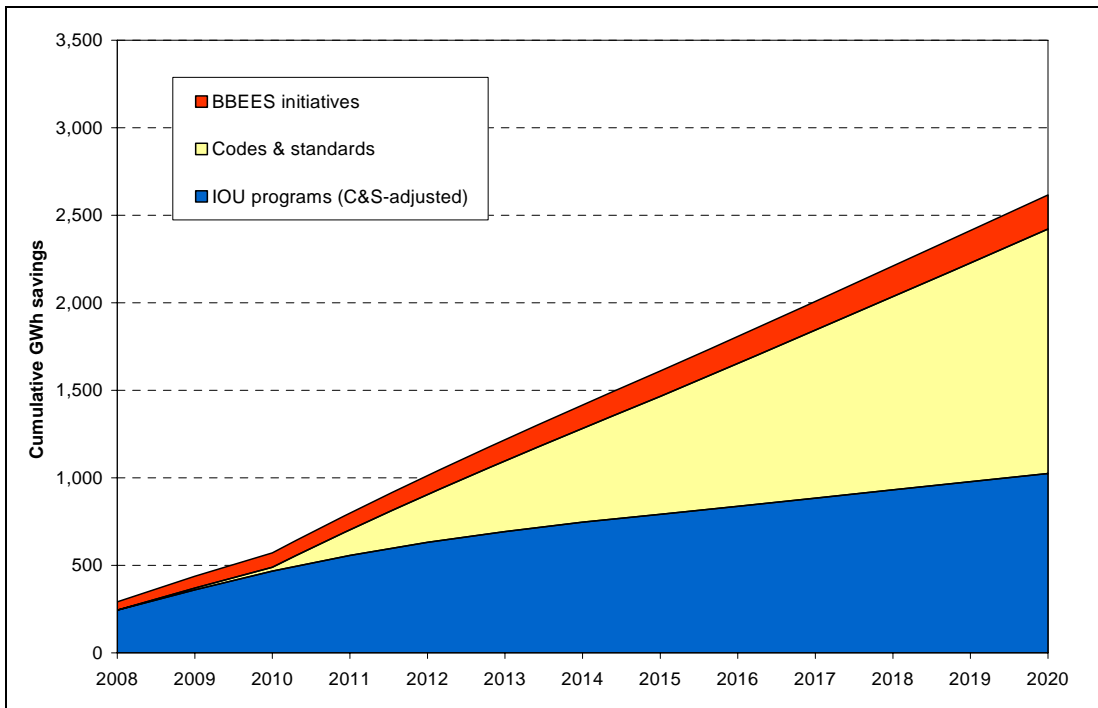


Figure C3-23. Estimated potential savings from all scenarios in SDG&E (gross savings assuming full-funding for IOU programs)

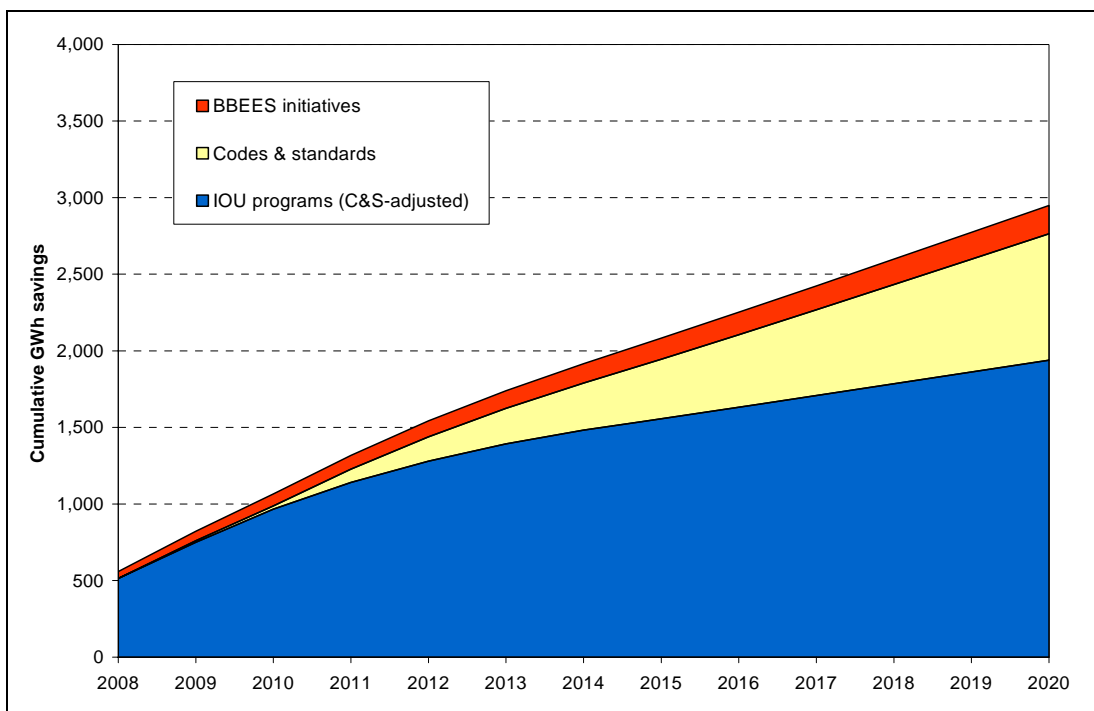


Table C3-16. Summary of estimated savings potential for each scenario in SDG&E (cumulative gross GWh savings in 2020)

Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	HVAC	27	20	15	27	20	15
	RNC	107	75	53	105	73	51
	CNC	165	100	79	158	92	71
	Total	299	195	147	290	185	137
Huffman Bill	Res existing	680	680	510	312	312	234
	RNC	177	177	133	83	83	62
	CNC	237	237	178	129	129	97
	Total	1,095	1,095	821	524	524	393
Title 24 revisions	RNC	75	62	36	75	62	36
	CNC	225	205	140	225	205	140
	Total	300	267	176	300	267	176
Federal standards	Clothes dryers	7	6	5	7	6	5
	Dishwashers	19	16	13	19	16	13
	CAC & RAC (res)	15	11	9	15	11	9
	PTAC/PTHP (com)	3	2	2	3	2	2
	Total	44	35	28	44	35	28
IOU code compliance (res)	Total	8	5	4	7	5	4
IOU programs (C&S-adjusted)	Res existing	410	284	180	941	796	405
	Com existing	558	476	357	827	705	529
	Industrial	234	187	140	298	239	179
	RNC	101	68	42	213	180	85
	CNC	12	10	7	22	17	13
	Total	1,315	1,025	727	2,301	1,938	1,210
TOTAL GROSS SAVINGS POTENTIAL		3,061	2,621	1,902	3,465	2,955	1,948
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		<i>1,013</i>	<i>635</i>	<i>458</i>	<i>1,013</i>	<i>635</i>	<i>458</i>

Figure C3-24. Uncertainty estimate of total potential savings from all scenarios in SDG&E (gross savings assuming base-funding for IOU programs)

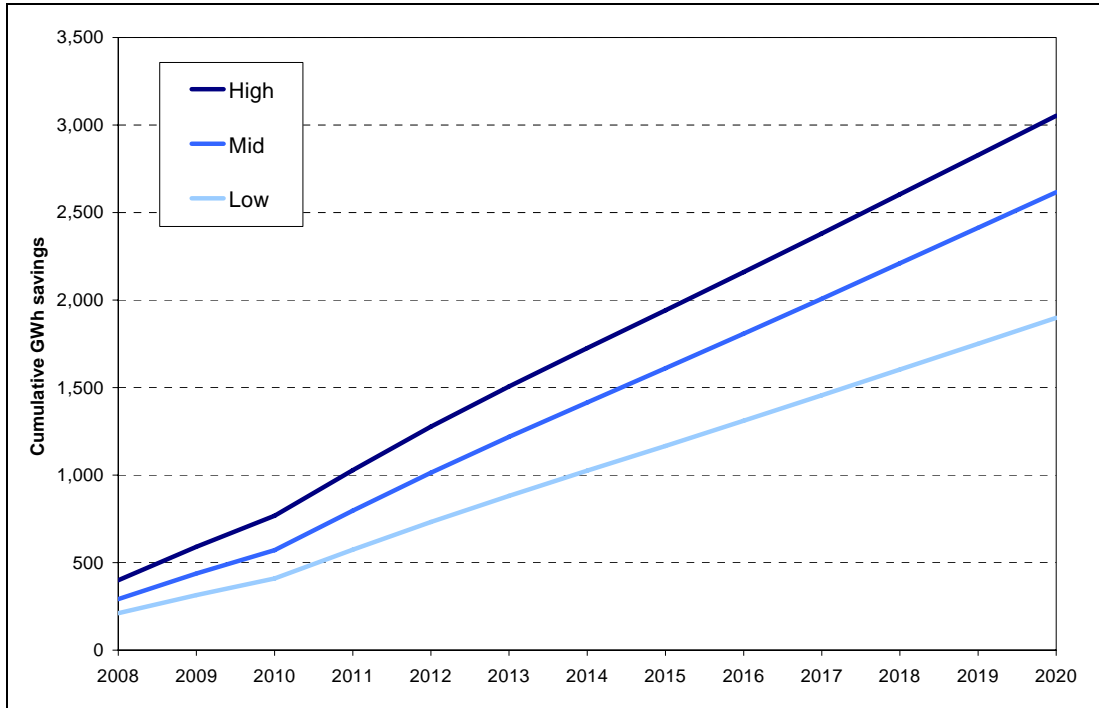


Figure C3-25. Uncertainty estimate of total potential savings from all scenarios in SDG&E (gross savings assuming full-funding for IOU programs)

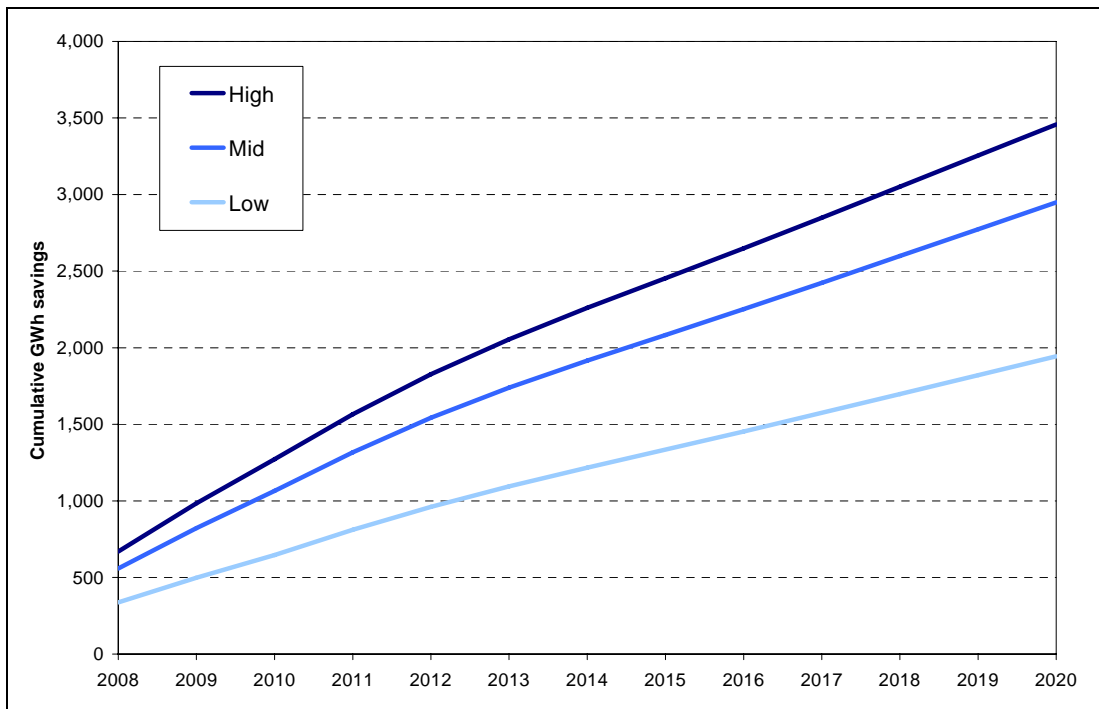


Figure C3-26. Cumulative savings from High, Mid and Low Cases compared to current goals through 2013 in SDG&E

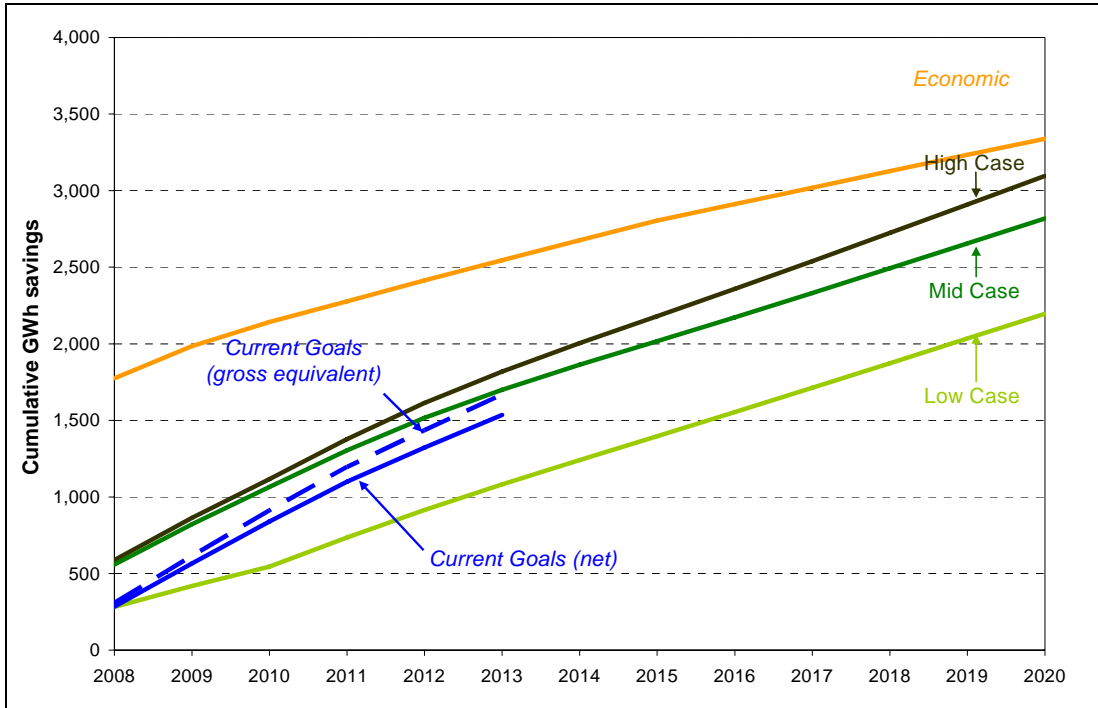


Figure C3-27. Composition of savings across mechanisms in the Low Case in SDG&E

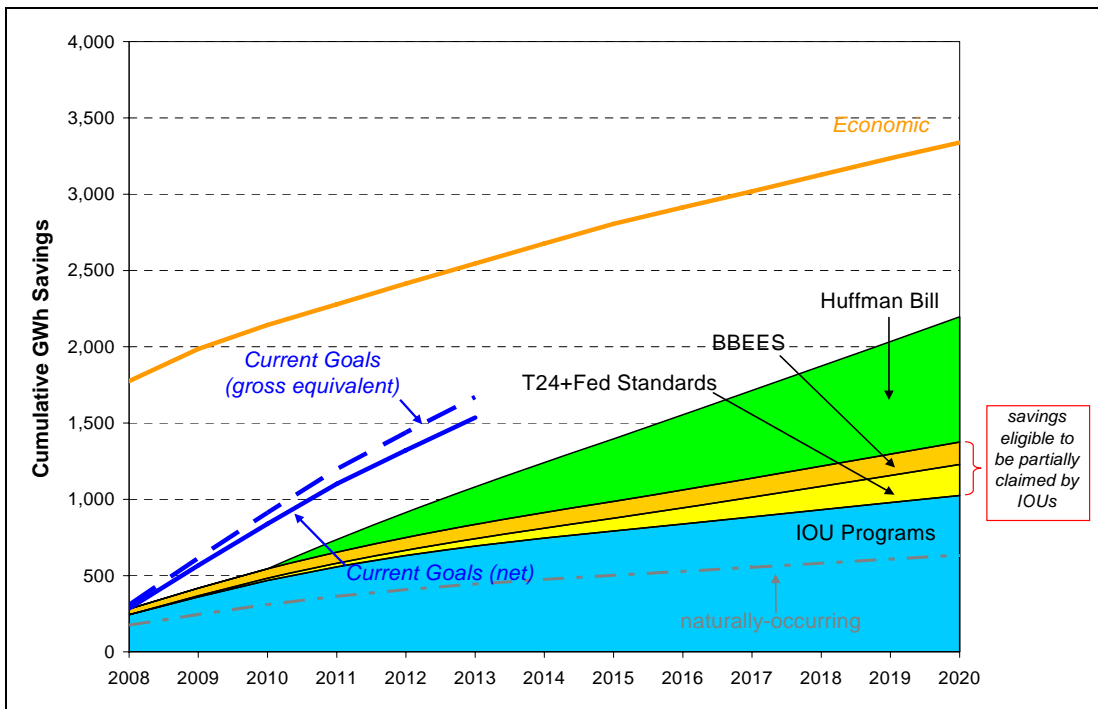


Figure C3-28. Composition of savings across mechanisms in the Mid Case in SDG&E

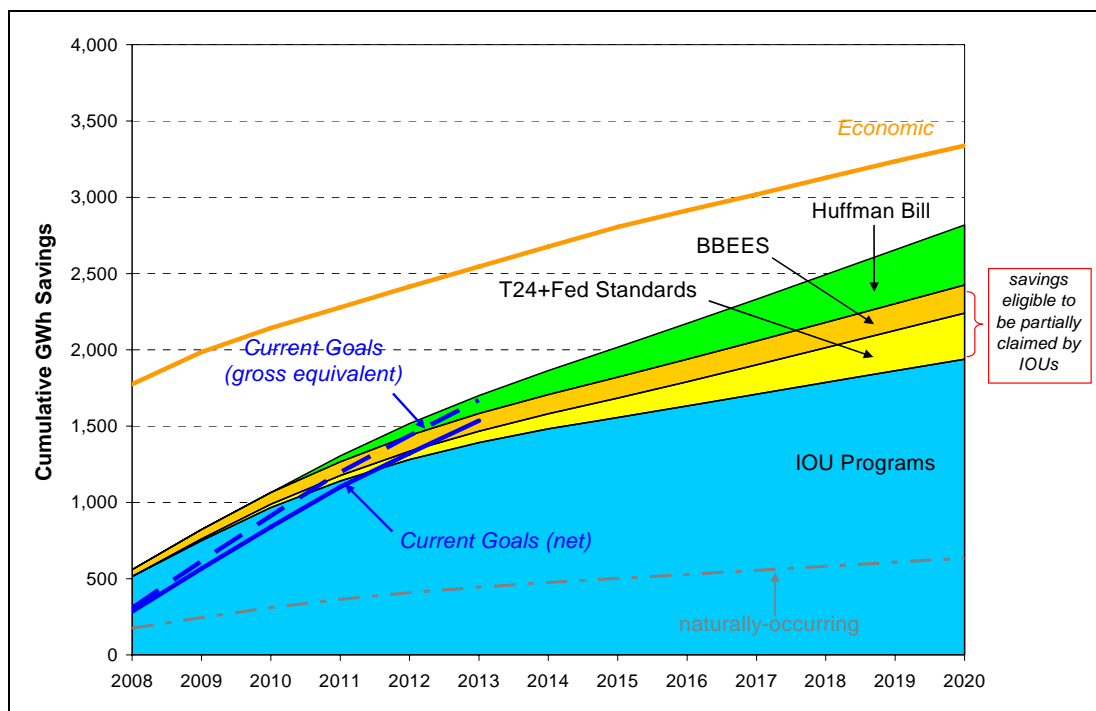
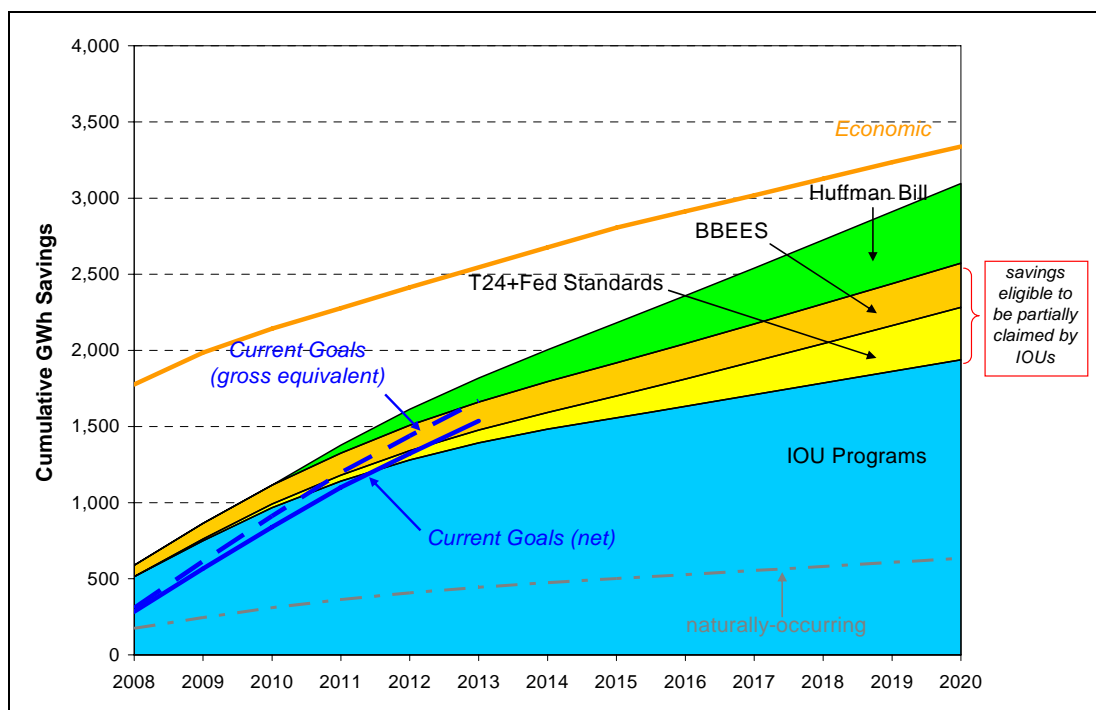


Figure C3-29. Composition of savings across mechanisms in the High Case in SDG&E



**Table C3-17. Estimated savings in the High, Mid, and Low straw man cases in
SDG&E (cumulative GWh savings in 2020)**

Savings mechanism:	Low Case	Mid Case	High Case
Utility programs (gross)	1,025	1,938	1,938
Huffman Bill	821	393	524
Codes & standards	204	302	344
BBEES initiatives	147	185	290
Total	2,196	2,818	3,096

Table C3-18. Cumulative GWh energy savings by saving mechanism in the High, Mid, and Low straw man cases in SDG&E over time

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Huffman Bill	0	0	0	82	164	246	328	410	493	575	657	739	821
	T24+Federal Standards	0	7	14	23	36	49	65	84	106	129	153	178	204
	BBEES	37	51	63	73	84	93	102	110	117	124	132	139	147
	IOU Programs	244	360	468	557	631	693	746	792	838	884	931	978	1025
Mid	Huffman Bill	0	0	0	39	79	118	157	196	236	275	314	354	393
	T24+Federal Standards	0	11	22	35	54	75	98	126	159	193	228	265	302
	BBEES	45	62	77	90	103	115	126	137	146	156	166	176	185
	IOU Programs	514	750	966	1140	1280	1392	1482	1557	1632	1708	1785	1862	1938
High	Huffman Bill	0	0	0	52	105	157	210	262	314	367	419	471	524
	T24+Federal Standards	0	12	25	39	61	84	111	142	180	219	259	301	344
	BBEES	75	102	125	146	167	185	202	219	232	246	261	276	290
	IOU Programs	514	750	966	1140	1280	1392	1482	1557	1632	1708	1785	1862	1938
Benchmarks	<i>Economic</i>	1775	1985	2142	2277	2414	2546	2677	2805	2913	3018	3128	3235	3339
	<i>Current IOU Goals (gross equivalent)</i>	309	615	912	1197	1437	1670							
	<i>Current IOU Goals (net)</i>	284	566	839	1101	1322	1536							

Appendix C4

Statewide Straw Man Scenario Results

Table C4-1. Cumulative GWh energy savings by saving mechanism in the High, Mid, and Low straw man cases over time (all IOUs)

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Huffman Bill	0	0	0	698	1397	2095	2793	3492	4190	4888	5587	6285	6983
	T24+Federal Standards	0	72	148	237	366	502	662	854	1103	1359	1624	1897	2178
	BBEES	381	531	660	779	907	1021	1125	1239	1333	1428	1534	1636	1734
	IOU Programs	2810	4174	5443	6504	7395	8147	8791	9361	9930	10506	11085	11663	12240
Mid	Huffman Bill	0	0	0	406	813	1219	1626	2032	2438	2845	3251	3658	4064
	T24+Federal Standards	0	111	228	364	563	773	1014	1304	1667	2042	2430	2831	3244
	BBEES	452	635	795	944	1107	1254	1388	1537	1664	1789	1931	2067	2197
	IOU Programs	4773	7007	9073	10770	12166	13314	14272	15096	15921	16758	17600	18440	19278
High	Huffman Bill	0	0	0	542	1084	1626	2168	2709	3251	3793	4335	4877	5419
	T24+Federal Standards	0	126	258	412	637	875	1150	1479	1902	2338	2789	3254	3733
	BBEES	744	1036	1287	1520	1769	1991	2193	2413	2596	2779	2985	3182	3372
	IOU Programs	4764	7009	9086	10793	12201	13362	14331	15167	16004	16852	17707	18558	19407
Benchmarks	<i>Economic</i>	18265	20447	22123	23586	25065	26497	27918	29318	30530	31713	32934	34133	35309
	<i>Current IOU Goals (gross equivalent)</i>	2723	5482	8161	10892	13661	16521							
	<i>Current IOU Goals (net)</i>	2505	5043	7508	10021	12568	15199							

Appendix D

Measure Level TRC Results

CPUC Goals Update Study – Appendix D

PG&E, Residential	
Measure:	TRC
R_1SpeedPP	NA
R_2SpeedPP	NA
R_AC_Tuneup	0.67
R_Bcontroler_MF	0.47
R_BoilerMF	15.26
R_CAC_SEER15	0.29
R_Ceillns_R19R30E	0.61
R_Ceillns_R19R30G	0.43
R_CFL_14_to_25W	3.00
R_CFL_Fixture	0.63
R_CFL_Over25W	2.94
R_CFL_Reflector	4.89
R_CFL_Table	0.50
R_CFL_Torchiere	1.44
R_CFL_Under14W	1.99
R_CoolRoof_CET	0.29
R_CW_MEF1.26	NA
R_CW_MEF1.26_G	NA
R_CW_MEF1.60	0.43
R_CW_MEF1.60_G	0.17
R_CW_MEF1.80	0.33
R_CW_MEF1.80_G	0.18
R_CW_MEF2.0	0.33
R_CW_MEF2.0_G	0.21
R_CW_MEF2.2	0.13
R_CW_MEF2.2_G	0.09
R_DUCTR_E	1.02
R_DUCTR_G	1.04
R_DW_EF0.58	0.39
R_DW_EF0.58_G	0.34
R_DW_EF0.62	0.38
R_DW_EF0.62_G	0.37
R_DW_EF0.68	0.21
R_DW_EF0.68_G	0.20
R_ExtLite_Control	0.24
R_FRZ_Recyl	6.61
R_Furn_AFUE90	0.65
R_Furn_AFUE92	0.70
R_Furn_AFUE96	0.77
R_HP_SEER15	0.44
R_LED_EXIT	3.89
R_LED_Reflector_CET	1.31
R_LEDXMAS_CET	2.45
R_NiteEcon_CET	0.07
R_OCC_Sensor	0.86
R_RAC_ES	0.29
R_REF_ES	0.56

CPUC Goals Update Study – Appendix D

PG&E, Residential	
Measure:	TRC
R_REF_Recyl	8.35
R_T8_4ft	0.26
R_WallIns_R0R13E	0.56
R_WallIns_R0R13G	0.73
R_WH_FA	0.85
R_WH_FA_G	1.04
R_WH_PW	1.76
R_WH_PW_G	1.37
R_WH_Shww	0.77
R_WH_Shww_G	0.94
R_WHEle_EF0.93	1.20
R_WHEle_Solar_CET	0.25
R_WHGas_EF0.63	0.45
R_WHGAS_POU	0.37
R_WHGAS_Solar_CET	0.11
R_WholeHFWan	0.12
R_Window_U25	1.06

CPUC Goals Update Study – Appendix D

PG&E, Commercial	
Measure:	TRC
C_HV_ChCent_HE	1.98
C_HV_ChillerAux	1.66
C_HV_ChRec_HE	5.82
C_HV_PACgt65_11	1.14
C_HV_PACgt65_12	1.25
C_HV_PAClt65_15	1.85
C_HV_PkgAC_Tuneup	1.27
C_HV_PTAC_HE	1.29
C_HV_PTHP_HE	1.17
C_HV_Boiler_85	1.08
C_HV_Boiler_95_CET	0.86
C_HV_CoolRoof	0.17
C_HV_Furn_AFUE92	0.24
C_HV_Furn_AFUE94	0.34
C_HV_WindowFilm	1.92
C_HV_Motor_0-10	7.22
C_HV_Motor_11-25	5.25
C_HV_Motor_26-49	3.14
C_HV_Motor_50+	6.12
C_HV_Retro_Chiller	0.65
C_HV_Retro_Vent	1.24
C_HV_VSD_Motor_10-25	1.75
C_HV_VSD_Motor_26-49	1.85
C_HV_VSD_Motor_50-100	1.78
C_Fryer_Elec_ES	0.28
C_Fryer_Gas_ES	1.79
C_Griddle_Elec_HE	0.56
C_Griddle_Gas_HE	0.24
C_HoldCabinet_Elec_HE	0.86
C_Oven_Convec_Elec_HE	1.03
C_Oven_Convec_Gas_HE	1.38
C_Oven_Elec_HE	1.34
C_Oven_Gas_HE	0.25
C_Ref_GD_Refrig_T2	0.41
C_Ref_IceMaker_T2	5.08
C_Ref_SD_Freezer_T2	1.12
C_Ref_SD_Refrig_T2	0.25
C_Steamer_Elec_ES	3.32
C_Steamer_Gas_ES	4.52
C_CFL_16_24W	7.64
C_CFL_Fixture_16_24W	3.78
C_CFL_Fixture_Over24W	3.99
C_CFL_Fixture_Under15W	2.20
C_CFL_Over24W	12.00
C_CFL_Under15W	8.73
C_LEDSignage	0.73
C_Lt_DLInst	0.25

CPUC Goals Update Study – Appendix D

PG&E, Commercial	
Measure:	TRC
C_LT_EXLED	2.96
C_LT_PCPC	2.38
C_LT_PCPT	2.60
C_LT_PCTC	2.67
C_OCCSensor_Motion	1.63
C_OCCSensor_Plugload	0.74
C_PSMH_Over150W_Ext	0.75
C_PSMH_Over150W_Int	1.06
C_PSMH_Under151W_Ext_INC	1.45
C_PSMH_Under151W_Ext_MV	0.79
C_PSMH_Under151W_Int_INC	2.47
C_PSMH_Under151W_Int_MV	1.16
C_Reflector_CFL	10.03
C_T12_Delamping_4Ft	3.29
C_T12_Delamping_8Ft	1.98
C_T8_2G_4Ft	3.48
C_T8_2G_8Ft	1.42
C_T8_Fixture_4Ft	2.85
C_T8_Fixture_8Ft	1.12
C_T8_HighBay	1.71
C_ClothesWasher_HE	1.41
C_Computer_80Plus	4.52
C_Copier_ES	0.84
C_NRefVendCtrl	1.64
C_PoolHeater_HE	6.06
C_RefVendCtrl	3.55
C_WH_Boiler_85	10.07
C_WH_Boiler_95_CET	10.09
C_WH_CircTimer	0.65
C_WH_Instant	0.56
C_WH_Storage_HE	0.72
C_WH_Storage_Solar	0.03
C_Ref_ASHCtrl	2.73
C_Ref_EvapFan_Ctrl	1.28
C_Ref_EvapFan_ECM	3.64
C_Ref_EvapFan_PSC	1.88
C_Ref_Gaskets	2.59
C_Ref_GDAutoClose	0.27
C_Ref_MplxEE_AirCond	3.22
C_Ref_MplxEE_EvapCond	3.65
C_Ref_NCover_Frz	1.85
C_Ref_NCover_Ref	4.52
C_Ref_NoASHGD_HE	1.94
C_Ref_OpenMDToGD_HE	0.22
C_Ref_SDAutoClose	0.83
C_Ref_Sngl2Mplx_AirC_HE	0.19
C_Ref_Sngl2Mplx_EvapC_HE	0.36
C_Ref_StripCurt	3.06

CPUC Goals Update Study – Appendix D

PG&E, Commercial	
Measure:	TRC
C_Ref_SucLnIns	5.53

CPUC Goals Update Study – Appendix D

PG&E, Industrial	
Measure:	TRC
Air_conveying_systems	8.84
Bakery_Process	6.63
Bakery_Process_(Mixing)_OM	12.43
Base_Centrifugal_Chiller_0.58_kW_ton_500_tons	NA
Base_DX_Packaged_System_EER=10.3_10_tons	NA
Centrifugal_Chiller_0.51_kW_ton_500_tons	4.38
CFL_Hardwired_Modular_36W	1.55
Chiller_Tune_Up_Diagnostics	0.88
Clean_Room_Controls	2.83
Clean_Room_New_Designs	1.40
Comp_Air_ASD_(100+_hp)	4.50
Comp_Air_ASD_(1-5_hp)	0.72
Comp_Air_ASD_(6-100_hp)	15.35
Comp_Air_Base_100+_HPmotor	NA
Comp_Air_Base_1-5_HPmotor	NA
Comp_Air_Base_6-100_HPmotor	NA
Comp_Air_Motor_practices-1_(100+_HP)	2.86
Comp_Air_Motor_practices-1_(1-5_HP)	1.95
Comp_Air_Motor_practices-1_(6-100_HP)	2.82
Comp_Air_Replace_100+_HP_motor	1.39
Comp_Air_Replace_1-5_HP_motor	0.92
Comp_Air_Replace_6-100_HP_motor	0.74
Compressed_Air_Controls	4.34
Compressed_Air_System_Optimization	7.78
Compressed_Air-OM	10.35
Compressed_AirSizing	12.45
Cool_Roof_Chiller	0.42
Cool_Roof_DX	0.72
Cooling_Circ._Pumps_VSD_	0.61
Direct_drive_Extruders	1.16
Drives_EE_motor	3.32
Drives_Optimization_process_(MT)	7.83
Drives_Process_Control	2.95
Drives_Process_Controls_(batch+_site)	1.76
Drives_Scheduling	3.37
Drying_(UV_IR)	1.79
DX_Packaged_System_EER=10.9_10_tons	1.20
DX_Tune_Up_Advanced_Diagnostics	0.44
Efficient_Curing_ovens	2.26
Efficient_desalter	3.08
Efficient_drives	3.89
Efficient_drives_rolling	3.82
Efficient_electric_melting	3.12
Efficient_grinding	0.80
Efficient_Machinery	3.45
Efficient_practices_printing_press	10.47
Efficient_Printing_press_(fewer_cylinders)	2.07

CPUC Goals Update Study – Appendix D

PG&E, Industrial	
Measure:	TRC
Efficient_processes_(welding_etc.)	4.51
Efficient_Refrigeration_Operations	10.36
EMS_Chiller_	0.76
Energy_Star_Transformers_Chiller	3.81
Energy_Star_Transformers_Comp_Air	3.51
Energy_Star_Transformers_Drives	3.50
Energy_Star_Transformers_DX	3.82
Energy_Star_Transformers_Fan	3.50
Energy_Star_Transformers_Heating	3.50
Energy_Star_Transformers_Lighting	4.09
Energy_Star_Transformers_Other	3.51
Energy_Star_Transformers_Process	3.51
Energy_Star_Transformers_Pumps	3.51
Energy_Star_Transformers_Refrigeration	3.51
Evaporative_Pre-Cooler	0.27
Extruders_injection_Moulding-multipump	2.17
Fan_Base_100+_HPmotor	NA
Fan_Base_1-5_HPmotor	NA
Fan_Base_6-100_HPmotor	NA
Fans_ASD_(100+_hp)	4.48
Fans_ASD_(1-5_hp)	0.71
Fans_ASD_(6-100_hp)	15.28
Fans_Controls	2.01
Fans_Motor_practices-1_(100+_HP)	2.85
Fans_Motor_practices-1_(1-5_HP)	1.94
Fans_Motor_practices-1_(6-100_HP)	2.81
Fans_OM	12.39
Fans_Replace_100+_HP_motor	1.39
Fans_Replace_1-5_HP_motor	0.91
Fans_Replace_6-100_HP_motor	0.73
Fans_System_Optimization	2.18
FansImprove_components	6.20
Gap_Forming_papermachine	10.47
Heat_Pumps_Drying	1.12
Heating_Optimization_process_(MT)	7.83
Heating_Process_Control	2.95
Heating_Scheduling	3.43
High_Consistency_forming	10.47
Injection_Moulding_Direct_drive	1.48
Injection_Moulding_Impulse_Cooling	2.17
Intelligent_extruder_(DOE)	0.77
Light_cylinders	0.89
Machinery	3.45
Membranes_for_wastewater	2.56
Metal_Halide_50W	0.33
Near_Net_Shape_Casting	8.84
New_transformers_welding	4.51
Occupancy_Sensor_4L4_Fluorescent_Fixtures	2.61

CPUC Goals Update Study – Appendix D

PG&E, Industrial	
Measure:	TRC
OM_drives_spinning_machines	3.11
OM_Extruders_Injection_Moulding	14.29
Optimization_control_PM	2.49
Optimization_Refrigeration	2.14
Optimize_drying_process	2.48
Other_Process_Controls_(batch+_site)	2.05
Power_recovery_Comp_Air	2.05
Power_recovery_Fans	2.05
Power_recovery_Process	2.05
Power_recovery_Pumps	2.06
Process_control_Drives	6.12
Process_control_Process	2.24
Process_Drives_ASD	1.98
Process_optimization	2.04
Prog._Thermostat_DX	3.81
Pump_Base_100+_HPmotor	NA
Pump_Base_1-5_HPmotor	NA
Pump_Base_6-100_HPmotor	NA
Pumps_ASD_(100+_hp)	4.49
Pumps_ASD_(1-5_hp)	0.72
Pumps_ASD_(6-100_hp)	15.32
Pumps_Controls	6.90
Pumps_Motor_practices-1_(100+_HP)	2.85
Pumps_Motor_practices-1_(1-5_HP)	1.95
Pumps_Motor_practices-1_(6-100_HP)	2.81
Pumps_OM	12.43
Pumps_Replace_100+_HP_motor	1.39
Pumps_Replace_1-5_HP_motor	0.92
Pumps_Replace_6-100_HP_motor	0.73
Pumps_Sizing	6.21
Pumps_System_Optimization	3.10
Refinery_Controls_Comp_Air	4.05
Refinery_Controls_Fans	4.05
Refinery_Controls_Process	4.05
Refinery_Controls_Pumps	4.07
Replace_V-Belts_Drives	6.22
Replace_V-belts_Other	2.40
RET_2L4_Premium_T8_1EB	2.38
Top-heating_(glass)	5.07
Window_Film_Chiller	1.21
Window_Film_DX	2.08

CPUC Goals Update Study – Appendix D

SCE, Residential	
Measure:	TRC
R_1SpeedPP	NA
R_2SpeedPP	NA
R_AC_Tuneup	0.96
R_CAC_SEER15	0.37
R_CeilIns_R19R30E	0.98
R_CFL_14_to_25W	3.12
R_CFL_Fixture	0.66
R_CFL_Over25W	3.05
R_CFL_Reflector	5.07
R_CFL_Table	0.51
R_CFL_Torchiere	1.50
R_CFL_Under14W	2.07
R_CoolRoof_CET	0.42
R_CW_MEF1.26	NA
R_CW_MEF1.60	0.47
R_CW_MEF1.80	0.38
R_CW_MEF2.0	0.33
R_CW_MEF2.2	0.13
R_DUCTR_E	1.09
R_DW_EF0.58	0.41
R_DW_EF0.62	0.39
R_DW_EF0.68	0.21
R_ExtLite_Control	0.25
R_FRZ_Recyl	6.89
R_HP_SEER15	0.46
R_LED_EXIT	4.04
R_LED_Reflector_CET	1.36
R_LEDXMAS_CET	2.48
R_NiteEcon_CET	0.08
R_OCC_Sensor	0.57
R_RAC_ES	0.34
R_REF_ES	0.59
R_REF_Recyl	7.75
R_T8_4ft	0.27
R_WallIns_R0R13E	0.58
R_WH_FA	1.05
R_WH_PW	2.38
R_WH_Shww	0.97
R_WHEle_EF0.93	1.05
R_WHEle_Solar_CET	0.32
R_WholeHFan	0.16
R_Window_U25	1.29

CPUC Goals Update Study – Appendix D

SCE, Commercial	
Measure:	TRC
C_Fryer_Elec_ES	0.30
C_Griddle_Elec_HE	0.60
C_HoldCabinet_Elec_HE	0.92
C_Oven_Convec_Elec_HE	1.10
C_Oven_Elec_HE	1.46
C_Ref_GD_Refrig_T2	0.43
C_Ref_IceMaker_T2	5.38
C_Ref_SD_Freezer_T2	1.18
C_Ref_SD_Refrig_T2	0.26
C_Steamer_Elec_ES	3.51
C_HV_PACgt65_11	1.94
C_HV_PACgt65_12	2.11
C_HV_PAClt65_15	2.64
C_HV_ChCent_HE	2.78
C_HV_ChillerAux	1.71
C_HV_ChRec_HE	7.58
C_HV_Motor_0-10	8.31
C_HV_Motor_11-25	5.58
C_HV_Motor_26-49	3.39
C_HV_Motor_50+	6.40
C_HV_Retro_Chiller	0.88
C_HV_Retro_Vent	1.32
C_HV_VSD_Motor_10-25	2.04
C_HV_VSD_Motor_26-49	2.20
C_HV_VSD_Motor_50-100	2.05
C_HV_CoolRoof	0.23
C_HV_WindowFilm	2.47
C_HV_PkgAC_Tuneup	1.65
C_HV_PTAC_HE	1.45
C_HV_PTHP_HE	1.35
C_CFL_16_24W	8.93
C_CFL_Fixture_16_24W	4.15
C_CFL_Fixture_Over24W	4.79
C_CFL_Fixture_Under15W	2.56
C_CFL_Over24W	12.83
C_CFL_Under15W	8.50
C_LEDSignage	0.82
C_Lt_DLInst	0.34
C_LT_EXLED	3.23
C_LT_PCPC	2.81
C_LT_PCPT	3.07
C_LT_PCTC	3.16
C_OCCSensor_Motion	1.78
C_OCCSensor_Plugload	0.87
C_PSMH_Over150W_Ext	0.62
C_PSMH_Over150W_Int	0.90
C_PSMH_Under151W_Ext_INC	1.76

CPUC Goals Update Study – Appendix D

SCE, Commercial	
Measure:	TRC
C_PSMH_Under151W_Ext_MV	0.86
C_PSMH_Under151W_Int_INC	2.76
C_PSMH_Under151W_Int_MV	1.30
C_Reflector_CFL	10.92
C_T12_Delamping_4Ft	3.23
C_T12_Delamping_8Ft	1.82
C_T8_2G_4Ft	3.70
C_T8_2G_8Ft	1.49
C_T8_Fixture_4Ft	3.03
C_T8_Fixture_8Ft	1.18
C_T8_HighBay	1.92
C_Computer_80Plus	4.95
C_Copier_ES	0.92
C_NRefVendCtrl	1.60
C_RefVendCtrl	3.76
C_Ref_ASHCtrl	2.81
C_Ref_EvapFan_Ctrl	1.21
C_Ref_EvapFan_ECM	3.87
C_Ref_EvapFan_PSC	2.00
C_Ref_Gaskets	2.72
C_Ref_GDAutoClose	0.28
C_Ref_MplxEE_AirCond	2.76
C_Ref_MplxEE_EvapCond	3.21
C_Ref_NCover_Frz	1.91
C_Ref_NCover_Ref	4.73
C_Ref_NoASHGD_HE	2.06
C_Ref_OpenMDToGD_HE	0.18
C_Ref_SDAutoClose	0.82
C_Ref_Sngl2Mplx_AirC_HE	NA
C_Ref_Sngl2Mplx_EvapC_HE	0.45
C_Ref_StripCurt	2.98
C_Ref_SucLnIns	5.75

CPUC Goals Update Study – Appendix D

SCE, Industrial	
Measure:	TRC
Air_conveying_systems	9.29
Bakery_Process	6.97
Bakery_Process_(Mixing)_OM	13.08
Base_Centrifugal_Chiller_0.58_kW_ton_500_tons	NA
Base_DX_Packaged_System_EER=10.3_10_tons	NA
Centrifugal_Chiller_0.51_kW_ton_500_tons	4.58
CFL_Hardwired_Modular_36W	1.61
Chiller_Tune_Up_Diagnostics	0.92
Clean_Room_Controls	2.98
Clean_Room_New_Designs	1.47
Comp_Air_ASD_(100+_hp)	4.74
Comp_Air_ASD_(1-5_hp)	0.76
Comp_Air_ASD_(6-100_hp)	16.15
Comp_Air_Base_100+_HPmotor	NA
Comp_Air_Base_1-5_HPmotor	NA
Comp_Air_Base_6-100_HPmotor	NA
Comp_Air_Motor_practices-1_(100+_HP)	3.01
Comp_Air_Motor_practices-1_(1-5_HP)	2.05
Comp_Air_Motor_practices-1_(6-100_HP)	2.97
Comp_Air_Replace_100+_HP_motor	1.47
Comp_Air_Replace_1-5_HP_motor	0.96
Comp_Air_Replace_6-100_HP_motor	0.77
Compressed_Air_Controls	4.57
Compressed_Air_System_Optimization	8.19
Compressed_Air-OM	10.89
Compressed_AirSizing	13.10
Cool_Roof_Chiller	0.44
Cool_Roof_DX	0.75
Cooling_Circ._Pumps_VSD_	0.64
Direct_drive_Extruders	1.22
Drives_EE_motor	3.41
Drives_Optimization_process_(MT)	8.26
Drives_Process_Control	3.09
Drives_Process_Controls_(batch+_site)	1.76
Drives_Scheduling	3.53
Drying_(UV_IR)	1.89
DX_Packaged_System_EER=10.9_10_tons	1.26
DX_Tune_Up_Advanced_Diagnostics	0.46
Efficient_Curing_ovens	2.38
Efficient_desalter	3.23
Efficient_drives	4.09
Efficient_drives_rolling	4.00
Efficient_electric_melting	3.28
Efficient_grinding	0.84
Efficient_Machinery	3.63
Efficient_practices_printing_press	11.01
Efficient_Printing_press_(fewer_cylinders)	2.18

CPUC Goals Update Study – Appendix D

SCE, Industrial	
Measure:	TRC
Efficient_processes_(welding_etc.)	4.76
Efficient_Refrigeration_Operations	10.90
EMS_Chiller_	0.79
Energy_Star_Transformers_Chiller	3.99
Energy_Star_Transformers_Comp_Air	3.70
Energy_Star_Transformers_Drives	3.68
Energy_Star_Transformers_DX	3.99
Energy_Star_Transformers_Fan	3.67
Energy_Star_Transformers_Heating	3.68
Energy_Star_Transformers_Lighting	4.28
Energy_Star_Transformers_Other	3.69
Energy_Star_Transformers_Process	3.70
Energy_Star_Transformers_Pumps	3.67
Energy_Star_Transformers_Refrigeration	3.69
Evaporative_Pre-Cooler	0.28
Extruders_injection_Moulding-multipump	2.27
Fan_Base_100+_HPmotor	NA
Fan_Base_1-5_HPmotor	NA
Fan_Base_6-100_HPmotor	NA
Fans_ASD_(100+_hp)	4.70
Fans_ASD_(1-5_hp)	0.75
Fans_ASD_(6-100_hp)	16.03
Fans_Controls	2.11
Fans_Motor_practices-1_(100+_HP)	2.99
Fans_Motor_practices-1_(1-5_HP)	2.04
Fans_Motor_practices-1_(6-100_HP)	2.94
Fans_OM	13.01
Fans_Replace_100+_HP_motor	1.46
Fans_Replace_1-5_HP_motor	0.96
Fans_Replace_6-100_HP_motor	0.77
Fans_System_Optimization	2.29
FansImprove_components	6.50
Gap_Forming_papermachine	11.01
Heat_Pumps_Drying	1.18
Heating_Optimization_process_(MT)	8.26
Heating_Process_Control	3.09
Heating_Scheduling	3.61
High_Consistency_forming	11.01
Injection_Moulding_Direct_drive	1.55
Injection_Moulding_Impulse_Cooling	2.27
Intelligent_extruder_(DOE)	0.80
Light_cylinders	0.93
Machinery	3.94
Membranes_for_wastewater	2.70
Metal_Halide_50W	0.34
Near_Net_Shape_Casting	9.27
New_transformers_welding	4.76
Occupancy_Sensor_4L4_Fluorescent_Fixtures	2.72

CPUC Goals Update Study – Appendix D

SCE, Industrial	
Measure:	TRC
OM_drives_spinning_machines	3.27
OM_Extruders_Injection_Moulding	14.98
Optimization_control_PM	2.62
Optimization_Refrigeration	2.25
Optimize_drying_process	2.61
Other_Process_Controls_(batch+_site)	2.15
Power_recovery_Comp_Air	2.15
Power_recovery_Fans	2.15
Power_recovery_Process	2.15
Power_recovery_Pumps	2.15
Process_control_Drives	6.42
Process_control_Process	2.36
Process_Drives_ASD	2.08
Process_optimization	2.14
Prog._Thermostat_DX	3.98
Pump_Base_100+_HPmotor	NA
Pump_Base_1-5_HPmotor	NA
Pump_Base_6-100_HPmotor	NA
Pumps_ASD_(100+_hp)	4.70
Pumps_ASD_(1-5_hp)	0.75
Pumps_ASD_(6-100_hp)	16.01
Pumps_Controls	7.22
Pumps_Motor_practices-1_(100+_HP)	2.98
Pumps_Motor_practices-1_(1-5_HP)	2.04
Pumps_Motor_practices-1_(6-100_HP)	2.94
Pumps_OM	12.99
Pumps_Replace_100+_HP_motor	1.45
Pumps_Replace_1-5_HP_motor	0.96
Pumps_Replace_6-100_HP_motor	0.77
Pumps_Sizing	6.49
Pumps_System_Optimization	3.24
Refinery_Controls_Comp_Air	4.25
Refinery_Controls_Fans	4.25
Refinery_Controls_Process	4.25
Refinery_Controls_Pumps	4.25
Replace_V-Belts_Drives	6.54
Replace_V-belts_Other	2.52
RET_2L4_Premium_T8_1EB	2.48
Top-heating_(glass)	5.32
Window_Film_Chiller	1.27
Window_Film_DX	2.17

CPUC Goals Update Study – Appendix D

SDG&E, Residential	
Measure:	TRC
R_1SpeedPP	NA
R_2SpeedPP	NA
R_AC_Tuneup	0.84
R_Bcontroler_MF	0.45
R_BoilerMF	14.95
R_CAC_SEER15	0.28
R_Ceillns_R19R30E	0.91
R_Ceillns_R19R30G	0.51
R_CFL_14_to_25W	3.32
R_CFL_Fixture	0.70
R_CFL_Over25W	3.26
R_CFL_Reflector	5.40
R_CFL_Table	0.55
R_CFL_Torchiere	1.60
R_CFL_Under14W	2.21
R_CoolRoof_CET	0.44
R_CW_MEF1.26	NA
R_CW_MEF1.26_G	NA
R_CW_MEF1.60	0.48
R_CW_MEF1.60_G	0.17
R_CW_MEF1.80	0.39
R_CW_MEF1.80_G	0.18
R_CW_MEF2.0	0.33
R_CW_MEF2.0_G	0.20
R_CW_MEF2.2	0.14
R_CW_MEF2.2_G	0.09
R_DUCTR_E	0.80
R_DUCTR_G	1.17
R_DW_EF0.58	0.42
R_DW_EF0.58_G	0.35
R_DW_EF0.62	0.39
R_DW_EF0.62_G	0.35
R_DW_EF0.68	0.21
R_DW_EF0.68_G	0.20
R_ExtLite_Control	0.27
R_FRZ_Recyl	7.02
R_Furn_AFUE90	0.39
R_Furn_AFUE92	0.41
R_Furn_AFUE96	0.45
R_HP_SEER15	0.51
R_LED_EXIT	4.29
R_LED_Reflector_CET	1.44
R_LEDXMAS_CET	2.63
R_NiteEcon_CET	0.07
R_OCC_Sensor	0.60
R_RAC_ES	0.31
R_REF_ES	0.60

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SDG&E, Residential	
Measure:	TRC
R_REF_Recyl	8.86
R_T8_4ft	0.29
R_WallIns_R0R13E	0.50
R_WallIns_R0R13G	0.60
R_WH_FA	0.92
R_WH_FA_G	0.71
R_WH_PW	2.04
R_WH_PW_G	1.66
R_WH_Shww	0.90
R_WH_Shww_G	0.65
R_WHEle_EF0.93	1.14
R_WHEle_Solar_CET	0.28
R_WHGas_EF0.63	0.44
R_WHGAS_POU	0.36
R_WHGAS_Solar_CET	0.11
R_WholeHFan	0.15
R_Window_U25	1.09

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SDG&E, Commercial	
Measure:	TRC
C_HV_ChCent_HE	2.84
C_HV_ChillerAux	2.25
C_HV_ChRec_HE	7.84
C_HV_PACgt65_11	1.78
C_HV_PACgt65_12	2.02
C_HV_PAClt65_15	2.79
C_HV_PkgAC_Tuneup	1.67
C_HV_PTAC_HE	1.51
C_HV_PTHP_HE	1.57
C_HV_Boiler_85	0.87
C_HV_Boiler_95_CET	0.34
C_HV_CoolRoof	0.20
C_HV_Furn_AFUE92	0.06
C_HV_Furn_AFUE94	0.07
C_HV_WindowFilm	2.47
C_HV_Motor_0-10	8.80
C_HV_Motor_11-25	6.00
C_HV_Motor_26-49	3.47
C_HV_Motor_50+	6.57
C_HV_Retro_Chiller	0.88
C_HV_Retro_Vent	1.22
C_HV_VSD_Motor_10-25	2.11
C_HV_VSD_Motor_26-49	1.97
C_HV_VSD_Motor_50-100	2.20
C_Fryer_Elec_ES	0.31
C_Fryer_Gas_ES	1.70
C_Griddle_Elec_HE	0.62
C_Griddle_Gas_HE	0.22
C_HoldCabinet_Elec_HE	0.97
C_Oven_Convec_Elec_HE	1.17
C_Oven_Convec_Gas_HE	1.30
C_Oven_Elec_HE	1.57
C_Oven_Gas_HE	0.24
C_Ref_GD_Refrig_T2	0.48
C_Ref_IceMaker_T2	6.11
C_Ref_SD_Freezer_T2	1.41
C_Ref_SD_Refrig_T2	0.30
C_Steamer_Elec_ES	3.75
C_Steamer_Gas_ES	4.31
C_CFL_16_24W	9.14
C_CFL_Fixture_16_24W	3.70
C_CFL_Fixture_Over24W	5.10
C_CFL_Fixture_Under15W	2.58
C_CFL_Over24W	13.37
C_CFL_Under15W	8.53
C_LEDSignage	0.85
C_Lt_DLInst	0.31

CPUC Goals Update Study – Appendix D

SDG&E, Commercial	
Measure:	TRC
C_LT_EXLED	3.58
C_LT_PCPC	2.85
C_LT_PCPT	3.11
C_LT_PCTC	3.19
C_OCCSensor_Motion	1.93
C_OCCSensor_Plugload	0.75
C_PSMH_Over150W_Ext	0.66
C_PSMH_Over150W_Int	0.97
C_PSMH_Under151W_Ext_INC	1.78
C_PSMH_Under151W_Ext_MV	0.81
C_PSMH_Under151W_Int_INC	2.99
C_PSMH_Under151W_Int_MV	1.54
C_Reflector_CFL	11.47
C_T12_Delamping_4Ft	3.74
C_T12_Delamping_8Ft	2.09
C_T8_2G_4Ft	3.97
C_T8_2G_8Ft	1.78
C_T8_Fixture_4Ft	3.24
C_T8_Fixture_8Ft	1.39
C_T8_HighBay	2.47
C_ClothesWasher_HE	1.35
C_Computer_80Plus	5.19
C_Copier_ES	0.99
C_NRefVendCtrl	NA
C_PoolHeater_HE	6.03
C_RefVendCtrl	3.70
C_WH_Boiler_85	9.65
C_WH_Boiler_95_CET	9.67
C_WH_CircTimer	1.46
C_WH_Instant	0.53
C_WH_Storage_HE	1.13
C_WH_Storage_Solar	0.03
C_Ref_ASHCtrl	2.84
C_Ref_EvapFan_Ctrl	1.38
C_Ref_EvapFan_ECM	4.14
C_Ref_EvapFan_PSC	2.14
C_Ref_Gaskets	2.73
C_Ref_GDAutoClose	0.29
C_Ref_MplxEE_AirCond	2.95
C_Ref_MplxEE_EvapCond	3.39
C_Ref_NCover_Frz	1.94
C_Ref_NCover_Ref	4.81
C_Ref_NoASHGD_HE	2.21
C_Ref_OpenMDToGD_HE	0.18
C_Ref_SDAutoClose	0.95
C_Ref_Sngl2Mplx_AirC_HE	0.13
C_Ref_Sngl2Mplx_EvapC_HE	0.41
C_Ref_StripCurt	3.43

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SDG&E, Commercial	
Measure:	TRC
C_Ref_SucLnIns	5.38

CPUC Goals Update Study – Appendix D

SDG&E, Industrial	
Measure:	TRC
Air_conveying_systems	9.65
Bakery_Process	7.24
Bakery_Process_(Mixing)_OM	13.61
Base_Centrifugal_Chiller_0.58_kW_ton_500_tons	NA
Base_DX_Packaged_System_EER=10.3_10_tons	NA
Centrifugal_Chiller_0.51_kW_ton_500_tons	4.73
CFL_Hardwired_Modular_36W	1.68
Chiller_Tune_Up_Diagnostics	0.95
Clean_Room_Controls	3.10
Clean_Room_New_Designs	1.52
Comp_Air_ASD_(100+_hp)	4.98
Comp_Air_ASD_(1-5_hp)	0.79
Comp_Air_ASD_(6-100_hp)	16.95
Comp_Air_Base_100+_HPmotor	NA
Comp_Air_Base_1-5_HPmotor	NA
Comp_Air_Base_6-100_HPmotor	NA
Comp_Air_Motor_practices-1_(100+_HP)	3.16
Comp_Air_Motor_practices-1_(1-5_HP)	2.15
Comp_Air_Motor_practices-1_(6-100_HP)	3.11
Comp_Air_Replace_100+_HP_motor	1.54
Comp_Air_Replace_1-5_HP_motor	1.01
Comp_Air_Replace_6-100_HP_motor	0.81
Compressed_Air_Controls	4.80
Compressed_Air_System_Optimization	8.59
Compressed_Air-OM	11.44
Compressed_AirSizing	13.75
Cool_Roof_Chiller	0.45
Cool_Roof_DX	0.78
Cooling_Circ._Pumps_VSD_	0.66
Direct_drive_Extruders	1.26
Drives_EE_motor	3.66
Drives_Optimization_process_(MT)	8.63
Drives_Process_Control	3.19
Drives_Process_Controls_(batch+_site)	2.15
Drives_Scheduling	3.64
Drying_(UV_IR)	1.97
DX_Packaged_System_EER=10.9_10_tons	1.30
DX_Tune_Up_Advanced_Diagnostics	0.48
Efficient_Curing_ovens	2.48
Efficient_desalter	3.34
Efficient_drives	4.25
Efficient_drives_rolling	4.15
Efficient_electric_melting	3.38
Efficient_grinding	0.87
Efficient_Machinery	3.78
Efficient_practices_printing_press	11.41
Efficient_Printing_press_(fewer_cylinders)	2.26

CPUC Goals Update Study – Appendix D

SDG&E, Industrial	
Measure:	TRC
Efficient_processes_(welding_etc.)	4.96
Efficient_Refrigeration_Operations	11.34
EMS_Chiller_	0.82
Energy_Star_Transformers_Chiller	4.10
Energy_Star_Transformers_Comp_Air	3.85
Energy_Star_Transformers_Drives	3.82
Energy_Star_Transformers_DX	4.10
Energy_Star_Transformers_Fan	3.82
Energy_Star_Transformers_Heating	3.86
Energy_Star_Transformers_Lighting	4.43
Energy_Star_Transformers_Other	3.85
Energy_Star_Transformers_Process	3.82
Energy_Star_Transformers_Pumps	3.80
Energy_Star_Transformers_Refrigeration	3.82
Evaporative_Pre-Cooler	0.29
Extruders_injection_Moulding-multipump	2.35
Fan_Base_100+_HPmotor	NA
Fan_Base_1-5_HPmotor	NA
Fan_Base_6-100_HPmotor	NA
Fans_ASD_(100+_hp)	4.94
Fans_ASD_(1-5_hp)	0.78
Fans_ASD_(6-100_hp)	16.81
Fans_Controls	2.21
Fans_Motor_practices-1_(100+_HP)	3.14
Fans_Motor_practices-1_(1-5_HP)	2.13
Fans_Motor_practices-1_(6-100_HP)	3.09
Fans_OM	13.64
Fans_Replace_100+_HP_motor	1.53
Fans_Replace_1-5_HP_motor	1.00
Fans_Replace_6-100_HP_motor	0.81
Fans_System_Optimization	2.40
FansImprove_components	6.82
Gap_Forming_papermachine	11.41
Heat_Pumps_Drying	1.22
Heating_Optimization_process_(MT)	8.63
Heating_Process_Control	3.19
Heating_Scheduling	3.77
High_Consistency_forming	11.41
Injection_Moulding_Direct_drive	1.60
Injection_Moulding_Impulse_Cooling	2.35
Intelligent_extruder_(DOE)	0.83
Light_cylinders	0.97
Machinery	4.04
Membranes_for_wastewater	2.80
Metal_Halide_50W	0.36
Near_Net_Shape_Casting	9.58
New_transformers_welding	4.96
Occupancy_Sensor_4L4_Fluorescent_Fixtures	2.84

CPUC Goals Update Study – Appendix D

SDG&E, Industrial	
Measure:	TRC
OM_drives_spinning_machines	3.40
OM_Extruders_Injection_Moulding	15.50
Optimization_control_PM	2.72
Optimization_Refrigeration	2.33
Optimize_drying_process	2.72
Other_Process_Controls_(batch+_site)	2.23
Power_recovery_Comp_Air	2.23
Power_recovery_Fans	2.23
Power_recovery_Process	2.23
Power_recovery_Pumps	2.23
Process_control_Drives	6.65
Process_control_Process	2.45
Process_Drives_ASD	2.16
Process_optimization	2.22
Prog._Thermostat_DX	4.13
Pump_Base_100+_HPmotor	NA
Pump_Base_1-5_HPmotor	NA
Pump_Base_6-100_HPmotor	NA
Pumps_ASD_(100+_hp)	4.91
Pumps_ASD_(1-5_hp)	0.78
Pumps_ASD_(6-100_hp)	16.71
Pumps_Controls	7.53
Pumps_Motor_practices-1_(100+_HP)	3.12
Pumps_Motor_practices-1_(1-5_HP)	2.12
Pumps_Motor_practices-1_(6-100_HP)	3.07
Pumps_OM	13.56
Pumps_Replace_100+_HP_motor	1.52
Pumps_Replace_1-5_HP_motor	1.00
Pumps_Replace_6-100_HP_motor	0.80
Pumps_Sizing	6.78
Pumps_System_Optimization	3.38
Refinery_Controls_Comp_Air	4.40
Refinery_Controls_Fans	4.40
Refinery_Controls_Process	4.40
Refinery_Controls_Pumps	4.40
Replace_V-Belts_Drives	6.81
Replace_V-belts_Other	2.66
RET_2L4_Premium_T8_1EB	2.59
Top-heating_(glass)	5.52
Window_Film_Chiller	1.31
Window_Film_DX	2.25

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PG&E, Residential	
Measure:	TRC
R_1SpeedPP	NA
R_2SpeedPP	NA
R_AC_Tuneup	0.67
R_Bcontroler_MF	0.47
R_BoilerMF	15.26
R_CAC_SEER15	0.29
R_Ceillns_R19R30E	0.61
R_Ceillns_R19R30G	0.43
R_CFL_14_to_25W	3.00
R_CFL_Fixture	0.63
R_CFL_Over25W	2.94
R_CFL_Reflector	4.89
R_CFL_Table	0.50
R_CFL_Torchiere	1.44
R_CFL_Under14W	1.99
R_CoolRoof_CET	0.29
R_CW_MEF1.26	NA
R_CW_MEF1.26_G	NA
R_CW_MEF1.60	0.43
R_CW_MEF1.60_G	0.17
R_CW_MEF1.80	0.33
R_CW_MEF1.80_G	0.18
R_CW_MEF2.0	0.33
R_CW_MEF2.0_G	0.21
R_CW_MEF2.2	0.13
R_CW_MEF2.2_G	0.09
R_DUCTR_E	1.02
R_DUCTR_G	1.04
R_DW_EF0.58	0.39
R_DW_EF0.58_G	0.34
R_DW_EF0.62	0.38
R_DW_EF0.62_G	0.37
R_DW_EF0.68	0.21
R_DW_EF0.68_G	0.20
R_ExtLite_Control	0.24
R_FRZ_Recyl	6.61
R_Furn_AFUE90	0.65
R_Furn_AFUE92	0.70
R_Furn_AFUE96	0.77
R_HP_SEER15	0.44
R_LED_EXIT	3.89
R_LED_Reflector_CET	1.31
R_LEDXMAS_CET	2.45
R_NiteEcon_CET	0.07
R_OCC_Sensor	0.86
R_RAC_ES	0.29
R_REF_ES	0.56

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PG&E, Residential	
Measure:	TRC
R_REF_Recyl	8.35
R_T8_4ft	0.26
R_WallIns_R0R13E	0.56
R_WallIns_R0R13G	0.73
R_WH_FA	0.85
R_WH_FA_G	1.04
R_WH_PW	1.76
R_WH_PW_G	1.37
R_WH_Shww	0.77
R_WH_Shww_G	0.94
R_WHEle_EF0.93	1.20
R_WHEle_Solar_CET	0.25
R_WHGas_EF0.63	0.45
R_WHGAS_POU	0.37
R_WHGAS_Solar_CET	0.11
R_WholeHFWan	0.12
R_Window_U25	1.06

CPUC Goals Update Study – Appendix D

PG&E, Commercial	
Measure:	TRC
C_HV_ChCent_HE	1.98
C_HV_ChillerAux	1.66
C_HV_ChRec_HE	5.82
C_HV_PACgt65_11	1.14
C_HV_PACgt65_12	1.25
C_HV_PAClt65_15	1.85
C_HV_PkgAC_Tuneup	1.27
C_HV_PTAC_HE	1.29
C_HV_PTHP_HE	1.17
C_HV_Boiler_85	1.08
C_HV_Boiler_95_CET	0.86
C_HV_CoolRoof	0.17
C_HV_Furn_AFUE92	0.24
C_HV_Furn_AFUE94	0.34
C_HV_WindowFilm	1.92
C_HV_Motor_0-10	7.22
C_HV_Motor_11-25	5.25
C_HV_Motor_26-49	3.14
C_HV_Motor_50+	6.12
C_HV_Retro_Chiller	0.65
C_HV_Retro_Vent	1.24
C_HV_VSD_Motor_10-25	1.75
C_HV_VSD_Motor_26-49	1.85
C_HV_VSD_Motor_50-100	1.78
C_Fryer_Elec_ES	0.28
C_Fryer_Gas_ES	1.79
C_Griddle_Elec_HE	0.56
C_Griddle_Gas_HE	0.24
C_HoldCabinet_Elec_HE	0.86
C_Oven_Convec_Elec_HE	1.03
C_Oven_Convec_Gas_HE	1.38
C_Oven_Elec_HE	1.34
C_Oven_Gas_HE	0.25
C_Ref_GD_Refrig_T2	0.41
C_Ref_IceMaker_T2	5.08
C_Ref_SD_Freezer_T2	1.12
C_Ref_SD_Refrig_T2	0.25
C_Steamer_Elec_ES	3.32
C_Steamer_Gas_ES	4.52
C_CFL_16_24W	7.64
C_CFL_Fixture_16_24W	3.78
C_CFL_Fixture_Over24W	3.99
C_CFL_Fixture_Under15W	2.20
C_CFL_Over24W	12.00
C_CFL_Under15W	8.73
C_LEDSignage	0.73
C_Lt_DLInst	0.25

CPUC Goals Update Study – Appendix D

PG&E, Commercial	
Measure:	TRC
C_LT_EXLED	2.96
C_LT_PCPC	2.38
C_LT_PCPT	2.60
C_LT_PCTC	2.67
C_OCCSensor_Motion	1.63
C_OCCSensor_Plugload	0.74
C_PSMH_Over150W_Ext	0.75
C_PSMH_Over150W_Int	1.06
C_PSMH_Under151W_Ext_INC	1.45
C_PSMH_Under151W_Ext_MV	0.79
C_PSMH_Under151W_Int_INC	2.47
C_PSMH_Under151W_Int_MV	1.16
C_Reflector_CFL	10.03
C_T12_Delamping_4Ft	3.29
C_T12_Delamping_8Ft	1.98
C_T8_2G_4Ft	3.48
C_T8_2G_8Ft	1.42
C_T8_Fixture_4Ft	2.85
C_T8_Fixture_8Ft	1.12
C_T8_HighBay	1.71
C_ClothesWasher_HE	1.41
C_Computer_80Plus	4.52
C_Copier_ES	0.84
C_NRefVendCtrl	1.64
C_PoolHeater_HE	6.06
C_RefVendCtrl	3.55
C_WH_Boiler_85	10.07
C_WH_Boiler_95_CET	10.09
C_WH_CircTimer	0.65
C_WH_Instant	0.56
C_WH_Storage_HE	0.72
C_WH_Storage_Solar	0.03
C_Ref_ASHCtrl	2.73
C_Ref_EvapFan_Ctrl	1.28
C_Ref_EvapFan_ECM	3.64
C_Ref_EvapFan_PSC	1.88
C_Ref_Gaskets	2.59
C_Ref_GDAutoClose	0.27
C_Ref_MplxEE_AirCond	3.22
C_Ref_MplxEE_EvapCond	3.65
C_Ref_NCover_Frz	1.85
C_Ref_NCover_Ref	4.52
C_Ref_NoASHGD_HE	1.94
C_Ref_OpenMDToGD_HE	0.22
C_Ref_SDAutoClose	0.83
C_Ref_Sngl2Mplx_AirC_HE	0.19
C_Ref_Sngl2Mplx_EvapC_HE	0.36
C_Ref_StripCurt	3.06

CPUC Goals Update Study – Appendix D

PG&E, Commercial	
Measure:	TRC
C_Ref_SucLnIns	5.53

CPUC Goals Update Study – Appendix D

PG&E, Industrial	
Measure:	TRC
Air_conveying_systems	8.84
Bakery_Process	6.63
Bakery_Process_(Mixing)_OM	12.43
Base_Centrifugal_Chiller_0.58_kW_ton_500_tons	NA
Base_DX_Packaged_System_EER=10.3_10_tons	NA
Centrifugal_Chiller_0.51_kW_ton_500_tons	4.38
CFL_Hardwired_Modular_36W	1.55
Chiller_Tune_Up_Diagnostics	0.88
Clean_Room_Controls	2.83
Clean_Room_New_Designs	1.40
Comp_Air_ASD_(100+_hp)	4.50
Comp_Air_ASD_(1-5_hp)	0.72
Comp_Air_ASD_(6-100_hp)	15.35
Comp_Air_Base_100+_HPmotor	NA
Comp_Air_Base_1-5_HPmotor	NA
Comp_Air_Base_6-100_HPmotor	NA
Comp_Air_Motor_practices-1_(100+_HP)	2.86
Comp_Air_Motor_practices-1_(1-5_HP)	1.95
Comp_Air_Motor_practices-1_(6-100_HP)	2.82
Comp_Air_Replace_100+_HP_motor	1.39
Comp_Air_Replace_1-5_HP_motor	0.92
Comp_Air_Replace_6-100_HP_motor	0.74
Compressed_Air_Controls	4.34
Compressed_Air_System_Optimization	7.78
Compressed_Air-OM	10.35
Compressed_AirSizing	12.45
Cool_Roof_Chiller	0.42
Cool_Roof_DX	0.72
Cooling_Circ._Pumps_VSD_	0.61
Direct_drive_Extruders	1.16
Drives_EE_motor	3.32
Drives_Optimization_process_(MT)	7.83
Drives_Process_Control	2.95
Drives_Process_Controls_(batch+_site)	1.76
Drives_Scheduling	3.37
Drying_(UV_IR)	1.79
DX_Packaged_System_EER=10.9_10_tons	1.20
DX_Tune_Up_Advanced_Diagnostics	0.44
Efficient_Curing_ovens	2.26
Efficient_desalter	3.08
Efficient_drives	3.89
Efficient_drives_rolling	3.82
Efficient_electric_melting	3.12
Efficient_grinding	0.80
Efficient_Machinery	3.45
Efficient_practices_printing_press	10.47
Efficient_Printing_press_(fewer_cylinders)	2.07

CPUC Goals Update Study – Appendix D

PG&E, Industrial	
Measure:	TRC
Efficient_processes_(welding_etc.)	4.51
Efficient_Refrigeration_Operations	10.36
EMS_Chiller_	0.76
Energy_Star_Transformers_Chiller	3.81
Energy_Star_Transformers_Comp_Air	3.51
Energy_Star_Transformers_Drives	3.50
Energy_Star_Transformers_DX	3.82
Energy_Star_Transformers_Fan	3.50
Energy_Star_Transformers_Heating	3.50
Energy_Star_Transformers_Lighting	4.09
Energy_Star_Transformers_Other	3.51
Energy_Star_Transformers_Process	3.51
Energy_Star_Transformers_Pumps	3.51
Energy_Star_Transformers_Refrigeration	3.51
Evaporative_Pre-Cooler	0.27
Extruders_injection_Moulding-multipump	2.17
Fan_Base_100+_HPmotor	NA
Fan_Base_1-5_HPmotor	NA
Fan_Base_6-100_HPmotor	NA
Fans_ASD_(100+_hp)	4.48
Fans_ASD_(1-5_hp)	0.71
Fans_ASD_(6-100_hp)	15.28
Fans_Controls	2.01
Fans_Motor_practices-1_(100+_HP)	2.85
Fans_Motor_practices-1_(1-5_HP)	1.94
Fans_Motor_practices-1_(6-100_HP)	2.81
Fans_OM	12.39
Fans_Replace_100+_HP_motor	1.39
Fans_Replace_1-5_HP_motor	0.91
Fans_Replace_6-100_HP_motor	0.73
Fans_System_Optimization	2.18
FansImprove_components	6.20
Gap_Forming_papermachine	10.47
Heat_Pumps_Drying	1.12
Heating_Optimization_process_(MT)	7.83
Heating_Process_Control	2.95
Heating_Scheduling	3.43
High_Consistency_forming	10.47
Injection_Moulding_Direct_drive	1.48
Injection_Moulding_Impulse_Cooling	2.17
Intelligent_extruder_(DOE)	0.77
Light_cylinders	0.89
Machinery	3.45
Membranes_for_wastewater	2.56
Metal_Halide_50W	0.33
Near_Net_Shape_Casting	8.84
New_transformers_welding	4.51
Occupancy_Sensor_4L4_Fluorescent_Fixtures	2.61

CPUC Goals Update Study – Appendix D

PG&E, Industrial	
Measure:	TRC
OM_drives_spinning_machines	3.11
OM_Extruders_Injection_Moulding	14.29
Optimization_control_PM	2.49
Optimization_Refrigeration	2.14
Optimize_drying_process	2.48
Other_Process_Controls_(batch+_site)	2.05
Power_recovery_Comp_Air	2.05
Power_recovery_Fans	2.05
Power_recovery_Process	2.05
Power_recovery_Pumps	2.06
Process_control_Drives	6.12
Process_control_Process	2.24
Process_Drives_ASD	1.98
Process_optimization	2.04
Prog._Thermostat_DX	3.81
Pump_Base_100+_HPmotor	NA
Pump_Base_1-5_HPmotor	NA
Pump_Base_6-100_HPmotor	NA
Pumps_ASD_(100+_hp)	4.49
Pumps_ASD_(1-5_hp)	0.72
Pumps_ASD_(6-100_hp)	15.32
Pumps_Controls	6.90
Pumps_Motor_practices-1_(100+_HP)	2.85
Pumps_Motor_practices-1_(1-5_HP)	1.95
Pumps_Motor_practices-1_(6-100_HP)	2.81
Pumps_OM	12.43
Pumps_Replace_100+_HP_motor	1.39
Pumps_Replace_1-5_HP_motor	0.92
Pumps_Replace_6-100_HP_motor	0.73
Pumps_Sizing	6.21
Pumps_System_Optimization	3.10
Refinery_Controls_Comp_Air	4.05
Refinery_Controls_Fans	4.05
Refinery_Controls_Process	4.05
Refinery_Controls_Pumps	4.07
Replace_V-Belts_Drives	6.22
Replace_V-belts_Other	2.40
RET_2L4_Premium_T8_1EB	2.38
Top-heating_(glass)	5.07
Window_Film_Chiller	1.21
Window_Film_DX	2.08

CPUC Goals Update Study – Appendix D

SCE, Residential	
Measure:	TRC
R_1SpeedPP	NA
R_2SpeedPP	NA
R_AC_Tuneup	0.96
R_CAC_SEER15	0.37
R_Ceillns_R19R30E	0.98
R_CFL_14_to_25W	3.12
R_CFL_Fixture	0.66
R_CFL_Over25W	3.05
R_CFL_Reflector	5.07
R_CFL_Table	0.51
R_CFL_Torchiere	1.50
R_CFL_Under14W	2.07
R_CoolRoof_CET	0.42
R_CW_MEF1.26	NA
R_CW_MEF1.60	0.47
R_CW_MEF1.80	0.38
R_CW_MEF2.0	0.33
R_CW_MEF2.2	0.13
R_DUCTR_E	1.09
R_DW_EF0.58	0.41
R_DW_EF0.62	0.39
R_DW_EF0.68	0.21
R_ExtLite_Control	0.25
R_FRZ_Recyl	6.89
R_HP_SEER15	0.46
R_LED_EXIT	4.04
R_LED_Reflector_CET	1.36
R_LEDXMAS_CET	2.48
R_NiteEcon_CET	0.08
R_OCC_Sensor	0.57
R_RAC_ES	0.34
R_REF_ES	0.59
R_REF_Recyl	7.75
R_T8_4ft	0.27
R_WallIns_R0R13E	0.58
R_WH_FA	1.05
R_WH_PW	2.38
R_WH_Shww	0.97
R_WHEle_EF0.93	1.05
R_WHEle_Solar_CET	0.32
R_WholeHFan	0.16
R_Window_U25	1.29

CPUC Goals Update Study – Appendix D

SCE, Commercial	
Measure:	TRC
C_Fryer_Elec_ES	0.30
C_Griddle_Elec_HE	0.60
C_HoldCabinet_Elec_HE	0.92
C_Oven_Convec_Elec_HE	1.10
C_Oven_Elec_HE	1.46
C_Ref_GD_Refrig_T2	0.43
C_Ref_IceMaker_T2	5.38
C_Ref_SD_Freezer_T2	1.18
C_Ref_SD_Refrig_T2	0.26
C_Steamer_Elec_ES	3.51
C_HV_PACgt65_11	1.94
C_HV_PACgt65_12	2.11
C_HV_PAClt65_15	2.64
C_HV_ChCent_HE	2.78
C_HV_ChillerAux	1.71
C_HV_ChRec_HE	7.58
C_HV_Motor_0-10	8.31
C_HV_Motor_11-25	5.58
C_HV_Motor_26-49	3.39
C_HV_Motor_50+	6.40
C_HV_Retro_Chiller	0.88
C_HV_Retro_Vent	1.32
C_HV_VSD_Motor_10-25	2.04
C_HV_VSD_Motor_26-49	2.20
C_HV_VSD_Motor_50-100	2.05
C_HV_CoolRoof	0.23
C_HV_WindowFilm	2.47
C_HV_PkgAC_Tuneup	1.65
C_HV_PTAC_HE	1.45
C_HV_PTHP_HE	1.35
C_CFL_16_24W	8.93
C_CFL_Fixture_16_24W	4.15
C_CFL_Fixture_Over24W	4.79
C_CFL_Fixture_Under15W	2.56
C_CFL_Over24W	12.83
C_CFL_Under15W	8.50
C_LEDSignage	0.82
C_Lt_DLInst	0.34
C_LT_EXLED	3.23
C_LT_PCPC	2.81
C_LT_PCPT	3.07
C_LT_PCTC	3.16
C_OCCSensor_Motion	1.78
C_OCCSensor_Plugload	0.87
C_PSMH_Over150W_Ext	0.62
C_PSMH_Over150W_Int	0.90
C_PSMH_Under151W_Ext_INC	1.76

CPUC Goals Update Study – Appendix D

SCE, Commercial	
Measure:	TRC
C_PSMH_Under151W_Ext_MV	0.86
C_PSMH_Under151W_Int_INC	2.76
C_PSMH_Under151W_Int_MV	1.30
C_Reflector_CFL	10.92
C_T12_Delamping_4Ft	3.23
C_T12_Delamping_8Ft	1.82
C_T8_2G_4Ft	3.70
C_T8_2G_8Ft	1.49
C_T8_Fixture_4Ft	3.03
C_T8_Fixture_8Ft	1.18
C_T8_HighBay	1.92
C_Computer_80Plus	4.95
C_Copier_ES	0.92
C_NRefVendCtrl	1.60
C_RefVendCtrl	3.76
C_Ref_ASHCtrl	2.81
C_Ref_EvapFan_Ctrl	1.21
C_Ref_EvapFan_ECM	3.87
C_Ref_EvapFan_PSC	2.00
C_Ref_Gaskets	2.72
C_Ref_GDAutoClose	0.28
C_Ref_MplxEE_AirCond	2.76
C_Ref_MplxEE_EvapCond	3.21
C_Ref_NCover_Frz	1.91
C_Ref_NCover_Ref	4.73
C_Ref_NoASHGD_HE	2.06
C_Ref_OpenMDToGD_HE	0.18
C_Ref_SDAutoClose	0.82
C_Ref_Sngl2Mplx_AirC_HE	NA
C_Ref_Sngl2Mplx_EvapC_HE	0.45
C_Ref_StripCurt	2.98
C_Ref_SucLnIns	5.75

CPUC Goals Update Study – Appendix D

SCE, Industrial	
Measure:	TRC
Air_conveying_systems	9.29
Bakery_Process	6.97
Bakery_Process_(Mixing)_OM	13.08
Base_Centrifugal_Chiller_0.58_kW_ton_500_tons	NA
Base_DX_Packaged_System_EER=10.3_10_tons	NA
Centrifugal_Chiller_0.51_kW_ton_500_tons	4.58
CFL_Hardwired_Modular_36W	1.61
Chiller_Tune_Up_Diagnostics	0.92
Clean_Room_Controls	2.98
Clean_Room_New_Designs	1.47
Comp_Air_ASD_(100+_hp)	4.74
Comp_Air_ASD_(1-5_hp)	0.76
Comp_Air_ASD_(6-100_hp)	16.15
Comp_Air_Base_100+_HPmotor	NA
Comp_Air_Base_1-5_HPmotor	NA
Comp_Air_Base_6-100_HPmotor	NA
Comp_Air_Motor_practices-1_(100+_HP)	3.01
Comp_Air_Motor_practices-1_(1-5_HP)	2.05
Comp_Air_Motor_practices-1_(6-100_HP)	2.97
Comp_Air_Replace_100+_HP_motor	1.47
Comp_Air_Replace_1-5_HP_motor	0.96
Comp_Air_Replace_6-100_HP_motor	0.77
Compressed_Air_Controls	4.57
Compressed_Air_System_Optimization	8.19
Compressed_Air-OM	10.89
Compressed_AirSizing	13.10
Cool_Roof_Chiller	0.44
Cool_Roof_DX	0.75
Cooling_Circ._Pumps_VSD_	0.64
Direct_drive_Extruders	1.22
Drives_EE_motor	3.41
Drives_Optimization_process_(MT)	8.26
Drives_Process_Control	3.09
Drives_Process_Controls_(batch+_site)	1.76
Drives_Scheduling	3.53
Drying_(UV_IR)	1.89
DX_Packaged_System_EER=10.9_10_tons	1.26
DX_Tune_Up_Advanced_Diagnostics	0.46
Efficient_Curing_ovens	2.38
Efficient_desalter	3.23
Efficient_drives	4.09
Efficient_drives_rolling	4.00
Efficient_electric_melting	3.28
Efficient_grinding	0.84
Efficient_Machinery	3.63
Efficient_practices_printing_press	11.01
Efficient_Printing_press_(fewer_cylinders)	2.18

CPUC Goals Update Study – Appendix D

SCE, Industrial	
Measure:	TRC
Efficient_processes_(welding_etc.)	4.76
Efficient_Refrigeration_Operations	10.90
EMS_Chiller_	0.79
Energy_Star_Transformers_Chiller	3.99
Energy_Star_Transformers_Comp_Air	3.70
Energy_Star_Transformers_Drives	3.68
Energy_Star_Transformers_DX	3.99
Energy_Star_Transformers_Fan	3.67
Energy_Star_Transformers_Heating	3.68
Energy_Star_Transformers_Lighting	4.28
Energy_Star_Transformers_Other	3.69
Energy_Star_Transformers_Process	3.70
Energy_Star_Transformers_Pumps	3.67
Energy_Star_Transformers_Refrigeration	3.69
Evaporative_Pre-Cooler	0.28
Extruders_injection_Moulding-multipump	2.27
Fan_Base_100+_HPmotor	NA
Fan_Base_1-5_HPmotor	NA
Fan_Base_6-100_HPmotor	NA
Fans_ASD_(100+_hp)	4.70
Fans_ASD_(1-5_hp)	0.75
Fans_ASD_(6-100_hp)	16.03
Fans_Controls	2.11
Fans_Motor_practices-1_(100+_HP)	2.99
Fans_Motor_practices-1_(1-5_HP)	2.04
Fans_Motor_practices-1_(6-100_HP)	2.94
Fans_OM	13.01
Fans_Replace_100+_HP_motor	1.46
Fans_Replace_1-5_HP_motor	0.96
Fans_Replace_6-100_HP_motor	0.77
Fans_System_Optimization	2.29
FansImprove_components	6.50
Gap_Forming_papermachine	11.01
Heat_Pumps_Drying	1.18
Heating_Optimization_process_(MT)	8.26
Heating_Process_Control	3.09
Heating_Scheduling	3.61
High_Consistency_forming	11.01
Injection_Moulding_Direct_drive	1.55
Injection_Moulding_Impulse_Cooling	2.27
Intelligent_extruder_(DOE)	0.80
Light_cylinders	0.93
Machinery	3.94
Membranes_for_wastewater	2.70
Metal_Halide_50W	0.34
Near_Net_Shape_Casting	9.27
New_transformers_welding	4.76
Occupancy_Sensor_4L4_Fluorescent_Fixtures	2.72

CPUC Goals Update Study – Appendix D

SCE, Industrial	
Measure:	TRC
OM_drives_spinning_machines	3.27
OM_Extruders_Injection_Moulding	14.98
Optimization_control_PM	2.62
Optimization_Refrigeration	2.25
Optimize_drying_process	2.61
Other_Process_Controls_(batch+_site)	2.15
Power_recovery_Comp_Air	2.15
Power_recovery_Fans	2.15
Power_recovery_Process	2.15
Power_recovery_Pumps	2.15
Process_control_Drives	6.42
Process_control_Process	2.36
Process_Drives_ASD	2.08
Process_optimization	2.14
Prog._Thermostat_DX	3.98
Pump_Base_100+_HPmotor	NA
Pump_Base_1-5_HPmotor	NA
Pump_Base_6-100_HPmotor	NA
Pumps_ASD_(100+_hp)	4.70
Pumps_ASD_(1-5_hp)	0.75
Pumps_ASD_(6-100_hp)	16.01
Pumps_Controls	7.22
Pumps_Motor_practices-1_(100+_HP)	2.98
Pumps_Motor_practices-1_(1-5_HP)	2.04
Pumps_Motor_practices-1_(6-100_HP)	2.94
Pumps_OM	12.99
Pumps_Replace_100+_HP_motor	1.45
Pumps_Replace_1-5_HP_motor	0.96
Pumps_Replace_6-100_HP_motor	0.77
Pumps_Sizing	6.49
Pumps_System_Optimization	3.24
Refinery_Controls_Comp_Air	4.25
Refinery_Controls_Fans	4.25
Refinery_Controls_Process	4.25
Refinery_Controls_Pumps	4.25
Replace_V-Belts_Drives	6.54
Replace_V-belts_Other	2.52
RET_2L4_Premium_T8_1EB	2.48
Top-heating_(glass)	5.32
Window_Film_Chiller	1.27
Window_Film_DX	2.17

CPUC Goals Update Study – Appendix D

SDG&E, Residential	
Measure:	TRC
R_1SpeedPP	NA
R_2SpeedPP	NA
R_AC_Tuneup	0.84
R_Bcontroler_MF	0.45
R_BoilerMF	14.95
R_CAC_SEER15	0.28
R_Ceillns_R19R30E	0.91
R_Ceillns_R19R30G	0.51
R_CFL_14_to_25W	3.32
R_CFL_Fixture	0.70
R_CFL_Over25W	3.26
R_CFL_Reflector	5.40
R_CFL_Table	0.55
R_CFL_Torchiere	1.60
R_CFL_Under14W	2.21
R_CoolRoof_CET	0.44
R_CW_MEF1.26	NA
R_CW_MEF1.26_G	NA
R_CW_MEF1.60	0.48
R_CW_MEF1.60_G	0.17
R_CW_MEF1.80	0.39
R_CW_MEF1.80_G	0.18
R_CW_MEF2.0	0.33
R_CW_MEF2.0_G	0.20
R_CW_MEF2.2	0.14
R_CW_MEF2.2_G	0.09
R_DUCTR_E	0.80
R_DUCTR_G	1.17
R_DW_EF0.58	0.42
R_DW_EF0.58_G	0.35
R_DW_EF0.62	0.39
R_DW_EF0.62_G	0.35
R_DW_EF0.68	0.21
R_DW_EF0.68_G	0.20
R_ExtLite_Control	0.27
R_FRZ_Recyl	7.02
R_Furn_AFUE90	0.39
R_Furn_AFUE92	0.41
R_Furn_AFUE96	0.45
R_HP_SEER15	0.51
R_LED_EXIT	4.29
R_LED_Reflector_CET	1.44
R_LEDXMAS_CET	2.63
R_NiteEcon_CET	0.07
R_OCC_Sensor	0.60
R_RAC_ES	0.31
R_REF_ES	0.60

CPUC Goals Update Study – Appendix D

SDG&E, Residential	
Measure:	TRC
R_REF_Recyl	8.86
R_T8_4ft	0.29
R_WallIns_R0R13E	0.50
R_WallIns_R0R13G	0.60
R_WH_FA	0.92
R_WH_FA_G	0.71
R_WH_PW	2.04
R_WH_PW_G	1.66
R_WH_Shww	0.90
R_WH_Shww_G	0.65
R_WHEle_EF0.93	1.14
R_WHEle_Solar_CET	0.28
R_WHGas_EF0.63	0.44
R_WHGAS_POU	0.36
R_WHGAS_Solar_CET	0.11
R_WholeHFWan	0.15
R_Window_U25	1.09

CPUC Goals Update Study – Appendix D

SDG&E, Commercial	
Measure:	TRC
C_HV_ChCent_HE	2.84
C_HV_ChillerAux	2.25
C_HV_ChRec_HE	7.84
C_HV_PACgt65_11	1.78
C_HV_PACgt65_12	2.02
C_HV_PAClt65_15	2.79
C_HV_PkgAC_Tuneup	1.67
C_HV_PTAC_HE	1.51
C_HV_PTHP_HE	1.57
C_HV_Boiler_85	0.87
C_HV_Boiler_95_CET	0.34
C_HV_CoolRoof	0.20
C_HV_Furn_AFUE92	0.06
C_HV_Furn_AFUE94	0.07
C_HV_WindowFilm	2.47
C_HV_Motor_0-10	8.80
C_HV_Motor_11-25	6.00
C_HV_Motor_26-49	3.47
C_HV_Motor_50+	6.57
C_HV_Retro_Chiller	0.88
C_HV_Retro_Vent	1.22
C_HV_VSD_Motor_10-25	2.11
C_HV_VSD_Motor_26-49	1.97
C_HV_VSD_Motor_50-100	2.20
C_Fryer_Elec_ES	0.31
C_Fryer_Gas_ES	1.70
C_Griddle_Elec_HE	0.62
C_Griddle_Gas_HE	0.22
C_HoldCabinet_Elec_HE	0.97
C_Oven_Convec_Elec_HE	1.17
C_Oven_Convec_Gas_HE	1.30
C_Oven_Elec_HE	1.57
C_Oven_Gas_HE	0.24
C_Ref_GD_Refrig_T2	0.48
C_Ref_IceMaker_T2	6.11
C_Ref_SD_Freezer_T2	1.41
C_Ref_SD_Refrig_T2	0.30
C_Steamer_Elec_ES	3.75
C_Steamer_Gas_ES	4.31
C_CFL_16_24W	9.14
C_CFL_Fixture_16_24W	3.70
C_CFL_Fixture_Over24W	5.10
C_CFL_Fixture_Under15W	2.58
C_CFL_Over24W	13.37
C_CFL_Under15W	8.53
C_LEDSignage	0.85
C_Lt_DLInst	0.31

CPUC Goals Update Study – Appendix D

SDG&E, Commercial	
Measure:	TRC
C_LT_EXLED	3.58
C_LT_PCPC	2.85
C_LT_PCPT	3.11
C_LT_PCTC	3.19
C_OCCSensor_Motion	1.93
C_OCCSensor_Plugload	0.75
C_PSMH_Over150W_Ext	0.66
C_PSMH_Over150W_Int	0.97
C_PSMH_Under151W_Ext_INC	1.78
C_PSMH_Under151W_Ext_MV	0.81
C_PSMH_Under151W_Int_INC	2.99
C_PSMH_Under151W_Int_MV	1.54
C_Reflector_CFL	11.47
C_T12_Delamping_4Ft	3.74
C_T12_Delamping_8Ft	2.09
C_T8_2G_4Ft	3.97
C_T8_2G_8Ft	1.78
C_T8_Fixture_4Ft	3.24
C_T8_Fixture_8Ft	1.39
C_T8_HighBay	2.47
C_ClothesWasher_HE	1.35
C_Computer_80Plus	5.19
C_Copier_ES	0.99
C_NRefVendCtrl	NA
C_PoolHeater_HE	6.03
C_RefVendCtrl	3.70
C_WH_Boiler_85	9.65
C_WH_Boiler_95_CET	9.67
C_WH_CircTimer	1.46
C_WH_Instant	0.53
C_WH_Storage_HE	1.13
C_WH_Storage_Solar	0.03
C_Ref_ASHCtrl	2.84
C_Ref_EvapFan_Ctrl	1.38
C_Ref_EvapFan_ECM	4.14
C_Ref_EvapFan_PSC	2.14
C_Ref_Gaskets	2.73
C_Ref_GDAutoClose	0.29
C_Ref_MplxEE_AirCond	2.95
C_Ref_MplxEE_EvapCond	3.39
C_Ref_NCover_Frz	1.94
C_Ref_NCover_Ref	4.81
C_Ref_NoASHGD_HE	2.21
C_Ref_OpenMDToGD_HE	0.18
C_Ref_SDAutoClose	0.95
C_Ref_Sngl2Mplx_AirC_HE	0.13
C_Ref_Sngl2Mplx_EvapC_HE	0.41
C_Ref_StripCurt	3.43

CPUC Goals Update Study – Appendix D

SDG&E, Commercial	
Measure:	TRC
C_Ref_SucLnIns	5.38

CPUC Goals Update Study – Appendix D

SDG&E, Industrial	
Measure:	TRC
Air_conveying_systems	9.65
Bakery_Process	7.24
Bakery_Process_(Mixing)_OM	13.61
Base_Centrifugal_Chiller_0.58_kW_ton_500_tons	NA
Base_DX_Packaged_System_EER=10.3_10_tons	NA
Centrifugal_Chiller_0.51_kW_ton_500_tons	4.73
CFL_Hardwired_Modular_36W	1.68
Chiller_Tune_Up_Diagnostics	0.95
Clean_Room_Controls	3.10
Clean_Room_New_Designs	1.52
Comp_Air_ASD_(100+_hp)	4.98
Comp_Air_ASD_(1-5_hp)	0.79
Comp_Air_ASD_(6-100_hp)	16.95
Comp_Air_Base_100+_HPmotor	NA
Comp_Air_Base_1-5_HPmotor	NA
Comp_Air_Base_6-100_HPmotor	NA
Comp_Air_Motor_practices-1_(100+_HP)	3.16
Comp_Air_Motor_practices-1_(1-5_HP)	2.15
Comp_Air_Motor_practices-1_(6-100_HP)	3.11
Comp_Air_Replace_100+_HP_motor	1.54
Comp_Air_Replace_1-5_HP_motor	1.01
Comp_Air_Replace_6-100_HP_motor	0.81
Compressed_Air_Controls	4.80
Compressed_Air_System_Optimization	8.59
Compressed_Air-OM	11.44
Compressed_AirSizing	13.75
Cool_Roof_Chiller	0.45
Cool_Roof_DX	0.78
Cooling_Circ._Pumps_VSD_	0.66
Direct_drive_Extruders	1.26
Drives_EE_motor	3.66
Drives_Optimization_process_(MT)	8.63
Drives_Process_Control	3.19
Drives_Process_Controls_(batch+_site)	2.15
Drives_Scheduling	3.64
Drying_(UV_IR)	1.97
DX_Packaged_System_EER=10.9_10_tons	1.30
DX_Tune_Up_Advanced_Diagnostics	0.48
Efficient_Curing_ovens	2.48
Efficient_desalter	3.34
Efficient_drives	4.25
Efficient_drives_rolling	4.15
Efficient_electric_melting	3.38
Efficient_grinding	0.87
Efficient_Machinery	3.78
Efficient_practices_printing_press	11.41
Efficient_Printing_press_(fewer_cylinders)	2.26

CPUC Goals Update Study – Appendix D

SDG&E, Industrial	
Measure:	TRC
Efficient_processes_(welding_etc.)	4.96
Efficient_Refrigeration_Operations	11.34
EMS_Chiller_	0.82
Energy_Star_Transformers_Chiller	4.10
Energy_Star_Transformers_Comp_Air	3.85
Energy_Star_Transformers_Drives	3.82
Energy_Star_Transformers_DX	4.10
Energy_Star_Transformers_Fan	3.82
Energy_Star_Transformers_Heating	3.86
Energy_Star_Transformers_Lighting	4.43
Energy_Star_Transformers_Other	3.85
Energy_Star_Transformers_Process	3.82
Energy_Star_Transformers_Pumps	3.80
Energy_Star_Transformers_Refrigeration	3.82
Evaporative_Pre-Cooler	0.29
Extruders_injection_Moulding-multipump	2.35
Fan_Base_100+_HPmotor	NA
Fan_Base_1-5_HPmotor	NA
Fan_Base_6-100_HPmotor	NA
Fans_ASD_(100+_hp)	4.94
Fans_ASD_(1-5_hp)	0.78
Fans_ASD_(6-100_hp)	16.81
Fans_Controls	2.21
Fans_Motor_practices-1_(100+_HP)	3.14
Fans_Motor_practices-1_(1-5_HP)	2.13
Fans_Motor_practices-1_(6-100_HP)	3.09
Fans_OM	13.64
Fans_Replace_100+_HP_motor	1.53
Fans_Replace_1-5_HP_motor	1.00
Fans_Replace_6-100_HP_motor	0.81
Fans_System_Optimization	2.40
FansImprove_components	6.82
Gap_Forming_papermachine	11.41
Heat_Pumps_Drying	1.22
Heating_Optimization_process_(MT)	8.63
Heating_Process_Control	3.19
Heating_Scheduling	3.77
High_Consistency_forming	11.41
Injection_Moulding_Direct_drive	1.60
Injection_Moulding_Impulse_Cooling	2.35
Intelligent_extruder_(DOE)	0.83
Light_cylinders	0.97
Machinery	4.04
Membranes_for_wastewater	2.80
Metal_Halide_50W	0.36
Near_Net_Shape_Casting	9.58
New_transformers_welding	4.96
Occupancy_Sensor_4L4_Fluorescent_Fixtures	2.84

CPUC Goals Update Study – Appendix D

SDG&E, Industrial	
Measure:	TRC
OM_drives_spinning_machines	3.40
OM_Extruders_Injection_Moulding	15.50
Optimization_control_PM	2.72
Optimization_Refrigeration	2.33
Optimize_drying_process	2.72
Other_Process_Controls_(batch+_site)	2.23
Power_recovery_Comp_Air	2.23
Power_recovery_Fans	2.23
Power_recovery_Process	2.23
Power_recovery_Pumps	2.23
Process_control_Drives	6.65
Process_control_Process	2.45
Process_Drives_ASD	2.16
Process_optimization	2.22
Prog._Thermostat_DX	4.13
Pump_Base_100+_HPmotor	NA
Pump_Base_1-5_HPmotor	NA
Pump_Base_6-100_HPmotor	NA
Pumps_ASD_(100+_hp)	4.91
Pumps_ASD_(1-5_hp)	0.78
Pumps_ASD_(6-100_hp)	16.71
Pumps_Controls	7.53
Pumps_Motor_practices-1_(100+_HP)	3.12
Pumps_Motor_practices-1_(1-5_HP)	2.12
Pumps_Motor_practices-1_(6-100_HP)	3.07
Pumps_OM	13.56
Pumps_Replace_100+_HP_motor	1.52
Pumps_Replace_1-5_HP_motor	1.00
Pumps_Replace_6-100_HP_motor	0.80
Pumps_Sizing	6.78
Pumps_System_Optimization	3.38
Refinery_Controls_Comp_Air	4.40
Refinery_Controls_Fans	4.40
Refinery_Controls_Process	4.40
Refinery_Controls_Pumps	4.40
Replace_V-Belts_Drives	6.81
Replace_V-belts_Other	2.66
RET_2L4_Premium_T8_1EB	2.59
Top-heating_(glass)	5.52
Window_Film_Chiller	1.31
Window_Film_DX	2.25

Appendix E

Statewide and IOU Peak Demand Savings Results

Appendix E1

Statewide Peak Demand Savings Results

Introduction

In this appendix, we present the peak demand savings results of the scenario analyses described in Section 3 of the main report. The peak demand savings potential results shown in this appendix flow directly from the energy savings analysis presented in the main report through the application of peak-to-energy factors by end use and market segment derived from end-use load shape data.¹ In all of the tables and figures presented below, the results are shown aggregated across all IOU service territories. IOU-specific versions of all the tables and figures presented here can be found in the proceeding sections of this appendix.

Key Differences in Peak Demand Analysis and Results

In large part, the peak demand savings results presented below reflect the temporal and end-use dynamics that drive the energy savings results discussed in Section 4. However, there are a few key differences between the forecasted energy and peak demand savings that should be noted and understood. The primary difference between the peak demand and energy savings results is the much higher share of total peak demand savings potential contributed by space cooling measures relative to space cooling's contributions to total energy savings. This reflects the much higher peak demand savings per unit of energy savings for space cooling measures relative to measures applied to all other end-uses in the residential, commercial, and industrial sectors. The same is true for the ventilation end-use and associated measures in certain commercial building types (i.e. higher peak-to-energy ratios and higher peak demand savings per unit of energy savings), although to a much lesser degree compared to space cooling. Table E1-1 illustrates these key differences in the baseline peak-to-energy relationships across end uses and sectors. Note that this table shows weighted average peak-to-energy ratios across IOU service territories. Although small differences exist in the peak-to-energy ratios developed by end use for each IOU, the most important differences are for residential space cooling, commercial space cooling, and commercial ventilation. The IOU-specific peak-to-energy ratios for those end uses are shown in Table E1-2.

¹ See the equations on page 7 of the main report.

Table E1-1. Summary of baseline energy and peak demand relationships by end use and sector

Sector:	End Use:	Baseline Annual Energy Use (GWh)	Baseline Annual Peak Demand (MW)	Peak-to-Energy (MW/GWh)
Residential	Water Heating	2,105	343	0.16
	Clothes Dryer	2,278	204	0.09
	Other	18,644	4,758	0.26
	Cooking	2,489	218	0.09
	Refrigerator	11,239	1,436	0.13
	Freezer	2,329	298	0.13
	Pool Pump	2,686	369	0.14
	Lighting	16,167	1,955	0.12
	Space Heat	1,727	0	0.00
	Furnace Fan	1,005	0	0.00
	Space Cooling	6,938	6,369	0.92
	Total	67,608	15,950	0.24
Commercial	Space Cooling	11,505	6,662	0.58
	Space Heating	1,197	40	0.03
	Ventilation	9,466	1,930	0.20
	Water Heating	667	93	0.14
	Com Cooking	3,146	519	0.17
	Refrigeration	10,376	1,367	0.13
	Interior Lighting	4,214	104	0.02
	Office Equipment	22,663	3,669	0.16
	Exterior Lighting	5,779	828	0.14
	Miscellaneous	8,178	1,256	0.15
	Total	77,191	16,469	0.21
Industrial	Process Heating	3,527	462	0.13
	Process Cooling	3,768	491	0.13
	Pumps	5,117	667	0.13
	Fans	2,655	346	0.13
	Compressed Air	2,874	376	0.13
	Process Drives	6,574	859	0.13
	Industrial Lighting	3,212	585	0.18
	HVAC	2,722	1,626	0.60
	Industrial Other	2,397	314	0.13
	Agriculture	12,332	1,916	0.16
	Mining	4,203	480	0.11
	TCU	12,395	2,038	0.16
	Total	61,777	10,160	0.16

Table E1-2. Baseline energy and peak demand relationships for space cooling and ventilation by IOU

End Use:	IOU:	Peak-to-Energy (MW/GWh)
Residential space cooling	PG&E	1.18
	SCE	0.77
	SDG&E	0.90
Commercial space cooling	PG&E	0.72
	SCE	0.49
	SDG&E	0.48
Commercial ventilation	PG&E	0.22
	SCE	0.20
	SDG&E	0.16

ASSET scenarios

In the savings potential forecasts presented in Tables E1-3 through E1-17, the difference in end-use contributions to total peak demand compared to total consumption manifests itself as a significant increase in the relative and absolute contribution of potential savings from space cooling measures and a decrease in the relative and absolute contribution of savings from lighting measures. In the ASSET scenarios, Tables E1-3 through E1-17 show that space cooling measures account for approximately half of IOU technical, economic, and market potential in the residential and commercial sectors, whereas these measures account for approximately 10-15% of IOU technical, economic, and market potential in energy terms.

Codes & standards and BBEES scenarios

Figures E1-11 through E1-24 present the demand forecasts of each scenario. In the context of this study, the larger relative and absolute contributions from space cooling measures to total savings have the greatest impact on the scale of the estimated savings from codes and standards. From the IOU perspective, the overall impact on IOU peak demand potential from implementation of the Huffman Bill and Title 24 revisions is similar to the impacts on IOU energy savings potential, as shown in Figure E1-15. However, from a societal perspective, the estimated peak demand savings from revisions to Title 24 and implementation of the BBEES initiatives contribute significantly larger incremental savings relative those estimated in the energy savings potential analysis. This result is shown in Figure E1-20 and reflects the assumption that revisions to Title 24 and implementation of the BBEES initiatives will result in significant incremental savings in space cooling and ventilation demand in residential and commercial new construction.

Table E1-19 presents a direct comparison of the contributions to total estimated peak demand and energy savings potential, respectively, from each component of the BBEES, Huffman Bill, Title 24, federal appliance standards, code compliance, and IOU program scenarios. It is presented to illustrate the larger relative shares of total estimated peak demand savings potential contributed by the BBEES initiatives and Title 24 revisions

compared with their respective shares of total estimated energy savings potential. Combined, the BBEES initiatives and Title 24 revisions contribute well over a third of total estimated peak demand savings potential, whereas they contribute approximately 15% of total estimated energy savings potential.

Straw man cases

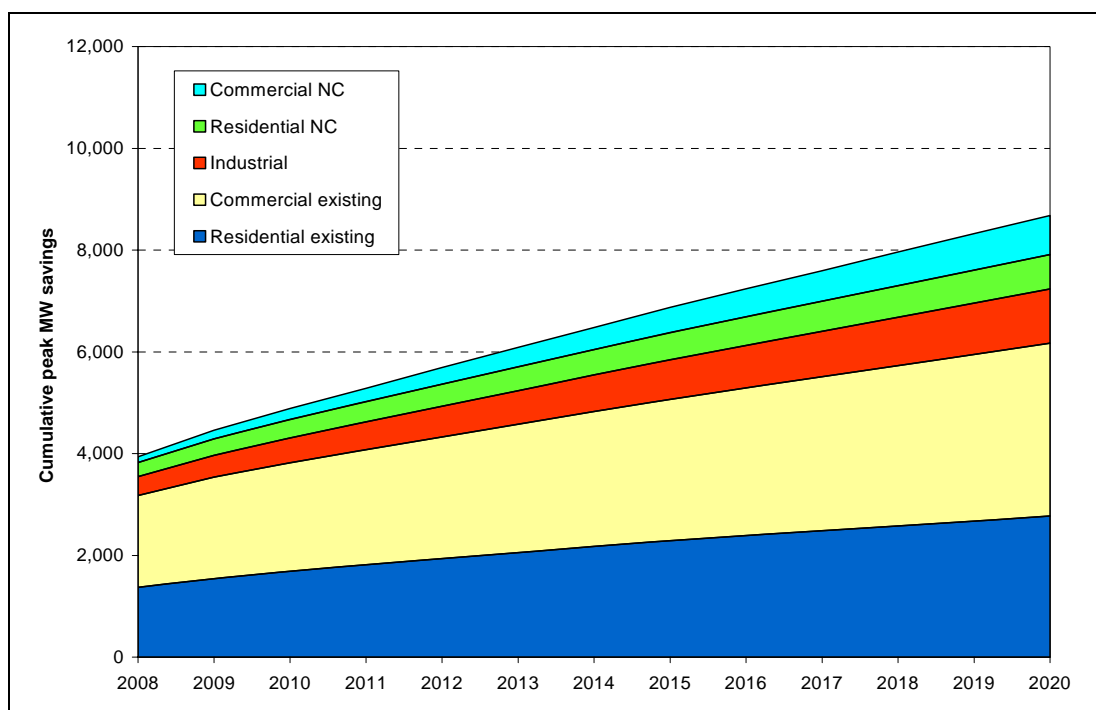
Figures E1-26 through E1-29 present the estimated peak demand savings associated with the Low, Mid, and High straw man cases described in Section 6.2 of the main report. As the figures show, the estimated peak demand savings potential associated with IOU programs is consistent with the energy savings estimated for the straw man cases in terms of how forecasted potential compares to current savings goals. When incremental peak demand savings from codes and standards and the BBEES initiatives are added to savings from IOU programs, however, total cumulative peak demand savings grow at a higher rate compared to the estimated energy savings in each straw man case due to the peak-to-energy relationships described above.

These figures also show that incremental savings from aggressive codes and standards and successful implementation of the BBEES initiatives are estimated to exceed economic potential before the end of the forecast period in the Mid and High Cases. While this result at first appears illogical, it is important to understand that the estimates of economic and technical potential from the 2008 Itron update study are only strictly valid benchmarks relative to forecasted savings shown for IOU programs and are not valid benchmarks for incremental savings from aggressive codes and standards and implementation of the BBEES initiatives. This is because the 2008 Itron update study did not include measures analogous to aggressive codes and standards and the BBEES initiatives and also because we did not estimate cost-effectiveness of new codes and standards and the BBEES initiatives in the SESAT modeling framework. In this sense, the validity of our economic potential estimate as a comparative theoretical benchmark decreases significantly as the estimated savings from codes and standards and the BBEES initiatives start to account for a larger and larger share of total market gross savings. Indeed, in the Mid and High Cases, codes and standards and the BBEES initiatives account for 46% and 53%, respectively, of total market gross peak demand savings.

Main caveats of peak demand analysis

Readers should note two key caveats related to this approach, however. First, we did not attempt to develop uncertainty ranges for each of the scenarios specific to peak demand savings potential. Second, it should be noted and understood that our results are potentially highly sensitive to the peak-to-energy ratio for the lighting end use in the residential sector. Residential lighting loads tend to rise sharply during the late afternoon and early evening, which introduces significant uncertainty when attempting to condense this dynamic into a single point estimate of the peak-to-energy relationship. Since residential lighting measures account for a major share of estimated energy savings, the total peak demand savings estimates are therefore sensitive to any uncertainties in the peak-to-energy ratio for residential lighting.

Figure E1-1. Technical potential by sector and vintage



**Table E1-3. Technical potential in the residential sector by end use and vintage
(cumulative peak MW savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	136	123	99	11	9	7
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	98	89	62	26	24	17
Freezer	0	0	0	0	0	0
Pool Pump	8	6	5	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	1,836	1,380	1,104	412	329	247
Lighting	1,292	1,174	822	347	315	221
Total	3,368	2,773	2,092	795	677	491

Table E1-4. Technical potential in the commercial sector by end use and vintage (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	1,737	1,447	1,158	505	404	303
Space Heating	0	0	0	3	2	2
Ventilation	165	138	110	137	110	82
Water Heating	0	0	0	8	6	5
Com Cooking	216	180	144	0	0	0
Refrigeration	402	402	201	0	0	0
Interior Lighting	1,220	1,109	887	299	239	179
Office Equipment	107	97	78	0	0	0
Exterior Lighting	14	13	10	8	6	5
Miscellaneous	11	11	11	0	0	0
Total	3,871	3,396	2,599	960	768	576

Table E1-5. Technical potential in the industrial sector by end use (cumulative peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	44	18	14
Process Cooling	96	76	57
Pumps	288	262	173
Fans	105	84	63
Compressed Air	194	155	117
Process Drives	68	54	41
Industrial Lighting	234	187	141
HVAC	56	45	34
Industrial Other	11	9	7
Agriculture	218	175	131
Total	1,315	1,066	776

Figure E1-2. Uncertainty estimate for total technical potential

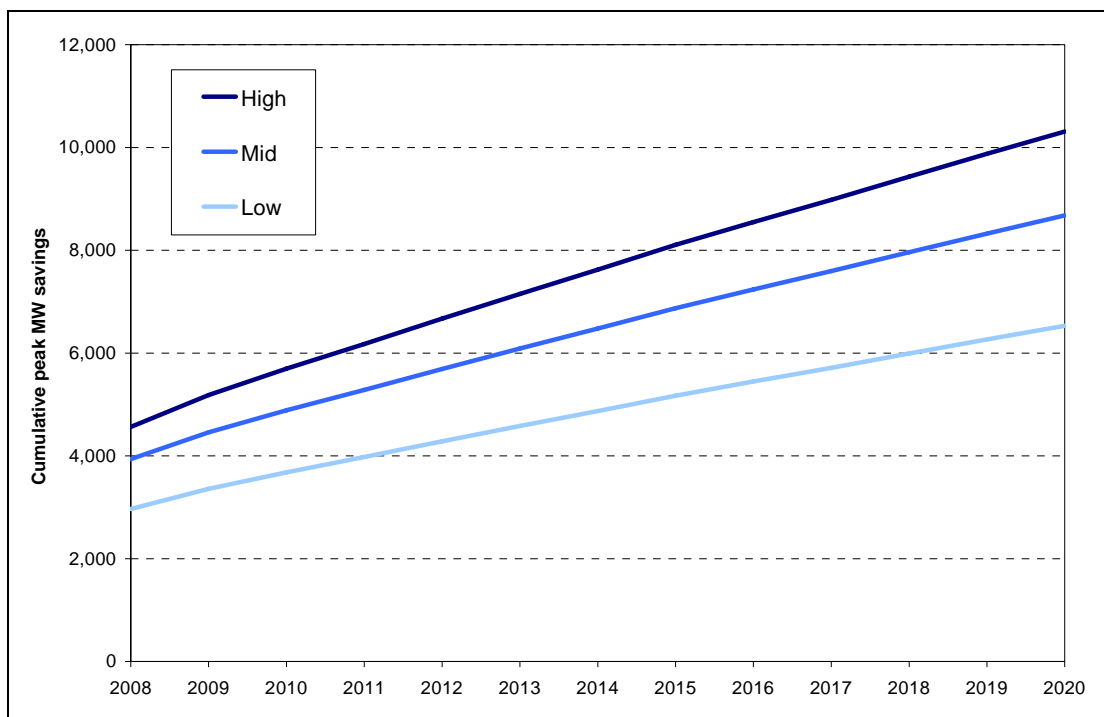
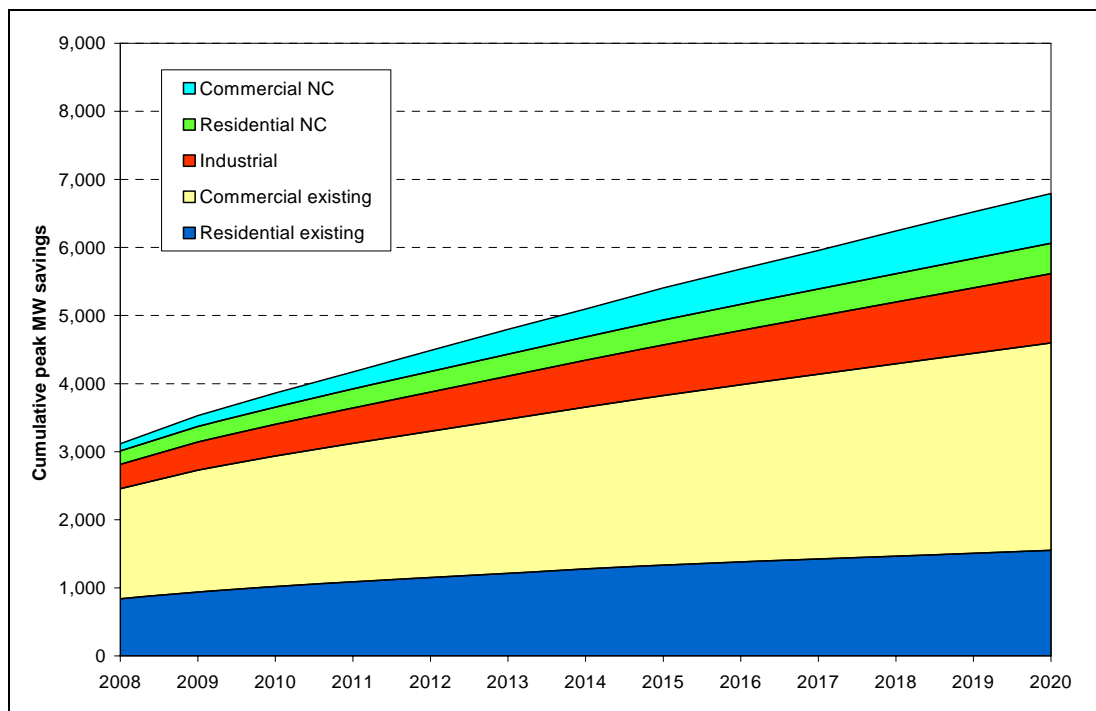


Figure E1-3. Economic potential by sector and vintage



**Table E1-6. Economic potential in the residential sector by end use and vintage
(cumulative peak MW savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	34	23	18	6	5	4
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	0	0	0	0	0	0
Freezer	0	0	0	0	0	0
Pool Pump	8	6	5	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	650	541	433	226	181	136
Lighting	1,079	981	687	289	263	184
Total	1,770	1,551	1,143	521	448	323

**Table E1-7. Economic potential in the commercial sector by end use and vintage
(cumulative peak MW savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	1,548	1,290	1,032	475	380	285
Space Heating	0	0	0	3	2	2
Ventilation	163	136	109	131	105	79
Water Heating	0	0	0	7	6	4
Com Cooking	166	138	110	0	0	0
Refrigeration	379	379	189	0	0	0
Interior Lighting	1,105	1,004	803	286	229	172
Office Equipment	92	84	67	0	0	0
Exterior Lighting	5	4	3	7	6	4
Miscellaneous	11	11	11	0	0	0
Total	3,469	3,046	2,326	910	728	546

Table E1-8. Economic potential in the industrial sector by end use (cumulative peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	44	18	14
Process Cooling	65	52	39
Pumps	283	257	170
Fans	100	80	60
Compressed Air	189	151	113
Process Drives	61	49	37
Industrial Lighting	229	183	137
HVAC	56	45	34
Industrial Other	11	9	7
Agriculture	218	175	131
Total	1,256	1,018	741

Figure E1-4. Uncertainty estimate for total economic potential

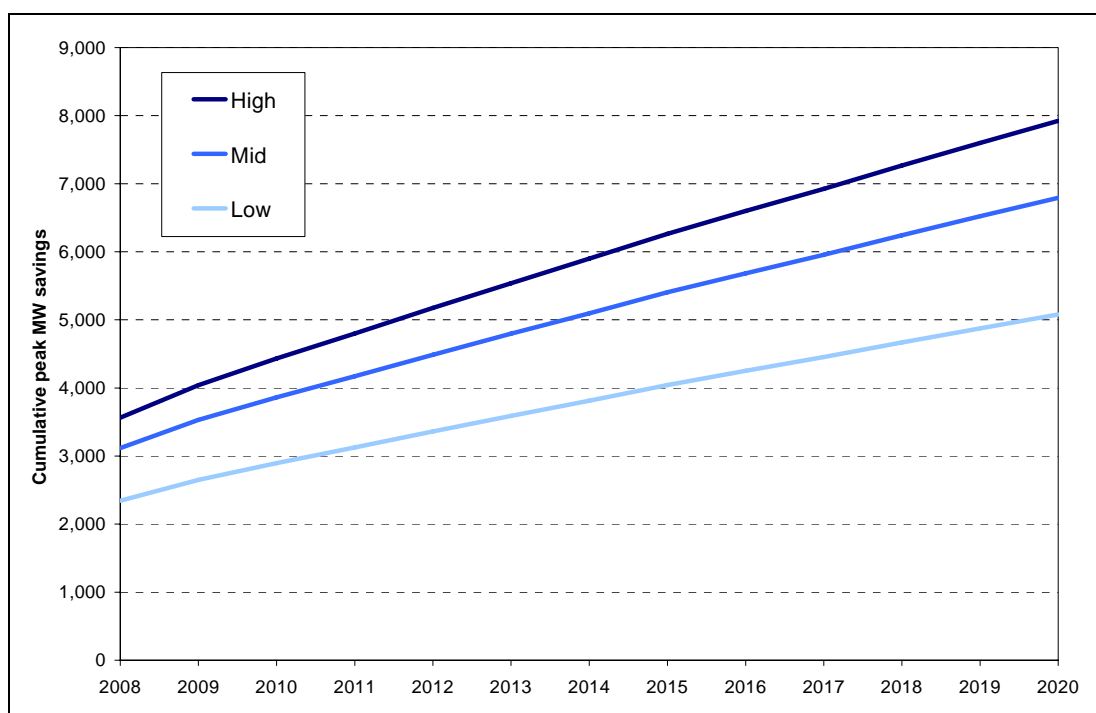


Figure E1-5. Base market potential by sector and vintage (gross savings)

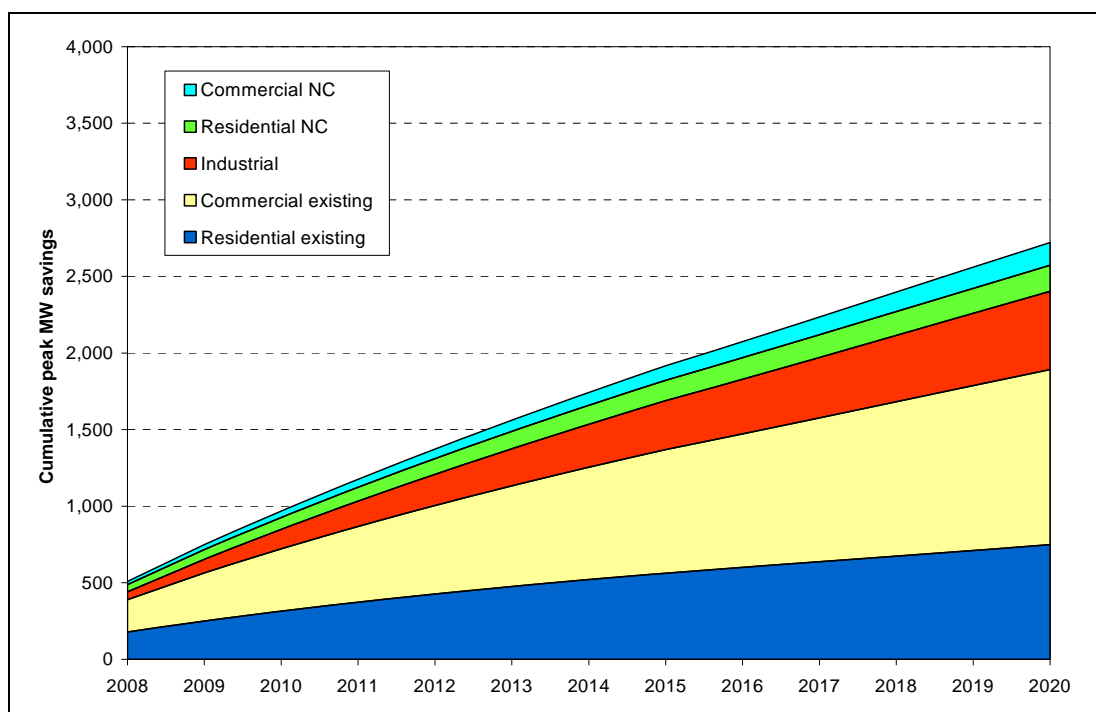


Table E1-9. Base market potential in the residential sector by end use and vintage (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	18	15	12	2	2	1
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	80	53	27	20	13	7
Freezer	22	15	7	5	3	2
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	364	291	218	68	54	41
Lighting	561	374	281	147	98	74
Total	1,045	748	545	242	171	124

Table E1-10. Base market potential in the commercial sector by end use and vintage (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	687	572	343	99	79	59
Space Heating	0	0	0	0	0	0
Ventilation	90	82	66	27	22	16
Water Heating	0	0	0	2	1	1
Com Cooking	13	12	9	0	0	0
Refrigeration	130	118	95	0	0	0
Interior Lighting	424	354	283	56	45	33
Office Equipment	5	5	4	0	0	0
Exterior Lighting	1	1	0	1	1	1
Miscellaneous	0	0	0	0	0	0
Total	1,351	1,144	801	185	148	111

Table E1-11. Base market potential in the industrial sector by end use (cumulative gross peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	8	6	5
Process Cooling	11	9	7
Pumps	156	124	93
Fans	35	28	21
Compressed Air	80	64	48
Process Drives	22	18	13
Industrial Lighting	110	88	66
HVAC	45	36	27
Industrial Other	2	2	1
Agriculture	169	135	101
Total	638	510	383

Figure E1-6. Uncertainty estimate for total base market potential (gross savings)

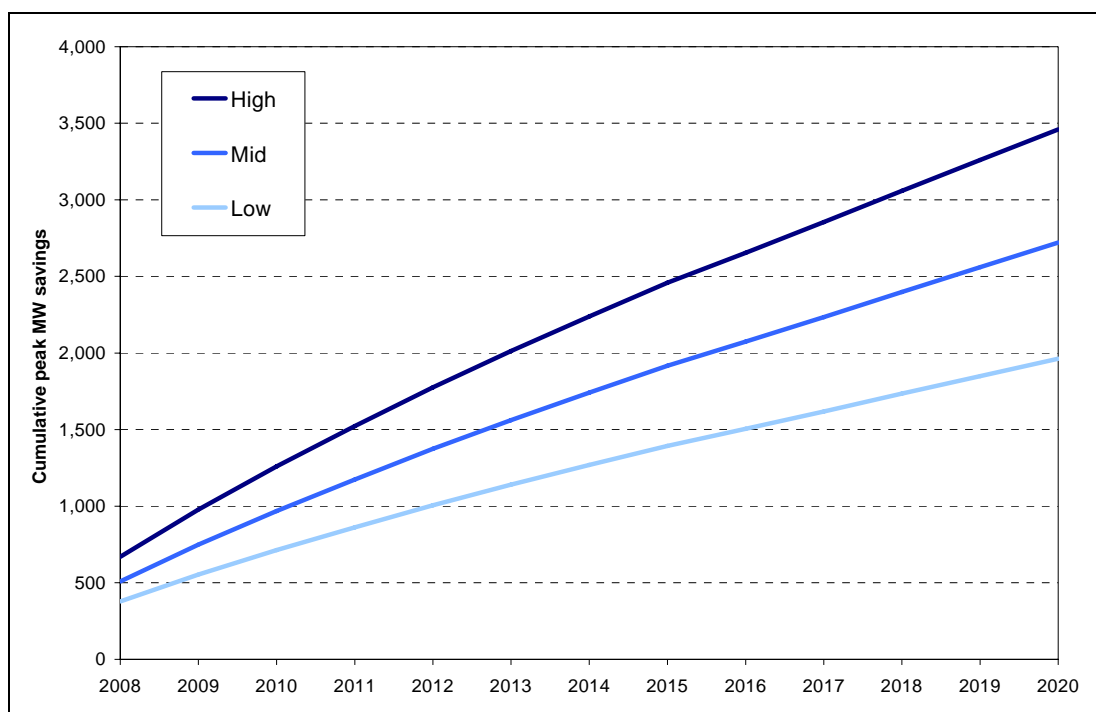
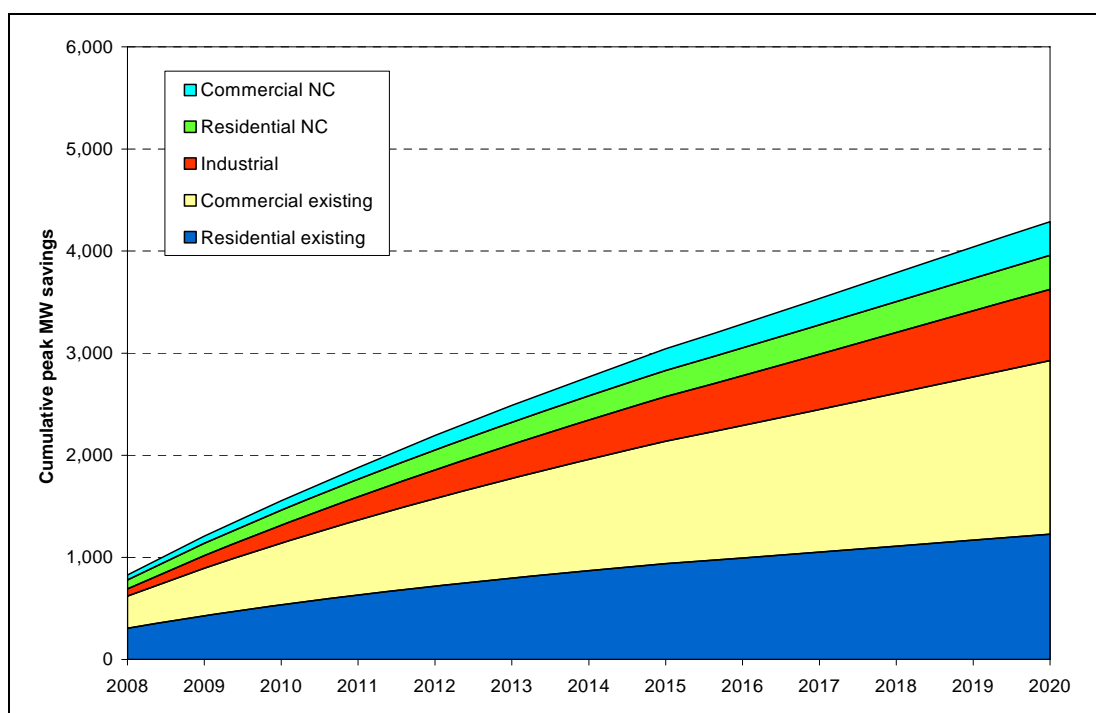


Figure E1-7. Full market potential by sector and vintage (gross savings)



**Table E1-12. Full market potential in the residential sector by end use and vintage
(cumulative gross peak MW savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	23	19	15	5	4	3
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	122	81	41	30	20	10
Freezer	35	23	12	8	6	3
Pool Pump	1	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	541	433	325	156	125	93
Lighting	736	669	334	196	178	89
Total	1,457	1,226	727	395	332	198

**Table E1-13. Full market potential in the commercial sector by end use and vintage
(cumulative gross peak MW savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	1,063	886	532	221	177	133
Space Heating	0	0	0	1	1	1
Ventilation	109	99	79	58	47	35
Water Heating	0	0	0	4	3	2
Com Cooking	18	16	13	0	0	0
Refrigeration	180	163	131	0	0	0
Interior Lighting	630	525	420	126	100	75
Office Equipment	9	8	7	0	0	0
Exterior Lighting	2	1	1	3	3	2
Miscellaneous	1	1	1	0	0	0
Total	2,012	1,700	1,183	413	330	248

Table E1-14. Full market potential in the industrial sector by end use (cumulative gross peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	13	10	8
Process Cooling	21	17	13
Pumps	206	165	124
Fans	59	48	36
Compressed Air	94	75	57
Process Drives	37	30	22
Industrial Lighting	187	150	112
HVAC	52	42	31
Industrial Other	4	3	3
Agriculture	199	159	119
Total	875	700	525

Figure E1-8. Uncertainty estimate for total full market potential (gross savings)

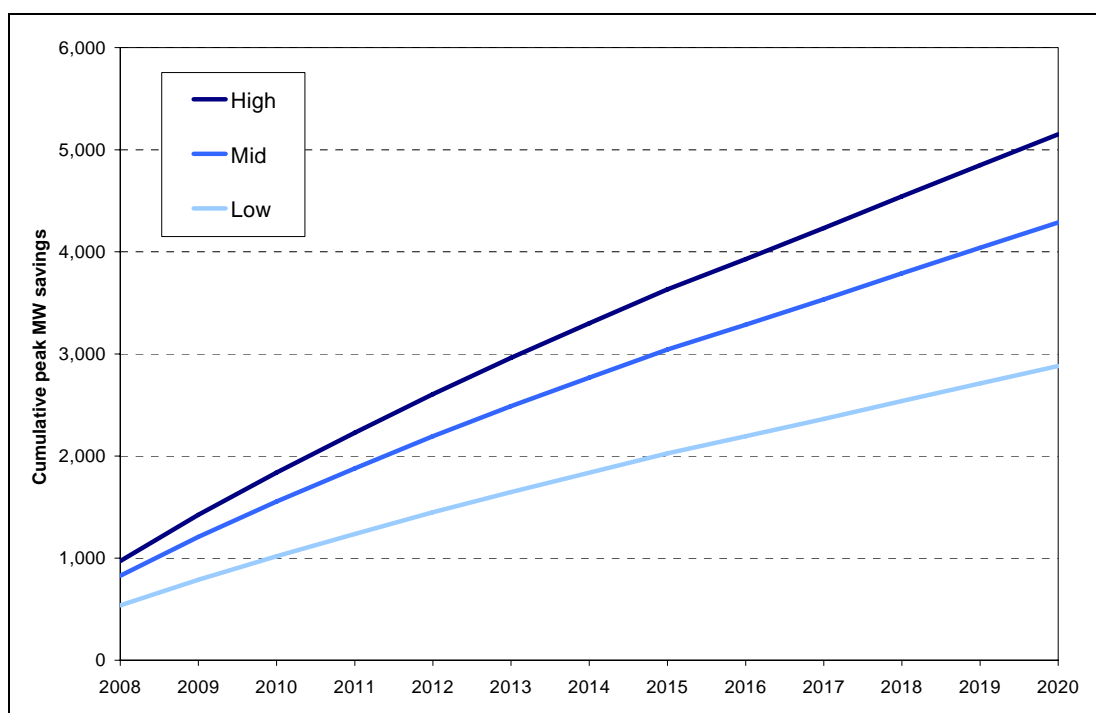


Figure E1-9. Naturally-occurring potential by sector and vintage

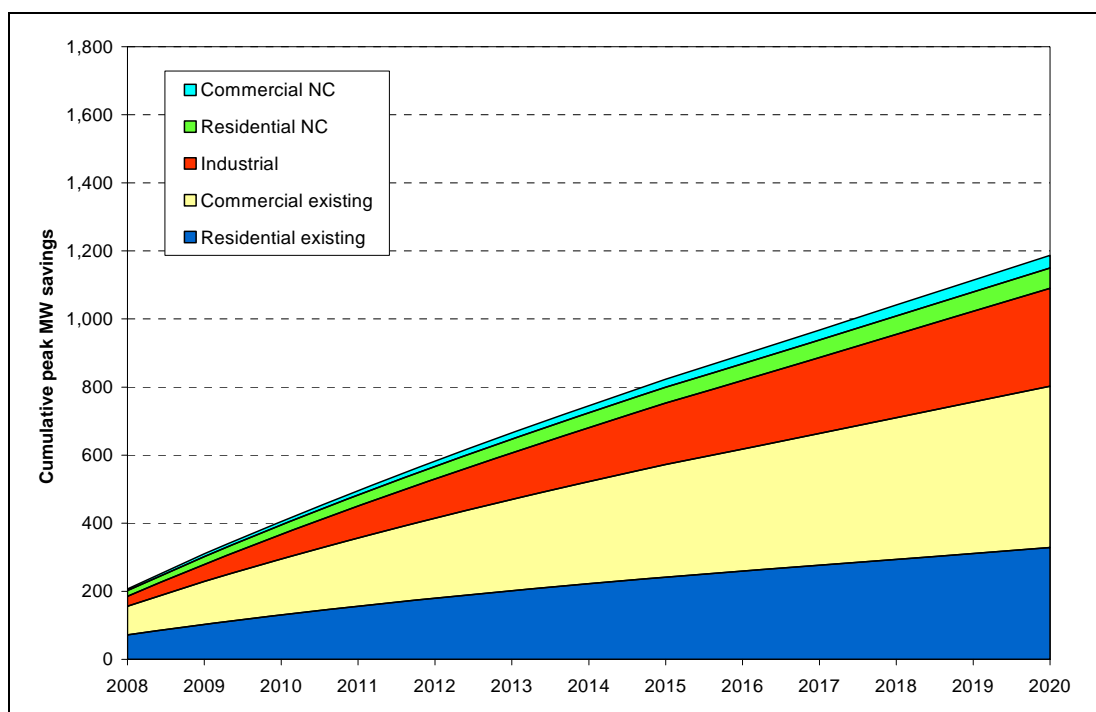


Table E1-15. Naturally-occurring potential in the residential sector by end use and vintage (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	16	13	10	1	0	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	44	29	15	11	7	4
Freezer	12	8	4	3	2	1
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	171	136	102	17	14	10
Lighting	354	142	113	91	36	29
Total	597	329	245	122	60	44

Table E1-16. Naturally-occurring potential in the commercial sector by end use and vintage (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	342	274	205	25	20	15
Space Heating	0	0	0	0	0	0
Ventilation	5	5	4	7	5	4
Water Heating	0	0	0	0	0	0
Com Cooking	0	0	0	0	0	0
Refrigeration	66	60	48	0	0	0
Interior Lighting	162	135	108	14	11	8
Office Equipment	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Total	575	474	365	46	37	28

Table E1-17. Naturally-occurring potential in the industrial sector by end use (cumulative peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	5	4	3
Process Cooling	7	6	4
Pumps	69	55	41
Fans	14	11	8
Compressed Air	58	46	35
Process Drives	13	11	8
Industrial Lighting	61	49	36
HVAC	29	23	18
Industrial Other	2	1	1
Agriculture	102	82	61
Total	360	288	216

Figure E1-10. Uncertainty estimate for total naturally-occurring potential

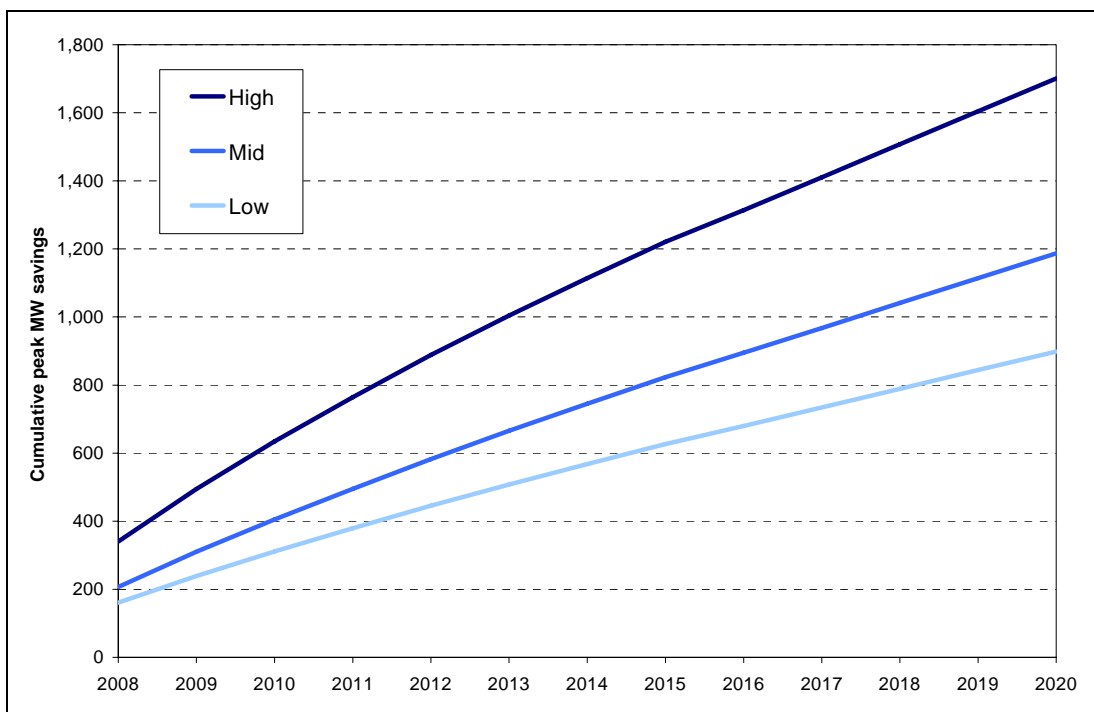


Figure E1-11. Estimated potential savings from BBEES initiatives (gross savings incremental to base market potential)

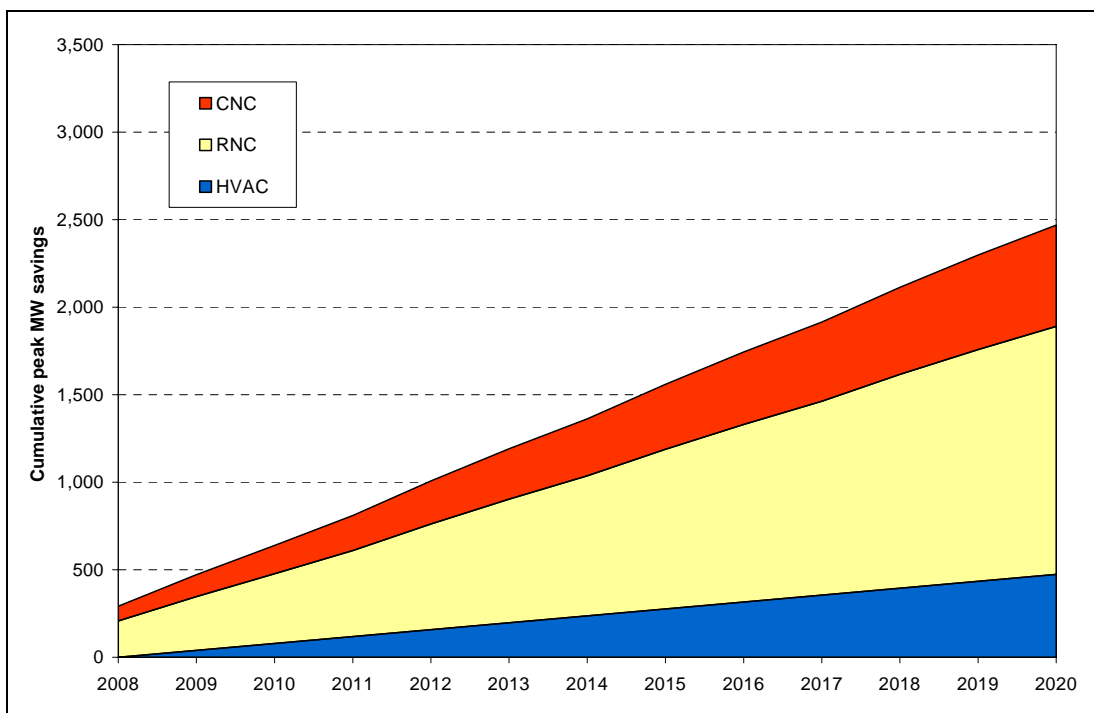


Figure E1-12. Uncertainty estimate for potential savings from all BB initiatives (gross savings incremental to base market potential)

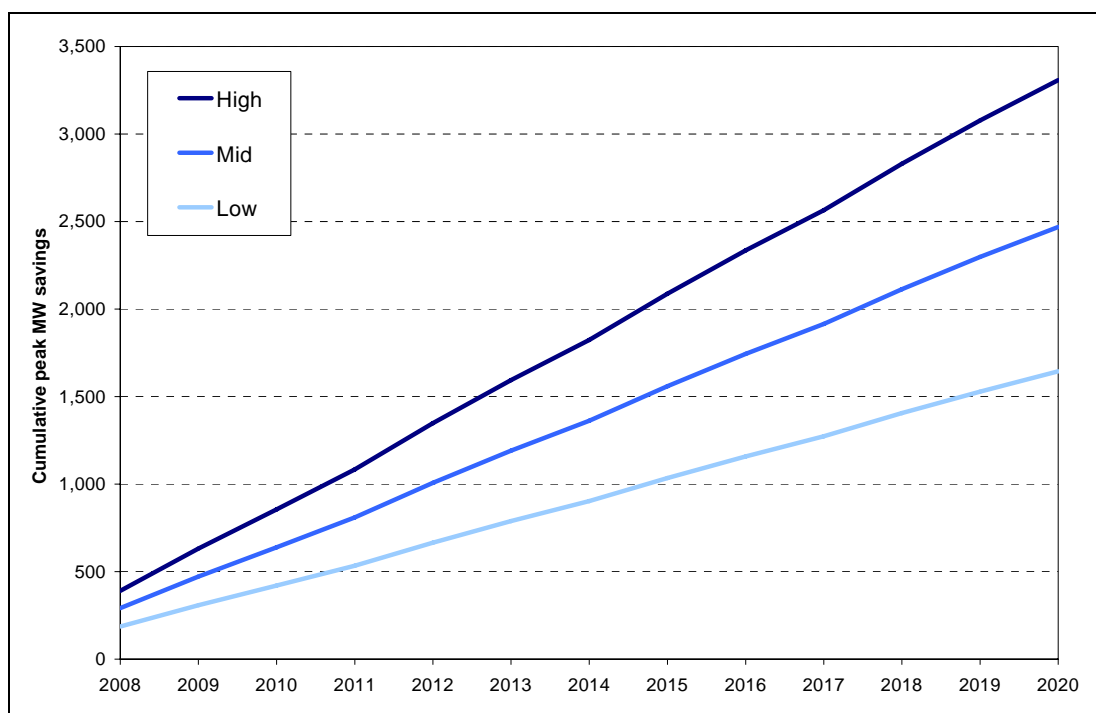


Figure E1-13. Impact of Huffman Bill on base market potential for lighting (gross savings)

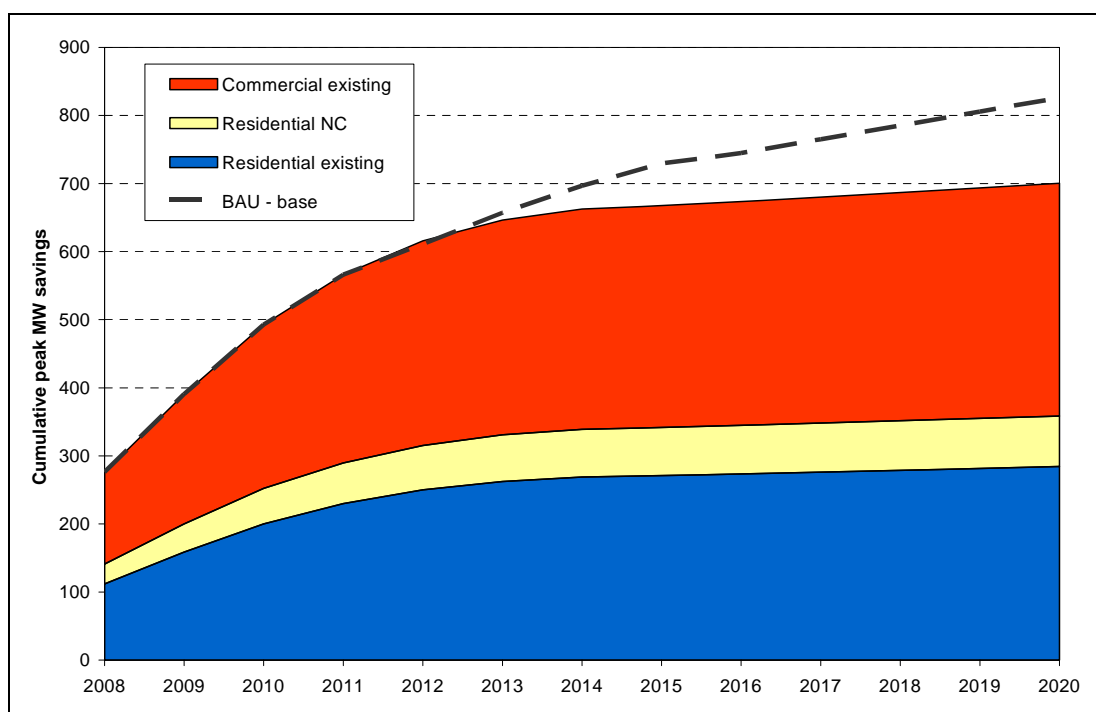


Figure E1-14. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction (gross savings)

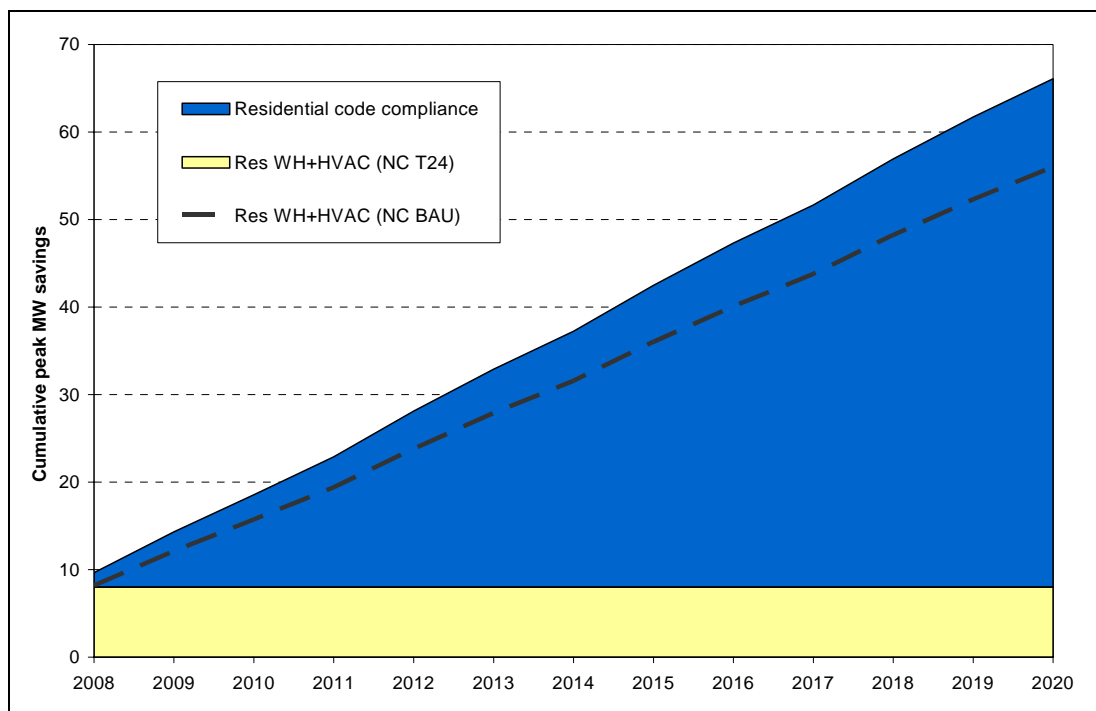


Figure E1-15. Total impact of future codes and standards on base market potential of IOU programs (gross savings)

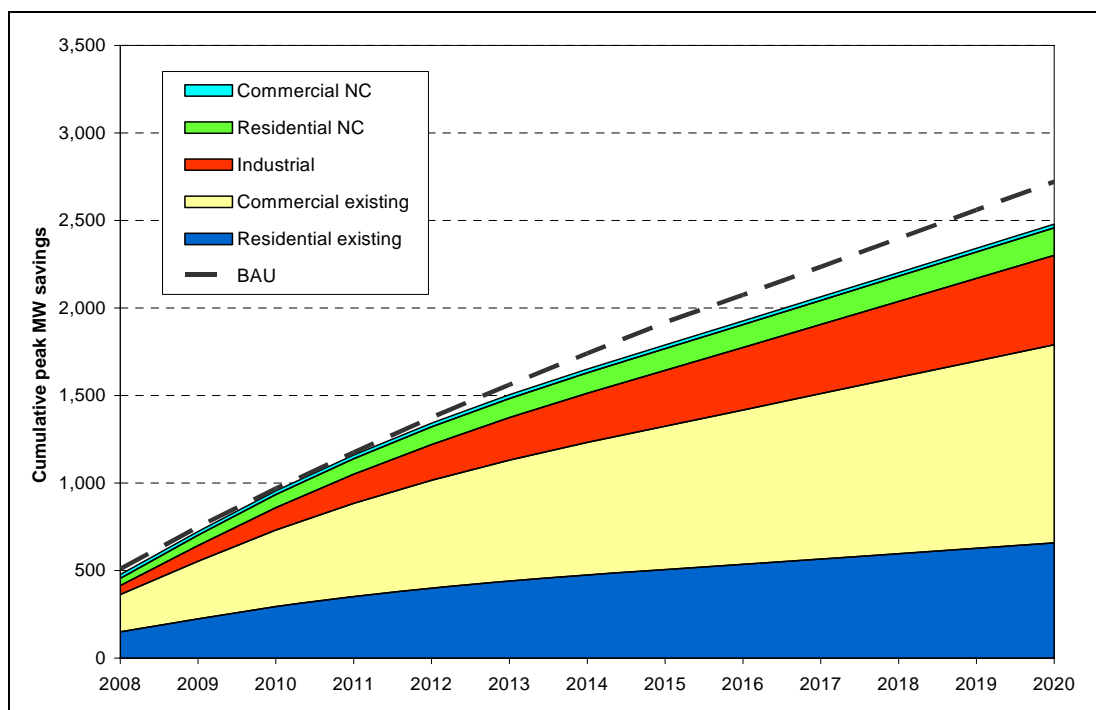


Figure E1-16. Uncertainty estimate of total base market potential of IOU programs after accounting for impacts of future codes and standards (gross savings)

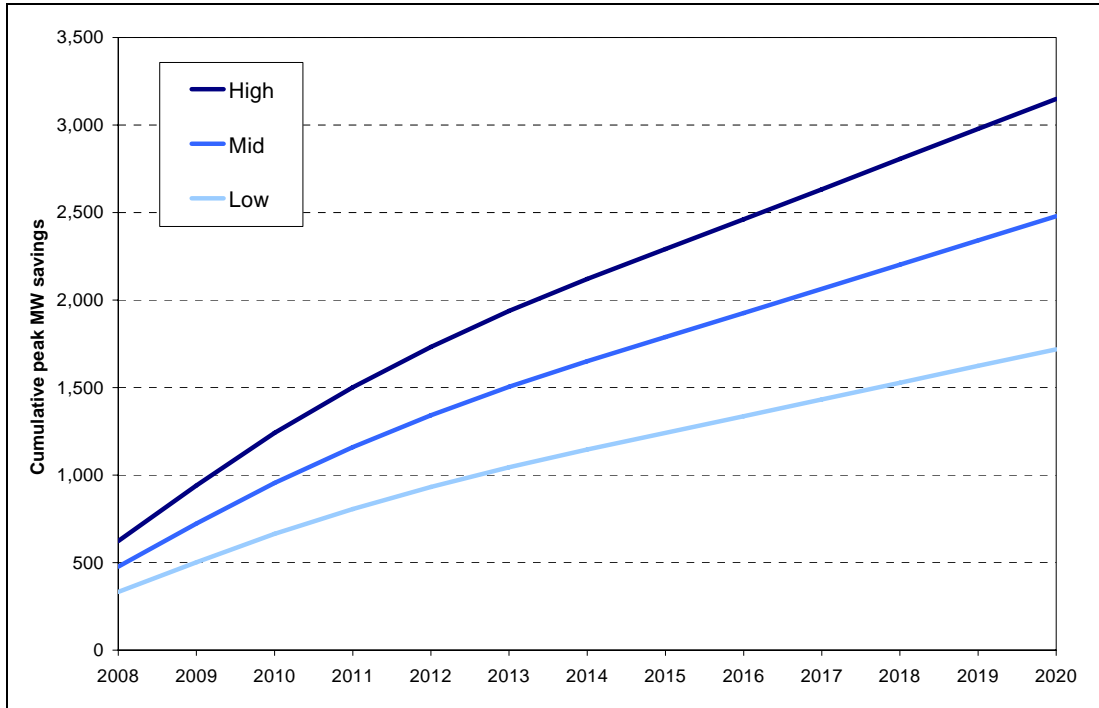


Figure E1-17. Estimated potential lighting savings from implementation of the Huffman Bill (gross savings incremental to C&S-adjusted base market potential)

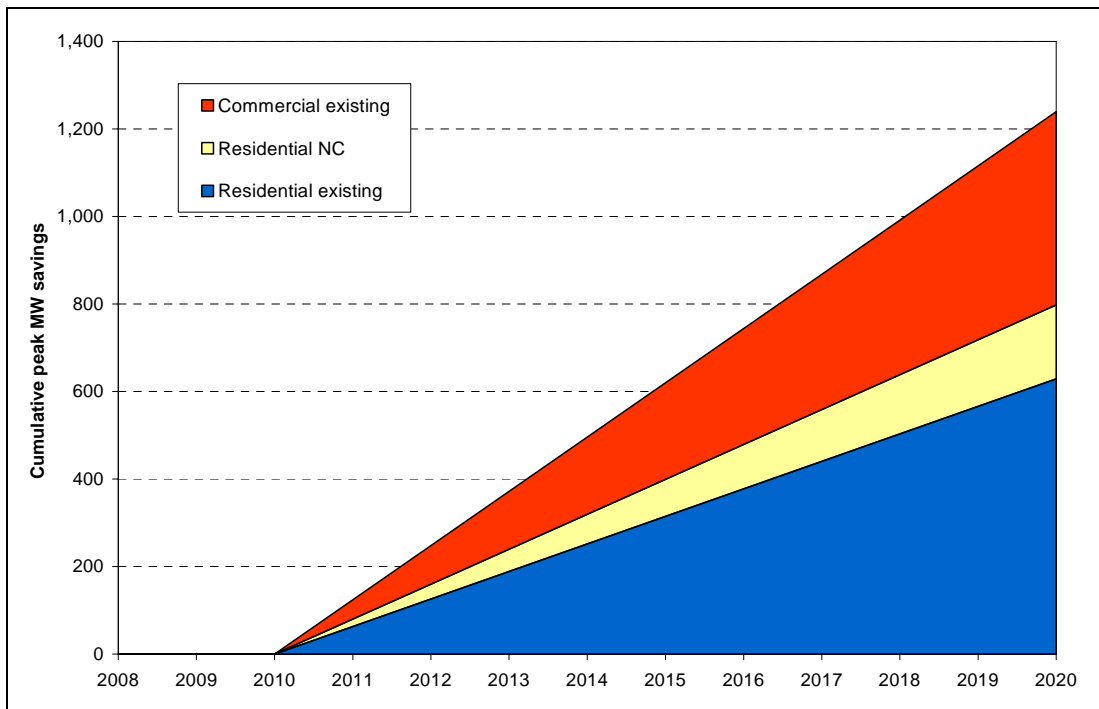


Figure E1-18. Estimated potential savings from implementation of the revisions to Title 24 (gross savings incremental to C&S-adjusted base market potential)

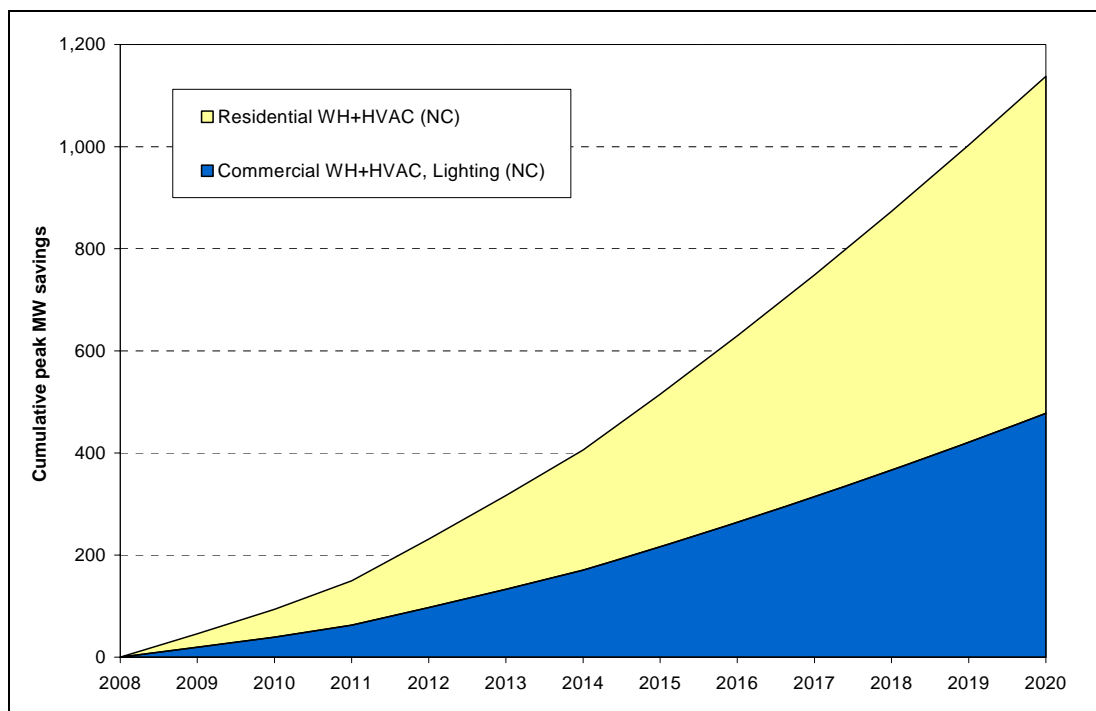


Figure E1-19. Estimated potential savings from implementation of the revised federal appliance standards (gross savings incremental to C&S-adjusted base market potential)

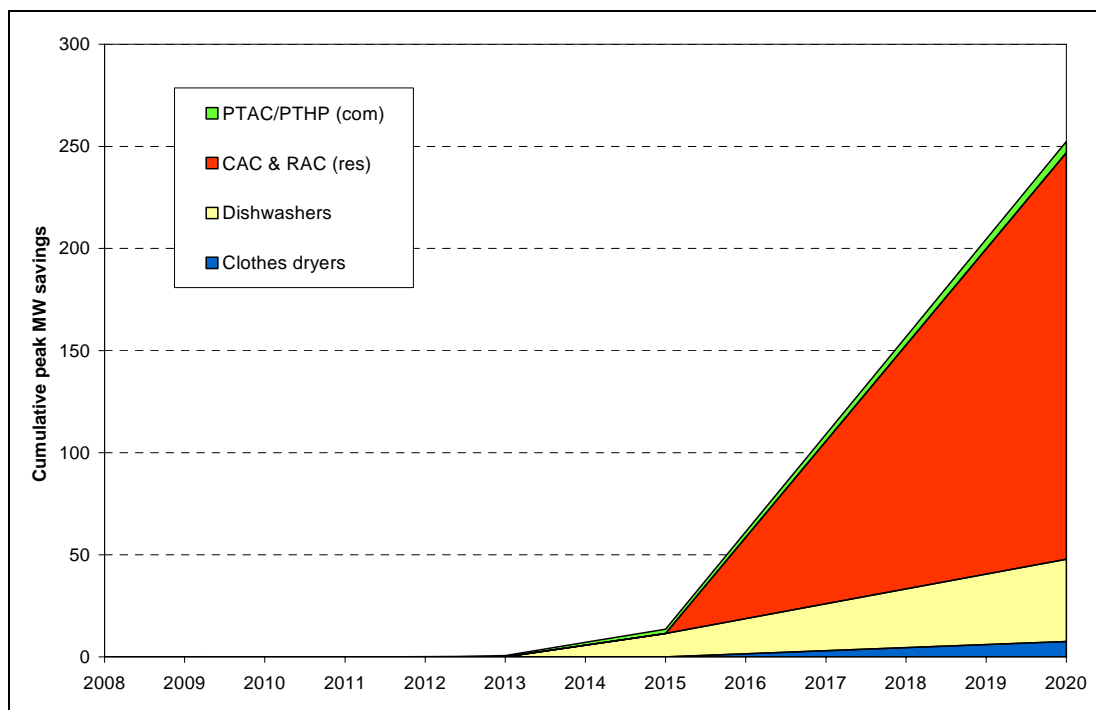


Figure E1-20. Estimated potential savings from future codes and standards (gross savings incremental to C&S-adjusted base market potential)

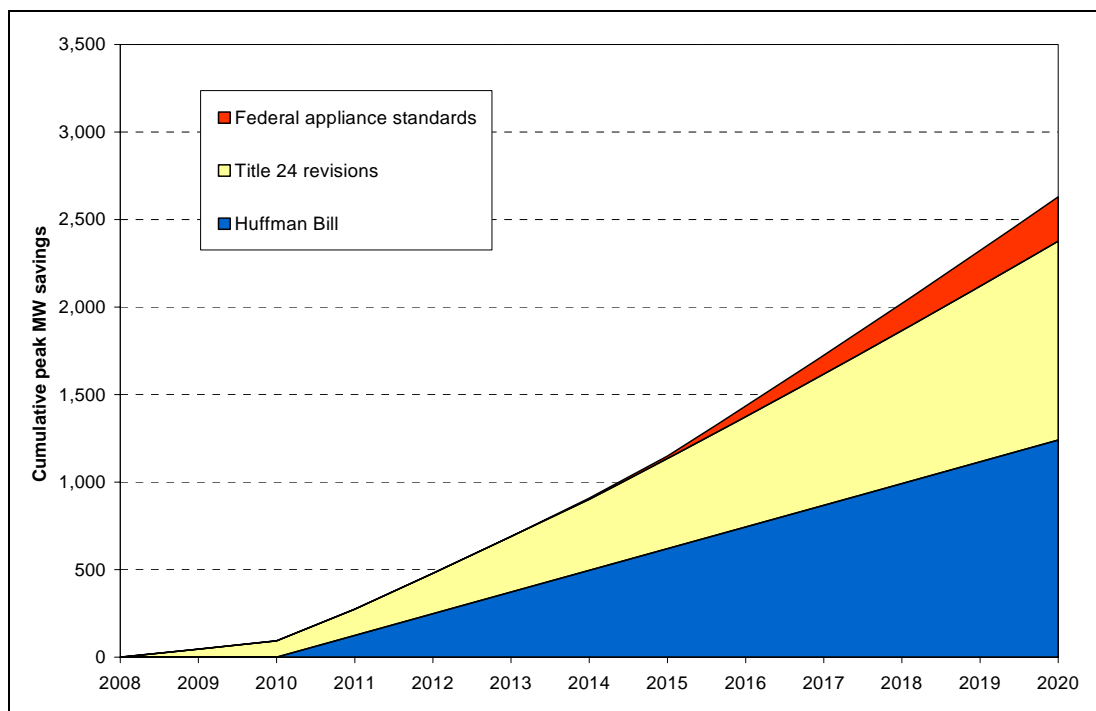


Figure E1-21. Uncertainty estimate of total potential savings from future codes and standards (gross savings incremental to C&S-adjusted base market potential)

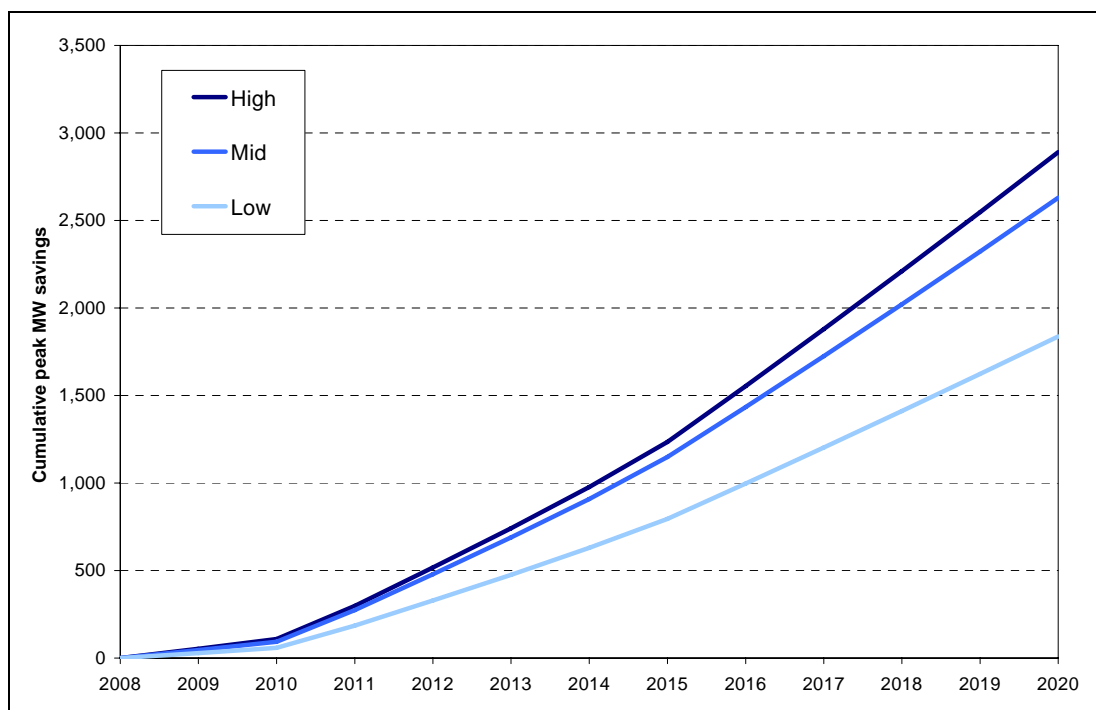


Figure E1-22. Estimated potential savings from all scenarios (gross savings assuming base-funding for IOU programs)

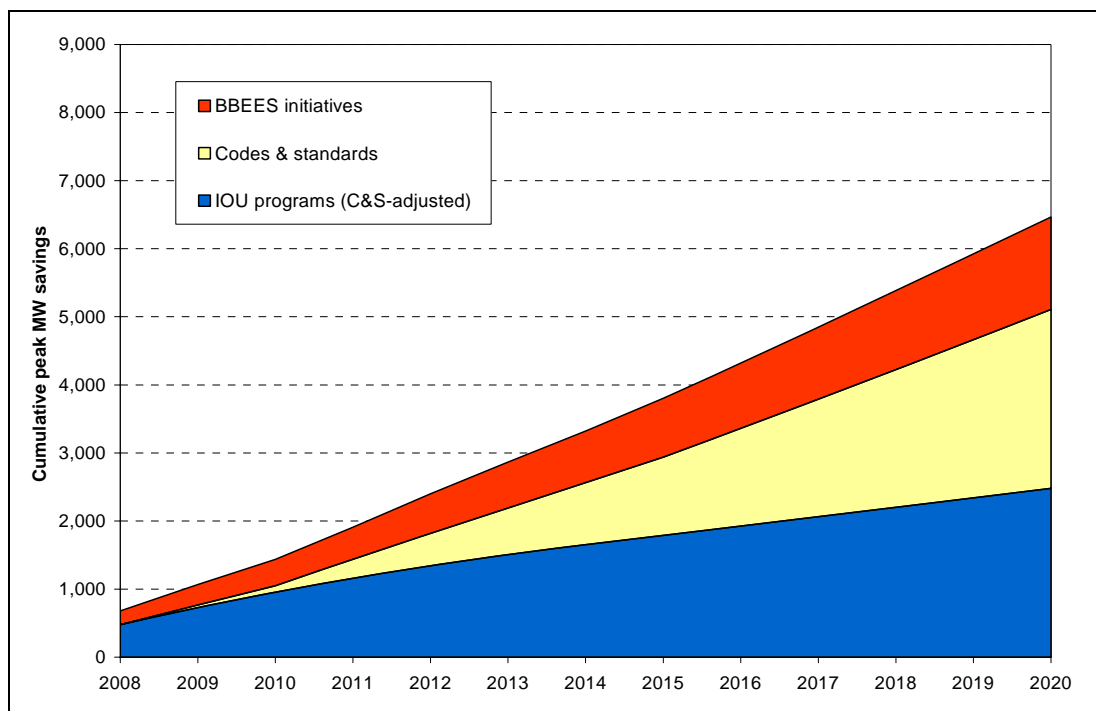


Figure E1-23. Estimated potential savings from all scenarios (gross savings assuming full-funding for IOU programs)

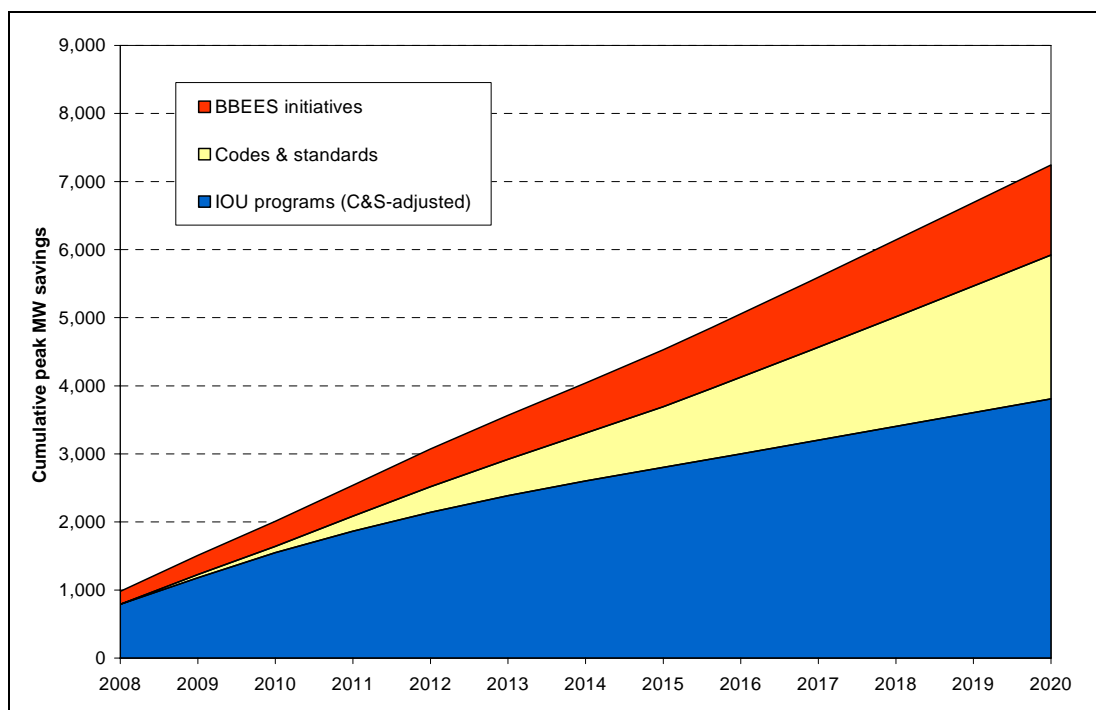


Table E1-18. Summary of estimated savings potential for each scenario (cumulative gross peak MW savings in 2020)

Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	HVAC	439	327	244	439	327	244
	RNC	1,147	805	569	1,137	795	559
	CNC	378	228	182	352	202	156
	Total	1,964	1,360	995	1,928	1,324	959
Huffman Bill	Res existing	629	629	472	349	349	262
	RNC	169	169	127	94	94	70
	CNC	442	442	331	281	281	211
	Total	1,240	1,240	930	724	724	543
Title 24 revisions	RNC	797	660	381	797	660	381
	CNC	525	477	325	525	477	325
	Total	1,323	1,138	706	1,323	1,138	706
Federal standards	Clothes dryers	9	8	6	9	8	6
	Dishwashers	48	40	32	48	40	32
	CAC & RAC (res)	265	199	159	265	199	159
	PTAC/PTHP (com)	7	5	4	7	5	4
	Total	329	252	202	329	252	202
IOU code compliance (res)	Total	92	58	37	89	58	40
IOU programs (C&S-adjusted)	Res existing	910	658	435	1,342	1,121	636
	Com existing	1,336	1,132	789	1,996	1,688	1,172
	Industrial	638	510	383	875	700	525
	RNC	238	157	96	315	252	131
	CNC	26	21	16	59	47	35
	Total	3,149	2,478	1,719	4,586	3,807	2,499
TOTAL GROSS SAVINGS POTENTIAL		8,096	6,526	4,589	8,978	7,302	4,948
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		<i>1,603</i>	<i>1,147</i>	<i>845</i>	<i>1,603</i>	<i>1,147</i>	<i>845</i>

Table E1-19. Contributions to total estimated peak demand and energy savings potential from each scenario component

Scenario:	Scenario component :	Base-funding for IOU programs		Full-funding for IOU programs	
		Share of Peak Demand Savings Potential (%)	Share of Energy Savings Potential (%)	Share of Peak Demand Savings Potential (%)	Share of Energy Savings Potential (%)
BBEES initiatives	HVAC	5.0%	1.3%	4.5%	1.2%
	RNC	12.3%	3.9%	10.9%	3.4%
	CNC	3.5%	3.3%	2.8%	2.6%
	Total	20.8%	8.5%	18.1%	7.3%
Huffman Bill	Res existing	9.6%	19.1%	4.8%	9.6%
	RNC	2.6%	5.1%	1.3%	2.6%
	CNC	6.8%	10.0%	3.8%	5.8%
	Total	19.0%	34.2%	9.9%	17.9%
Title 24 revisions	RNC	10.1%	3.2%	9.0%	2.8%
	CNC	7.3%	7.0%	6.5%	6.3%
	Total	17.4%	10.2%	15.6%	9.2%
Federal standards	Clothes dryers	0.1%	0.3%	0.1%	0.3%
	Dishwashers	0.6%	0.6%	0.6%	0.5%
	CAC & RAC (res)	3.1%	0.8%	2.7%	0.7%
	PTAC/PTHP (com)	0.1%	0.0%	0.1%	0.0%
	Total	3.9%	1.7%	3.5%	1.6%
IOU code compliance (res)	Total	0.9%	0.3%	0.8%	0.3%
IOU programs (C&S-adjusted)	Res existing	10.1%	12.7%	15.4%	20.8%
	Com existing	17.3%	16.6%	23.1%	22.0%
	Industrial	7.8%	12.3%	9.6%	15.2%
	RNC	2.4%	3.1%	3.4%	5.1%
	CNC	0.3%	0.3%	0.6%	0.6%
	Total	38.0%	45.0%	52.1%	63.8%

Figure E1-24. Uncertainty estimate of total potential savings from all scenarios (gross savings assuming base-funding for IOU programs)

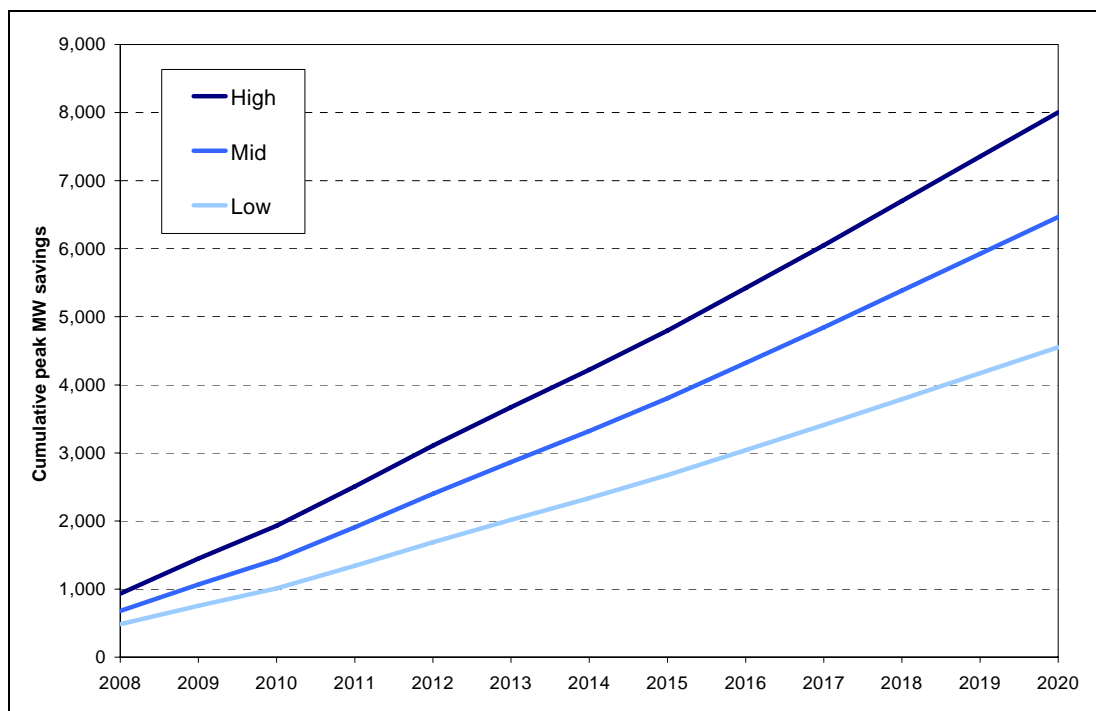


Figure E1-25. Uncertainty estimate of total potential savings from all scenarios (gross savings assuming full-funding for IOU programs)

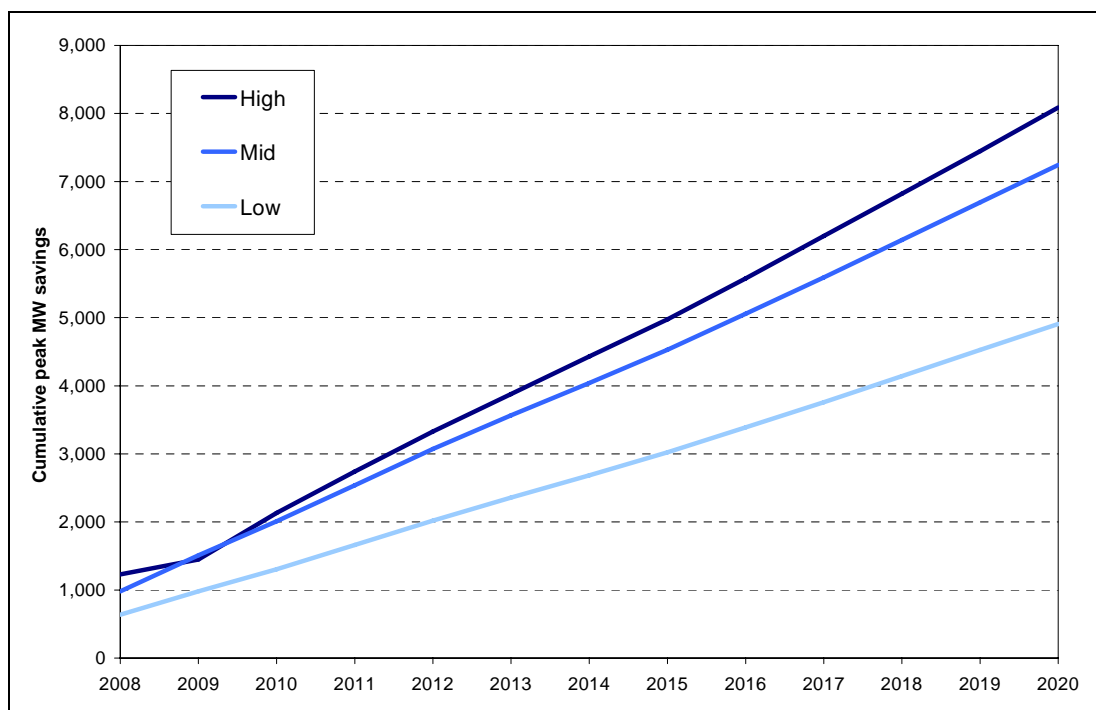


Figure E1-26. Cumulative peak demand savings from High, Mid and Low Cases compared to current goals through 2013

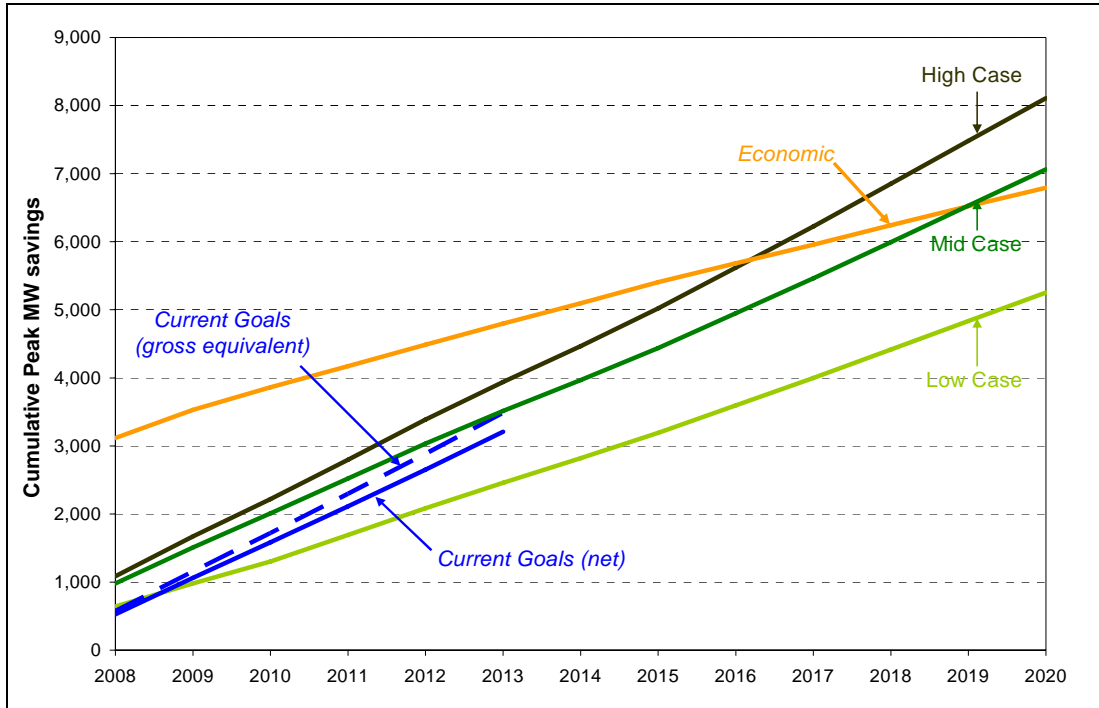


Figure E1-27. Composition of peak demand savings across mechanisms in the Low Case

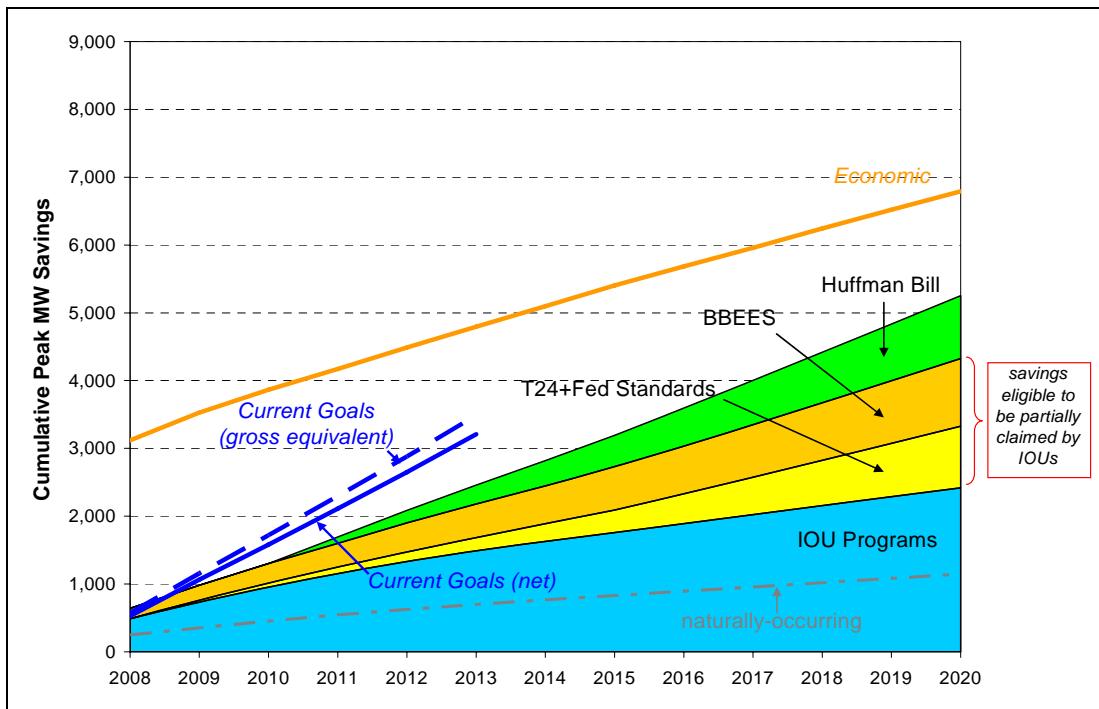


Figure E1-28. Composition of peak demand savings across mechanisms in the Mid Case

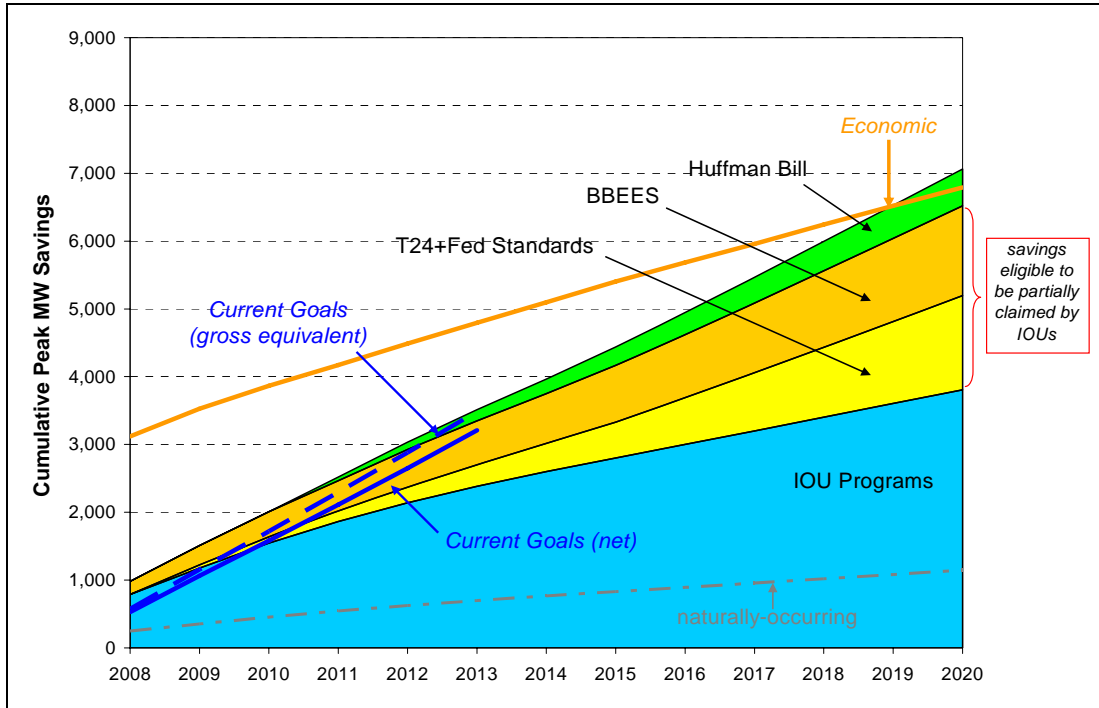


Figure E1-29. Composition of peak demand savings across mechanisms in the High Case

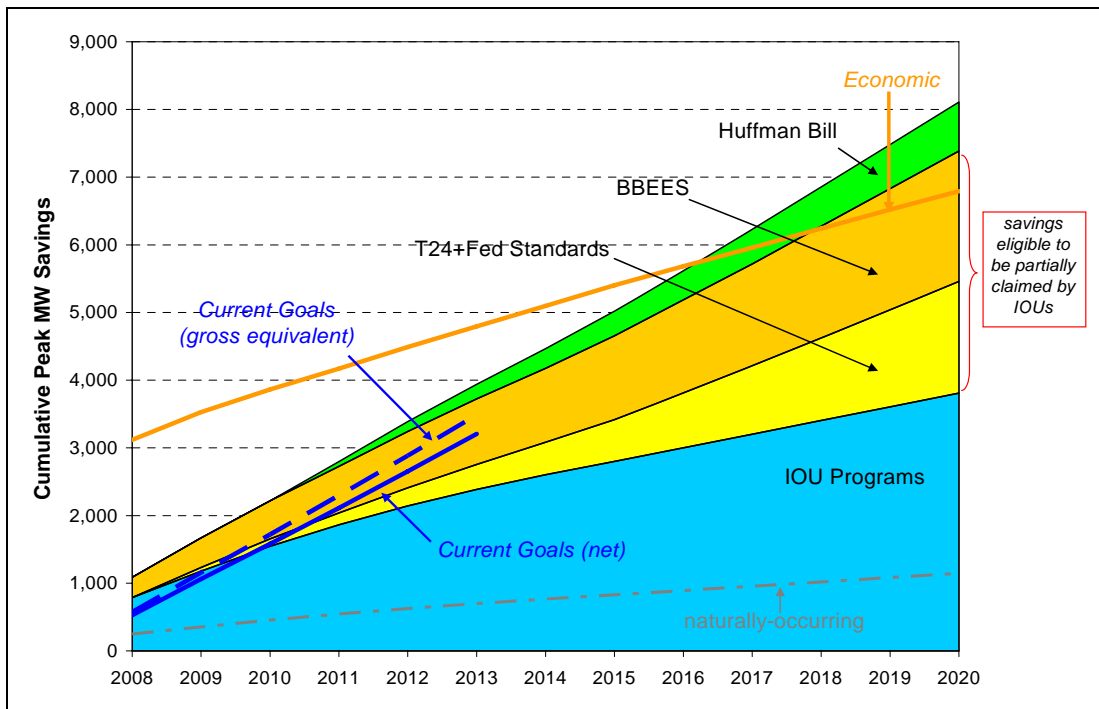


Table E1-20. Estimated peak demand savings in the High, Mid, and Low straw man cases (cumulative peak MW savings in 2020)

Savings mechanism:	Low Case	Mid Case	High Case
Utility programs (gross)	2478	3807	3896
Huffman Bill	930	543	724
Codes & standards	908	1390	1651
BBEES initiatives	995	1324	1928
Total	5311	7063	8199

Table E1-20. Cumulative peak MW savings by saving mechanism in the High, Mid, and Low straw man cases over time

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Huffman Bill	0	0	0	93	186	279	372	465	558	651	744	837	930
	T24+Federal Standards	0	28	58	93	143	197	258	330	439	552	667	786	908
	BBEES	152	223	288	351	426	496	561	637	707	774	851	924	995
	IOU Programs	489	729	957	1156	1331	1487	1629	1760	1891	2023	2156	2288	2420
Mid	Huffman Bill	0	0	0	54	109	163	217	271	326	380	434	488	543
	T24+Federal Standards	0	46	93	150	231	317	413	529	691	858	1030	1207	1390
	BBEES	192	285	369	454	554	647	735	837	932	1023	1127	1227	1324
	IOU Programs	788	1179	1546	1864	2141	2385	2602	2802	3001	3202	3404	3606	3807
High	Huffman Bill	0	0	0	72	145	217	289	362	434	506	579	651	724
	T24+Federal Standards	0	53	109	174	269	369	480	615	810	1012	1219	1432	1651
	BBEES	298	438	563	688	833	968	1094	1241	1374	1503	1651	1792	1928
	IOU Programs	788	1179	1546	1864	2141	2385	2602	2802	3001	3202	3404	3606	3807
<i>Benchmarks</i>	<i>Economic</i>	3118	3528	3863	4171	4488	4795	5097	5404	5684	5957	6242	6520	6792
	<i>Current IOU Goals (gross equivalent)</i>	574	1155	1720	2296	2882	3487							
	<i>Current IOU Goals (net)</i>	528	1063	1582	2112	2651	3208							

Appendix E2

Peak Demand Savings Results for PG&E

Figure E2-1. Technical potential by sector and vintage in PG&E

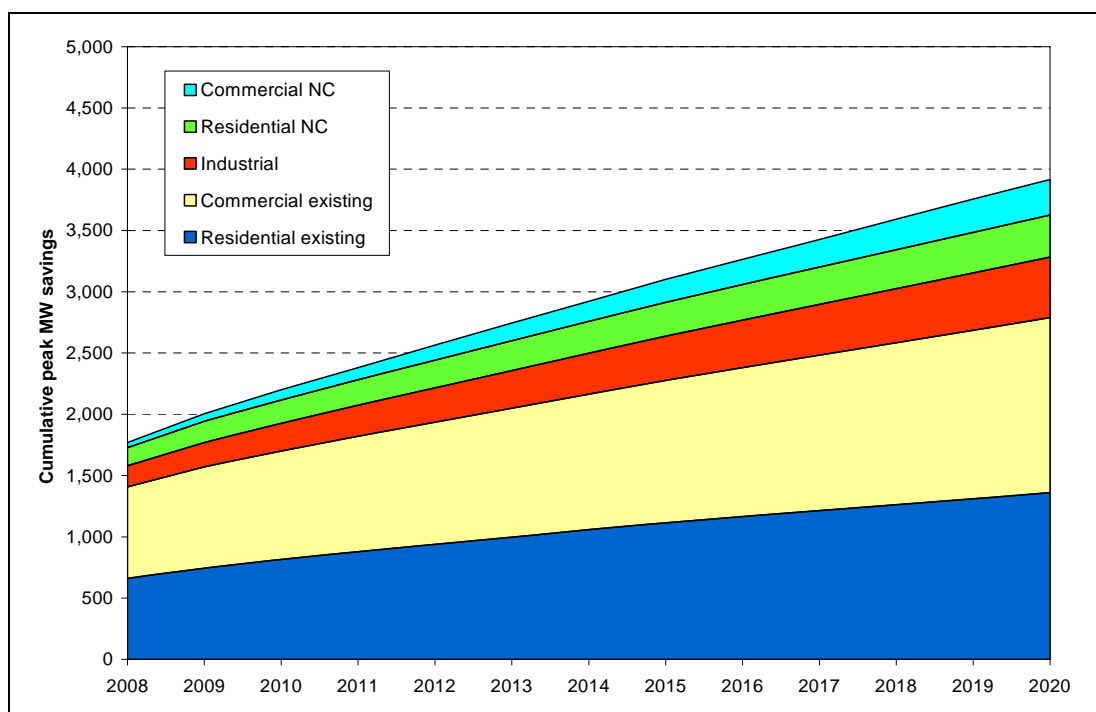


Table E2-1. Technical potential in the residential sector by end use and vintage in PG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	82	75	60	8	7	5
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	44	40	28	15	13	9
Freezer	0	0	0	0	0	0
Pool Pump	3	3	2	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	931	700	560	189	151	113
Lighting	596	542	379	190	173	121
Total	1,657	1,360	1,030	402	344	249

Table E2-2. Technical potential in the commercial sector by end use and vintage in PG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	740	617	493	192	153	115
Space Heating	0	0	0	1	1	1
Ventilation	72	60	48	58	46	35
Water Heating	0	0	0	2	2	1
Com Cooking	116	97	78	0	0	0
Refrigeration	165	165	83	0	0	0
Interior Lighting	485	441	353	104	83	63
Office Equipment	40	37	29	0	0	0
Exterior Lighting	9	8	6	4	3	3
Miscellaneous	4	4	4	0	0	0
Total	1,631	1,428	1,094	362	289	217

Table E2-3. Technical potential in the industrial sector by end use in PG&E (cumulative peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	21	8	7
Process Cooling	38	30	23
Pumps	141	128	85
Fans	48	38	29
Compressed Air	93	74	56
Process Drives	24	19	15
Industrial Lighting	102	81	61
HVAC	36	29	22
Industrial Other	4	3	2
Agriculture	103	82	62
Total	609	495	360

Figure E2-2. Uncertainty estimate for total technical potential in PG&E

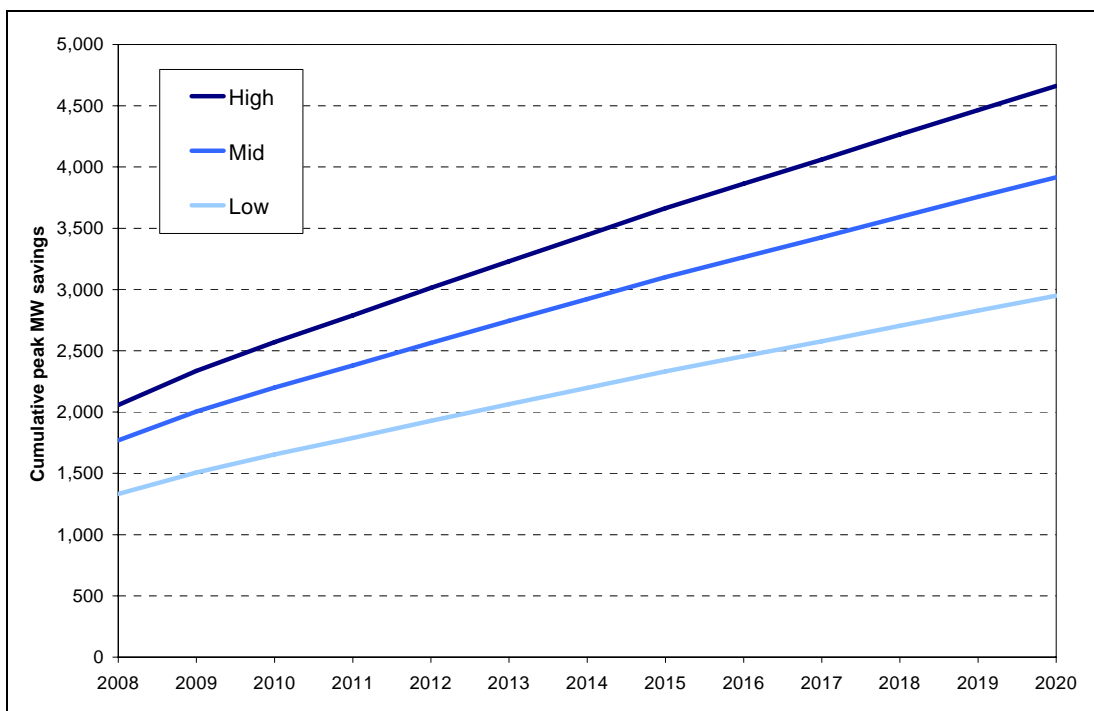


Figure E2-3. Economic potential by sector and vintage in PG&E

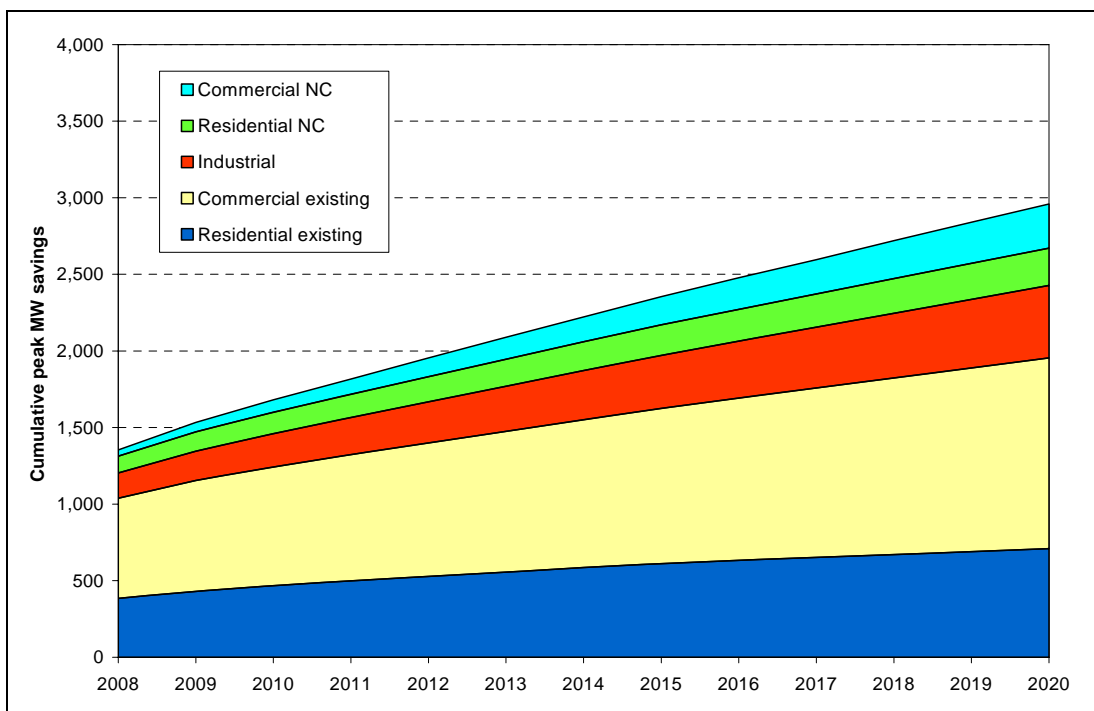


Table E2-4. Economic potential in the residential sector by end use and vintage in PG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	18	12	10	5	4	3
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	0	0	0	0	0	0
Freezer	0	0	0	0	0	0
Pool Pump	3	3	2	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	292	243	194	119	96	72
Lighting	497	452	316	159	144	101
Total	810	710	523	283	244	175

Table E2-5. Economic potential in the commercial sector by end use and vintage in PG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	619	516	413	191	152	114
Space Heating	0	0	0	1	1	1
Ventilation	71	59	47	58	46	35
Water Heating	0	0	0	2	2	1
Com Cooking	95	79	64	0	0	0
Refrigeration	156	156	78	0	0	0
Interior Lighting	435	395	316	103	82	62
Office Equipment	35	32	26	0	0	0
Exterior Lighting	3	2	2	4	3	3
Miscellaneous	4	4	4	0	0	0
Total	1,418	1,244	950	359	287	215

**Table E2-6. Economic potential in the industrial sector by end use in PG&E
(cumulative peak MW savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	21	8	7
Process Cooling	25	20	15
Pumps	139	126	83
Fans	45	36	27
Compressed Air	90	72	54
Process Drives	21	17	13
Industrial Lighting	99	80	60
HVAC	36	29	22
Industrial Other	4	3	2
Agriculture	103	82	62
Total	584	474	344

Figure E2-4. Uncertainty estimate for total economic potential in PG&E

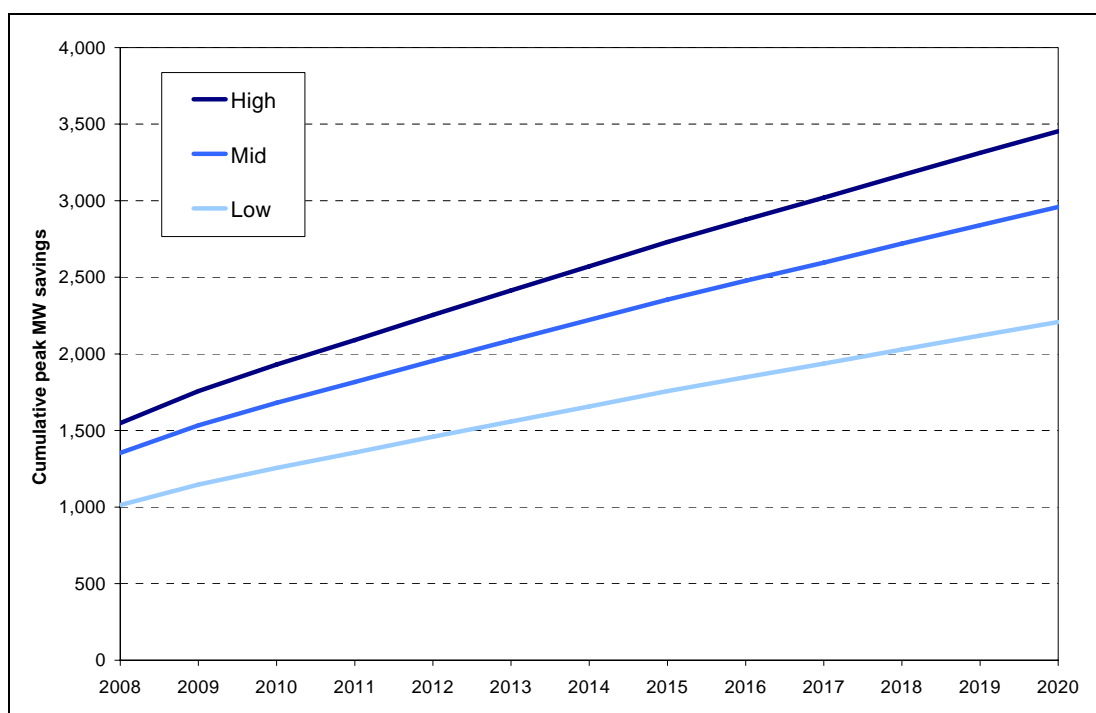


Figure E2-5. Base market potential by sector and vintage in PG&E (gross savings)

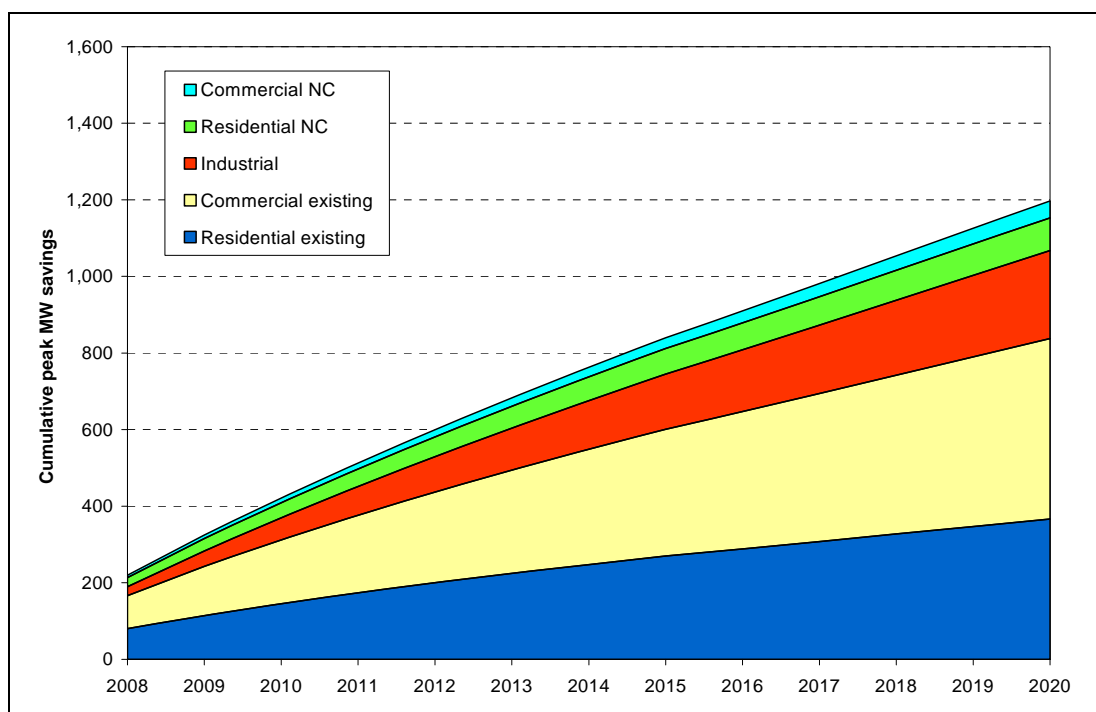


Table E2-7. Base market potential in the residential sector by end use and vintage in PG&E (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	14	12	10	1	1	1
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	20	13	7	7	4	2
Freezer	4	2	1	1	1	0
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	227	181	136	36	29	22
Lighting	236	157	118	75	50	38
Total	501	367	272	121	85	63

Table E2-8. Base market potential in the commercial sector by end use and vintage in PG&E (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	276	230	138	30	24	18
Space Heating	0	0	0	0	0	0
Ventilation	39	35	28	10	8	6
Water Heating	0	0	0	0	0	0
Com Cooking	10	9	7	0	0	0
Refrigeration	58	52	42	0	0	0
Interior Lighting	172	144	115	14	12	9
Office Equipment	1	1	0	0	0	0
Exterior Lighting	0	0	0	1	1	0
Miscellaneous	0	0	0	0	0	0
Total	555	471	331	55	44	33

Table E2-9. Base market potential in the industrial sector by end use in PG&E (cumulative gross peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	3	3	2
Process Cooling	3	3	2
Pumps	73	58	44
Fans	15	12	9
Compressed Air	37	29	22
Process Drives	7	5	4
Industrial Lighting	42	33	25
HVAC	28	23	17
Industrial Other	1	1	0
Agriculture	80	64	48
Total	288	230	173

Figure E2-6. Uncertainty estimate for total base market potential in PG&E (gross savings)

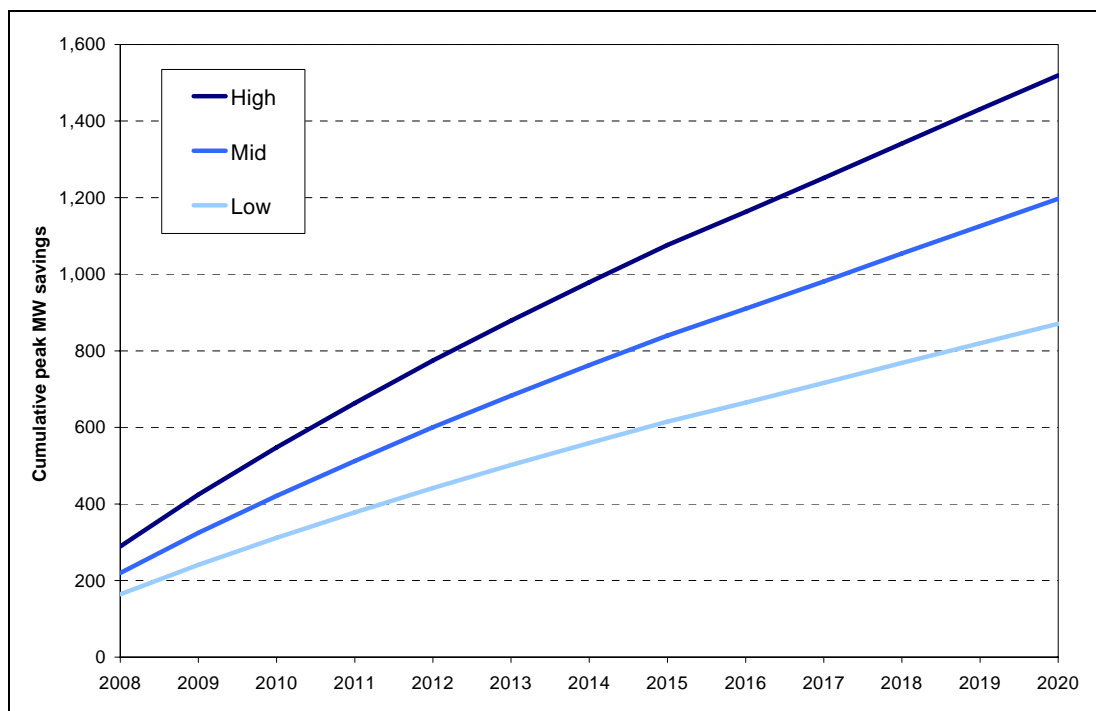


Figure E2-7. Full market potential by sector and vintage in PG&E (gross savings)

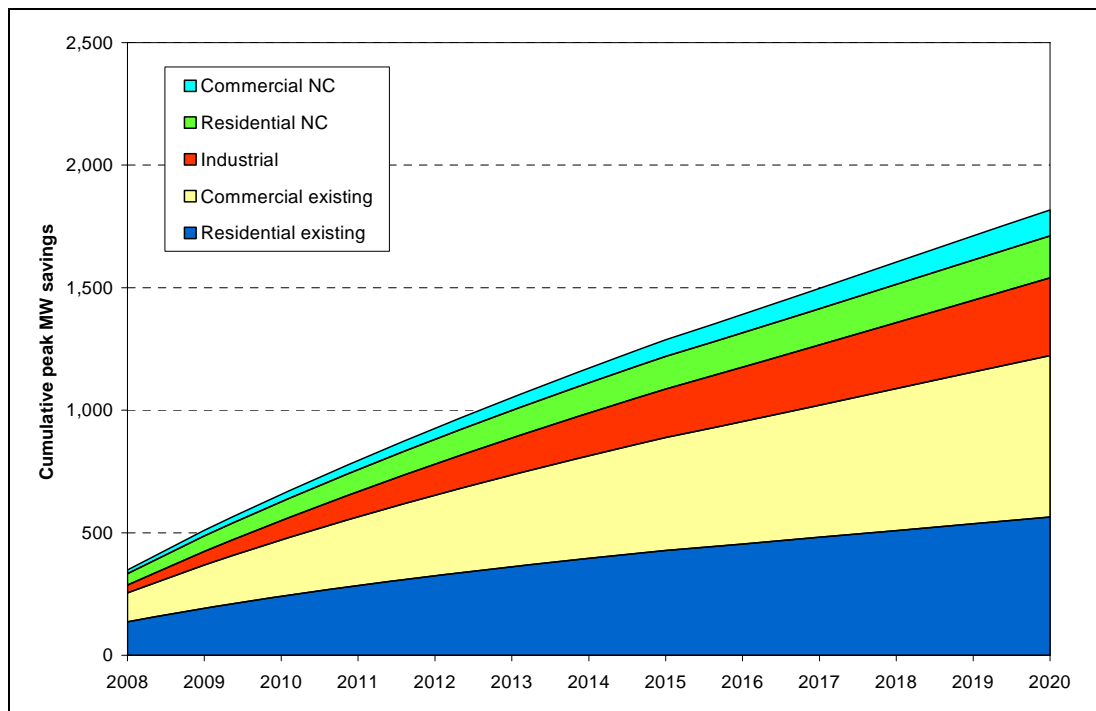


Table E2-10. Full market potential in the residential sector by end use and vintage in PG&E (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	16	13	11	4	3	2
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	30	20	10	10	7	3
Freezer	5	4	2	2	1	1
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	295	236	177	85	68	51
Lighting	320	291	145	102	93	46
Total	667	564	345	203	172	104

Table E2-11. Full market potential in the commercial sector by end use and vintage in PG&E (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	419	349	209	71	57	43
Space Heating	0	0	0	0	0	0
Ventilation	48	44	35	21	17	13
Water Heating	0	0	0	1	1	1
Com Cooking	11	10	8	0	0	0
Refrigeration	68	62	49	0	0	0
Interior Lighting	230	192	154	36	29	22
Office Equipment	1	1	1	0	0	0
Exterior Lighting	1	1	0	2	2	1
Miscellaneous	0	0	0	0	0	0
Total	778	659	457	132	106	79

**Table E2-12. Full market potential in the industrial sector by end use in PG&E
(cumulative gross peak MW savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	6	4	3
Process Cooling	7	6	4
Pumps	97	77	58
Fans	25	20	15
Compressed Air	44	35	26
Process Drives	12	10	7
Industrial Lighting	77	61	46
HVAC	34	27	20
Industrial Other	1	1	1
Agriculture	94	75	56
Total	396	317	238

Figure E2-8. Uncertainty estimate for total full market potential in PG&E (gross savings)

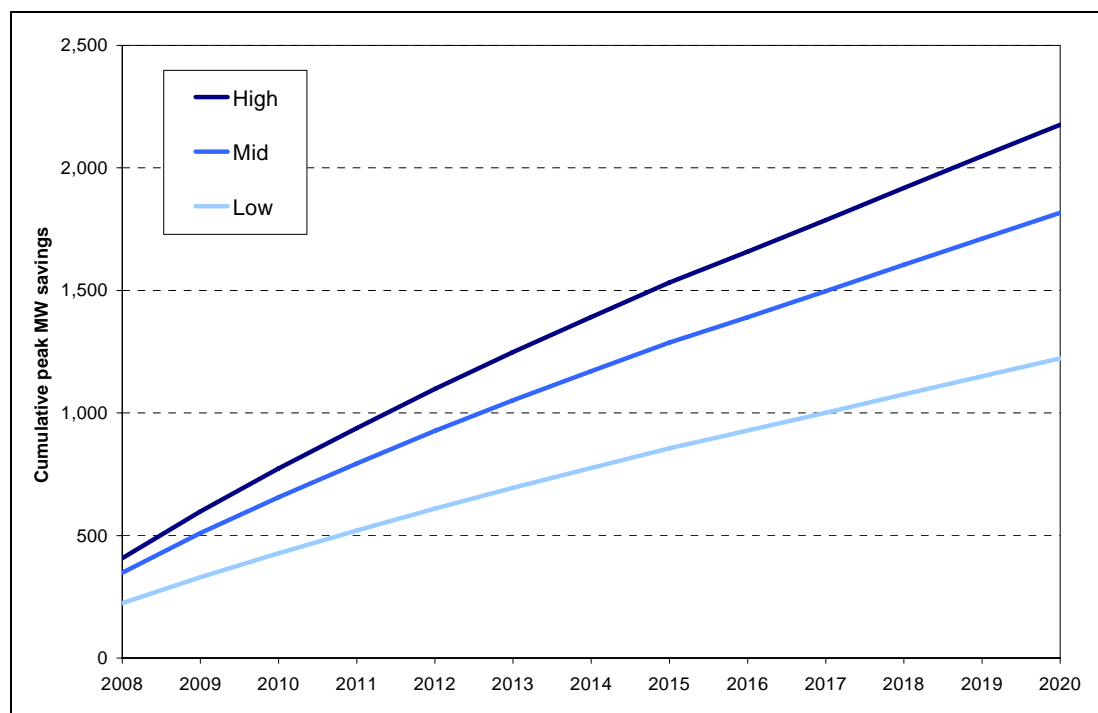


Figure E2-9. Naturally-occurring potential by sector and vintage in PG&E

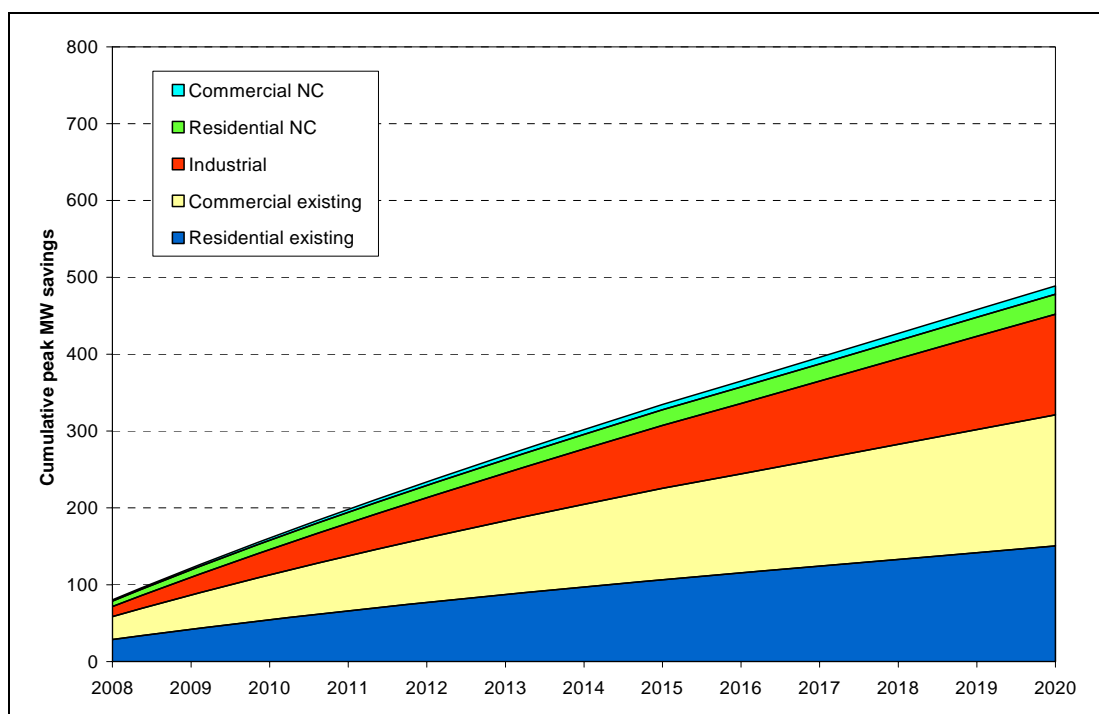


Table E2-13. Naturally-occurring potential in the residential sector by end use and vintage in PG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	13	11	9	0	0	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	11	7	4	3	2	1
Freezer	2	1	1	1	0	0
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	103	82	62	9	7	5
Lighting	123	49	39	39	16	12
Total	251	150	114	53	26	19

Table E2-14. Naturally-occurring potential in the commercial sector by end use and vintage in PG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	121	97	73	7	6	4
Space Heating	0	0	0	0	0	0
Ventilation	2	2	1	2	2	1
Water Heating	0	0	0	0	0	0
Com Cooking	0	0	0	0	0	0
Refrigeration	28	26	21	0	0	0
Interior Lighting	56	46	37	4	3	2
Office Equipment	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Total	207	171	132	14	11	8

Table E2-15. Naturally-occurring potential in the industrial sector by end use in PG&E (cumulative peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	2	2	1
Process Cooling	2	2	1
Pumps	33	27	20
Fans	6	5	4
Compressed Air	27	21	16
Process Drives	4	3	2
Industrial Lighting	22	18	13
HVAC	18	15	11
Industrial Other	0	0	0
Agriculture	48	39	29
Total	164	131	98

Figure E2-10. Uncertainty estimate for total naturally-occurring potential in PG&E

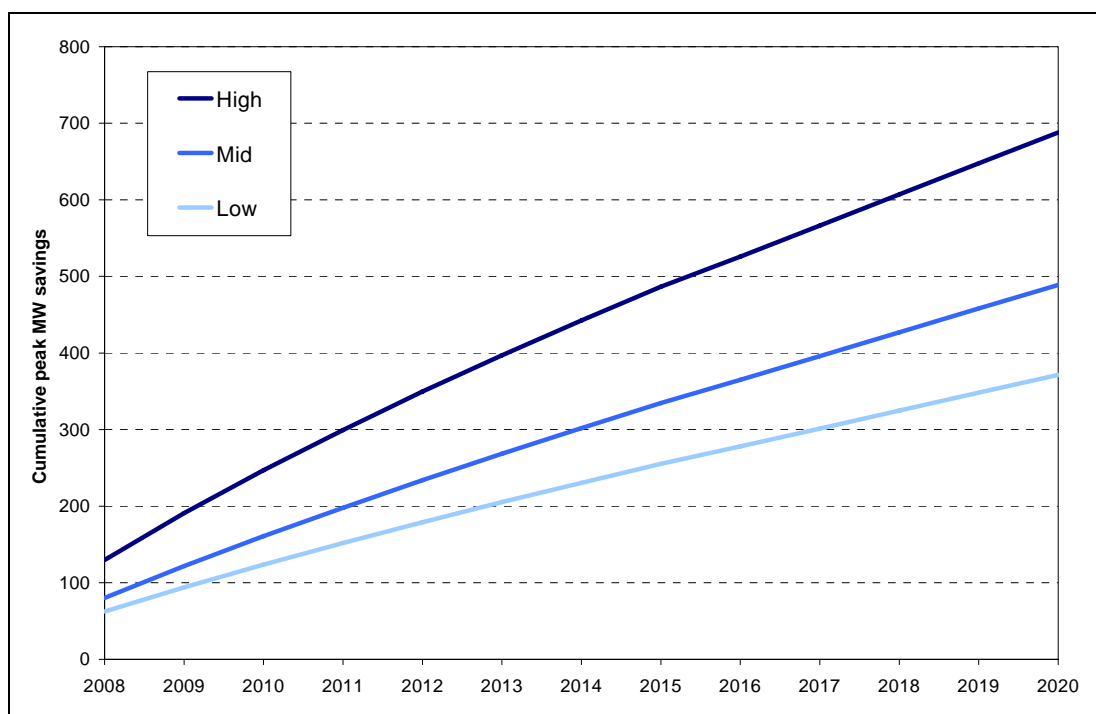


Figure E2-11. Estimated potential savings from BBEES initiatives in PG&E (gross savings incremental to base market potential)

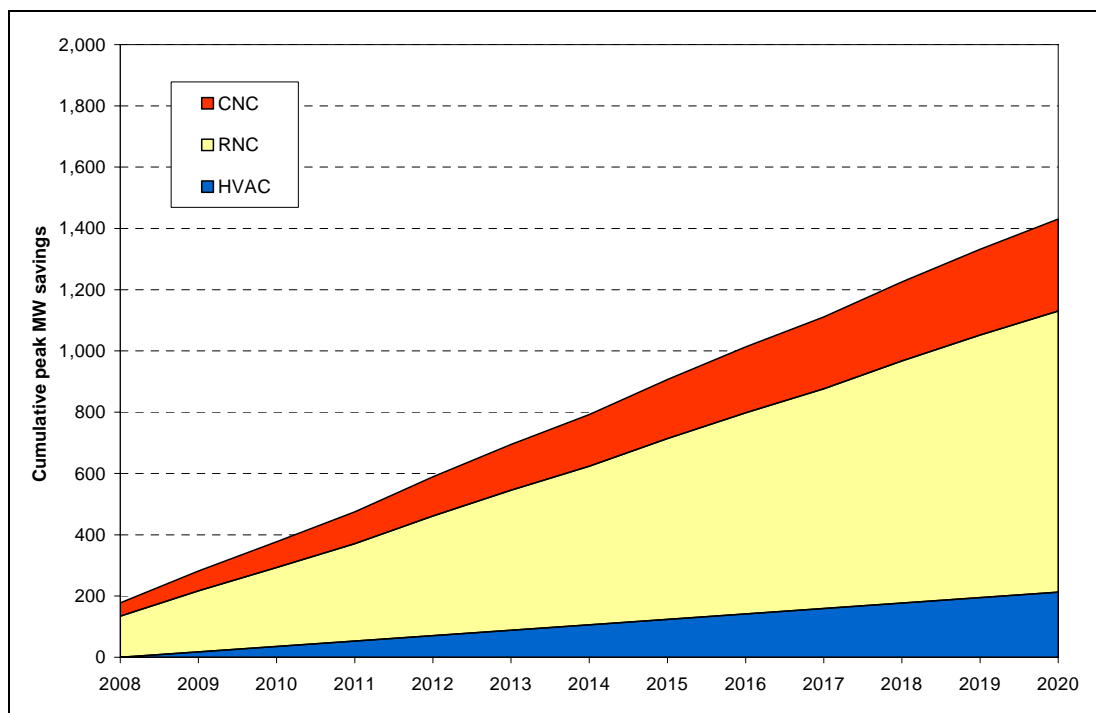


Figure E2-12. Uncertainty estimate for potential savings from all BB initiatives in PG&E (gross savings incremental to base market potential)

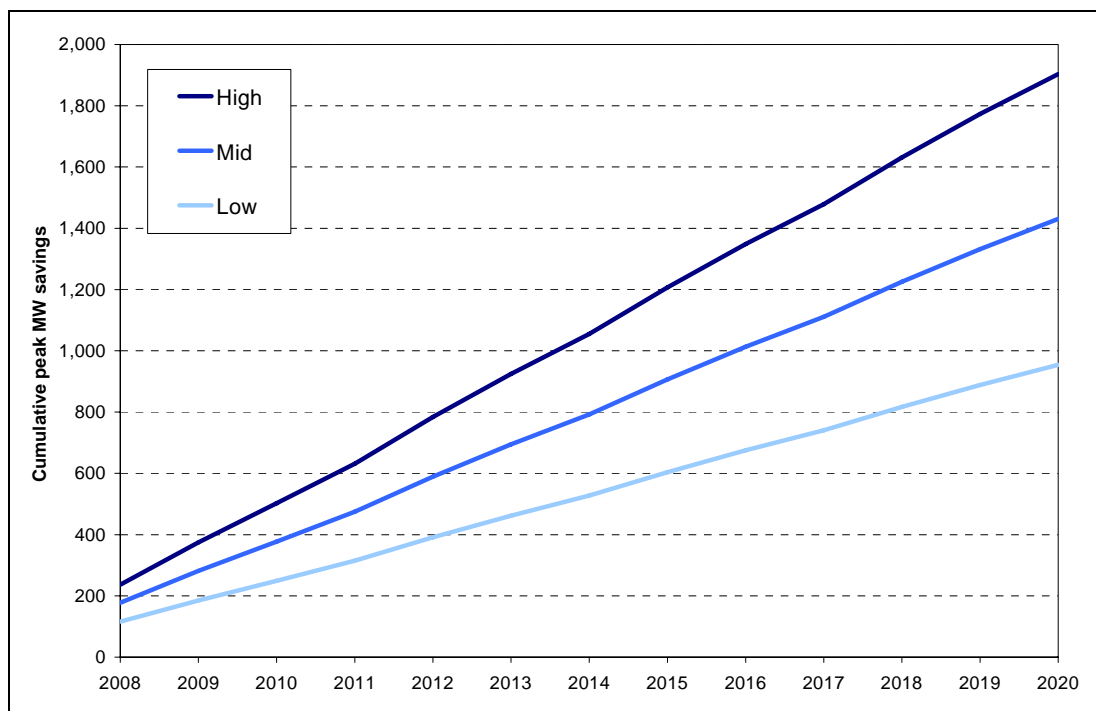


Figure E2-13. Impact of Huffman Bill on base market potential for lighting in PG&E (gross savings)

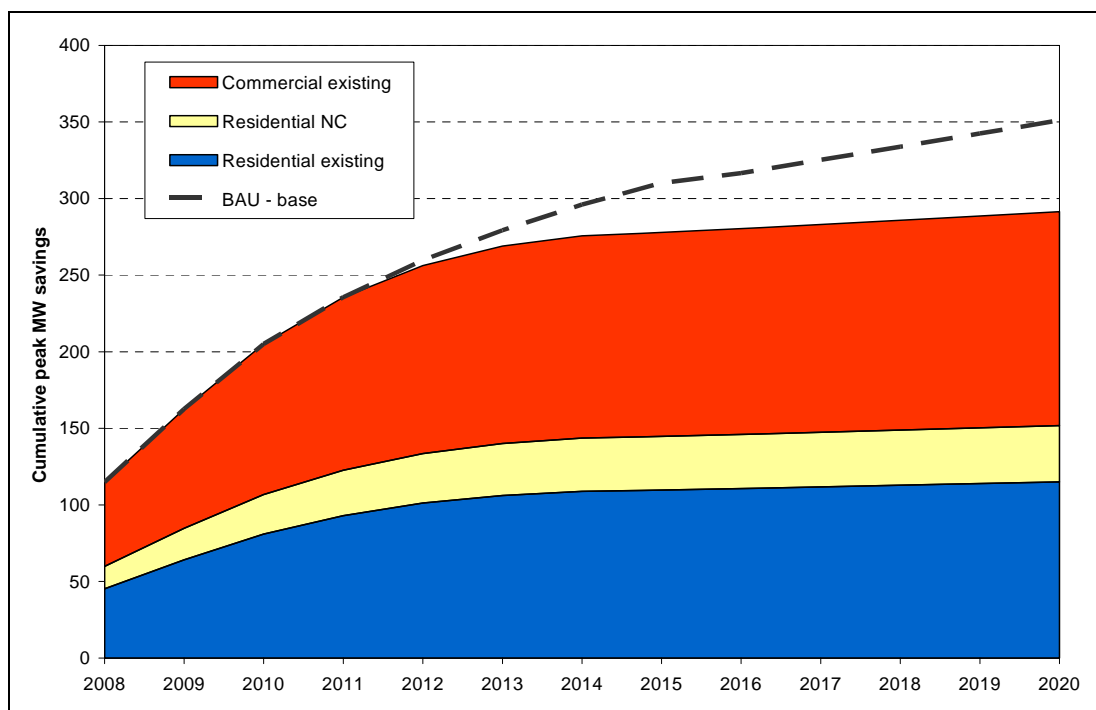


Figure E2-14. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction in PG&E (gross savings)

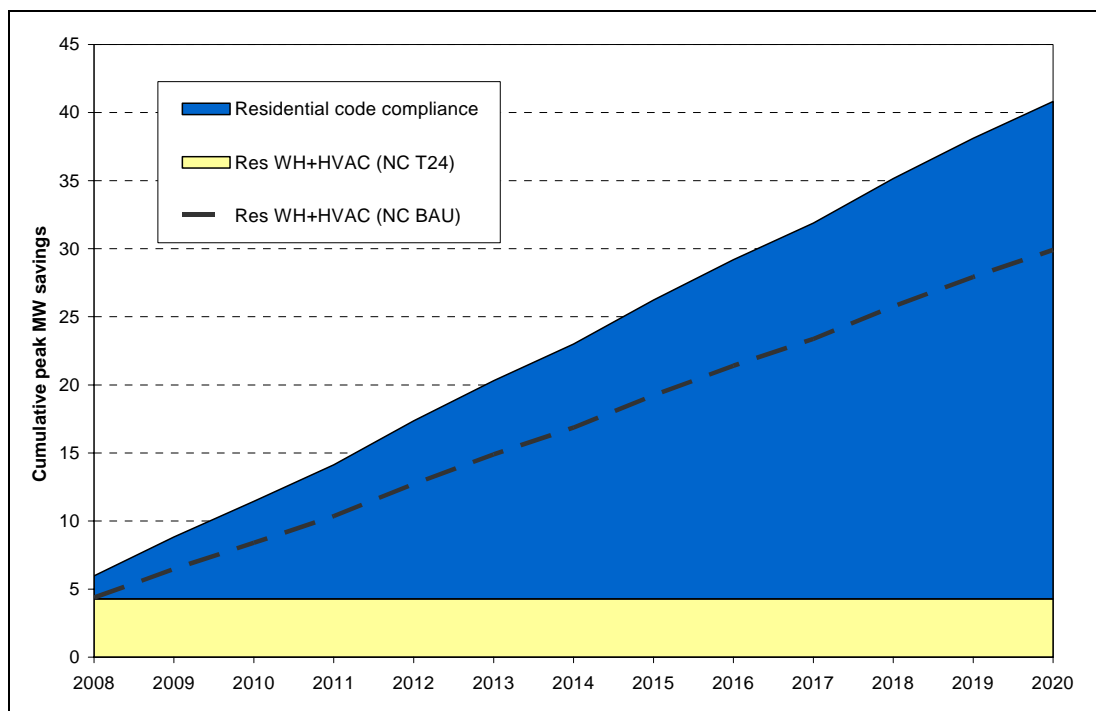


Figure E2-15. Total impact of future codes and standards on base market potential of IOU programs in PG&E (gross savings)

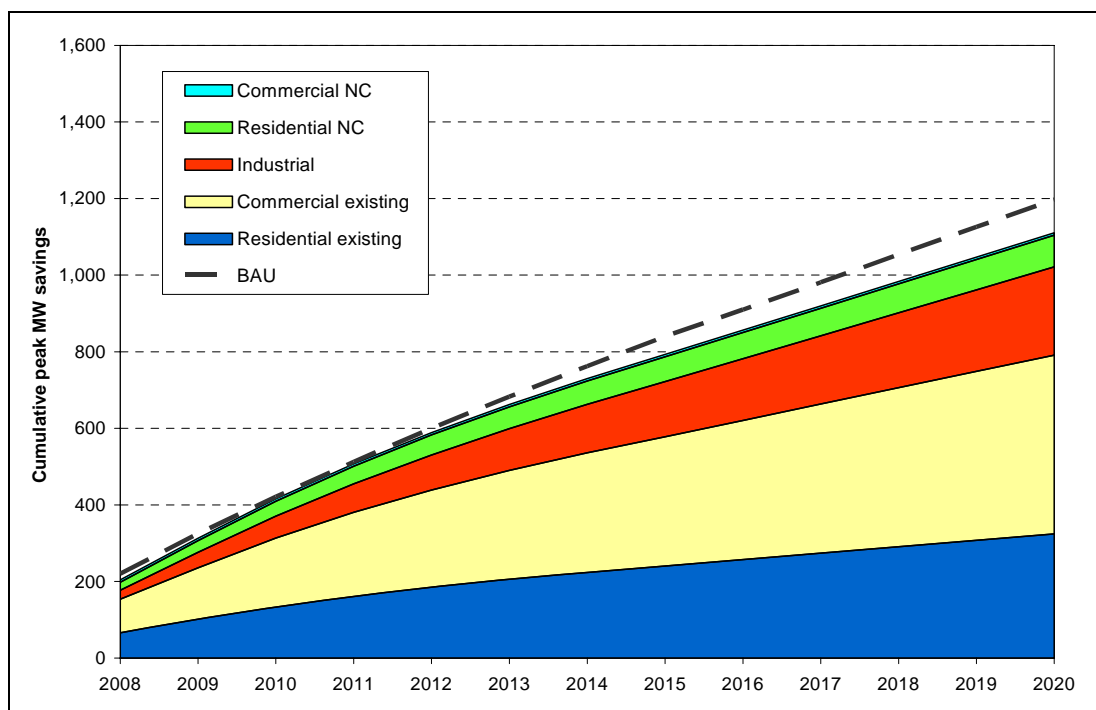


Figure E2-16. Uncertainty estimate of total base market potential of IOU programs after accounting for impacts of future codes and standards in PG&E (gross savings)

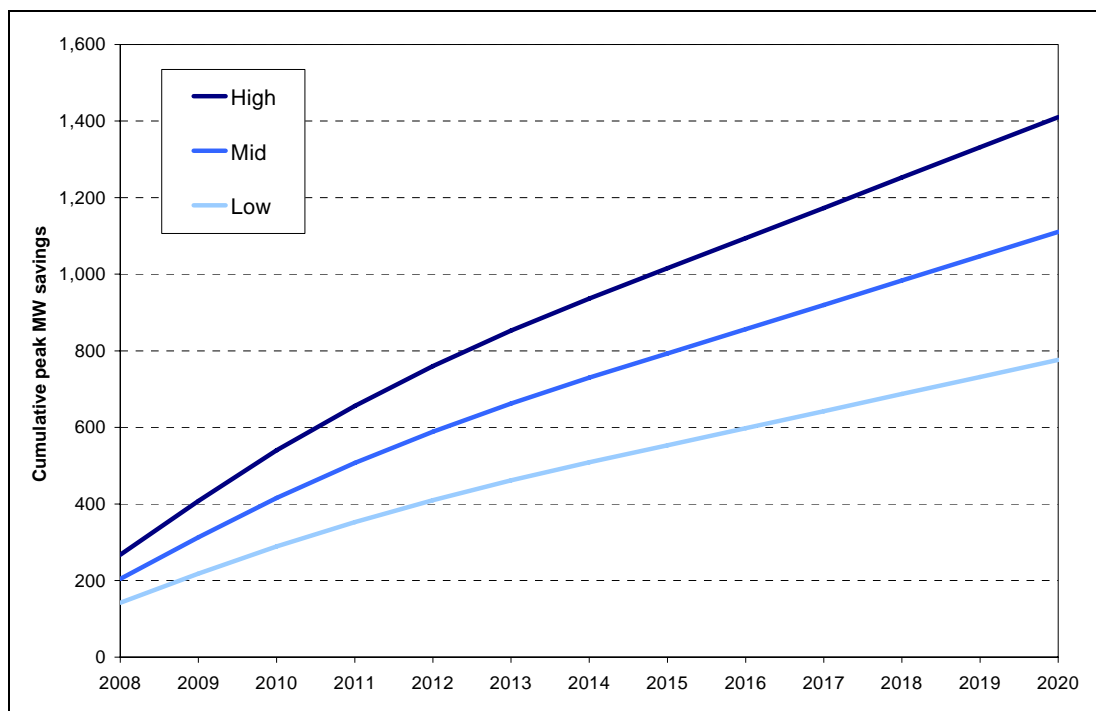


Figure E2-17. Estimated potential lighting savings from implementation of the Huffman Bill in PG&E (gross savings incremental to C&S-adjusted base market potential)

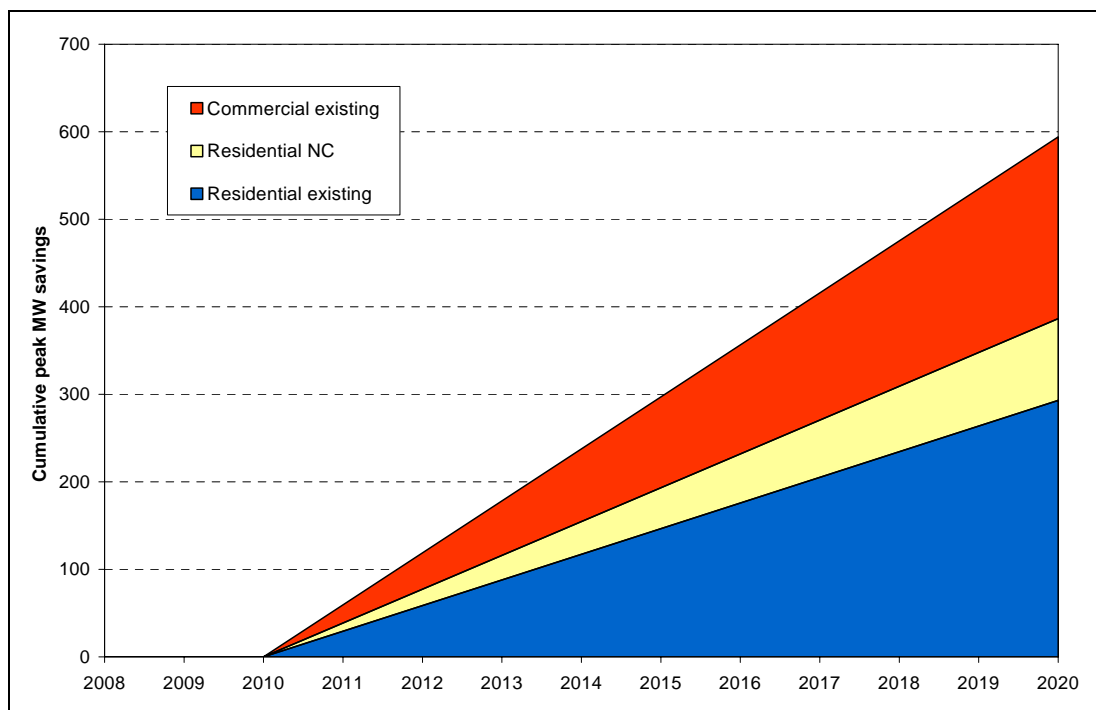


Figure E2-18. Estimated potential savings from implementation of the revisions to Title 24 in PG&E (gross savings incremental to C&S-adjusted base market potential)

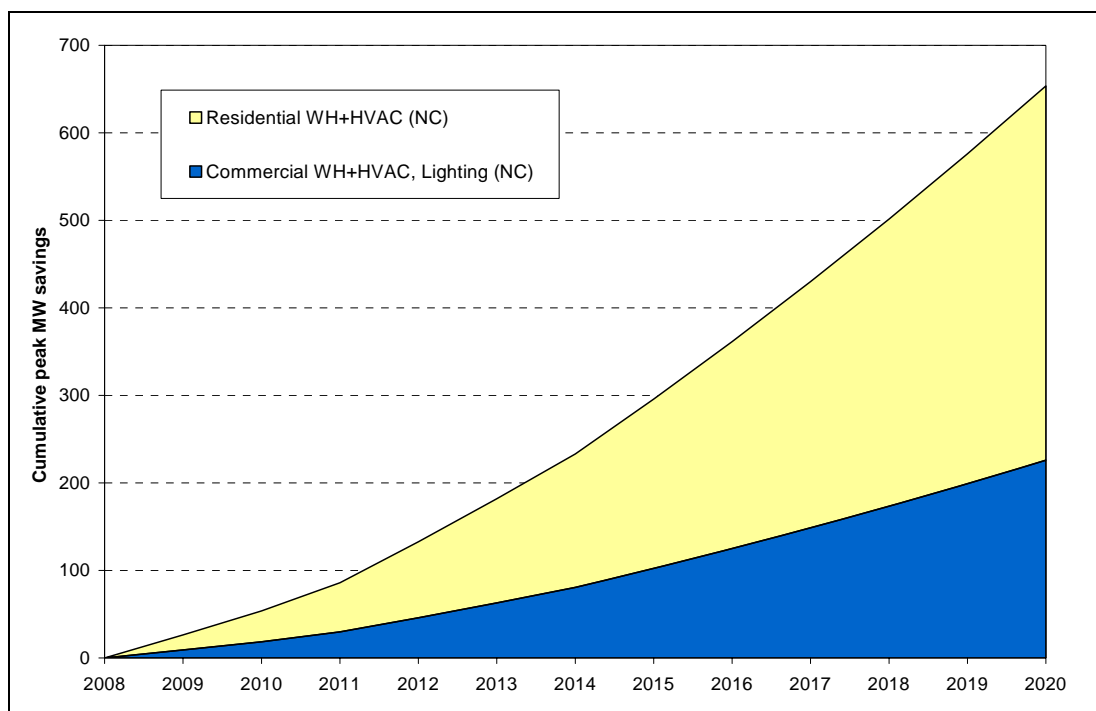


Figure E2-19. Estimated potential savings from implementation of the revised federal appliance standards in PG&E (gross savings incremental to C&S-adjusted base market potential)

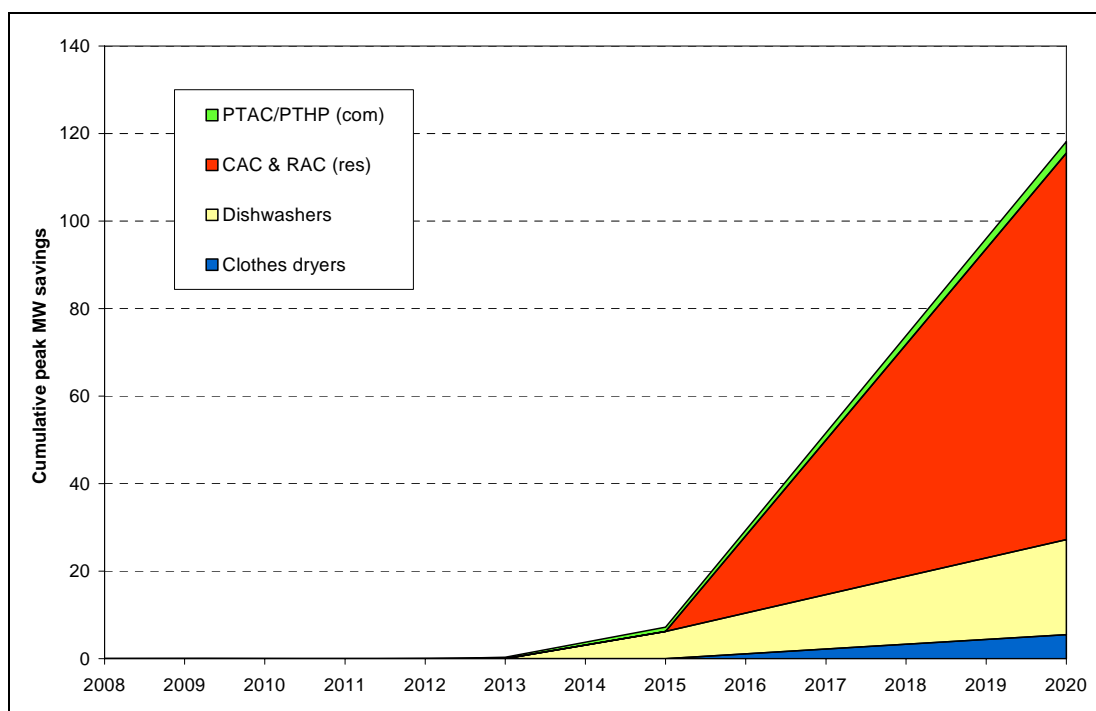


Figure E2-20. Estimated potential savings from future codes and standards in PG&E (gross savings incremental to C&S-adjusted base market potential)

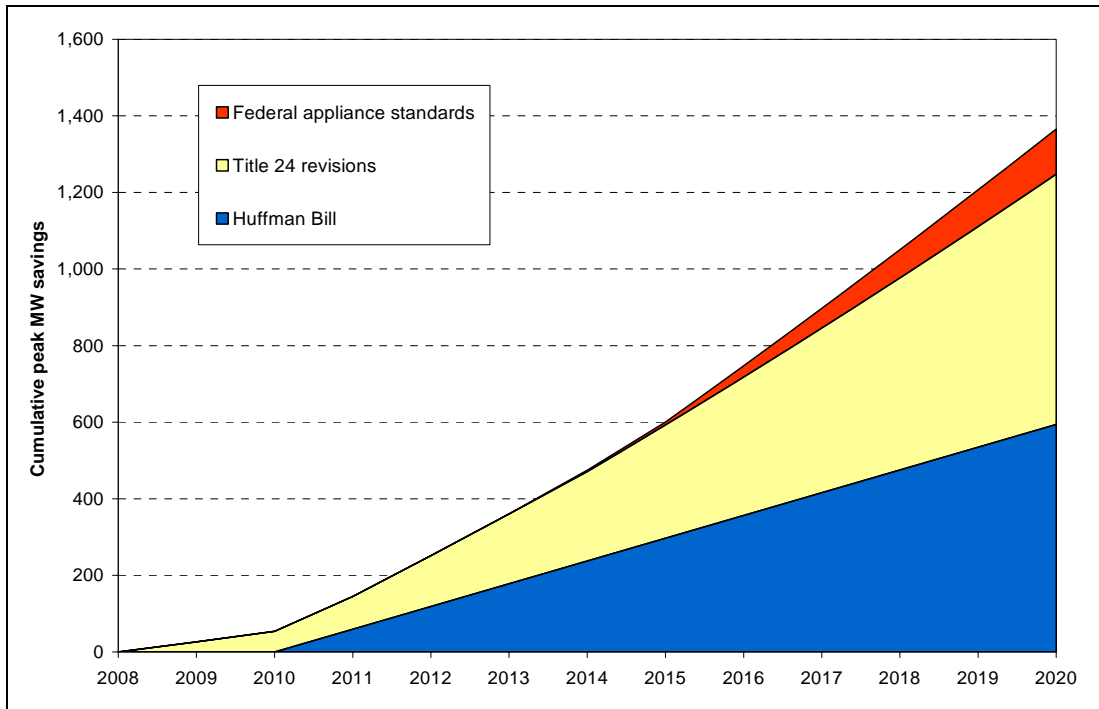


Figure E2-21. Uncertainty estimate of total potential savings from future codes and standards in PG&E (gross savings incremental to C&S-adjusted base market potential)

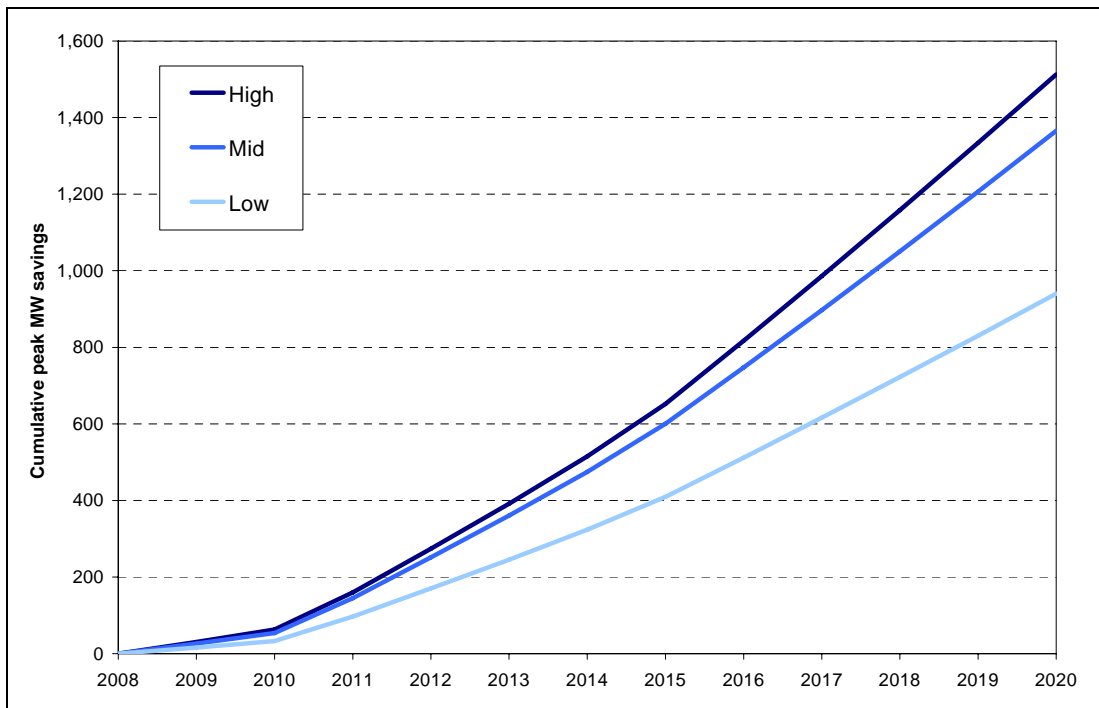


Figure E2-22. Estimated potential savings from all scenarios in PG&E (gross savings assuming base-funding for IOU programs)

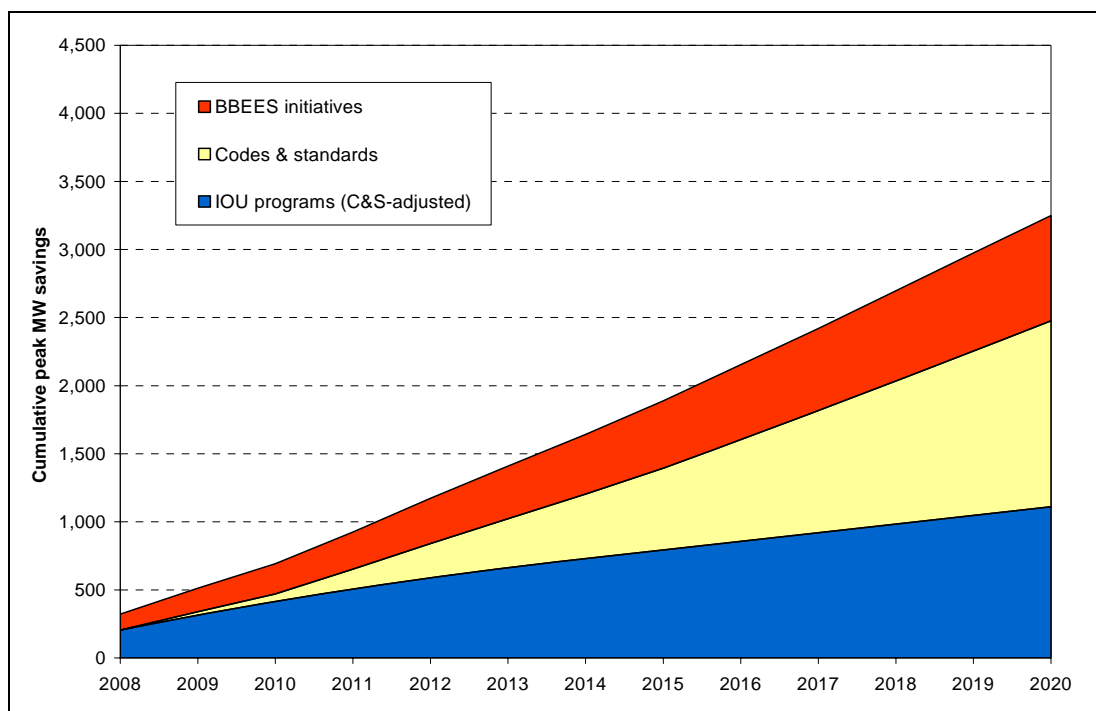


Figure E2-23. Estimated potential savings from all scenarios in PG&E (gross savings assuming full-funding for IOU programs)

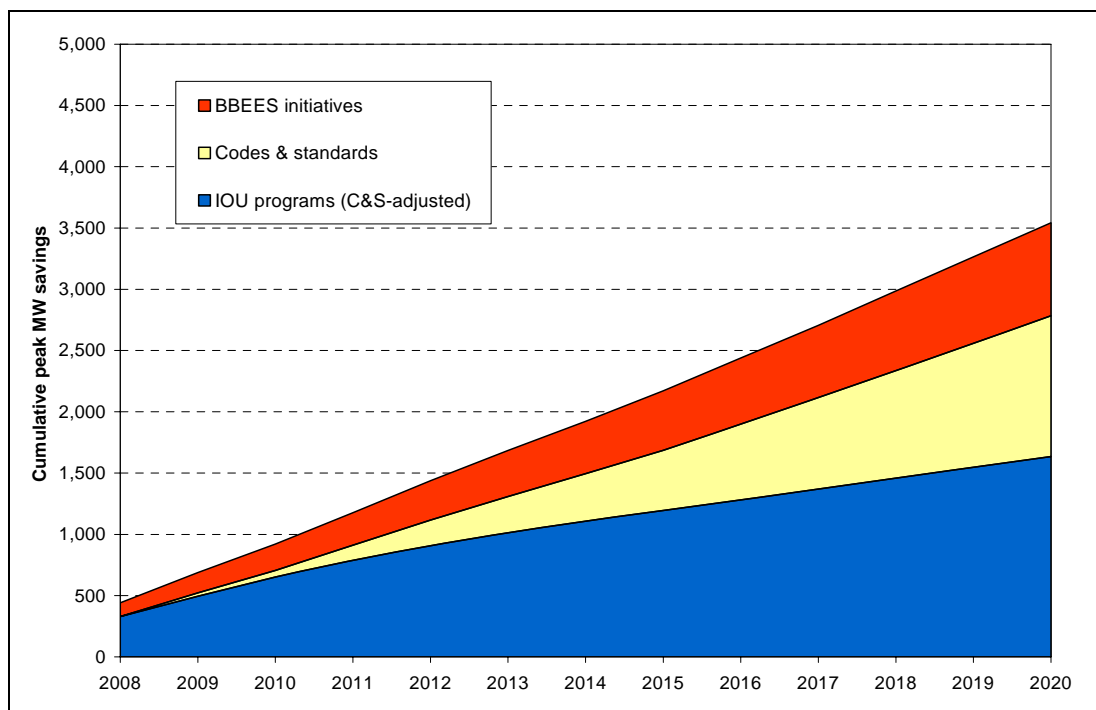


Table E2-16. Summary of estimated savings potential for each scenario in PG&E (cumulative gross peak MW savings in 2020)

Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	HVAC	196	146	109	196	146	109
	RNC	735	516	366	729	510	360
	CNC	183	111	90	174	103	81
	Total	1,113	774	565	1,099	759	550
Huffman Bill	Res existing	293	293	220	167	167	125
	RNC	93	93	70	53	53	40
	CNC	208	208	156	159	159	119
	Total	594	594	446	378	378	284
Title 24 revisions	RNC	517	428	246	517	428	246
	CNC	249	226	154	249	226	154
	Total	765	654	400	765	654	400
Federal standards	Clothes dryers	7	5	4	7	5	4
	Dishwashers	26	22	17	26	22	17
	CAC & RAC (res)	117	88	71	117	88	71
	PTAC/PTHP (com)	3	3	2	3	3	2
	Total	153	118	95	153	118	95
IOU code compliance (res)	Total	58	37	23	57	37	25
IOU programs (C&S-adjusted)	Res existing	437	324	221	613	515	304
	Com existing	551	467	327	774	655	454
	Industrial	288	230	173	396	317	238
	RNC	127	83	51	166	132	69
	CNC	8	6	5	19	15	11
	Total	1,410	1,111	776	1,969	1,634	1,076
TOTAL GROSS SAVINGS POTENTIAL		4,095	3,287	2,304	4,421	3,580	2,429
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		<i>649</i>	<i>473</i>	<i>351</i>	<i>649</i>	<i>473</i>	<i>351</i>

Figure E2-24. Uncertainty estimate of total potential savings from all scenarios in PG&E (gross savings assuming base-funding for IOU programs)

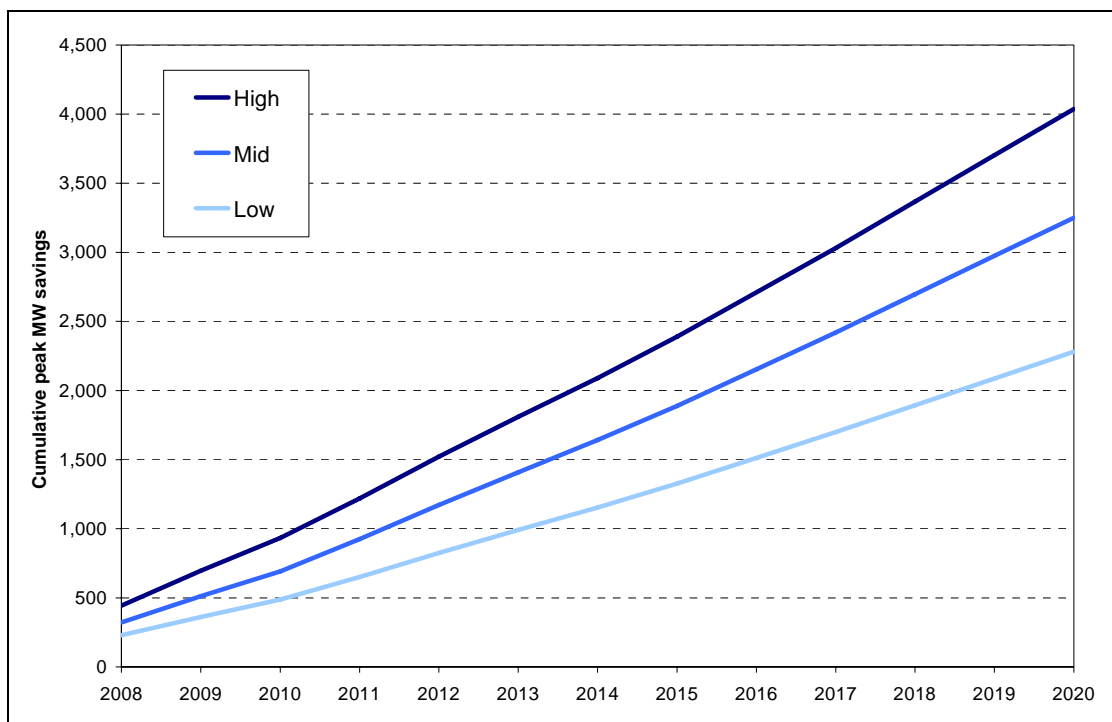


Figure E2-25. Uncertainty estimate of total potential savings from all scenarios in PG&E (gross savings assuming full-funding for IOU programs)

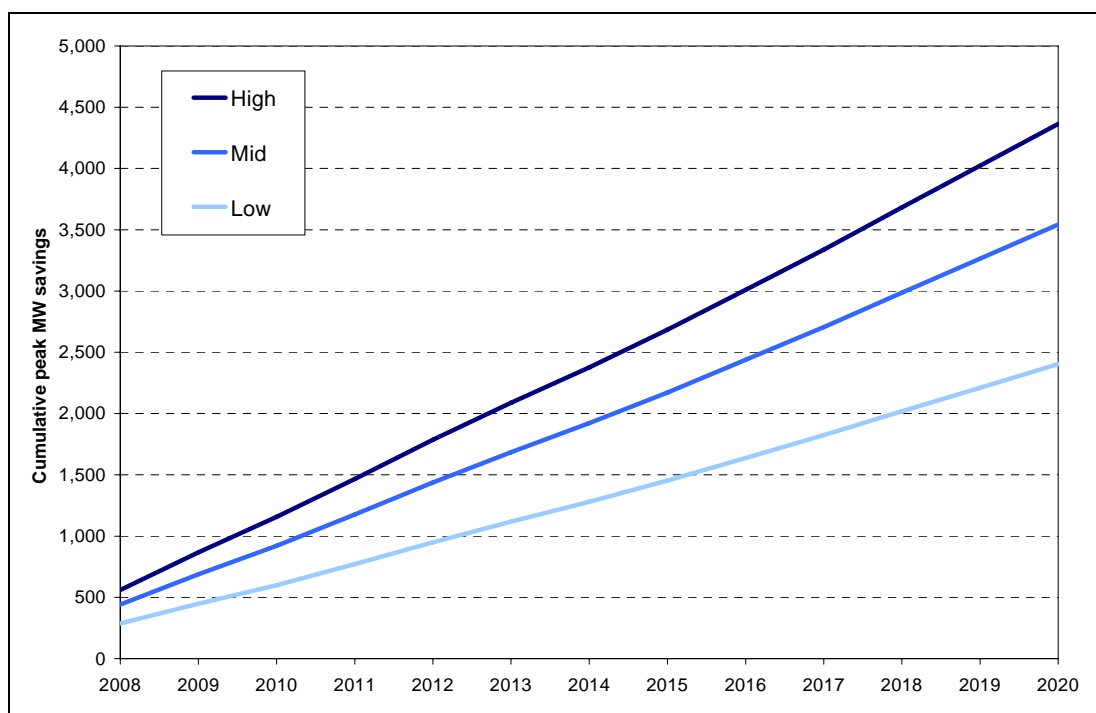


Figure E2-26. Cumulative peak demand savings from High, Mid and Low Cases in PG&E compared to current goals through 2013

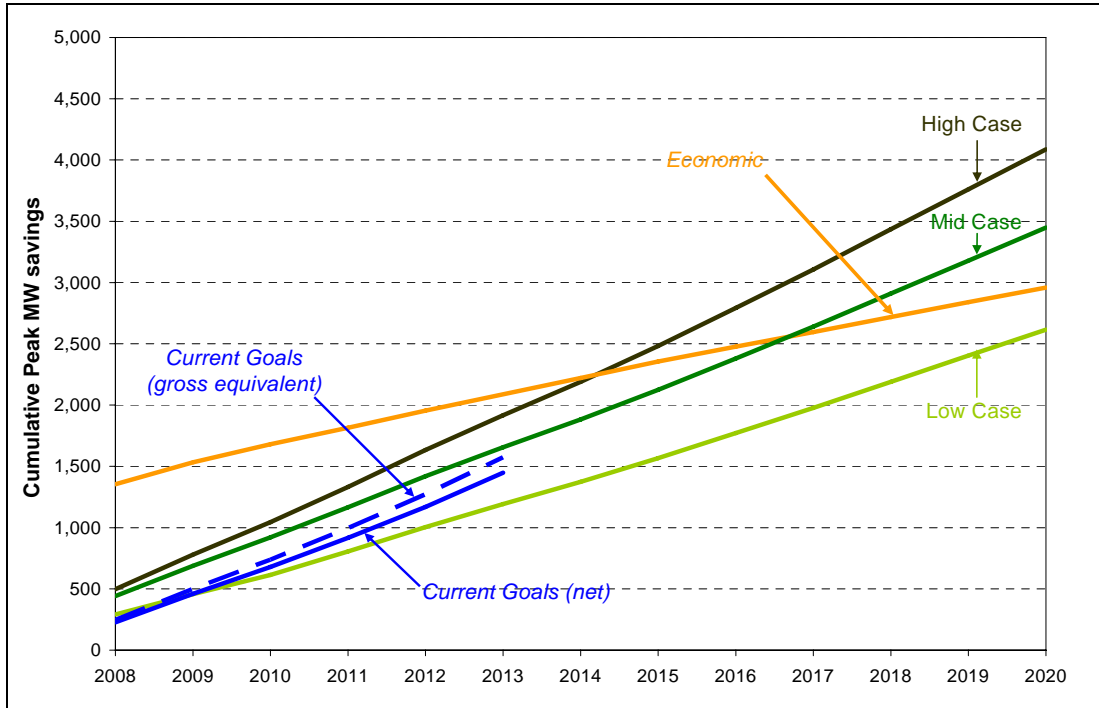


Figure E2-27. Composition of peak demand savings across mechanisms in the Low Case in PG&E

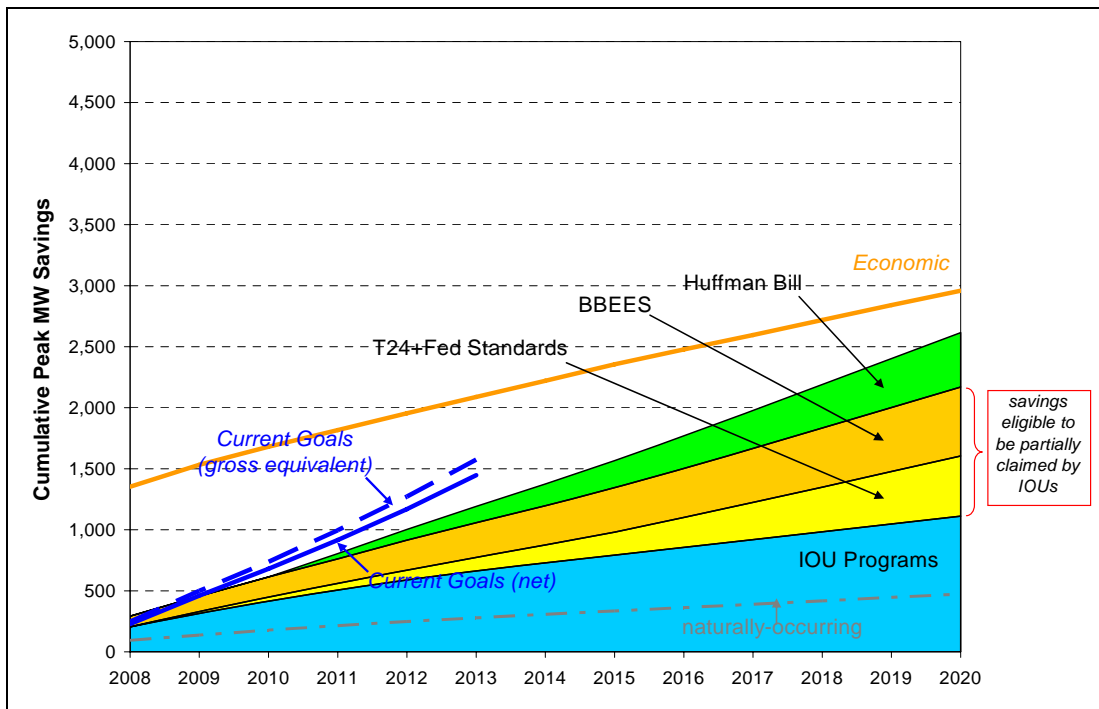


Figure E2-28. Composition of peak demand savings across mechanisms in the Mid Case in PG&E

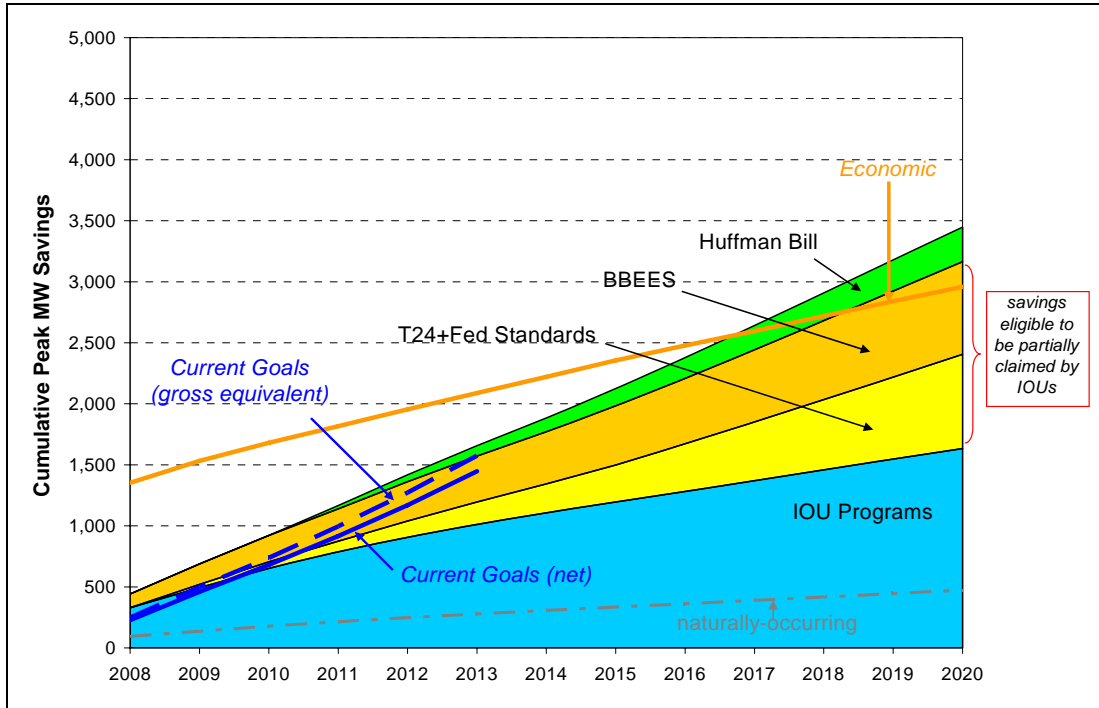


Figure E2-29. Composition of peak demand savings across mechanisms in the High Case in PG&E

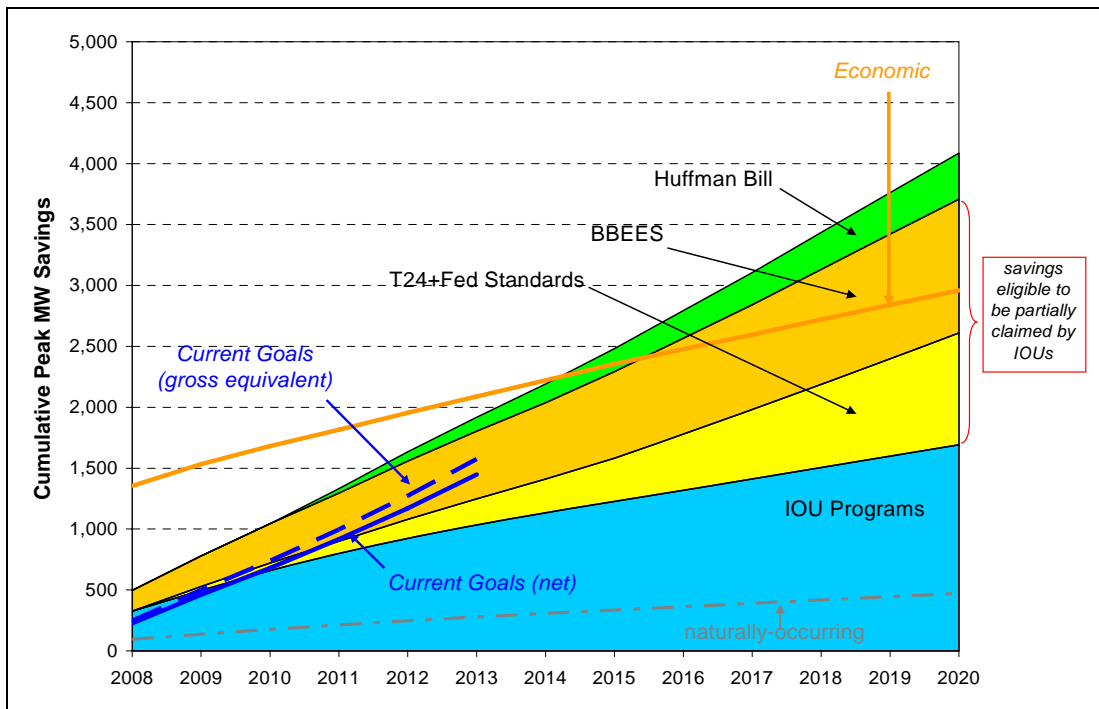


Table E2-17. Estimated peak demand savings in the High, Mid, and Low straw man cases in PG&E (cumulative peak MW savings in 2020)

Savings mechanism:	Low Case	Mid Case	High Case
Utility programs (gross)	1111	1634	1691
Huffman Bill	446	284	378
Codes & standards	494	772	919
BBEES initiatives	565	759	1099
Total	2615	3449	4087

Table E2-18. Cumulative peak MW savings by saving mechanism in the High, Mid, and Low straw man cases in PG&E over time

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Huffman Bill	0	0	0	45	89	134	178	223	267	312	356	401	446
	T24+Federal Standards	0	16	33	53	81	112	146	187	245	304	366	429	494
	BBEES	87	128	165	201	244	284	321	364	403	441	484	525	565
	IOU Programs	205	313	416	507	589	663	730	793	856	920	984	1047	1111
Mid	Huffman Bill	0	0	0	28	57	85	113	142	170	199	227	255	284
	T24+Federal Standards	0	26	54	86	133	182	237	303	391	482	575	672	772
	BBEES	113	167	216	265	323	376	426	485	539	590	649	705	759
	IOU Programs	329	495	652	788	907	1013	1107	1195	1282	1370	1458	1546	1634
High	Huffman Bill	0	0	0	38	76	113	151	189	227	265	303	340	378
	T24+Federal Standards	0	31	63	101	156	213	278	355	461	570	683	799	919
	BBEES	172	252	324	395	479	556	627	711	787	860	943	1023	1099
	IOU Programs	326	497	658	799	924	1034	1134	1227	1319	1411	1505	1598	1691
Benchmarks	<i>Economic</i>	1354	1533	1681	1816	1954	2089	2221	2355	2477	2596	2719	2840	2959
	<i>Current IOU Goals (gross equivalent)</i>	248	500	739	996	1272	1574							
	<i>Current IOU Goals (net)</i>	228	460	680	916	1170	1448							

Appendix E3

Peak Demand Savings Results for SCE

Figure E3-1. Technical potential by sector and vintage in SCE

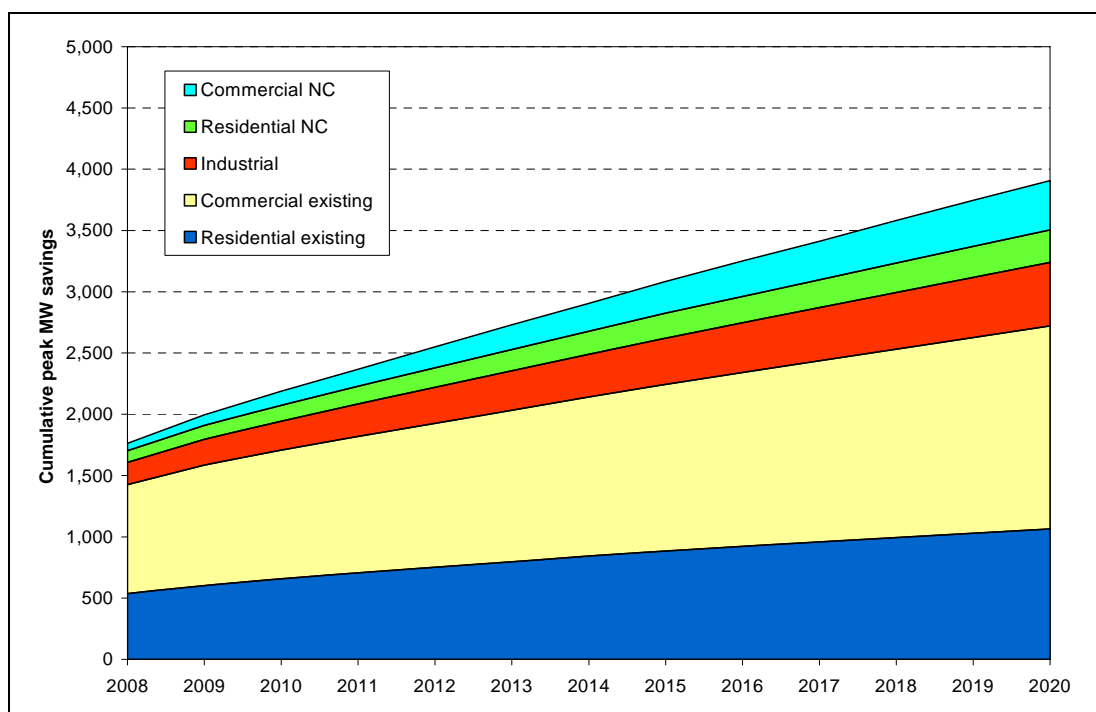


Table E3-1. Technical potential in the residential sector by end use and vintage in SCE (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	29	26	21	1	0	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	42	38	27	9	8	6
Freezer	0	0	0	0	0	0
Pool Pump	3	3	2	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	697	524	419	195	156	117
Lighting	521	473	331	111	101	70
Total	1,293	1,065	801	315	265	193

Table E3-2. Technical potential in the commercial sector by end use and vintage in SCE (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	836	697	557	264	212	159
Space Heating	0	0	0	1	1	1
Ventilation	79	66	53	67	54	40
Water Heating	0	0	0	5	4	3
Com Cooking	84	70	56	0	0	0
Refrigeration	200	200	100	0	0	0
Interior Lighting	619	563	450	165	132	99
Office Equipment	56	51	41	0	0	0
Exterior Lighting	3	3	2	2	1	1
Miscellaneous	6	6	6	0	0	0
Total	1,884	1,656	1,266	504	403	302

Table E3-3. Technical potential in the industrial sector by end use in SCE (cumulative peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	21	9	7
Process Cooling	50	40	30
Pumps	136	123	81
Fans	53	43	32
Compressed Air	90	72	54
Process Drives	40	32	24
Industrial Lighting	117	94	70
HVAC	19	15	11
Industrial Other	6	5	4
Agriculture	108	86	65
Total	640	518	378

Figure E3-2. Uncertainty estimate for total technical potential in SCE

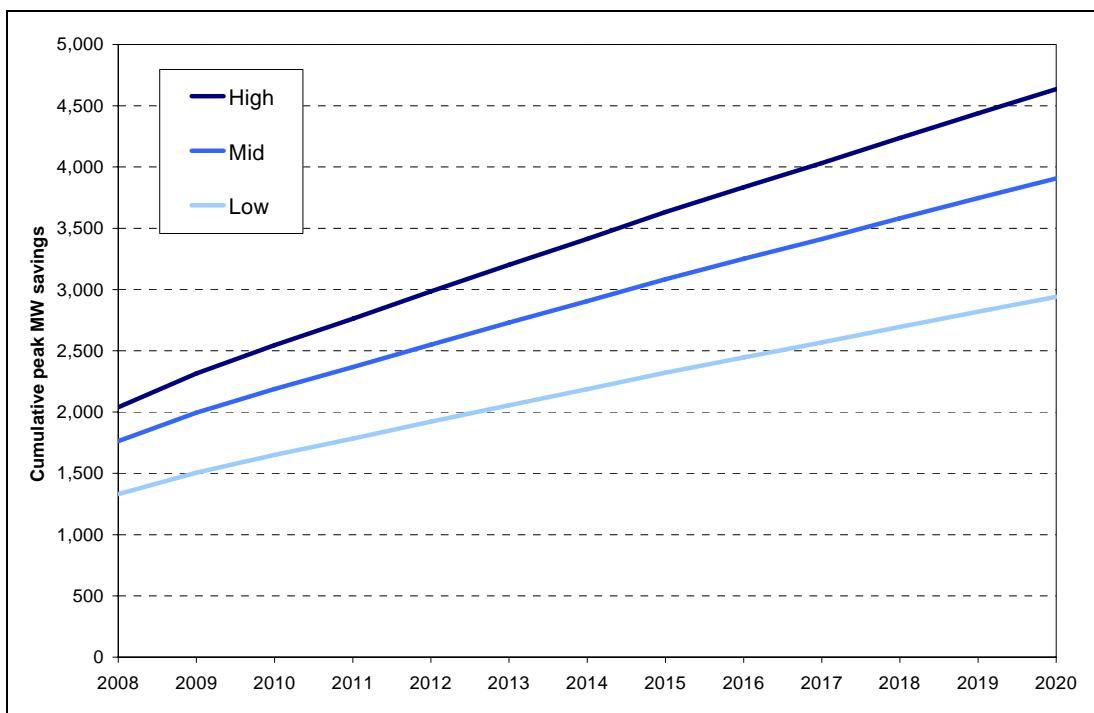


Figure E3-3. Economic potential by sector and vintage in SCE

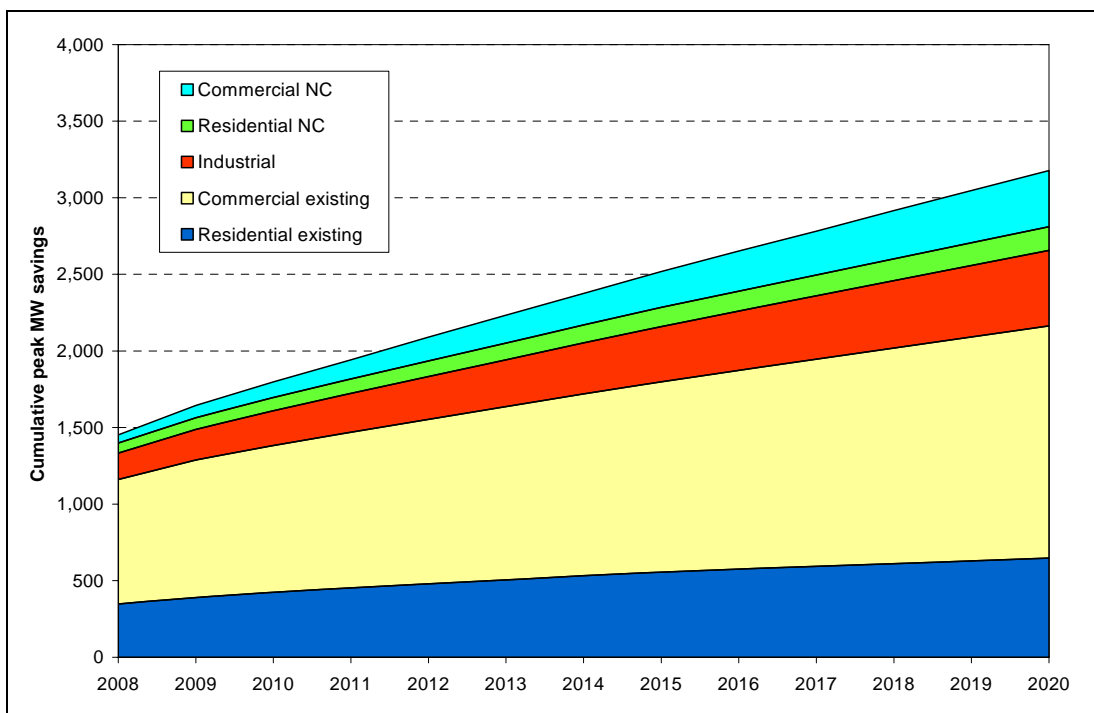


Table E3-4. Economic potential in the residential sector by end use and vintage in SCE (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	12	8	6	0	0	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	0	0	0	0	0	0
Freezer	0	0	0	0	0	0
Pool Pump	3	3	2	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	279	233	186	85	68	51
Lighting	444	404	283	94	86	60
Total	739	647	477	180	154	111

Table E3-5. Economic potential in the commercial sector by end use and vintage in SCE (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	779	650	520	235	188	141
Space Heating	0	0	0	1	1	1
Ventilation	78	65	52	62	49	37
Water Heating	0	0	0	4	3	2
Com Cooking	59	49	40	0	0	0
Refrigeration	189	189	94	0	0	0
Interior Lighting	564	513	410	153	122	92
Office Equipment	48	43	35	0	0	0
Exterior Lighting	1	1	1	1	1	1
Miscellaneous	6	6	6	0	0	0
Total	1,725	1,516	1,157	457	365	274

**Table E3-6. Economic potential in the industrial sector by end use in SCE
(cumulative peak MW savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	21	9	7
Process Cooling	34	27	20
Pumps	133	121	80
Fans	50	40	30
Compressed Air	87	70	52
Process Drives	37	29	22
Industrial Lighting	114	91	69
HVAC	19	15	11
Industrial Other	6	5	4
Agriculture	108	86	65
Total	610	494	360

Figure E3-4. Uncertainty estimate for total economic potential in SCE

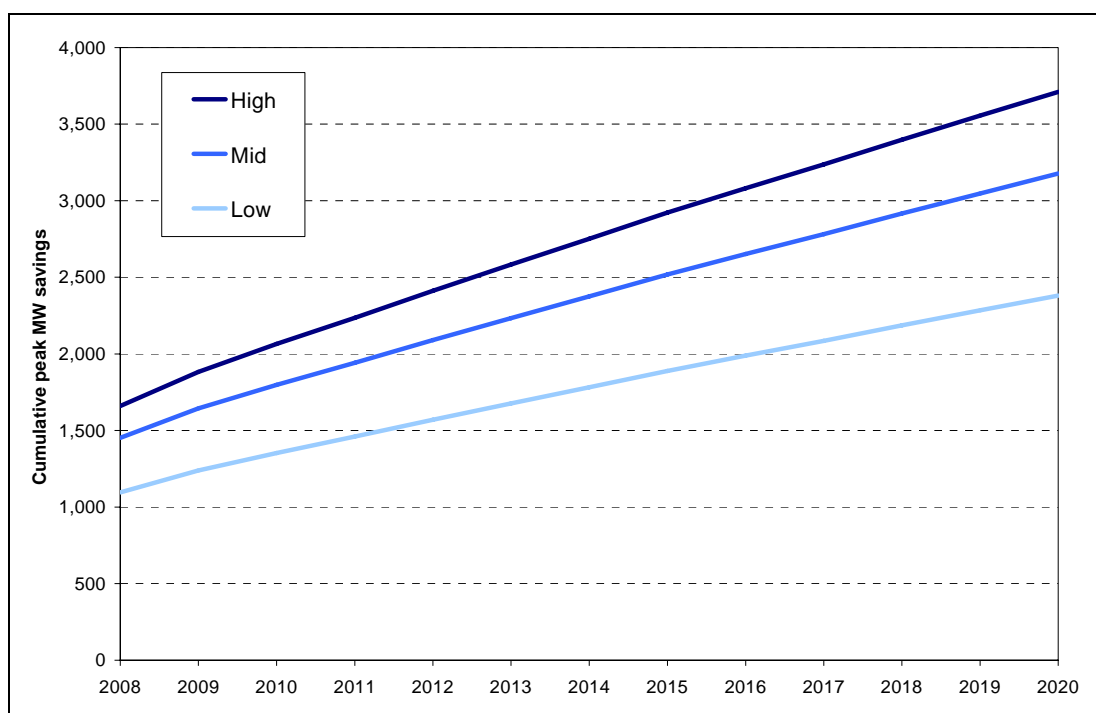


Figure E3-5. Base market potential by sector and vintage in SCE (gross savings)

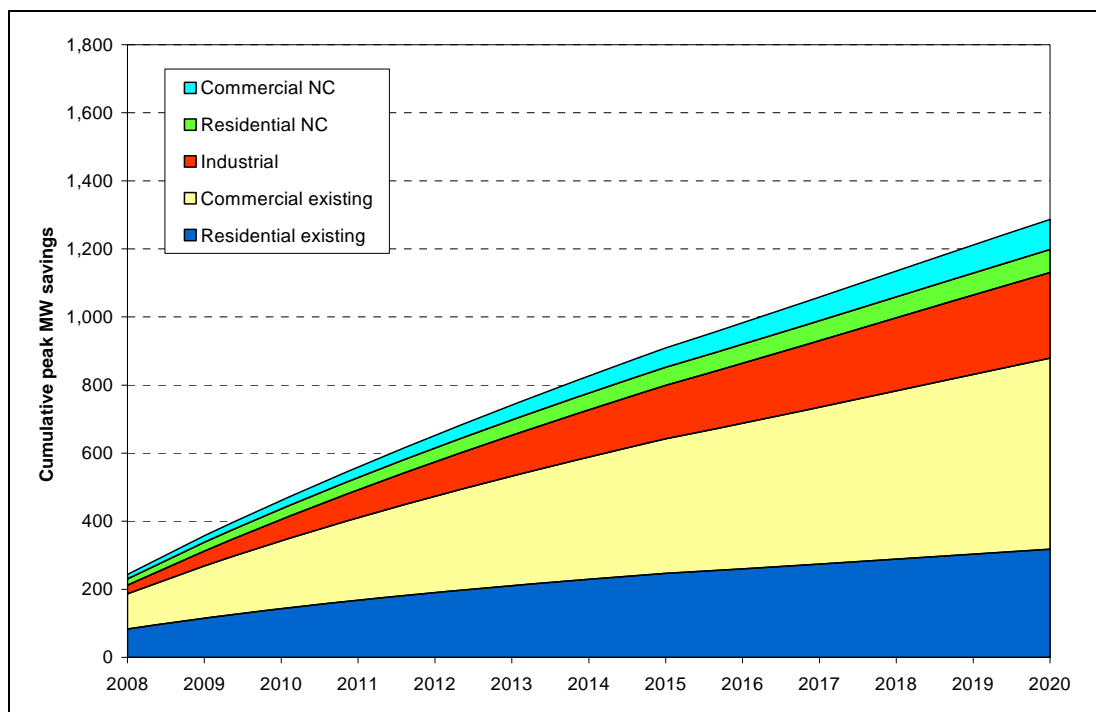


Table E3-7. Base market potential in the residential sector by end use and vintage in SCE (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	1	1	1	0	0	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	52	34	17	11	7	4
Freezer	16	10	5	3	2	1
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	106	85	64	23	18	14
Lighting	280	187	140	60	40	30
Total	455	318	227	97	68	48

Table E3-8. Base market potential in the commercial sector by end use and vintage in SCE (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	345	287	172	59	47	35
Space Heating	0	0	0	0	0	0
Ventilation	45	40	32	15	12	9
Water Heating	0	0	0	1	1	1
Com Cooking	2	1	1	0	0	0
Refrigeration	61	55	44	0	0	0
Interior Lighting	207	172	138	35	28	21
Office Equipment	5	4	3	0	0	0
Exterior Lighting	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Total	663	561	392	111	89	66

Table E3-9. Base market potential in the industrial sector by end use in SCE (cumulative gross peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	4	3	2
Process Cooling	6	5	4
Pumps	76	61	45
Fans	19	15	11
Compressed Air	38	30	23
Process Drives	14	11	8
Industrial Lighting	57	46	34
HVAC	16	13	9
Industrial Other	1	1	1
Agriculture	83	67	50
Total	315	252	189

Figure E3-6. Uncertainty estimate for total base market potential in SCE (gross savings)

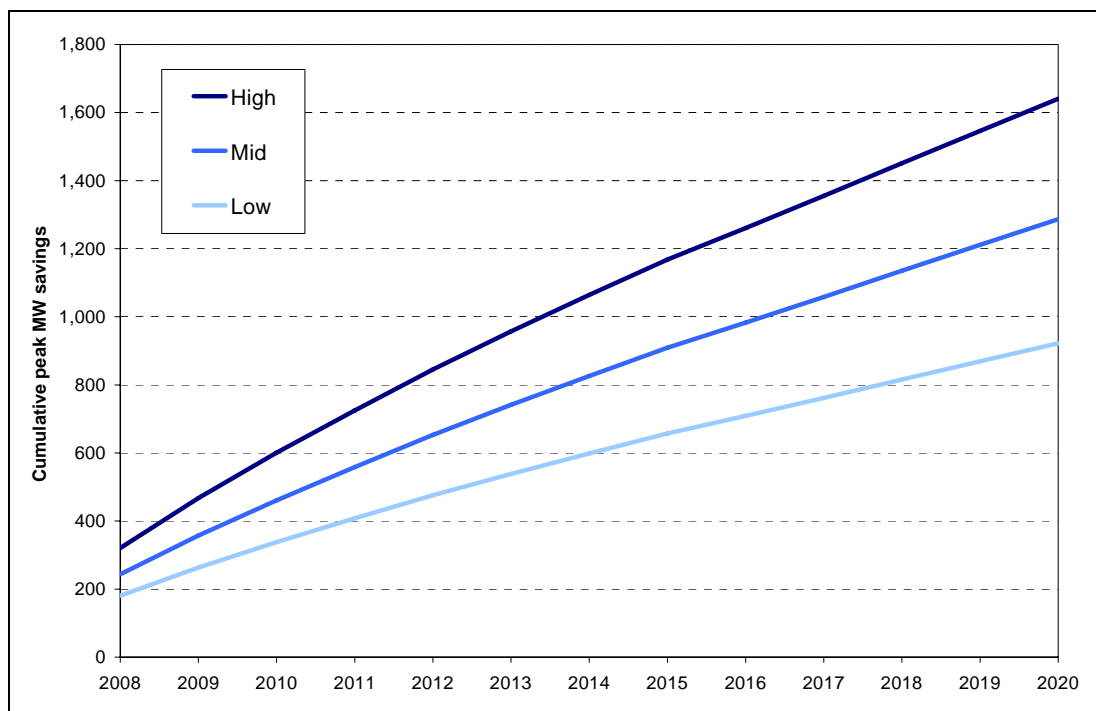


Figure E3-7. Full market potential by sector and vintage in SCE (gross savings)

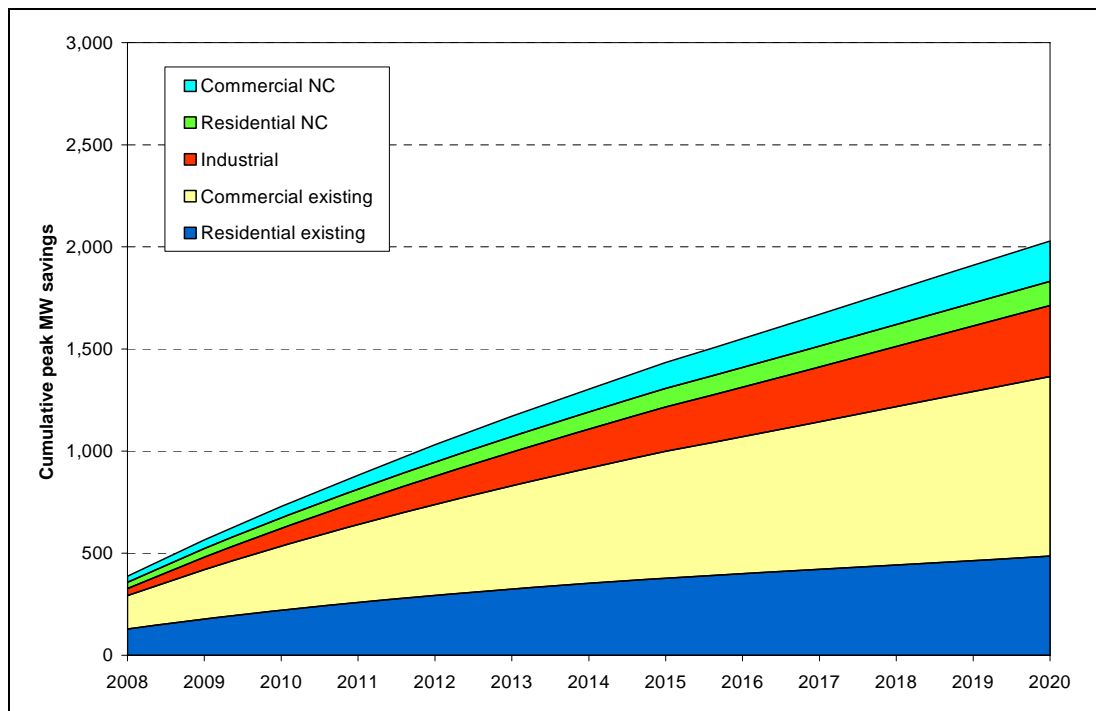


Table E3-10. Full market potential in the residential sector by end use and vintage in SCE (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	3	2	2	0	0	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	75	50	25	15	10	5
Freezer	24	16	8	5	3	2
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	162	129	97	54	43	32
Lighting	317	289	144	68	62	31
Total	581	486	276	142	118	70

Table E3-11. Full market potential in the commercial sector by end use and vintage in SCE (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	548	457	274	132	106	79
Space Heating	0	0	0	1	0	0
Ventilation	52	48	38	33	26	20
Water Heating	0	0	0	2	2	1
Com Cooking	4	4	3	0	0	0
Refrigeration	94	86	69	0	0	0
Interior Lighting	332	277	221	79	63	47
Office Equipment	7	7	5	0	0	0
Exterior Lighting	1	1	1	1	1	1
Miscellaneous	1	1	1	0	0	0
Total	1,040	879	612	247	198	148

**Table E3-12. Full market potential in the industrial sector by end use in SCE
(cumulative gross peak MW savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	7	5	4
Process Cooling	12	10	7
Pumps	100	80	60
Fans	32	25	19
Compressed Air	44	35	27
Process Drives	23	19	14
Industrial Lighting	96	77	58
HVAC	18	14	11
Industrial Other	2	2	1
Agriculture	98	79	59
Total	434	347	260

Figure E3-8. Uncertainty estimate for total full market potential in SCE (gross savings)

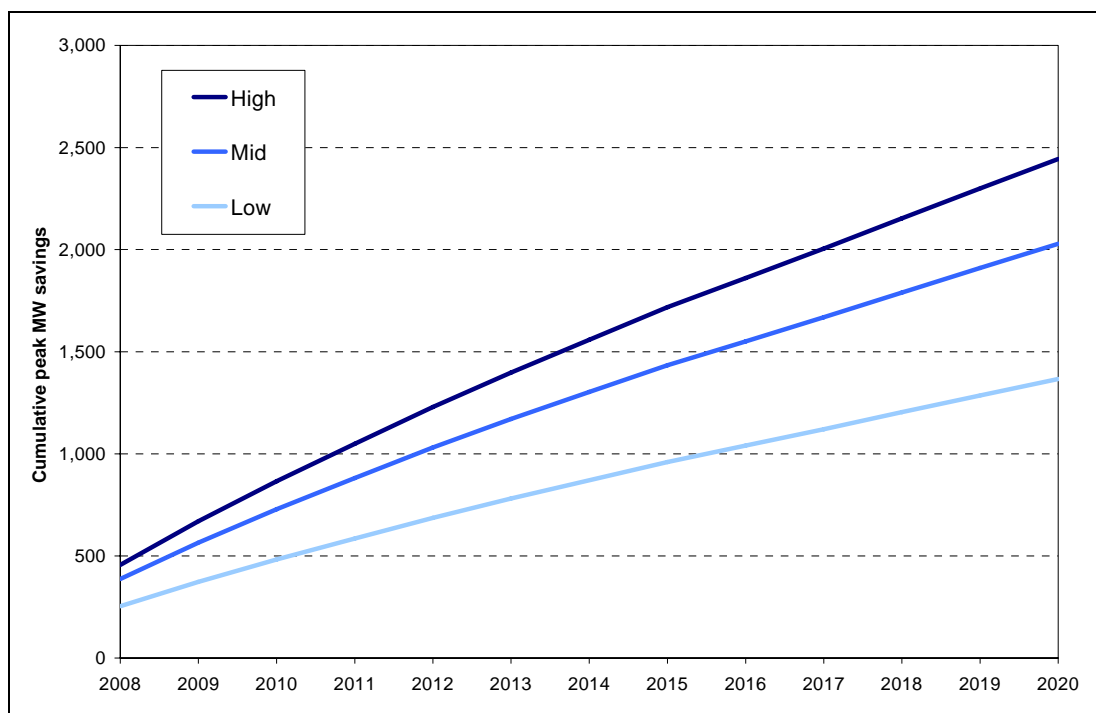


Figure E3-9. Naturally-occurring potential by sector and vintage in SCE

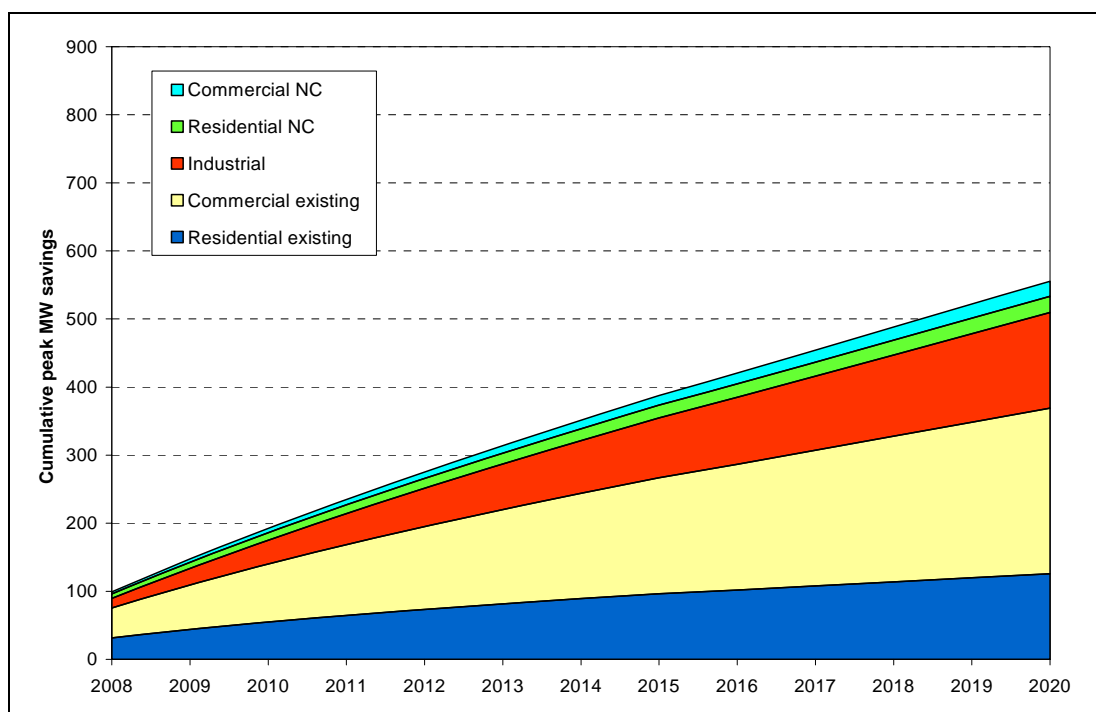


Table E3-13. Naturally-occurring potential in the residential sector by end use and vintage in SCE (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	1	0	0	0	0	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	27	18	9	6	4	2
Freezer	8	5	3	2	1	1
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	42	33	25	6	5	3
Lighting	171	68	55	36	14	12
Total	248	126	92	49	24	17

Table E3-14. Naturally-occurring potential in the commercial sector by end use and vintage in SCE (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	175	140	105	15	12	9
Space Heating	0	0	0	0	0	0
Ventilation	3	3	2	4	3	2
Water Heating	0	0	0	0	0	0
Com Cooking	0	0	0	0	0	0
Refrigeration	32	29	23	0	0	0
Interior Lighting	86	71	57	9	7	5
Office Equipment	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Total	296	243	188	28	22	17

Table E3-15. Naturally-occurring potential in the industrial sector by end use in SCE (cumulative peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	2	2	1
Process Cooling	4	3	3
Pumps	33	26	20
Fans	7	6	4
Compressed Air	27	22	16
Process Drives	8	7	5
Industrial Lighting	31	25	19
HVAC	11	8	6
Industrial Other	1	1	1
Agriculture	51	40	30
Total	176	141	105

Figure E3-10. Uncertainty estimate for total naturally-occurring potential in SCE

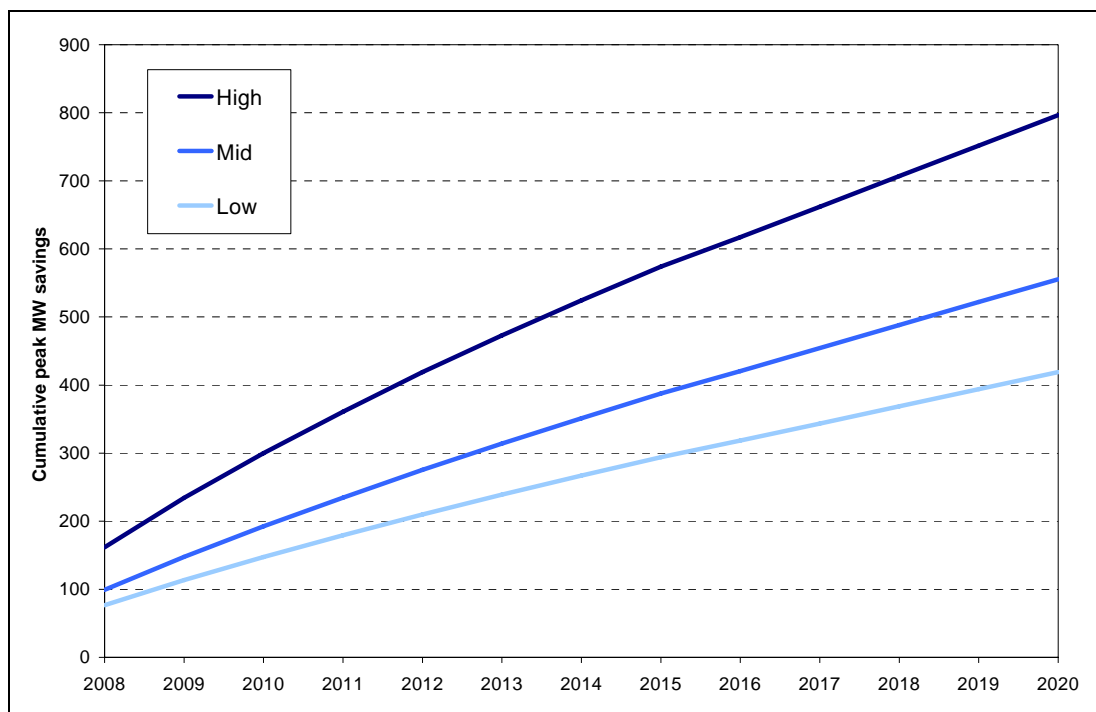


Figure E3-11. Estimated potential savings from BBEES initiatives in SCE (gross savings incremental to base market potential)

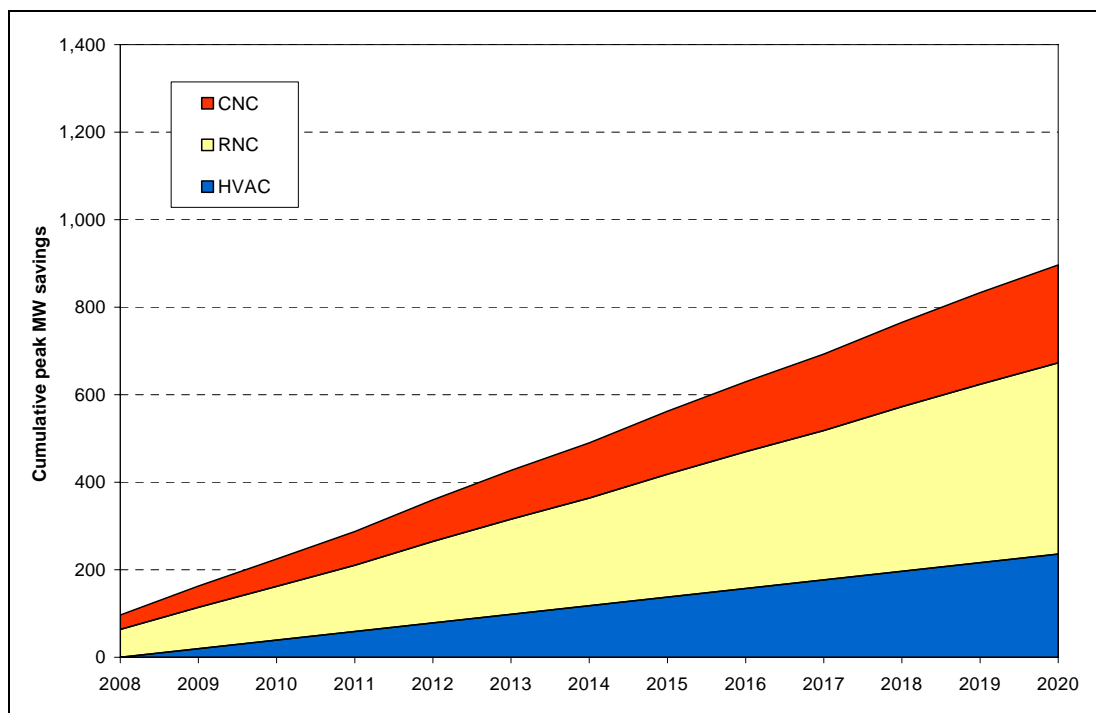


Figure E3-12. Uncertainty estimate for potential savings from all BB initiatives in SCE (gross savings incremental to base market potential)

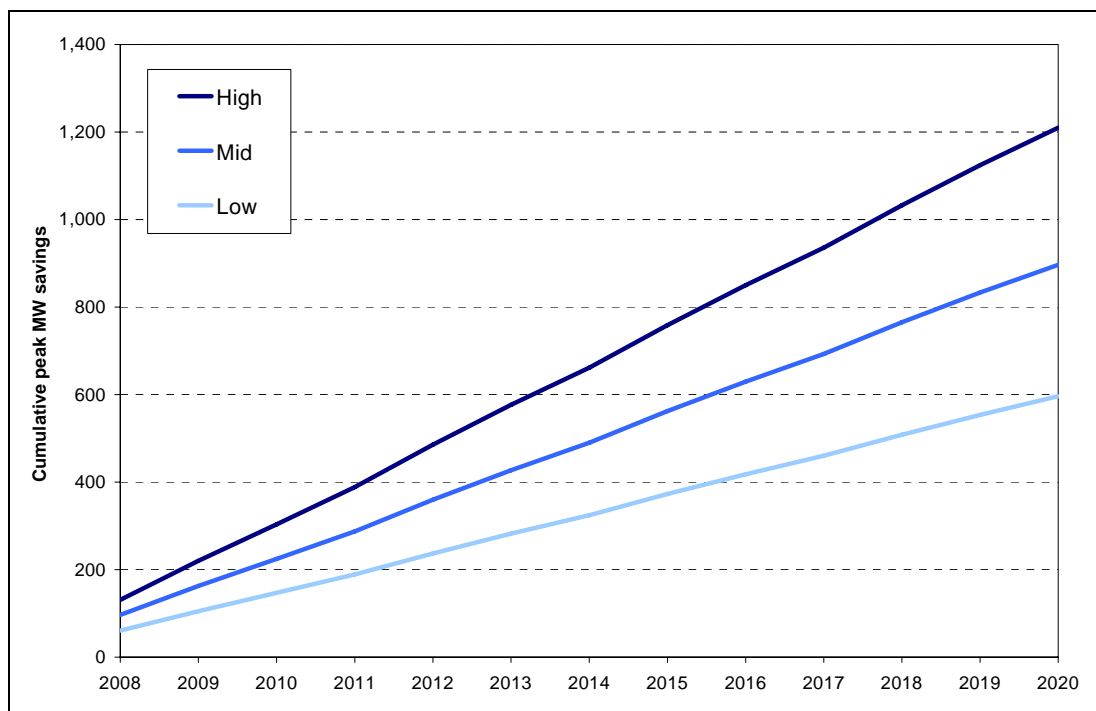


Figure E3-13. Impact of Huffman Bill on base market potential for lighting in SCE (gross savings)

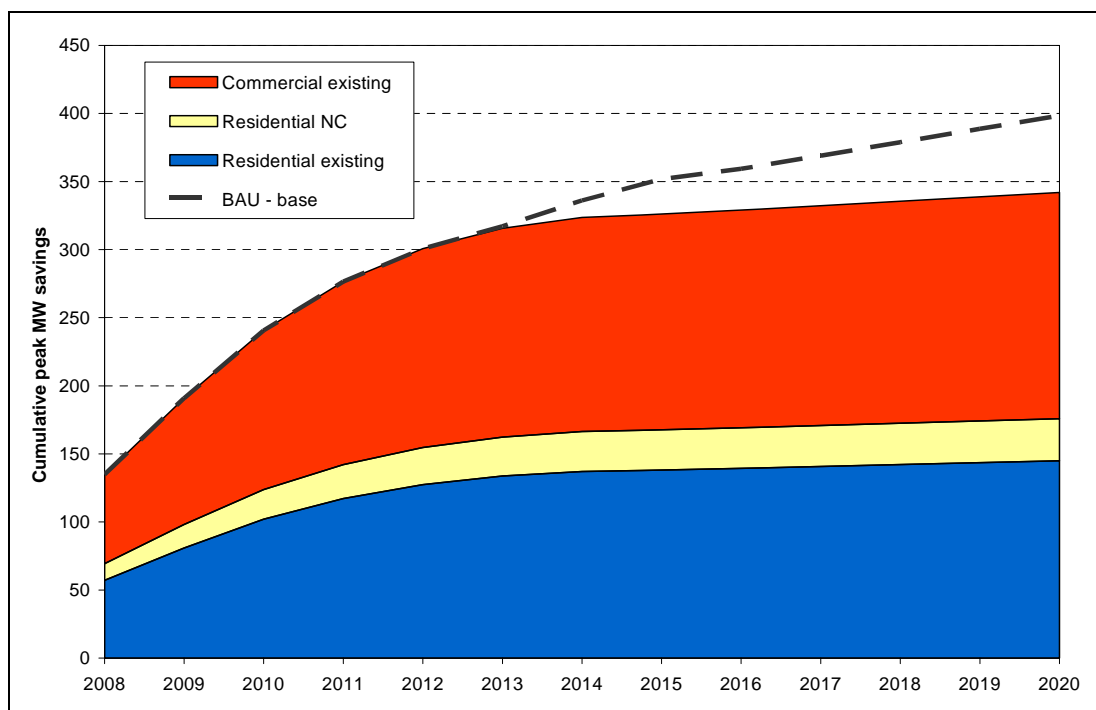


Figure E3-14. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction in SCE (gross savings)

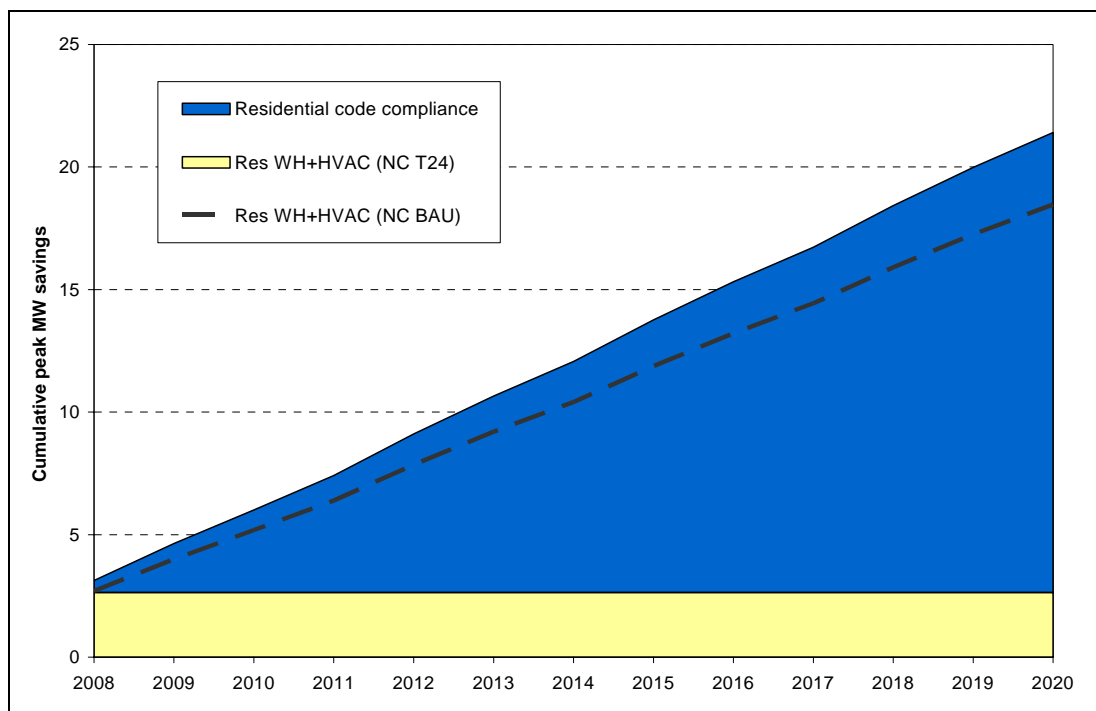


Figure E3-15. Total impact of future codes and standards on base market potential of IOU programs in SCE (gross savings)

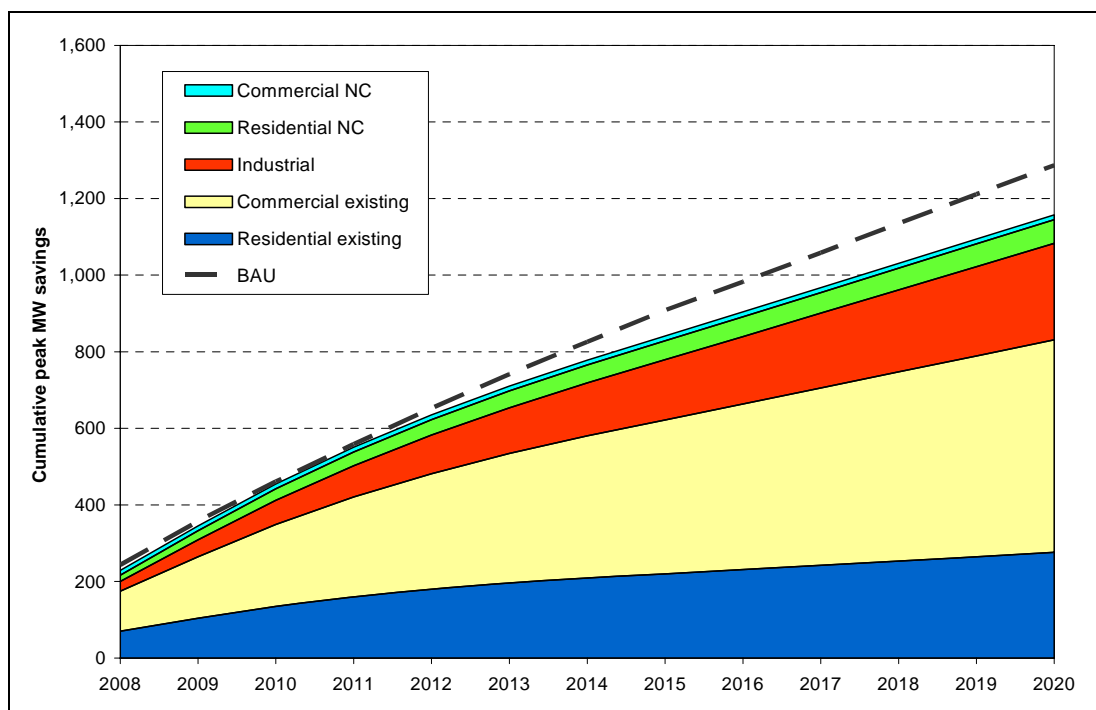


Figure E3-16. Uncertainty estimate of total base market potential of IOU programs after accounting for impacts of future codes and standards in SCE (gross savings)

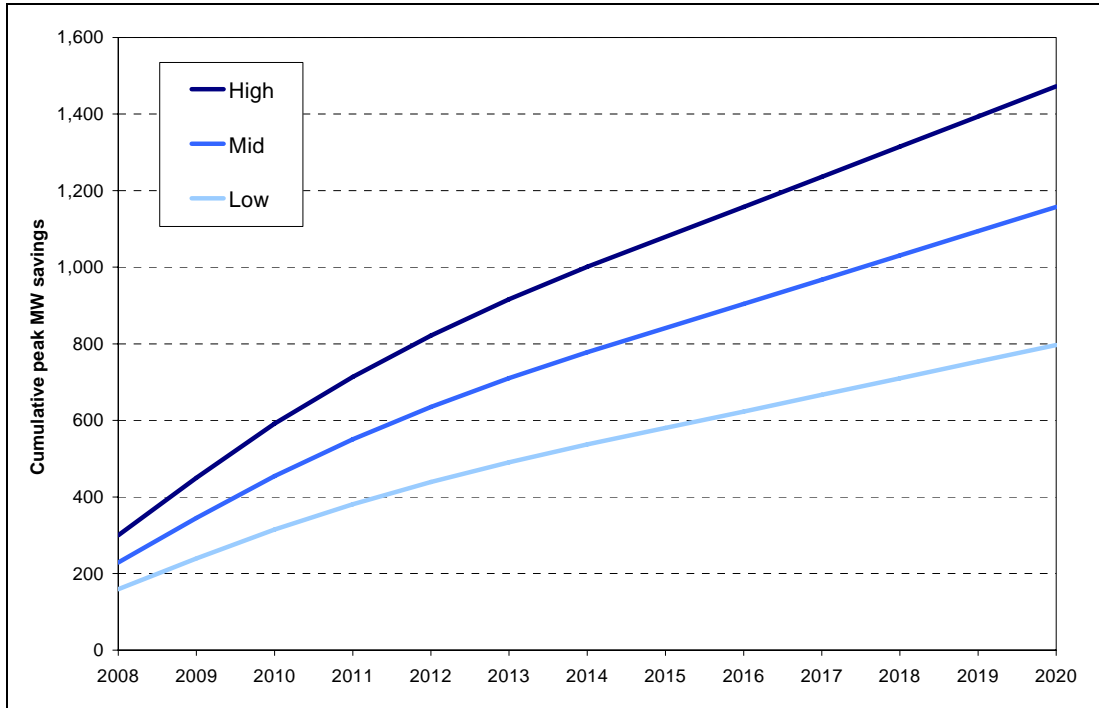


Figure E3-17. Estimated potential lighting savings from implementation of the Huffman Bill in SCE (gross savings incremental to C&S-adjusted base market potential)

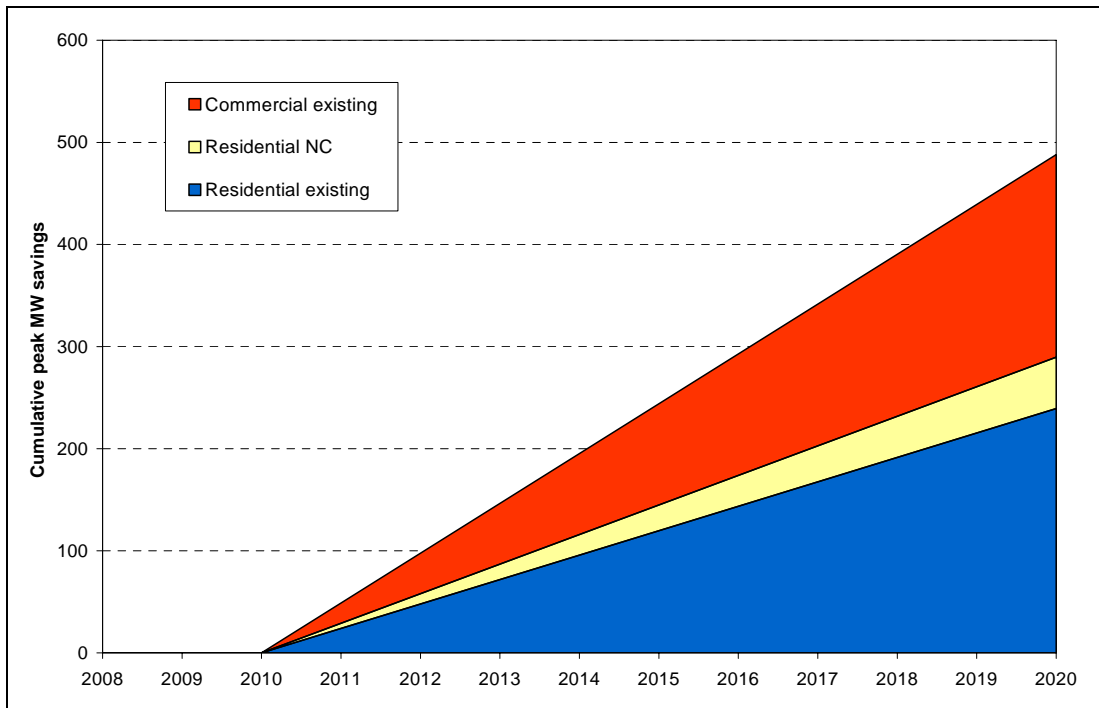


Figure E3-18. Estimated potential savings from implementation of the revisions to Title 24 in SCE (gross savings incremental to C&S-adjusted base market potential)

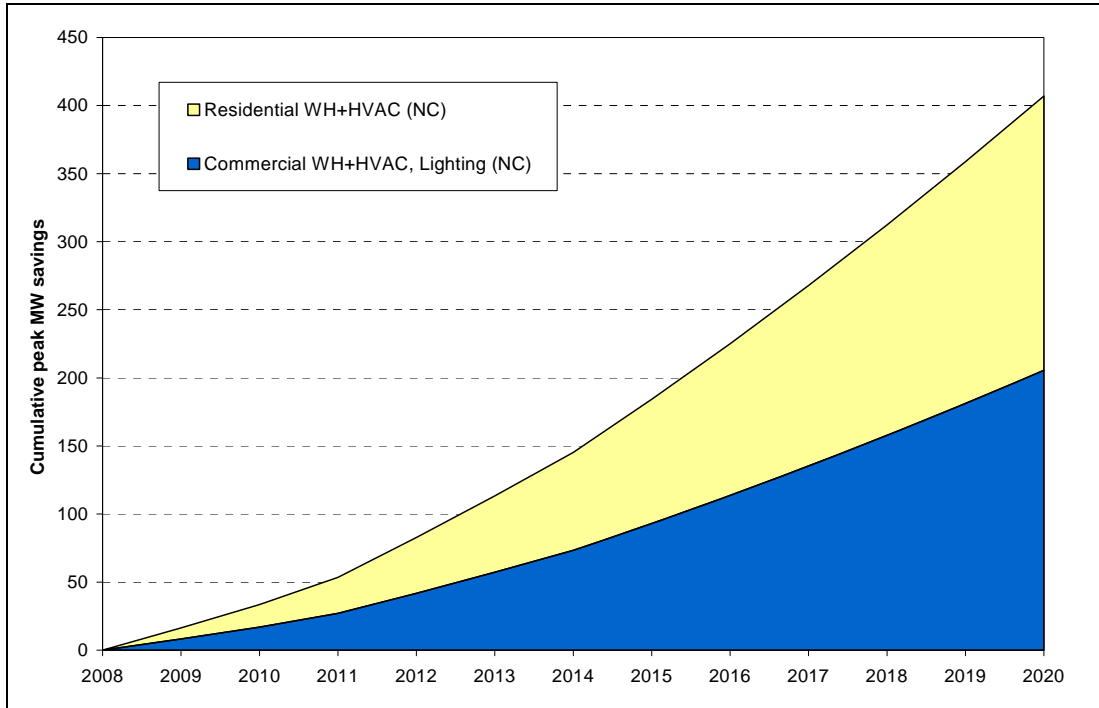


Figure E3-19. Estimated potential savings from implementation of the revised federal appliance standards in SCE (gross savings incremental to C&S-adjusted base market potential)

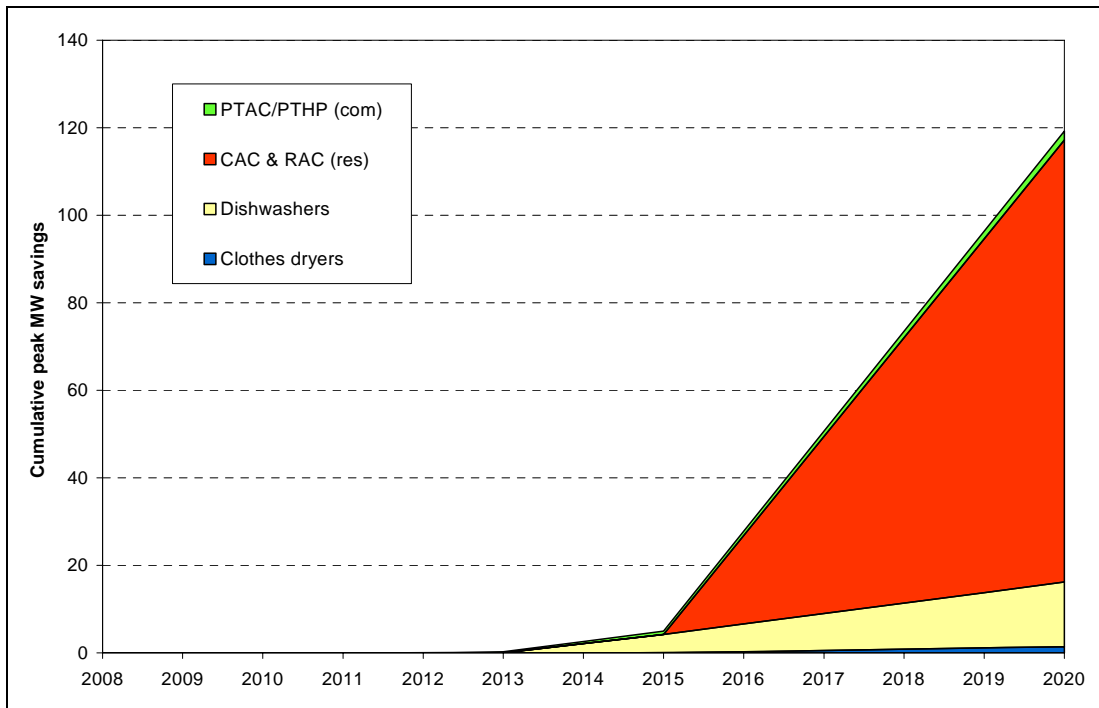


Figure E3-20. Estimated potential savings from future codes and standards in SCE (gross savings incremental to C&S-adjusted base market potential)

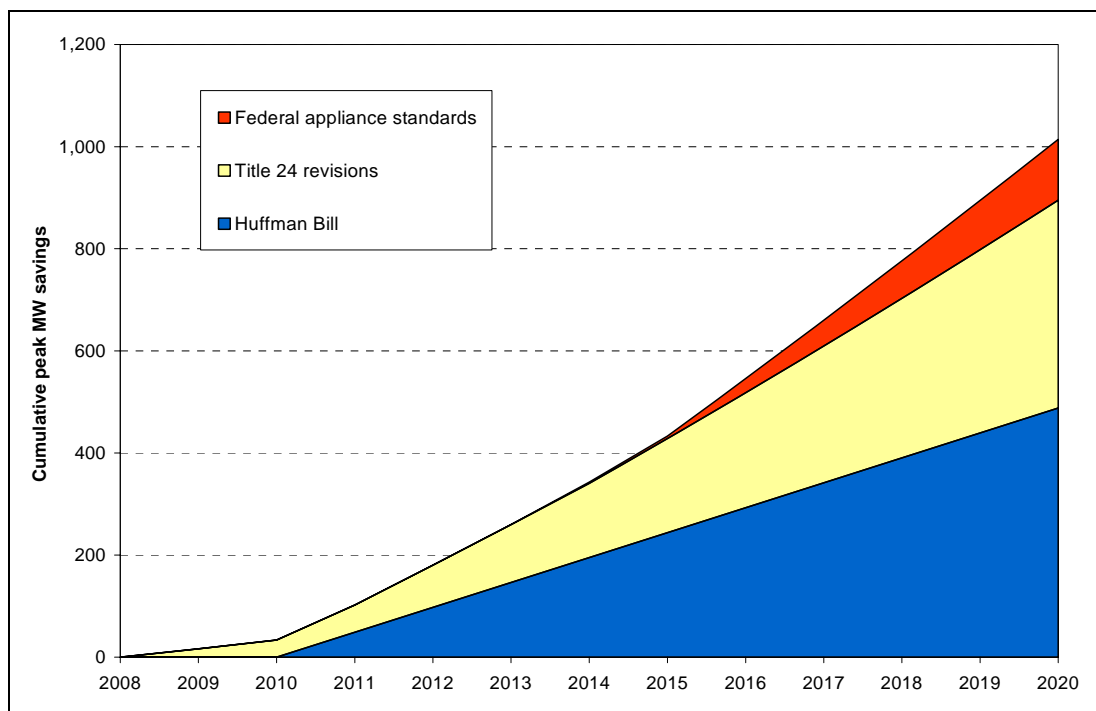


Figure E3-21. Uncertainty estimate of total potential savings from future codes and standards in SCE (gross savings incremental to C&S-adjusted base market potential)

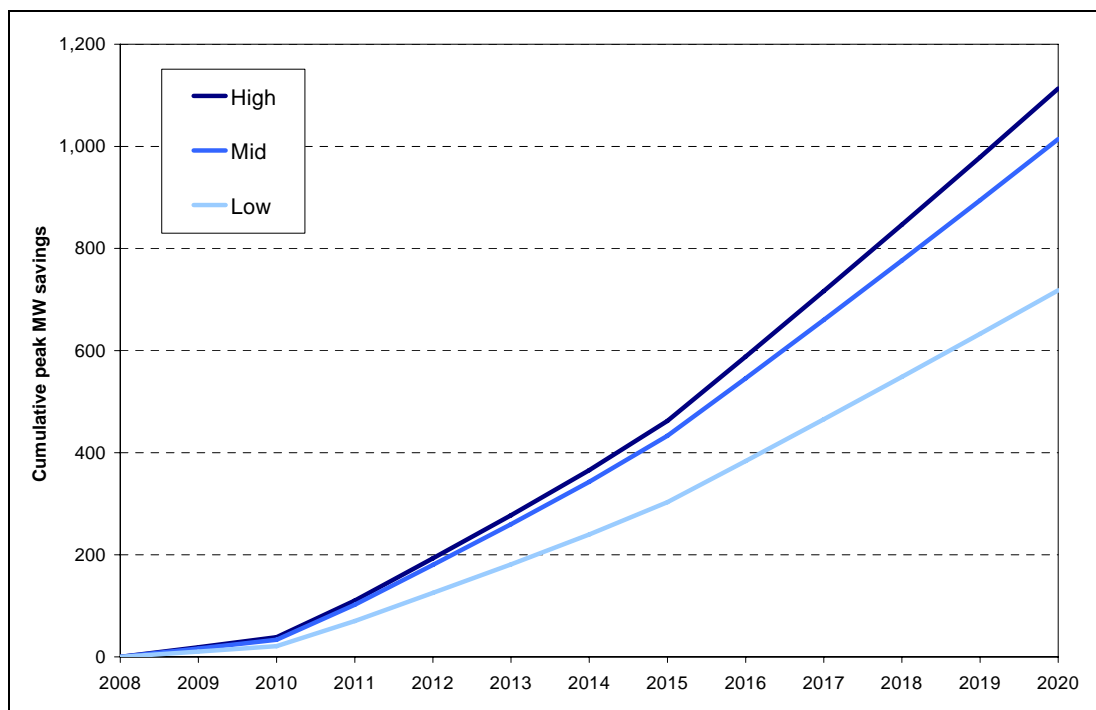


Figure E3-22. Estimated potential savings from all scenarios in SCE (gross savings assuming base-funding for IOU programs)

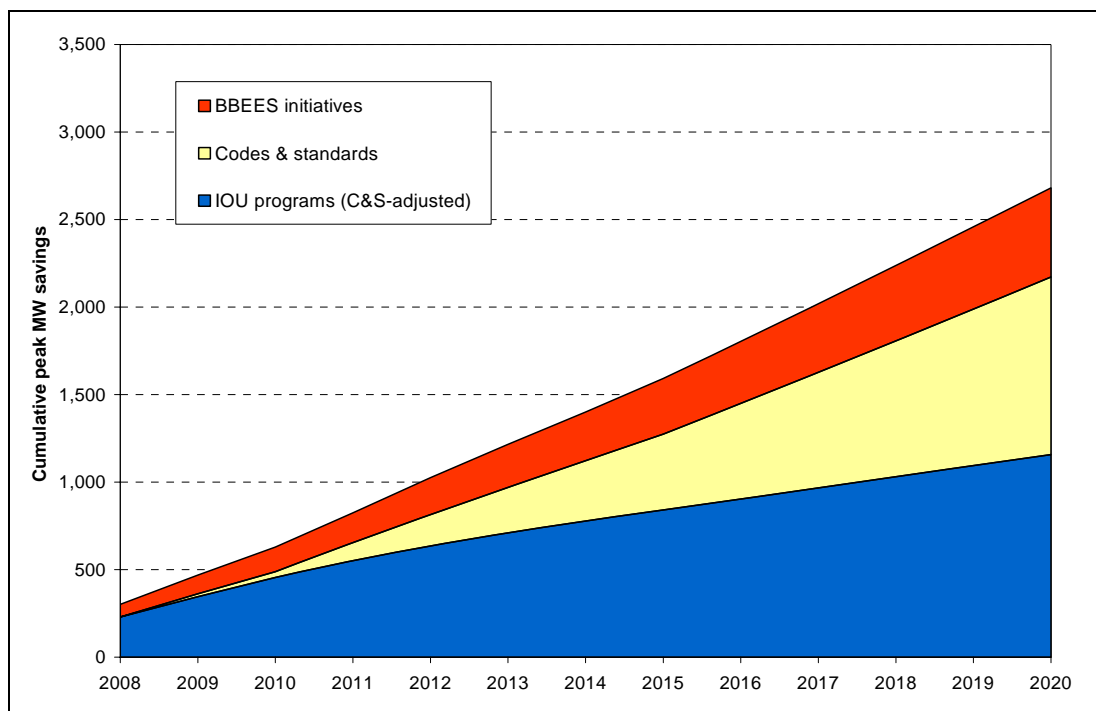


Figure E3-23. Estimated potential savings from all scenarios in SCE (gross savings assuming full-funding for IOU programs)

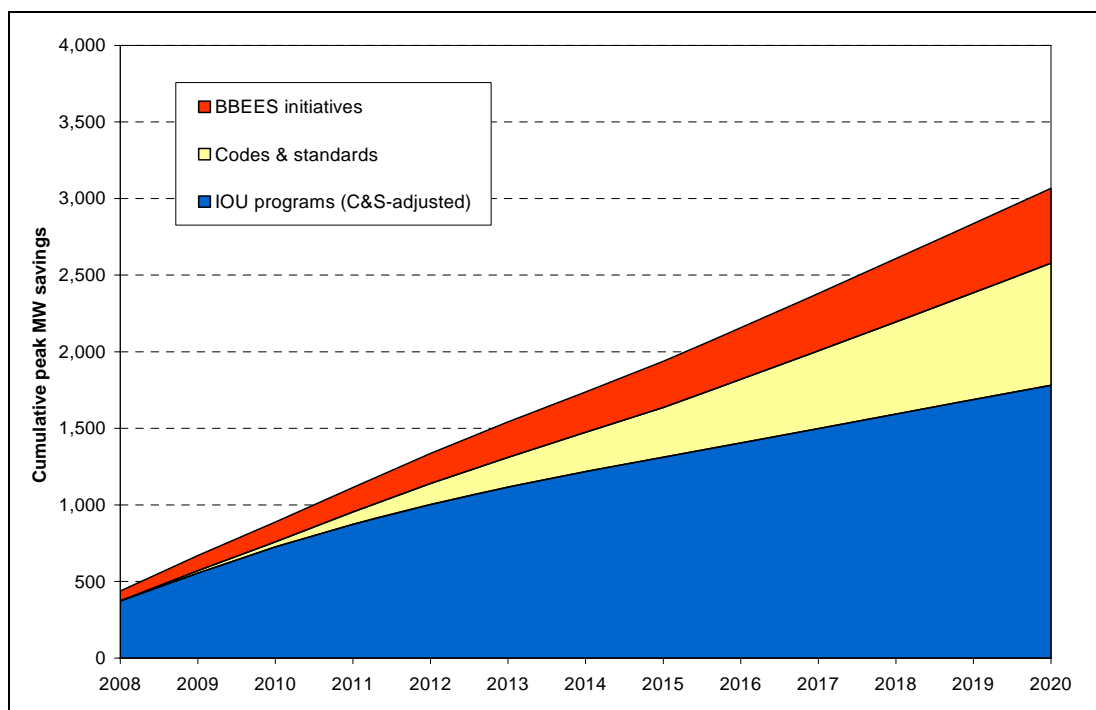


Table E3-16. Summary of estimated savings potential for each scenario in SCE (cumulative gross peak MW savings in 2020)

Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	HVAC	219	163	122	219	163	122
	RNC	358	251	177	354	248	173
	CNC	159	94	75	143	79	59
	Total	736	509	373	717	489	354
Huffman Bill	Res existing	239	239	179	138	138	104
	RNC	50	50	38	29	29	22
	CNC	198	198	149	103	103	77
	Total	488	488	366	270	270	202
Title 24 revisions	RNC	243	201	117	243	201	117
	CNC	226	206	140	226	206	140
	Total	469	407	257	469	407	257
Federal standards	Clothes dryers	2	1	1	2	1	1
	Dishwashers	18	15	12	18	15	12
	CAC & RAC (res)	134	101	81	134	101	81
	PTAC/PTHP (com)	2	2	2	2	2	2
	Total	156	119	95	156	119	95
IOU code compliance (res)	Total	30	19	12	29	19	13
IOU programs (C&S-adjusted)	Res existing	392	276	175	534	444	238
	Com existing	656	555	386	1,031	872	605
	Industrial	315	252	189	434	347	260
	RNC	93	62	37	114	91	47
	CNC	16	13	9	35	28	21
	Total	1,472	1,157	797	2,149	1,782	1,172
TOTAL GROSS SAVINGS POTENTIAL		3,351	2,699	1,900	3,789	3,086	2,094
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		<i>753</i>	<i>538</i>	<i>394</i>	<i>753</i>	<i>538</i>	<i>394</i>

Figure E3-24. Uncertainty estimate of total potential savings from all scenarios in SCE (gross savings assuming base-funding for IOU programs)

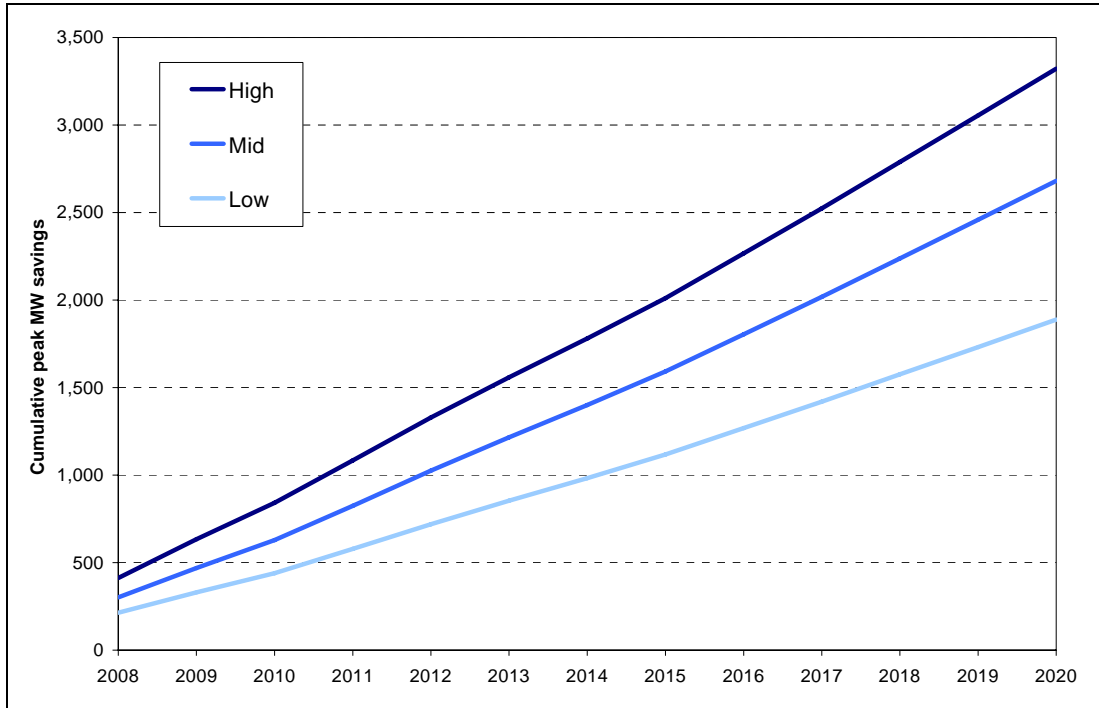


Figure E3-25. Uncertainty estimate of total potential savings from all scenarios in SCE (gross savings assuming full-funding for IOU programs)

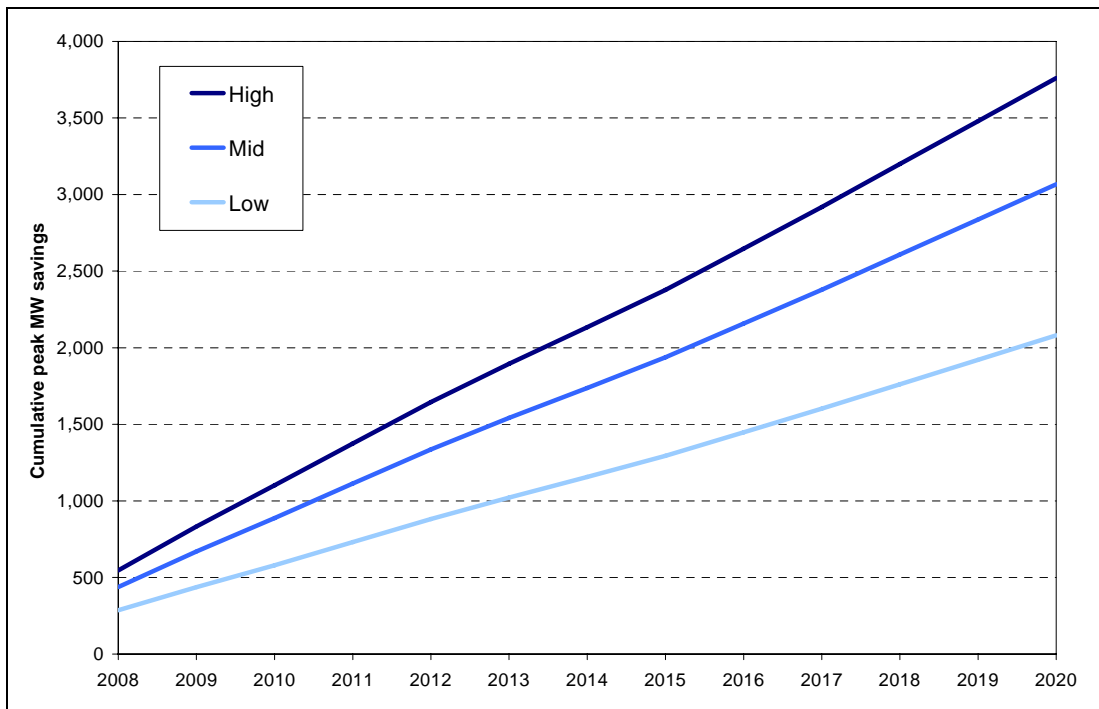


Figure E3-26. Cumulative peak demand savings from High, Mid and Low Cases in SCE compared to current goals through 2013

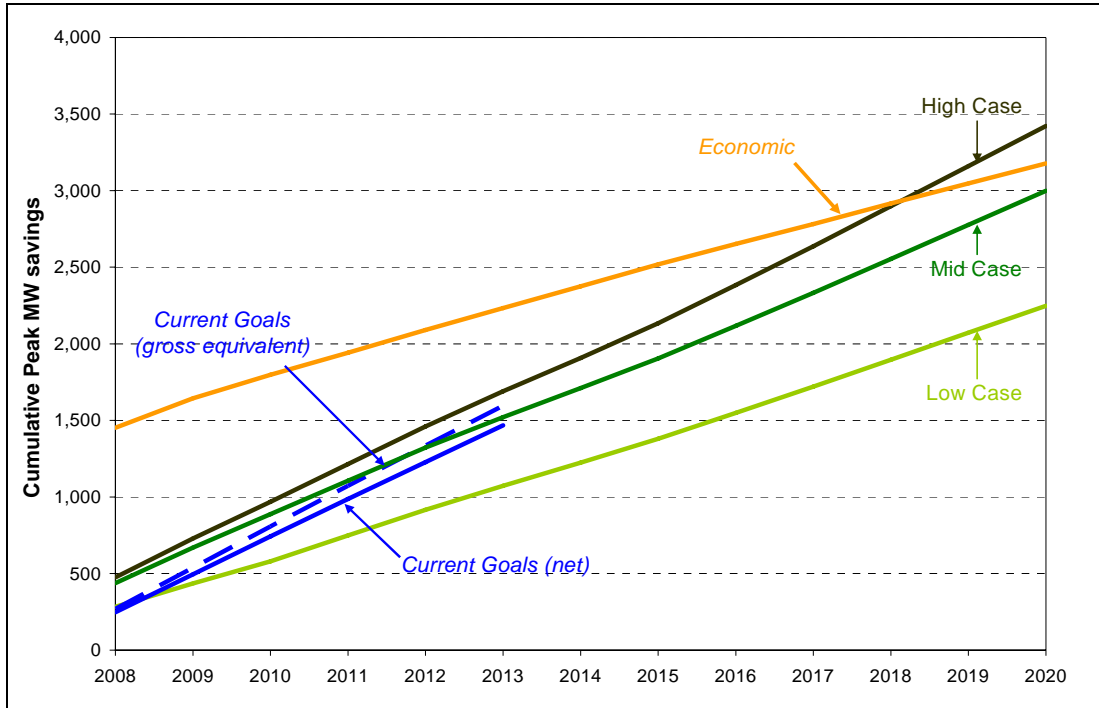


Figure E3-27. Composition of peak demand savings across mechanisms in the Low Case in SCE

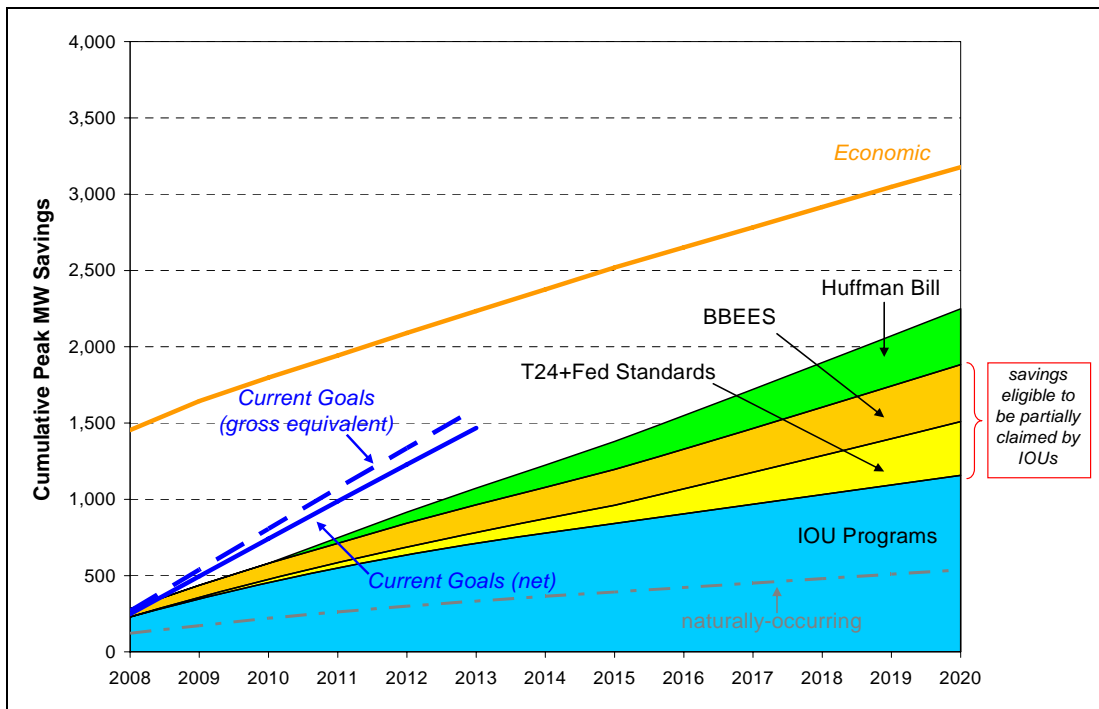


Figure E3-28. Composition of peak demand savings across mechanisms in the Mid Case in SCE

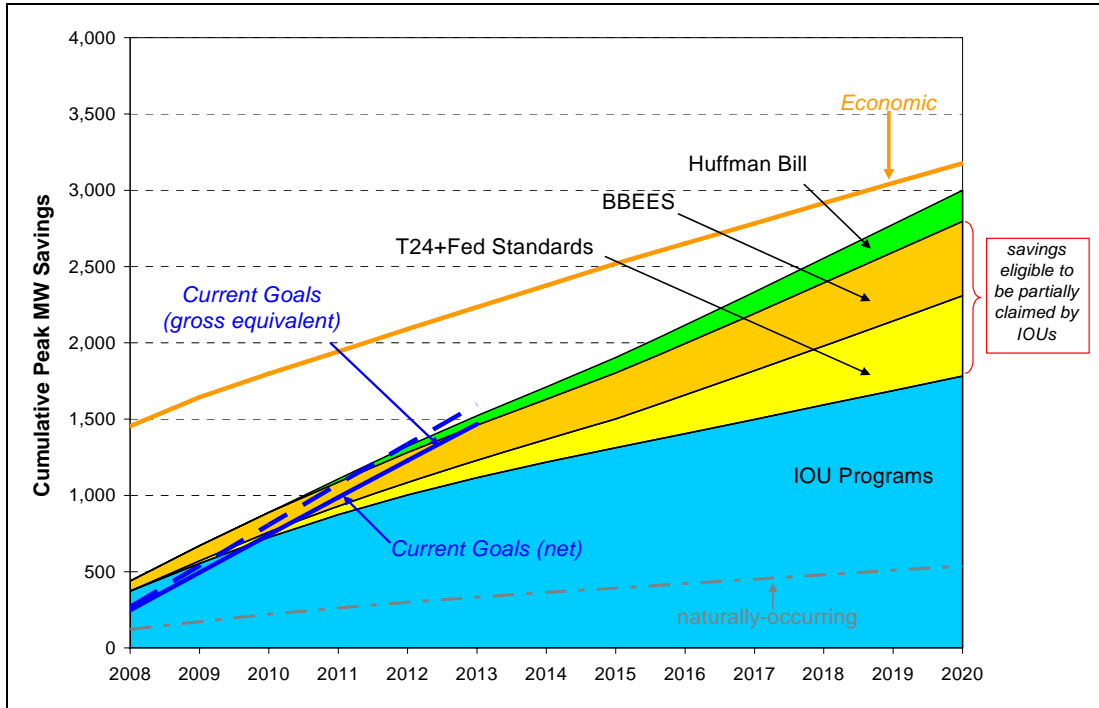


Figure E3-29. Composition of peak demand savings across mechanisms in the High Case in SCE

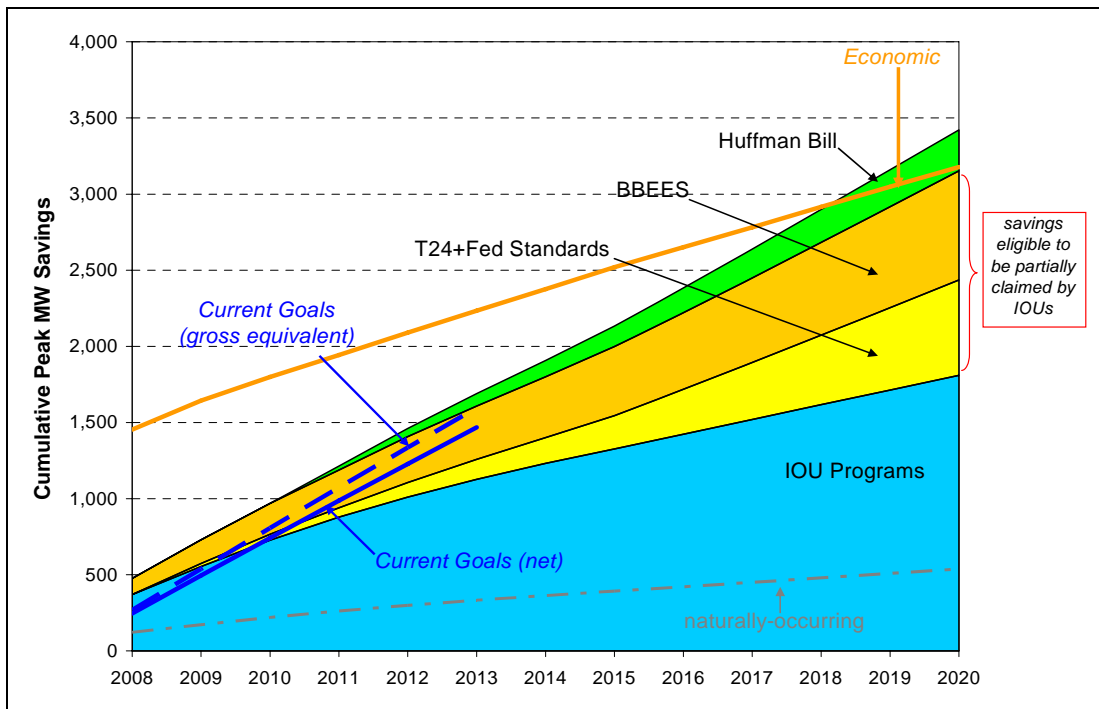


Table E3-17. Estimated peak demand savings in the High, Mid, and Low straw man cases in SCE (cumulative peak MW savings in 2020)

Savings mechanism:	Low Case	Mid Case	High Case
Utility programs (gross)	1157	1782	1810
Huffman Bill	366	202	270
Codes & standards	352	526	625
BBEES initiatives	373	489	717
Total	2249	2999	3422

Table E3-18. Cumulative peak MW savings by saving mechanism in the High, Mid, and Low straw man cases in SCE over time

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Huffman Bill	0	0	0	37	73	110	146	183	220	256	293	329	366
	T24+Federal Standards	0	10	21	34	52	72	94	120	164	209	256	303	352
	BBEES	54	80	104	127	155	181	206	235	261	287	317	345	373
	IOU Programs	229	345	455	551	635	710	778	841	904	967	1031	1094	1157
Mid	Huffman Bill	0	0	0	20	40	61	81	101	121	142	162	182	202
	T24+Federal Standards	0	16	33	53	83	114	148	189	253	318	386	455	526
	BBEES	66	99	129	160	197	231	264	302	338	374	413	452	489
	IOU Programs	372	554	725	873	1003	1116	1218	1311	1405	1499	1593	1687	1782
High	Huffman Bill	0	0	0	27	54	81	108	135	162	189	216	243	270
	T24+Federal Standards	0	19	39	62	95	131	170	218	295	375	456	540	625
	BBEES	105	156	202	248	301	351	399	453	504	554	609	664	717
	IOU Programs	370	554	728	878	1010	1127	1231	1327	1423	1519	1617	1714	1810
Benchmarks	<i>Economic</i>	1453	1643	1798	1942	2090	2234	2375	2519	2652	2781	2916	3048	3177
	<i>Current IOU Goals (gross equivalent)</i>	268	538	807	1073	1335	1596							
	<i>Current IOU Goals (net)</i>	247	495	742	987	1228	1468							

Appendix E4

Peak Demand Savings Results for SDG&E

Figure E4-1. Technical potential by sector and vintage in SDG&E

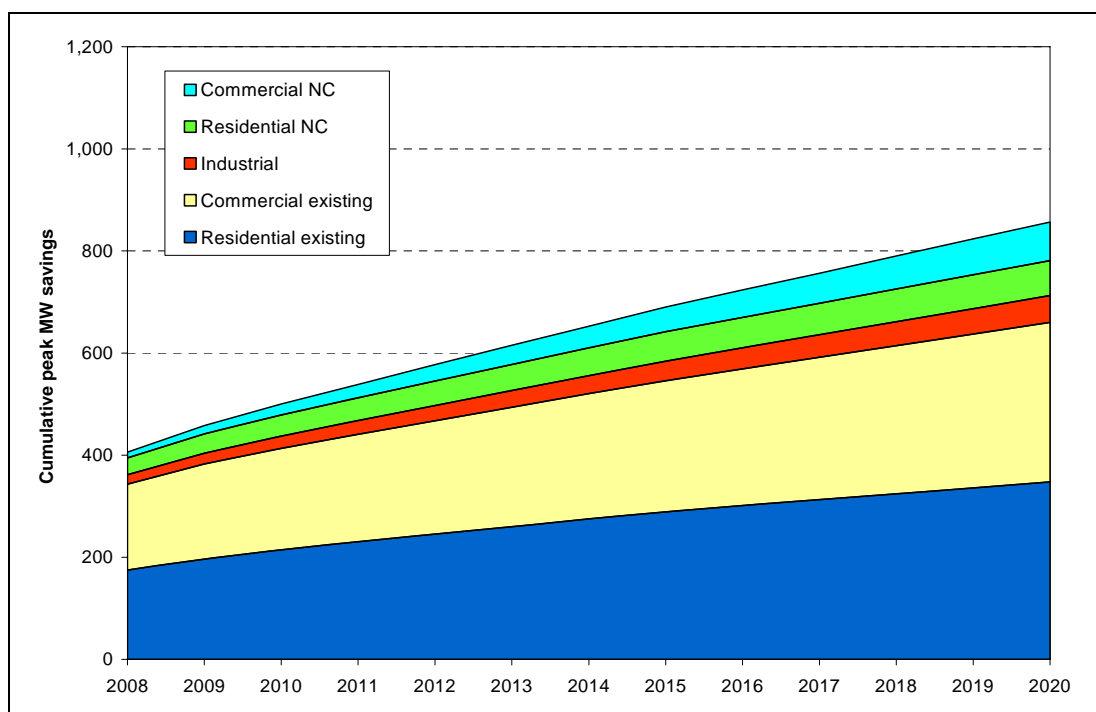


Table E4-1. Technical potential in the residential sector by end use and vintage in SDG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	24	22	18	2	2	1
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	11	10	7	3	3	2
Freezer	0	0	0	0	0	0
Pool Pump	1	1	1	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	207	156	124	28	23	17
Lighting	175	159	111	46	41	29
Total	418	348	261	79	68	49

Table E4-2. Technical potential in the commercial sector by end use and vintage in SDG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	161	134	107	49	39	29
Space Heating	0	0	0	0	0	0
Ventilation	14	12	10	12	10	7
Water Heating	0	0	0	1	1	1
Com Cooking	15	13	10	0	0	0
Refrigeration	36	36	18	0	0	0
Interior Lighting	116	105	84	30	24	18
Office Equipment	10	9	7	0	0	0
Exterior Lighting	3	2	2	1	1	1
Miscellaneous	1	1	1	0	0	0
Total	356	312	239	94	75	57

Table E4-3. Technical potential in the industrial sector by end use in SDG&E (cumulative peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	2	1	1
Process Cooling	8	6	5
Pumps	11	10	7
Fans	4	3	2
Compressed Air	12	9	7
Process Drives	3	3	2
Industrial Lighting	16	12	9
HVAC	1	1	0
Industrial Other	1	1	1
Agriculture	8	6	5
Total	65	53	39

Figure E4-2. Uncertainty estimate for total technical potential in SDG&E

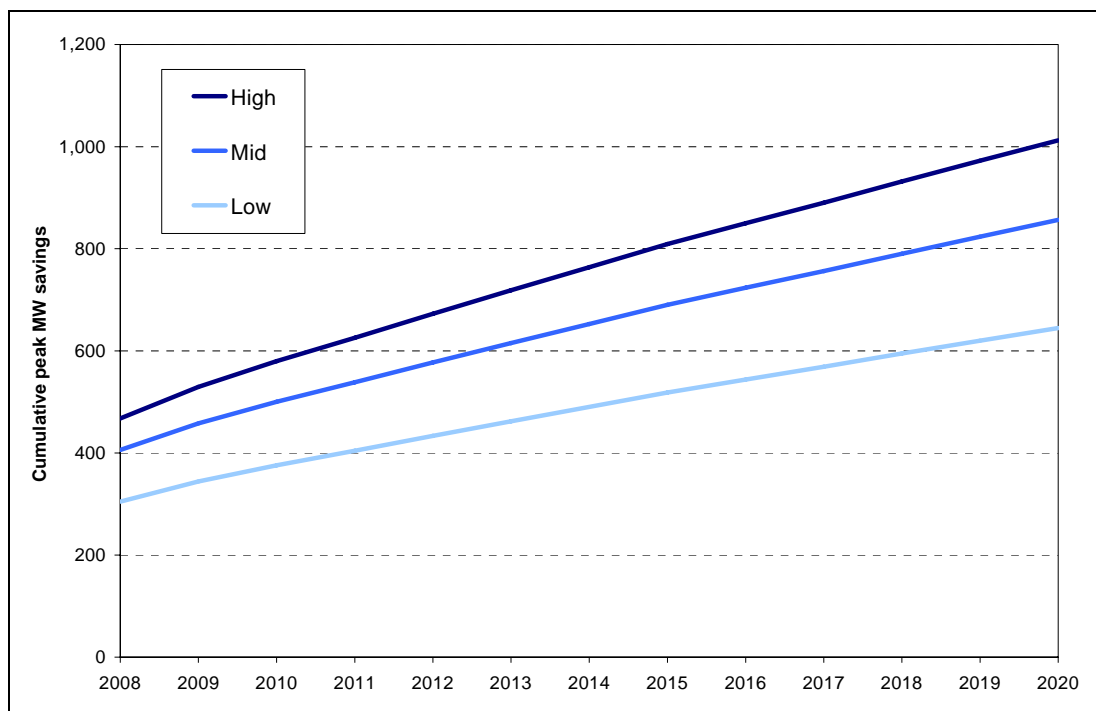


Figure E4-3. Economic potential by sector and vintage in SDG&E

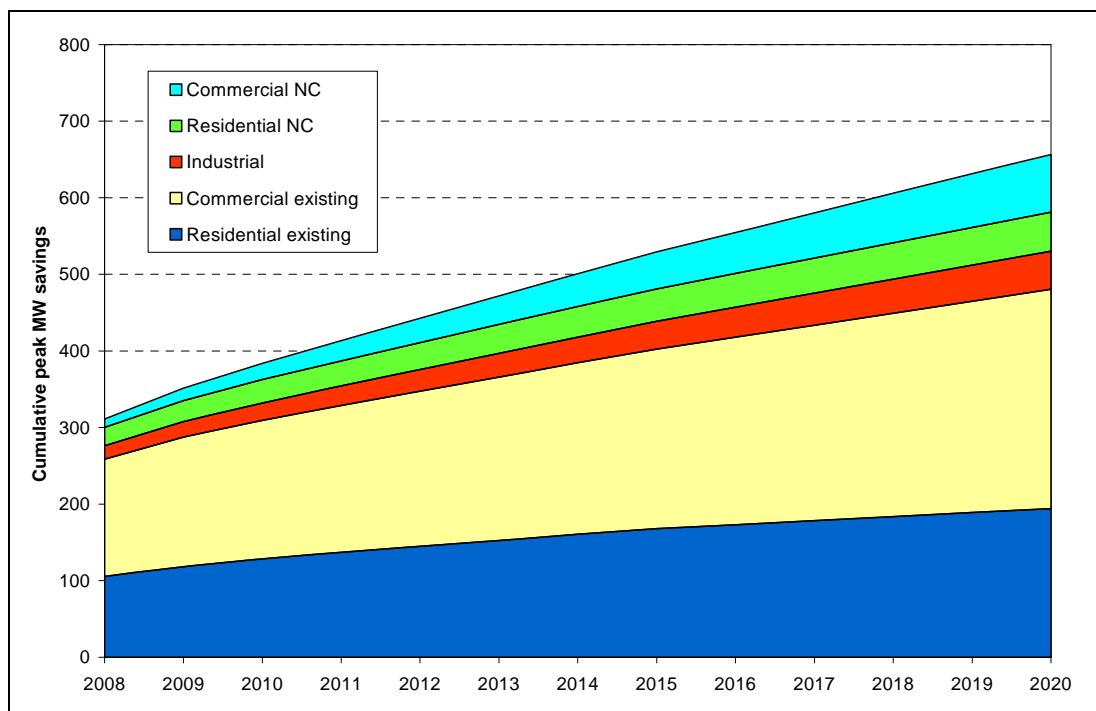


Table E4-4. Economic potential in the residential sector by end use and vintage in SDG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	4	3	2	1	1	1
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	0	0	0	0	0	0
Freezer	0	0	0	0	0	0
Pool Pump	1	1	1	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	79	66	52	21	17	13
Lighting	137	125	87	36	33	23
Total	221	194	143	59	51	36

Table E4-5. Economic potential in the commercial sector by end use and vintage in SDG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	150	125	100	49	39	29
Space Heating	0	0	0	0	0	0
Ventilation	14	12	9	12	10	7
Water Heating	0	0	0	1	1	1
Com Cooking	11	9	7	0	0	0
Refrigeration	35	35	17	0	0	0
Interior Lighting	105	96	77	30	24	18
Office Equipment	9	9	7	0	0	0
Exterior Lighting	1	1	1	1	1	1
Miscellaneous	1	1	1	0	0	0
Total	326	286	219	94	75	56

**Table E4-6. Economic potential in the industrial sector by end use in SDG&E
(cumulative peak MW savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	2	1	1
Process Cooling	5	4	3
Pumps	11	10	7
Fans	4	3	2
Compressed Air	11	9	7
Process Drives	3	3	2
Industrial Lighting	15	12	9
HVAC	1	1	0
Industrial Other	1	1	1
Agriculture	8	6	5
Total	62	50	37

Figure E4-4. Uncertainty estimate for total economic potential in SDG&E

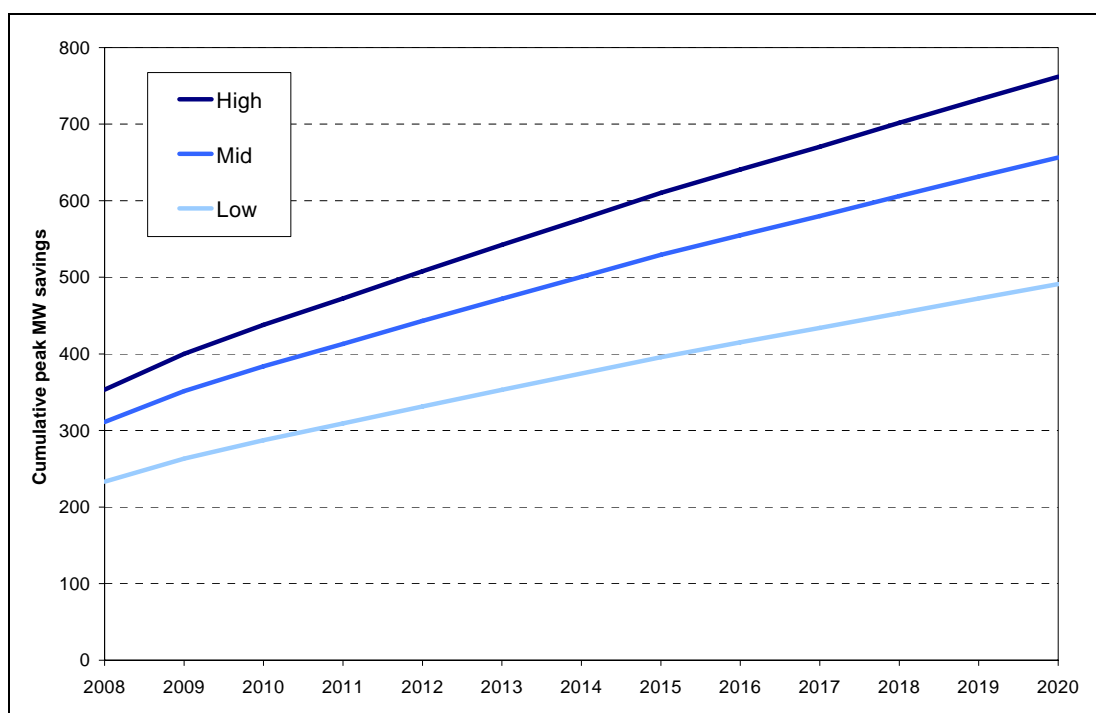


Figure E4-5. Base market potential by sector and vintage in SDG&E (gross savings)

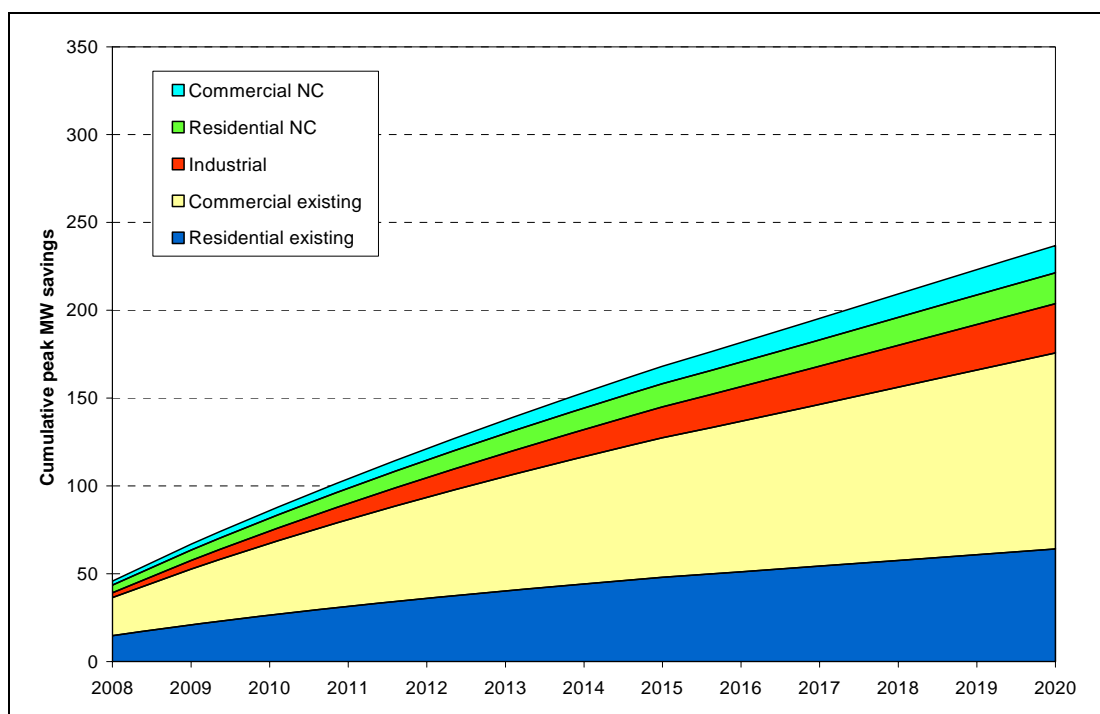


Table E4-7. Base market potential in the residential sector by end use and vintage in SDG&E (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	2	2	2	1	1	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	8	5	3	2	1	1
Freezer	3	2	1	1	0	0
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	31	24	18	9	7	5
Lighting	46	30	23	12	8	6
Total	89	64	46	25	18	13

Table E4-8. Base market potential in the commercial sector by end use and vintage in SDG&E (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	66	55	33	10	8	6
Space Heating	0	0	0	0	0	0
Ventilation	7	6	5	2	2	1
Water Heating	0	0	0	0	0	0
Com Cooking	2	1	1	0	0	0
Refrigeration	12	11	9	0	0	0
Interior Lighting	46	38	30	6	5	4
Office Equipment	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Total	132	112	78	19	16	12

Table E4-9. Base market potential in the industrial sector by end use in SDG&E (cumulative gross peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	0	0	0
Process Cooling	1	1	1
Pumps	7	6	4
Fans	2	1	1
Compressed Air	5	4	3
Process Drives	1	1	1
Industrial Lighting	11	9	7
HVAC	1	0	0
Industrial Other	0	0	0
Agriculture	6	5	3
Total	35	28	21

Figure E4-6. Uncertainty estimate for total base market potential in SDG&E (gross savings)

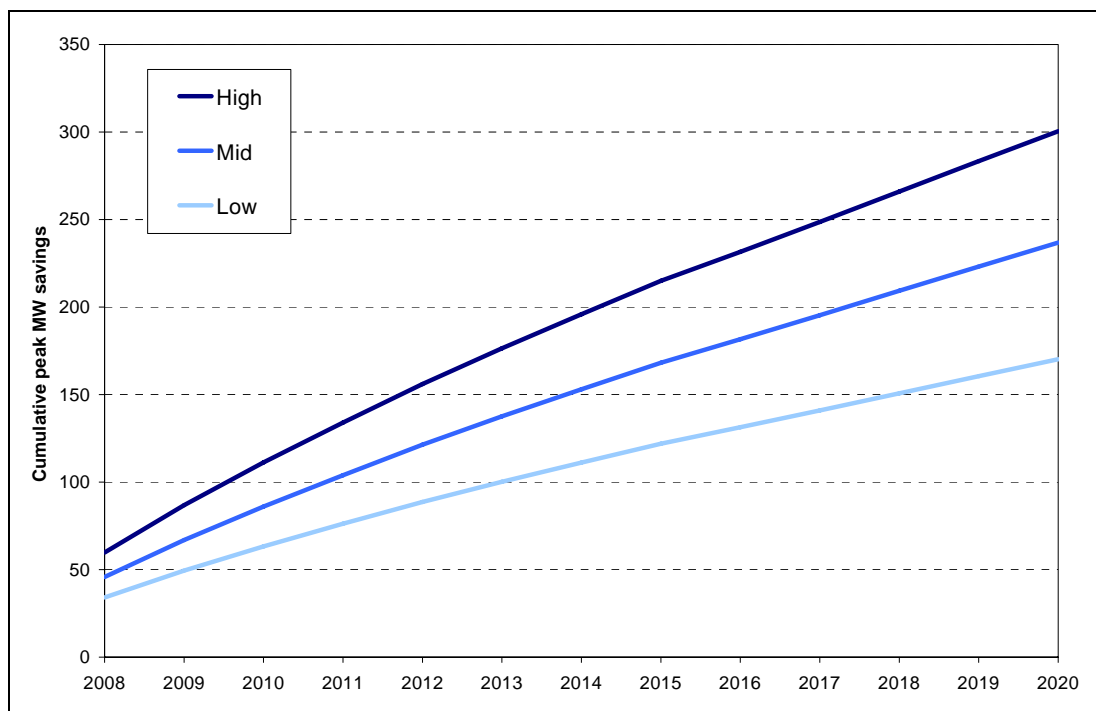


Figure E4-7. Full market potential by sector and vintage in SDG&E (gross savings)

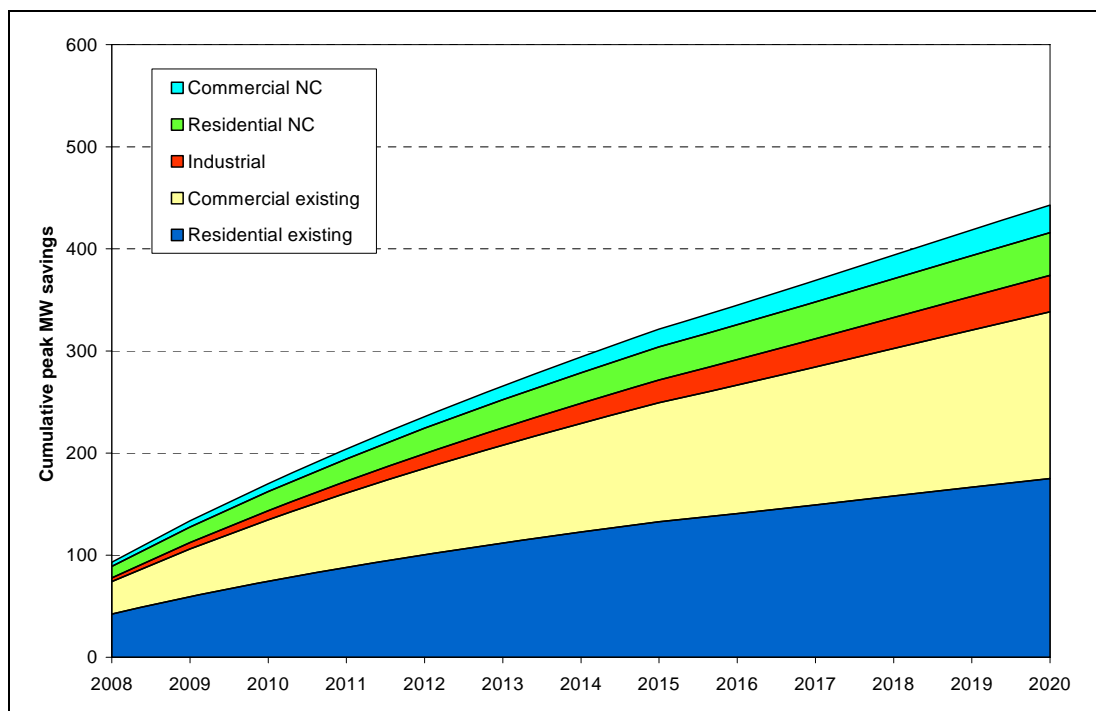


Table E4-10. Full market potential in the residential sector by end use and vintage in SDG&E (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	4	3	2	1	1	1
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	17	11	6	4	3	1
Freezer	6	4	2	1	1	0
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	84	67	50	17	13	10
Lighting	99	90	45	26	23	12
Total	209	175	105	50	42	24

Table E4-11. Full market potential in the commercial sector by end use and vintage in SDG&E (cumulative gross peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	96	80	48	18	14	11
Space Heating	0	0	0	0	0	0
Ventilation	8	7	6	4	4	3
Water Heating	0	0	0	0	0	0
Com Cooking	2	2	1	0	0	0
Refrigeration	18	16	13	0	0	0
Interior Lighting	68	57	45	10	8	6
Office Equipment	0	0	0	0	0	0
Exterior Lighting	0	0	0	1	0	0
Miscellaneous	0	0	0	0	0	0
Total	193	163	115	34	27	20

**Table E4-12. Full market potential in the industrial sector by end use in SDG&E
(cumulative gross peak MW savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Process Heating	1	1	0
Process Cooling	2	1	1
Pumps	9	7	6
Fans	2	2	1
Compressed Air	6	5	4
Process Drives	2	2	1
Industrial Lighting	14	12	9
HVAC	1	0	0
Industrial Other	1	0	0
Agriculture	7	5	4
Total	45	36	27

Figure E4-8. Uncertainty estimate for total full market potential in SDG&E (gross savings)

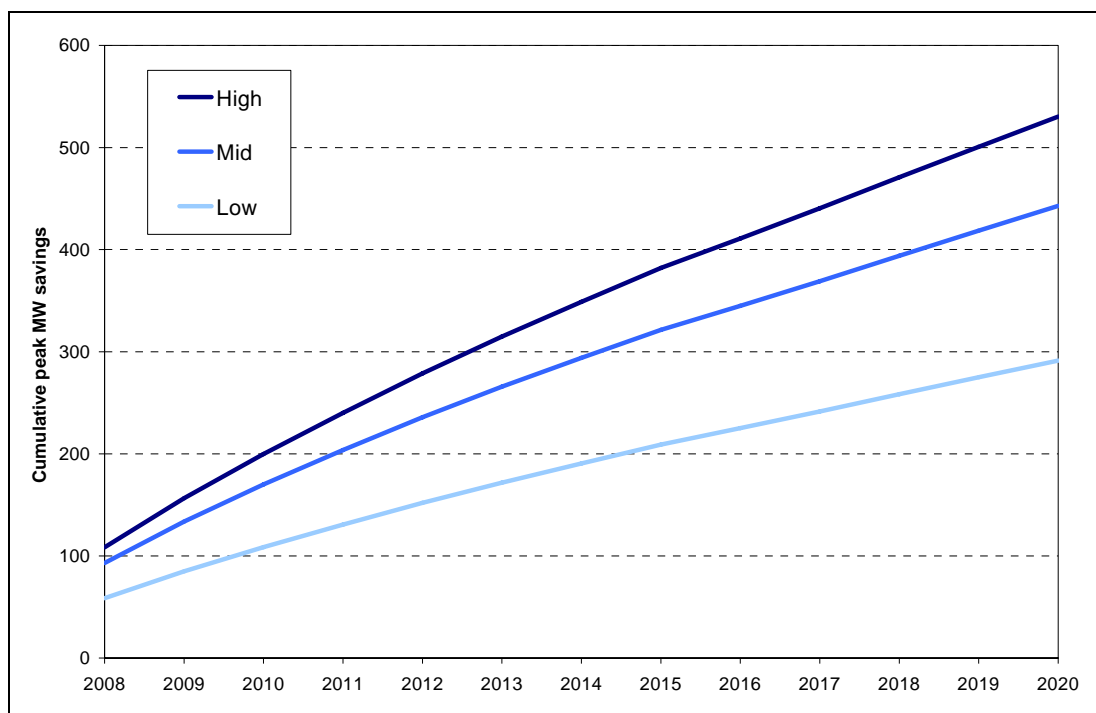


Figure E4-9. Naturally-occurring potential by sector and vintage in SDG&E

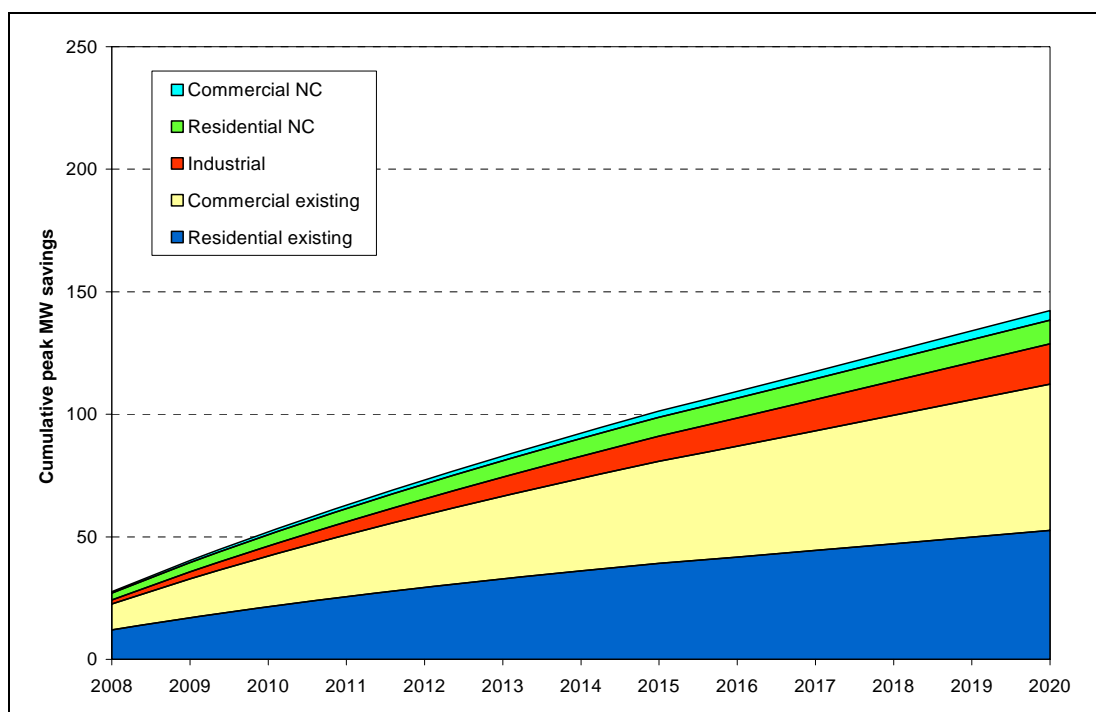


Table E4-13. Naturally-occurring potential in the residential sector by end use and vintage in SDG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	2	2	2	0	0	0
Clothes Dryer	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Refrigerator	6	4	2	2	1	1
Freezer	2	1	1	1	0	0
Pool Pump	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Furnace Fan	0	0	0	0	0	0
Space Cooling	26	21	16	2	2	1
Lighting	61	24	20	16	6	5
Total	97	53	39	20	10	7

Table E4-14. Naturally-occurring potential in the commercial sector by end use and vintage in SDG&E (cumulative peak MW savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	47	37	28	3	2	2
Space Heating	0	0	0	0	0	0
Ventilation	0	0	0	1	0	0
Water Heating	0	0	0	0	0	0
Com Cooking	0	0	0	0	0	0
Refrigeration	6	5	4	0	0	0
Interior Lighting	20	17	13	2	1	1
Office Equipment	0	0	0	0	0	0
Exterior Lighting	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Total	73	60	46	5	4	3

Table E4-15. Naturally-occurring potential in the industrial sector by end use in SDG&E (cumulative peak MW savings in 2020)

End Use	All vintages		
	High	Mid	Low
Process Heating	0	0	0
Process Cooling	1	1	0
Pumps	3	2	2
Fans	1	0	0
Compressed Air	4	3	2
Process Drives	1	1	0
Industrial Lighting	7	6	4
HVAC	0	0	0
Industrial Other	0	0	0
Agriculture	4	3	2
Total	21	16	12

Figure E4-10. Uncertainty estimate for total naturally-occurring potential in SDG&E

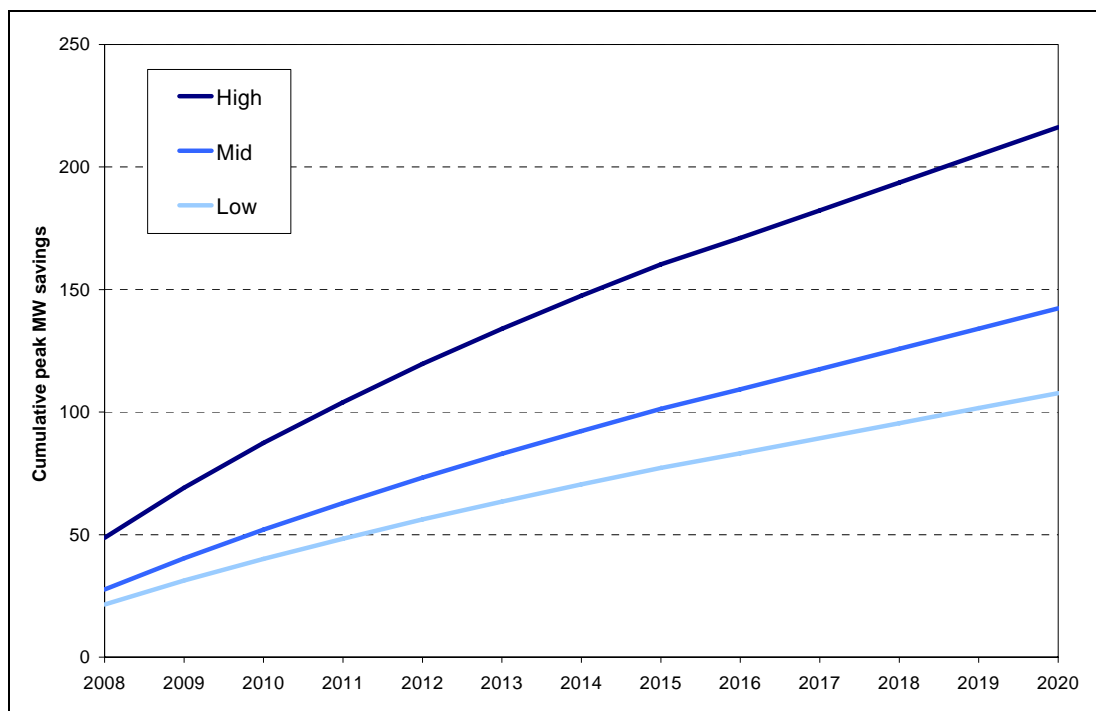


Figure E4-11. Estimated potential savings from BBEES initiatives in SDG&E (gross savings incremental to base market potential)

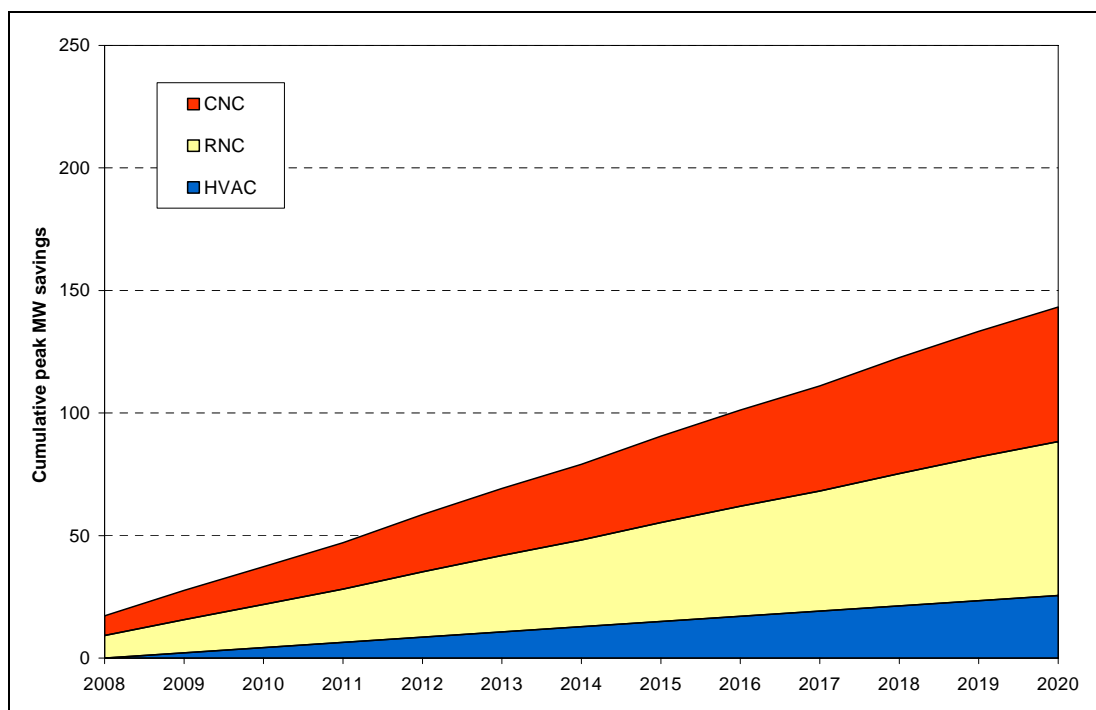


Figure E4-12. Uncertainty estimate for potential savings from all BB initiatives in SDG&E (gross savings incremental to base market potential)

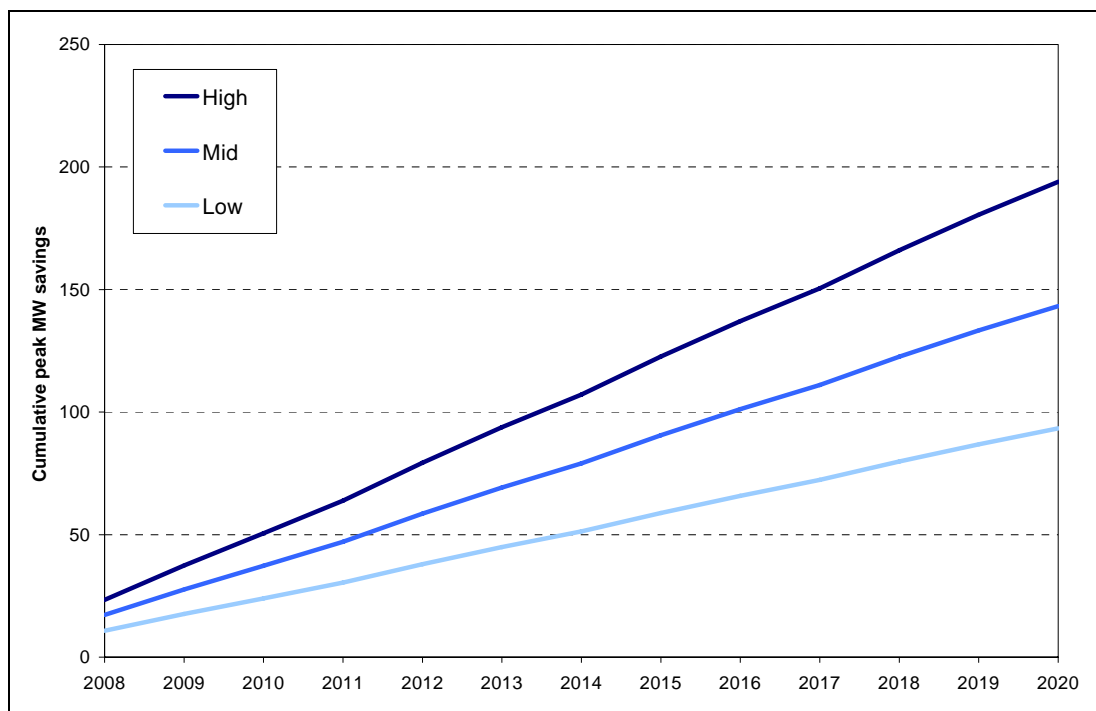


Figure E4-13. Impact of Huffman Bill on base market potential for lighting in SDG&E (gross savings)

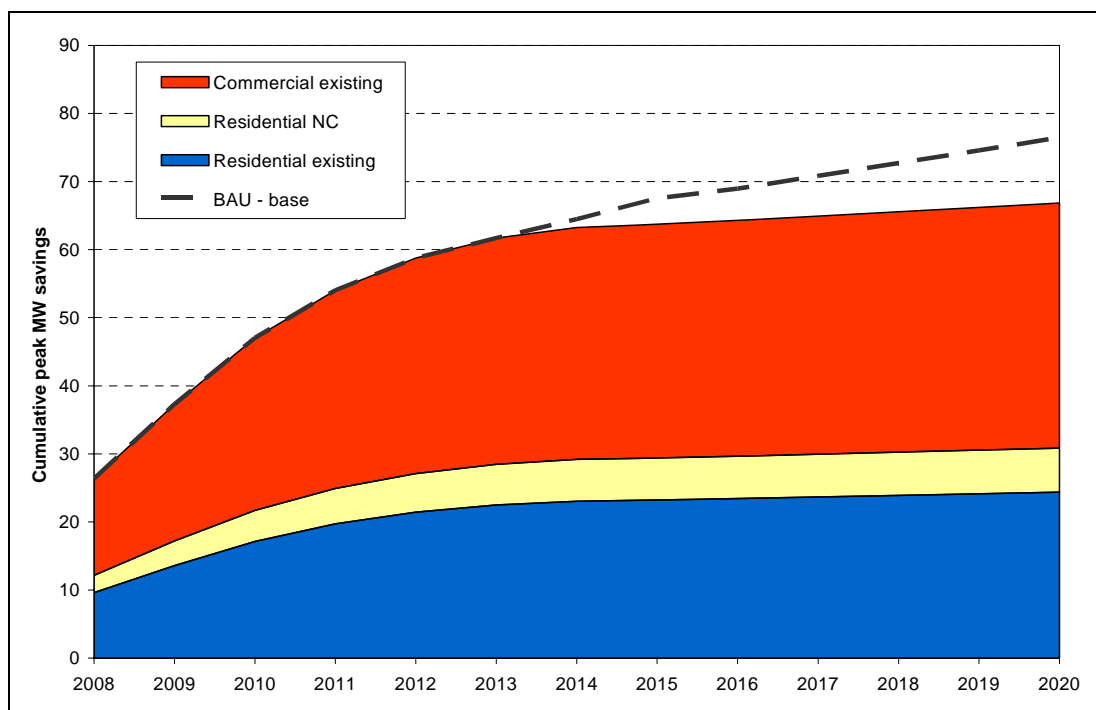


Figure E4-14. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction in SDG&E (gross savings)

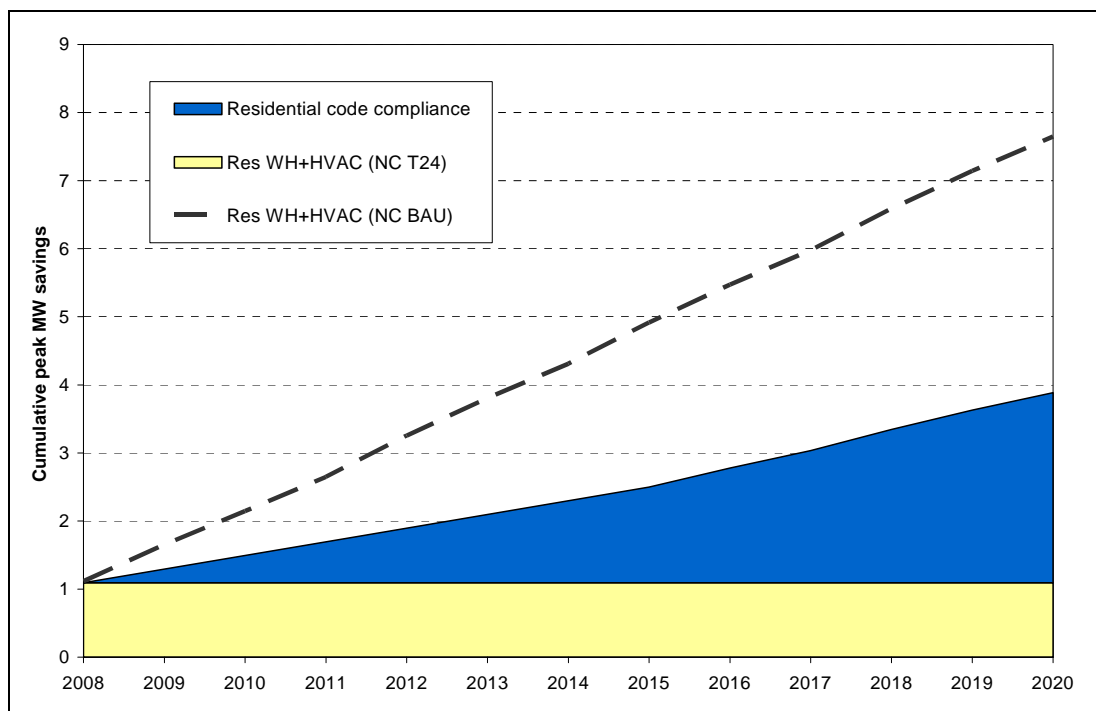


Figure E4-15. Total impact of future codes and standards on base market potential of IOU programs in SDG&E (gross savings)

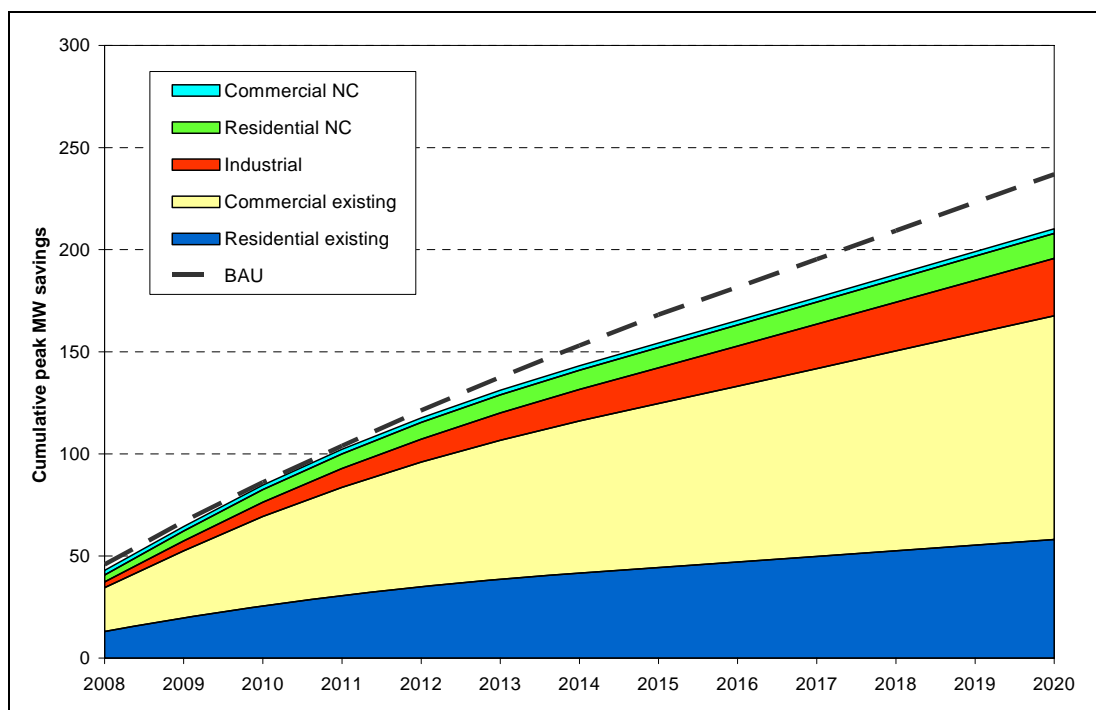


Figure E4-16. Uncertainty estimate of total base market potential of IOU programs after accounting for impacts of future codes and standards in SDG&E (gross savings)

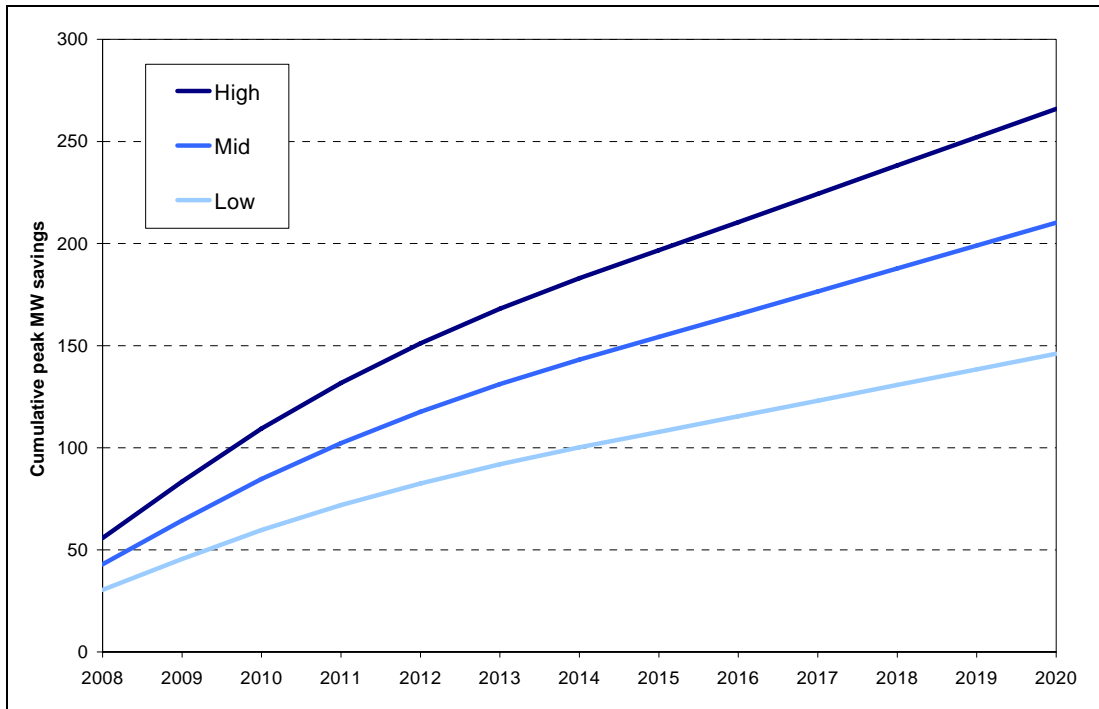


Figure E4-17. Estimated potential lighting savings from implementation of the Huffman Bill in SDG&E (gross savings incremental to C&S-adjusted base market potential)

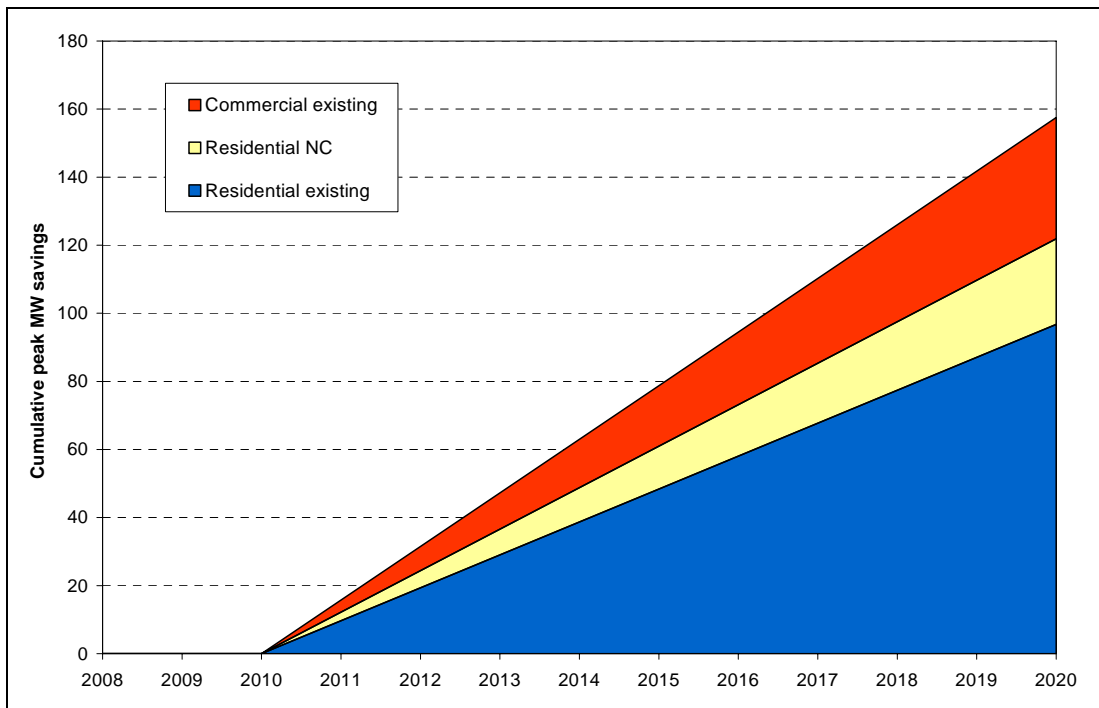


Figure E4-18. Estimated potential savings from implementation of the revisions to Title 24 in SDG&E (gross savings incremental to C&S-adjusted base market potential)

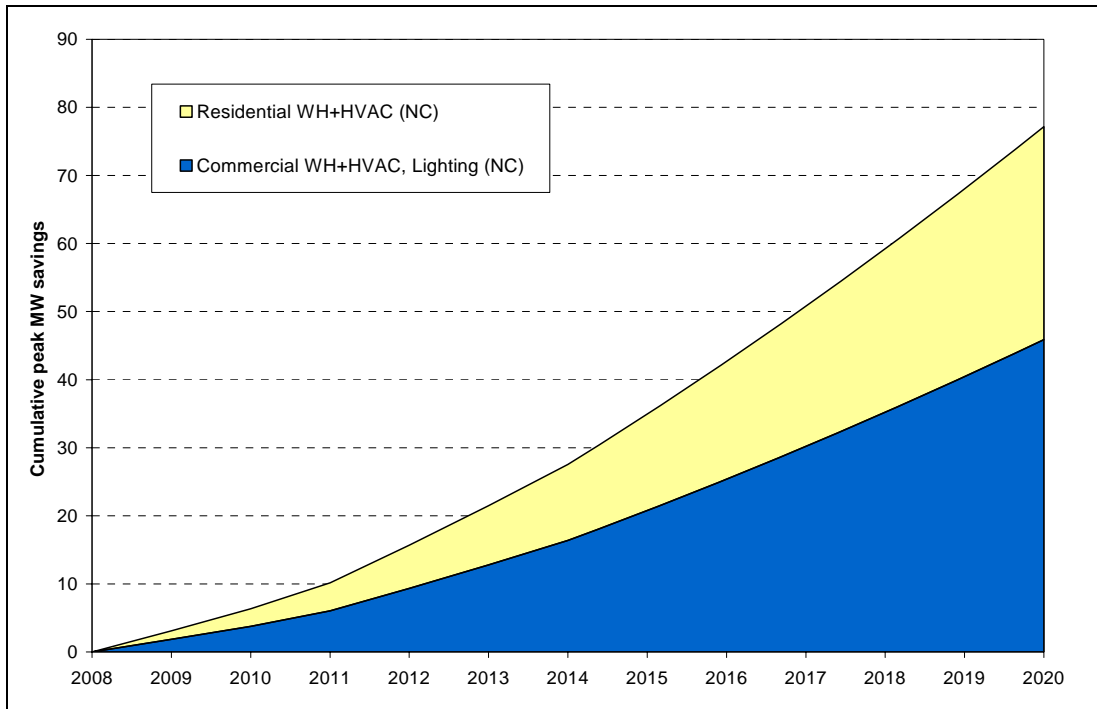


Figure E4-19. Estimated potential savings from implementation of the revised federal appliance standards in SDG&E (gross savings incremental to C&S-adjusted base market potential)

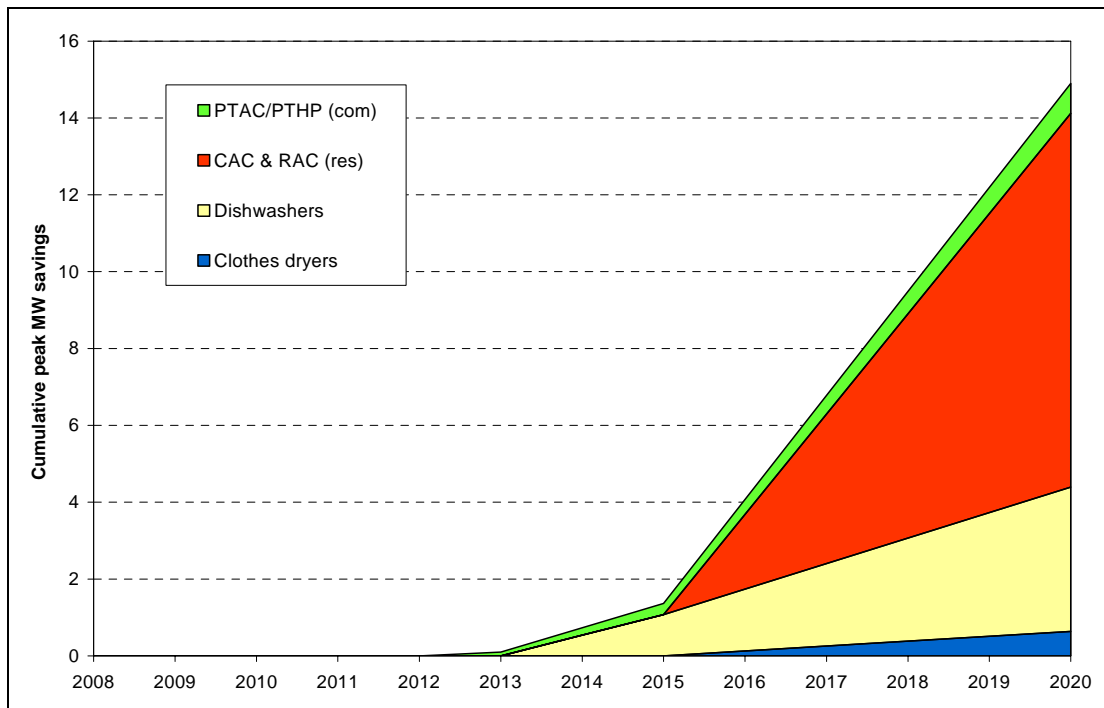


Figure E4-20. Estimated potential savings from future codes and standards in SDG&E (gross savings incremental to C&S-adjusted base market potential)

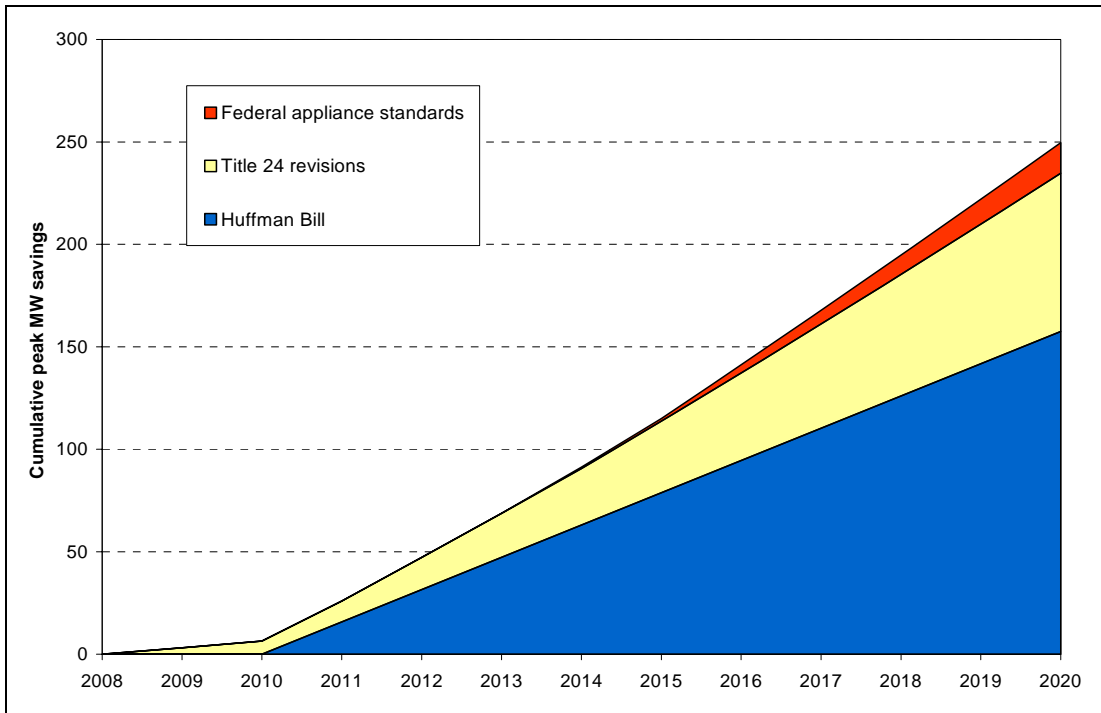


Figure E4-21. Uncertainty estimate of total potential savings from future codes and standards in SDG&E (gross savings incremental to C&S-adjusted base market potential)

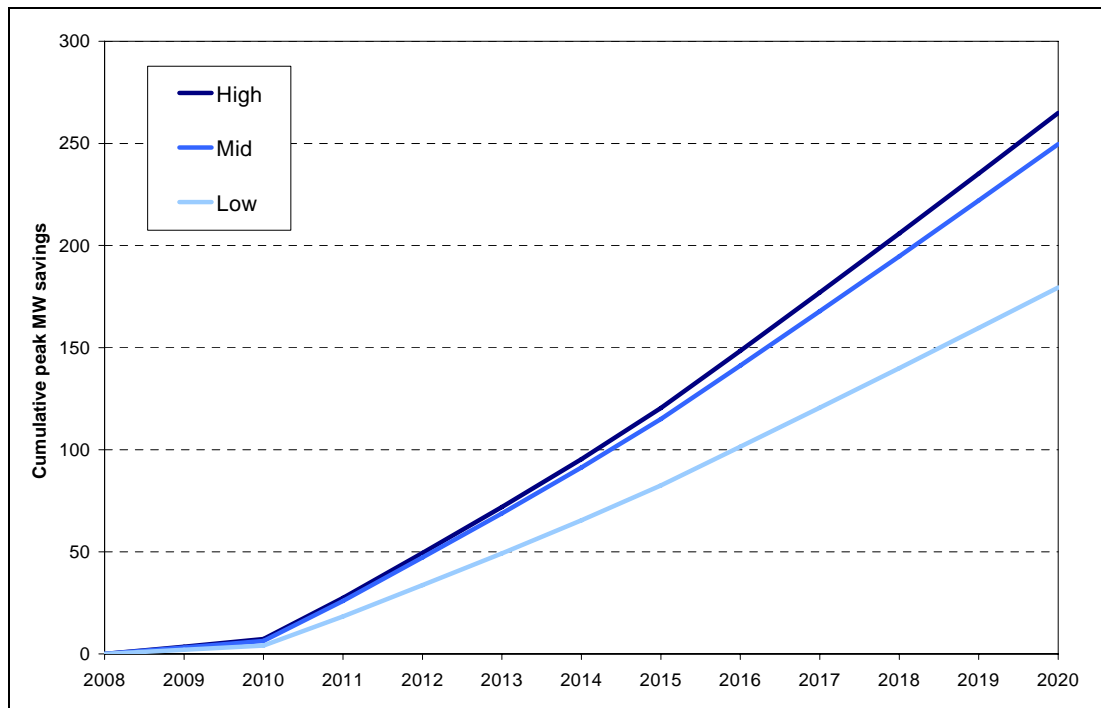


Figure E4-22. Estimated potential savings from all scenarios in SDG&E (gross savings assuming base-funding for IOU programs)

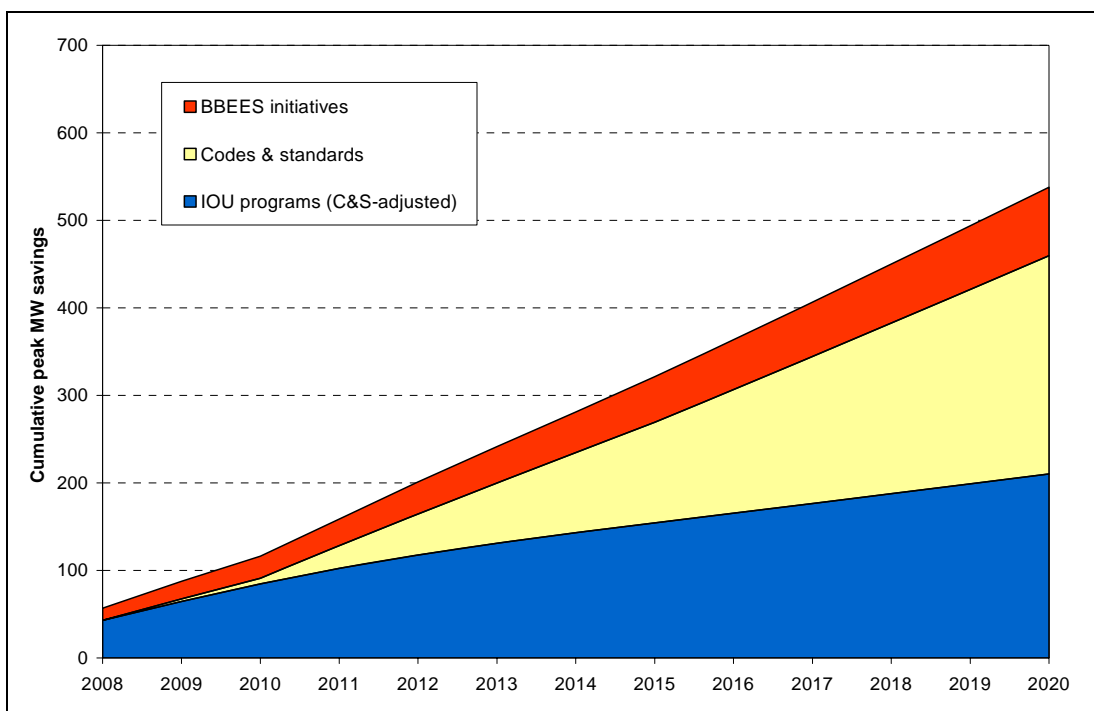


Figure E4-23. Estimated potential savings from all scenarios in SDG&E (gross savings assuming full-funding for IOU programs)

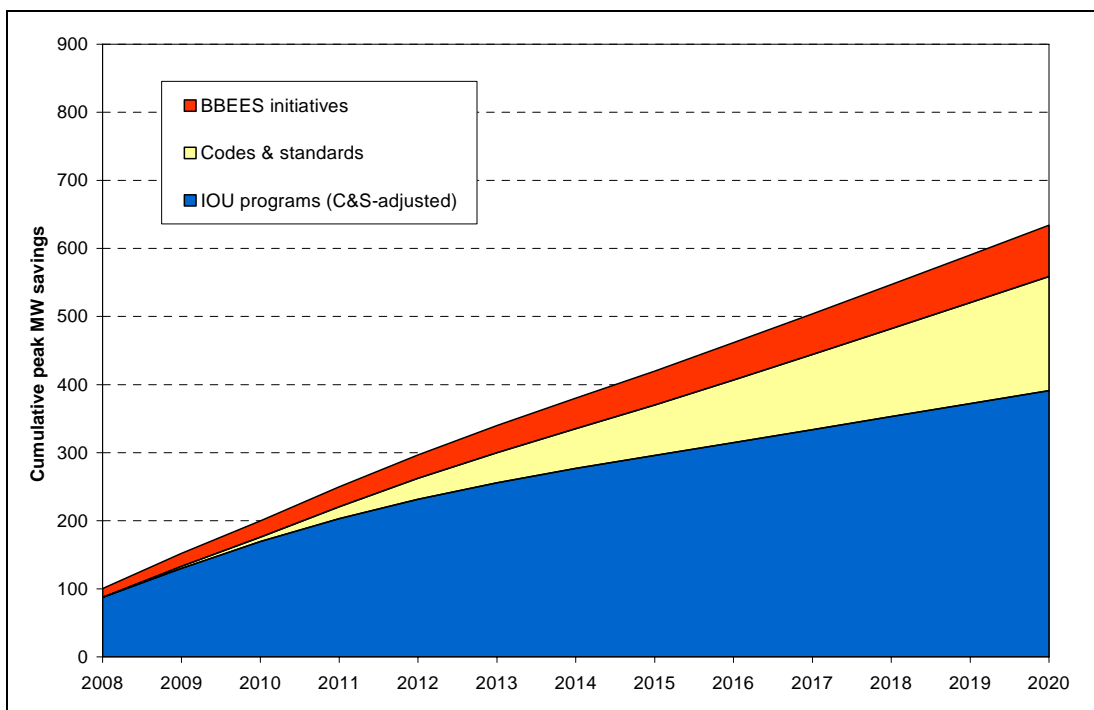


Table E4-16. Summary of estimated savings potential for each scenario in SDG&E (cumulative gross peak MW savings in 2020)

Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	HVAC	24	18	13	24	18	13
	RNC	54	38	27	53	37	26
	CNC	37	22	18	35	21	16
	Total	115	78	57	112	75	55
Huffman Bill	Res existing	97	97	73	44	44	33
	RNC	25	25	19	12	12	9
	CNC	36	36	27	19	19	14
	Total	158	158	118	75	75	56
Title 24 revisions	RNC	38	31	18	38	31	18
	CNC	50	46	31	50	46	31
	Total	88	77	49	88	77	49
Federal standards	Clothes dryers	1	1	1	1	1	1
	Dishwashers	5	4	3	5	4	3
	CAC & RAC (res)	13	10	8	13	10	8
	PTAC/PTHP (com)	1	1	1	1	1	1
	Total	19	15	12	19	15	12
IOU code compliance (res)	Total	4	3	2	4	3	2
IOU programs (C&S-adjusted)	Res existing	80	58	39	195	162	94
	Com existing	130	110	76	190	161	112
	Industrial	35	28	21	45	36	27
	RNC	18	12	8	34	29	15
	CNC	3	2	2	5	4	3
	Total	266	210	146	469	391	251
TOTAL GROSS SAVINGS POTENTIAL		650	541	385	768	637	426
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		<i>201</i>	<i>136</i>	<i>100</i>	<i>201</i>	<i>136</i>	<i>100</i>

Figure E4-24. Uncertainty estimate of total potential savings from all scenarios in SDG&E (gross savings assuming base-funding for IOU programs)

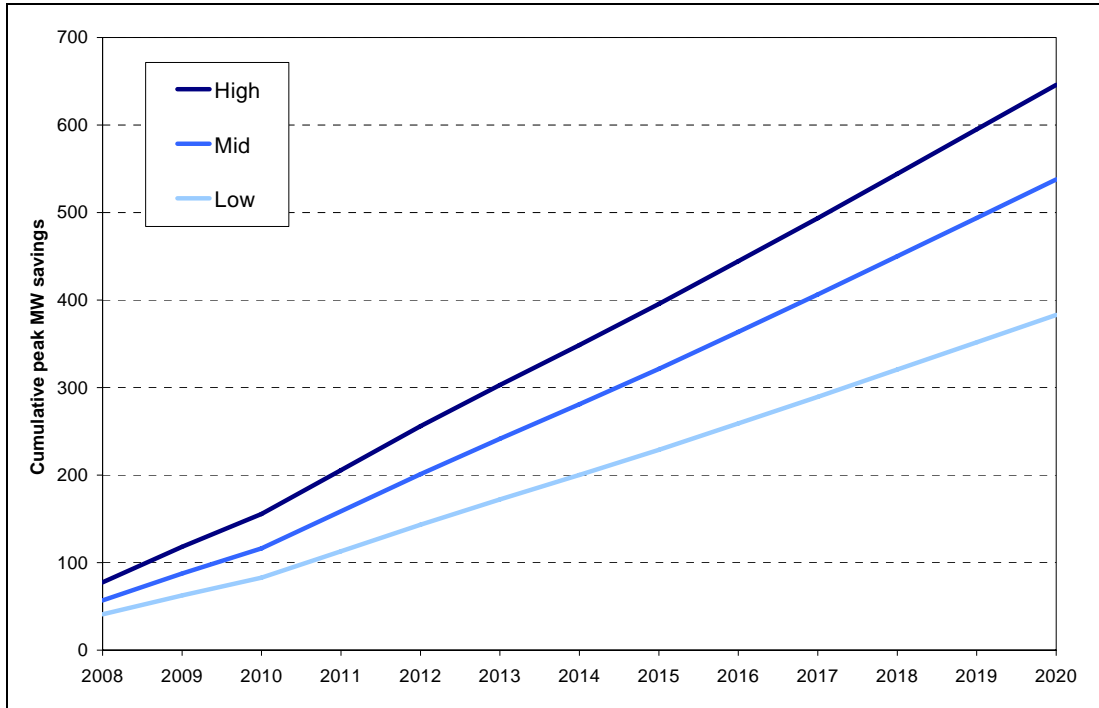


Figure E4-25. Uncertainty estimate of total potential savings from all scenarios in SDG&E (gross savings assuming full-funding for IOU programs)

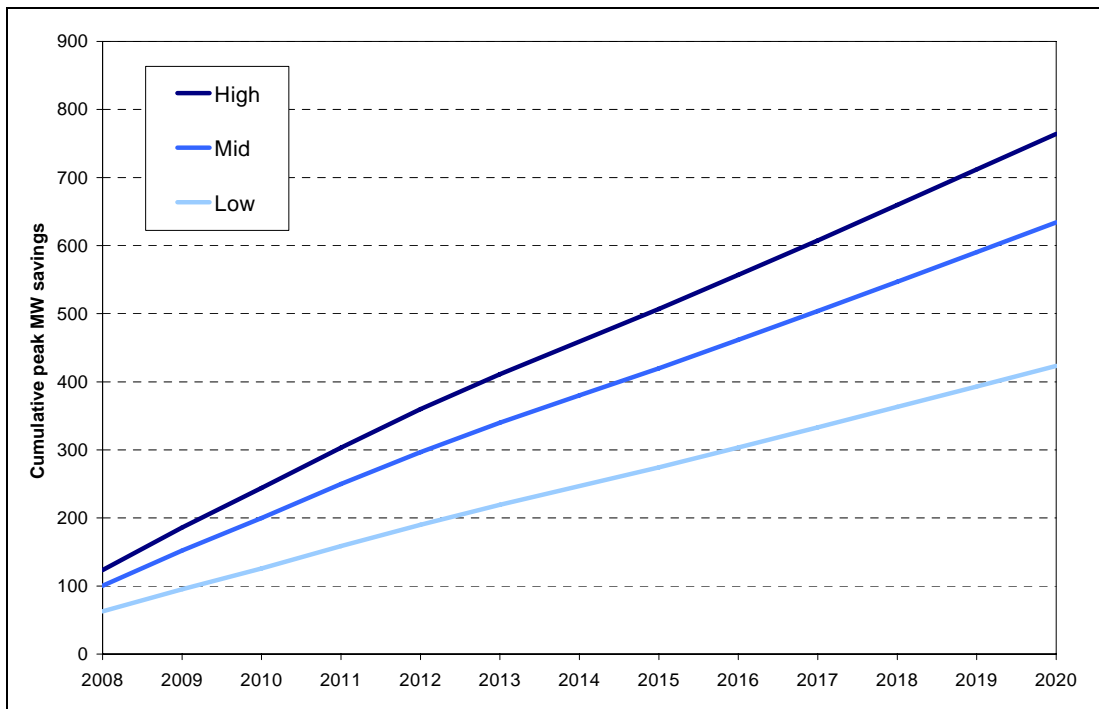


Figure E4-26. Cumulative peak demand savings from High, Mid and Low Cases in SDG&E compared to current goals through 2013

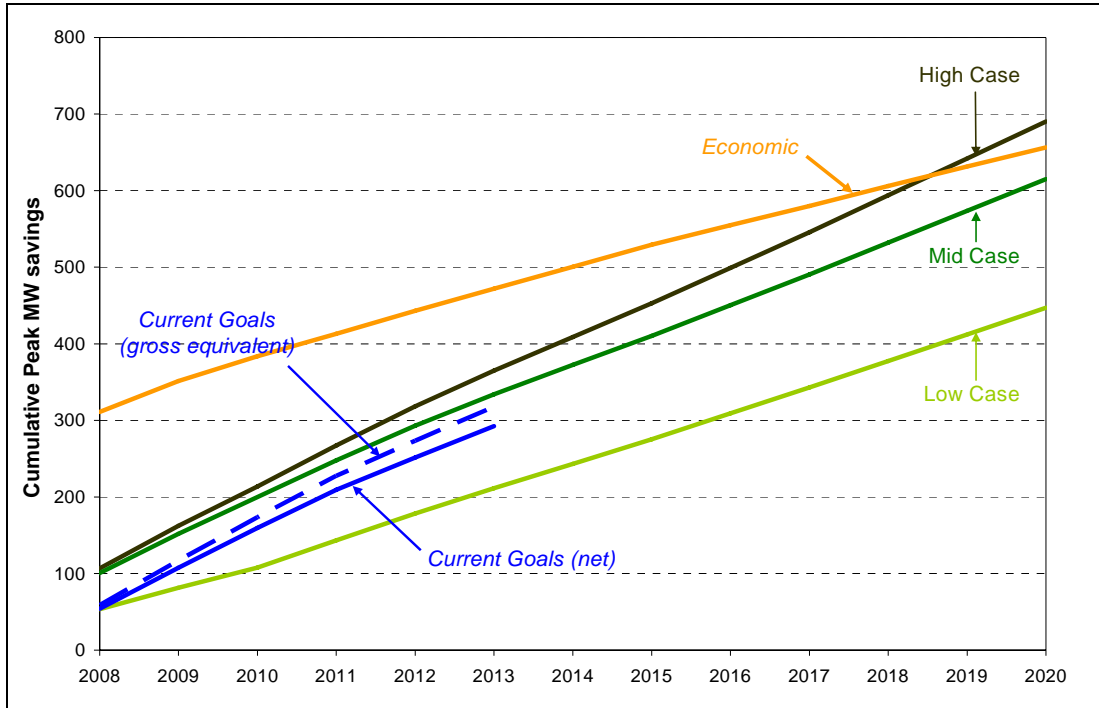


Figure E4-27. Composition of peak demand savings across mechanisms in the Low Case in SDG&E

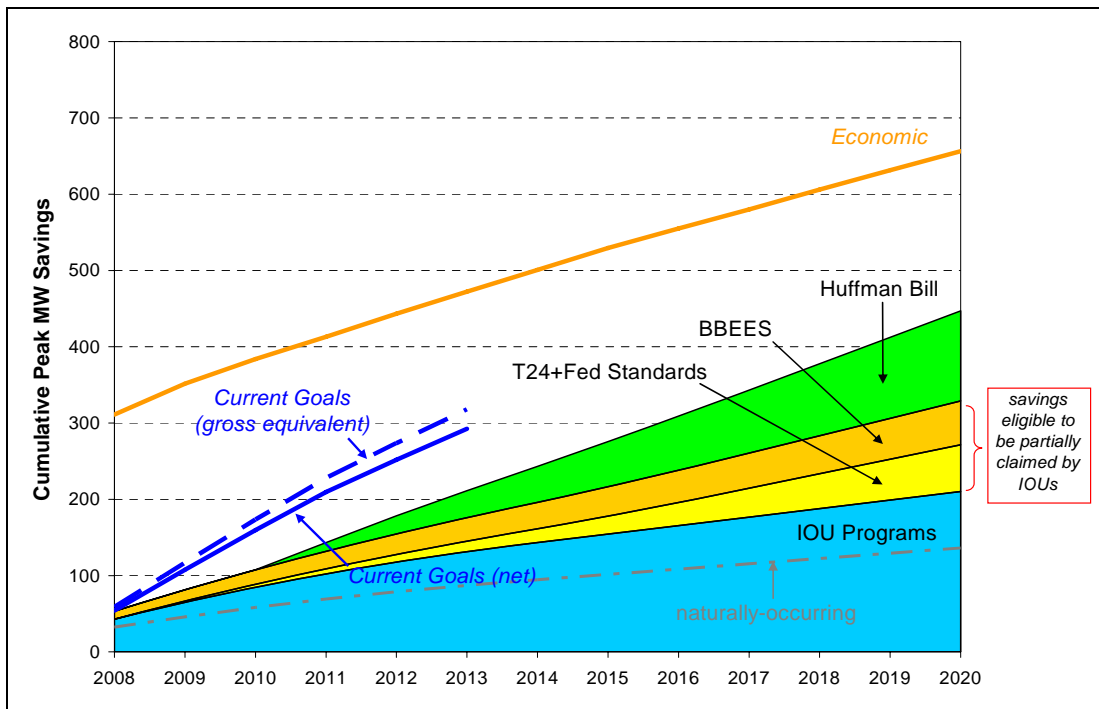


Figure E4-28. Composition of peak demand savings across mechanisms in the Mid Case in SDG&E

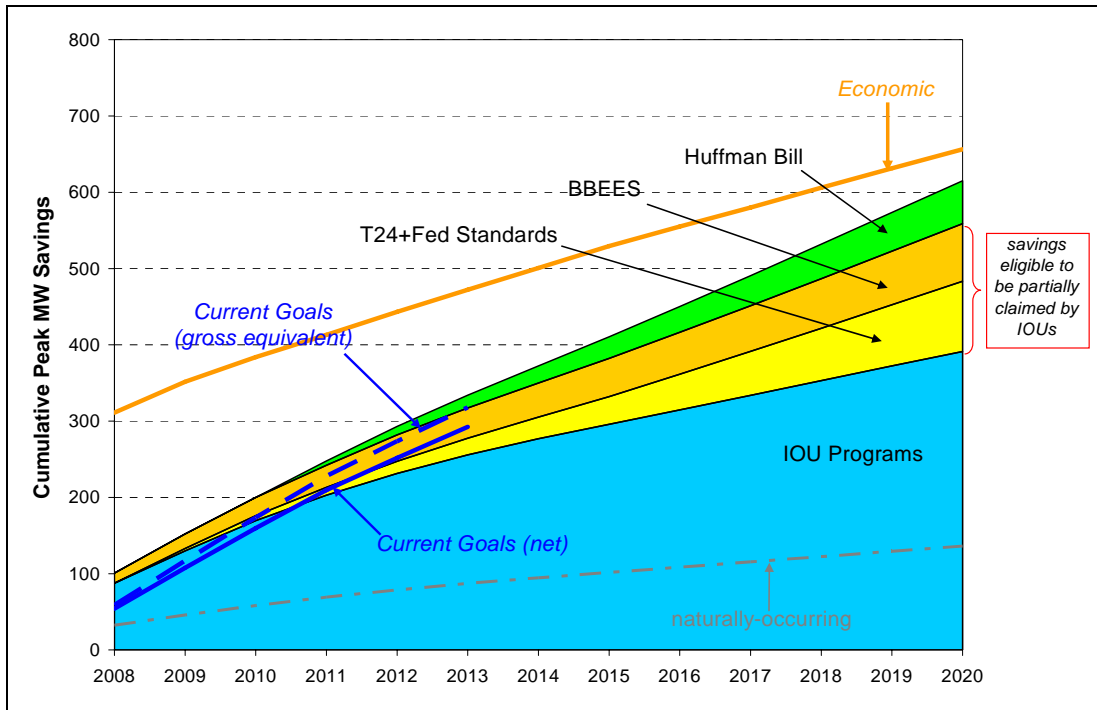


Figure E4-29. Composition of peak demand savings across mechanisms in the High Case in SDG&E

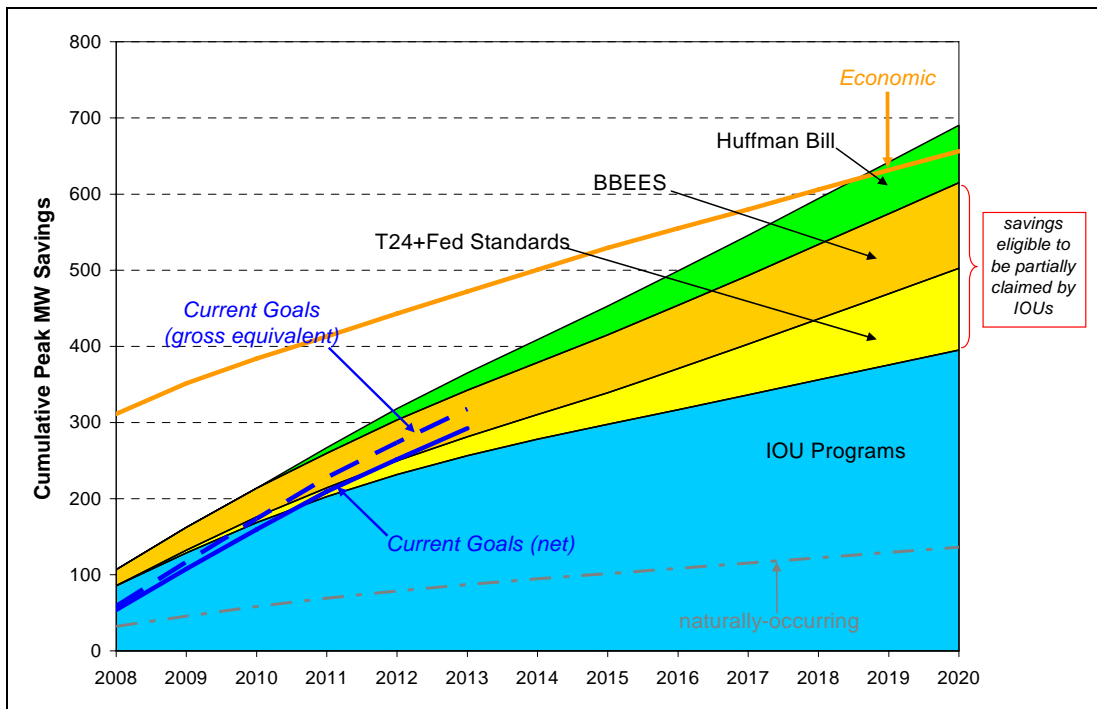


Table E4-17. Estimated peak demand savings in the High, Mid, and Low straw man cases in SDG&E (cumulative peak MW savings in 2020)

Savings mechanism:	Low Case	Mid Case	High Case
Utility programs (gross)	210	391	395
Huffman Bill	118	56	75
Codes & standards	61	92	107
BBEES initiatives	57	75	112
Total	447	615	690

Table E4-18. Cumulative peak MW savings by saving mechanism in the High, Mid, and Low straw man cases in SDG&E over time

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Huffman Bill	0	0	0	12	24	35	47	59	71	83	95	106	118
	T24+Federal Standards	0	2	4	6	10	14	18	23	31	38	45	53	61
	BBEES	11	15	19	23	27	31	35	39	42	46	50	54	57
	IOU Programs	43	64	85	102	118	131	143	154	165	177	188	199	210
Mid	Huffman Bill	0	0	0	6	11	17	23	28	34	40	45	51	56
	T24+Federal Standards	0	3	6	10	16	22	28	36	47	58	69	80	92
	BBEES	13	19	24	29	35	40	45	50	55	60	65	70	75
	IOU Programs	87	130	170	203	231	256	277	296	315	334	353	372	391
High	Huffman Bill	0	0	0	8	15	23	30	38	45	53	60	68	75
	T24+Federal Standards	0	4	7	12	18	25	32	42	54	67	80	93	107
	BBEES	21	30	38	45	54	61	68	76	83	90	98	105	112
	IOU Programs	86	129	169	203	232	256	278	297	317	336	356	376	395
Benchmarks	<i>Economic</i>	311	351	384	413	443	472	501	529	555	580	606	632	656
	<i>Current IOU Goals (gross equivalent)</i>	59	117	173	228	273	318							
	<i>Current IOU Goals (net)</i>	54	108	160	210	252	292							

Appendix F

Statewide Gas Savings Results

1

Introduction

In this appendix, we present the detailed inputs, assumptions, and results for the gas savings potential scenarios conducted as part of Itron's work assisting the Energy Division in updating the energy efficiency savings goals for 2012 and beyond. We conducted these scenario analyses in order to estimate potential gas savings from a variety of future IOU, state, and federal programs and activities. The primary objective of the scenario analyses is to provide a comprehensive quantitative and qualitative assessment of gas savings potential from a variety of perspectives in order to help the CPUC frame and choose energy efficiency goals in a way that best meets the CPUC's policy objectives.

The overall modeling framework and analysis approach used in the gas savings scenarios is the same as that used in the analysis of electric energy and demand savings potential, as presented in Section 2 of the main report, with the exception of the analysis segmentation as shown in Table F1-1. The methods documentation presented in this appendix focuses on inputs and assumptions that are unique to the gas analysis.

This appendix is organized as follows. First we present the detailed inputs, assumptions, and definitions for each of the gas savings scenarios developed for this study. Next we present the basic results of each scenario and highlight key results and caveats. We then present the results of three straw man scenarios that synthesize three sets of internally-consistent policy choices related to goal-setting.

Note that this appendix presents and discusses gas savings potential results at the statewide level, i.e. aggregate across IOU service territories. IOU-specific results for the gas savings scenarios, including the results of the three straw man cases, are provided in Appendix G.

Table F1-1. Summary of SESAT segmentation for gas analysis

Segment Name	Segment Definition		
IOU service territory	<ul style="list-style-type: none"> • PG&E • SCG • SDG&E 		
Sector	<ul style="list-style-type: none"> • Residential 	<ul style="list-style-type: none"> • Commercial 	<ul style="list-style-type: none"> • Industrial
Building type	<ul style="list-style-type: none"> • Single-family dwelling • Multi-family dwelling 	<ul style="list-style-type: none"> • College • Food Store • Health • Large Office • Lodging • Miscellaneous • Refrigerated Warehouse • Restaurant • Retail • School • Small Office • Unrefrigerated Warehouse 	<ul style="list-style-type: none"> • Manufacturing • Agriculture* • Construction* • Mining* • Transportation, Communications, & Utilities (TCU)*
Building vintage	<ul style="list-style-type: none"> • Existing construction • New construction 	<ul style="list-style-type: none"> • Existing construction • New construction 	<ul style="list-style-type: none"> • Existing construction
End use	<ul style="list-style-type: none"> • Space Heating • Water Heating • Cooking • Clothes Dryer • Spa Heating • Pool Heating • Other 	<ul style="list-style-type: none"> • Space Cooling • Space Heating • Water Heating • Commercial Cooking • Miscellaneous 	<ul style="list-style-type: none"> • Process Heating • Boilers • HVAC • Feed stocks • Other

* End-use allocations for the Agriculture, Construction, Mining, and TCU sectors were not estimated for this study. For those segments, energy use and savings potential were analyzed at the sector/building type level.

2

Scenario Definitions and Assumptions

In this section, we present a detailed overview of the definitions, assumptions, and input data sources used in each of the scenarios developed and analyzed for the gas savings analysis. To the extent possible, the critical assumptions in each scenario were vetted with ED staff through a series of memos and briefings at the CPUC. First we present two sets of scenarios that were based on the gas savings results of Itron's 2008 update study and the ASSET modeling framework – theoretical benchmarks of potential and achievable potential from IOU programs. We then present the scenarios designed to estimate potential gas savings from implementation of the BBEES initiatives. Finally, we present the scenarios designed to estimate the potential gas savings impacts of future codes and standards from two distinct and important perspectives: 1) the perspective of the IOUs (i.e., impacts on the IOU program portfolios) and 2) the perspective of total savings to society. The full set of final savings assumptions developed for each scenario presented below is shown in Appendix H.

2.1 ASSET Scenarios

As discussed previously in Section 2 of the main report, our study approach was explicitly designed to leverage the results of the 2008 Itron update study as the primary starting points for exploring alternative policy scenarios. To do this, we aggregated the measure-level savings results from the latest ASSET analyses of technical, economic, market, and naturally-occurring potential into the end uses and segments analyzed for this study (see Table 2-1 in main report). We then calculated percent savings values at the end use and segment derived from the ratio of MTherm savings to baseline MTherm consumption. These percent savings values were then applied in SESAT as the $EffAdj_{ij}$ factors to essentially reproduce the MTherm savings estimated in the 2008 Itron update study but within the SESAT analytic framework.

Below we describe the particular ASSET analyses that were replicated in SESAT for this study and their respective relevance to the goal-setting process. The first two ASSET scenarios – technical potential and economic potential – serve as two theoretical benchmarks, while the latter three ASSET scenarios – full gross market potential, base gross market potential, and naturally-occurring potential – represent scenarios of achievable savings.

Technical potential

Technical potential is a theoretical benchmark of the upper bound of energy efficiency potential in a technical feasibility sense, regardless of cost or acceptability to customers.

As such, technical potential does not reflect the amount of energy efficiency potential that is achievable through voluntary energy efficiency programs. Rather, technical potential reflects the amount of energy savings that would be possible if all technically applicable and feasible opportunities to improve energy efficiency were taken, including retrofit measures, replace-on-burnout measures, and new construction measures. Applicability limits measure installation to situations where a qualifying end use or technology is present (e.g., water heater blankets for electric water heaters require an electric water heater to be present). Feasibility limits measure installation to situations where installation is physically practical (e.g., available space, noise considerations, and lighting level requirements are considered, among other things).

Economic potential

Economic potential is also a theoretical benchmark of the upper bound of energy efficiency potential in a technical feasibility sense, but restricted to only potential savings from those measures that are cost-effective when compared to supply-side alternatives. Economic potential takes into account the fact that many energy efficiency measures cost more to purchase initially than do their standard-efficiency counterparts. The incremental costs of each efficiency measure are compared to the savings delivered by the measure to produce estimates of energy savings per unit of additional cost. These estimates of energy efficiency resource costs are then compared to estimates of other resources such as building and operating new power plants using the total resource cost (TRC) test.¹ In this study, all measures with TRC ratios greater than or equal to 1 are considered to be cost-effective, which is consistent with the CPUC's definition of cost-effectiveness for energy efficiency measures and portfolios. It should be noted, however, that the TRC ratios used to determine economic potential do not include program administration costs associated with individual measures. This is primarily due to the difficulty in reasonably estimating program administration costs for measures that have yet to be promoted or incentivized in IOU programs. In this sense, economic potential is most accurately interpreted as a theoretical construct with respect to the cost-effective savings achievable through voluntary IOU programs, since the TRC ratios of some measures would fall below 1 after actual program costs are taken into account.

Full restricted market potential

Market potential refers to the amount of customer measure adoption and resulting savings that would occur in response to specific levels of program funding and measure incentive levels over time. Market potential takes into account a variety of factors such as participant cost-effectiveness or payback period, awareness, and willingness to adopt (which in turn depends on various market barriers such as risk perceptions, split incentives, limited rationality, and the characteristics of individual measures). Market potential is often defined as a direct subset of economic potential (i.e. measures with $TRC \geq 1$). In reality, however, some measures currently included in IOU program portfolios in California do not pass TRC, since current program rules allow such

¹ The Itron 2008 update study used avoided costs values derived from the Avoided Cost Model developed by Energy and Environmental Economics, Inc (E3) for the CPUC (E3, 2006) and current retail rates (as of August 2006) forecasted forward at constant real prices. .

measures as long the TRC ratio for the entire portfolio greater than 1. In order to account for this dynamic but also allow for informative comparisons of market potential to economic potential (for benchmarking purposes), the market potential scenarios used in this study are “restricted” to the potential savings from measures with TRC greater than or equal to 0.85.

For this study, we leveraged the ASSET results of two market potential scenarios in particular – “full restricted” market potential and “base restricted” market potential. These two market potential scenarios differ only in the level of measure incentives assumed to be available. In the “full restricted” market potential scenario, we assume that incentives are set equal to the full incremental cost of the efficiency measure.²

Base restricted market potential

The “base restricted” market potential scenario differs from the “full restricted” market potential scenario described above only in the level of incentives assumed to be offered. In the base restricted market potential scenario, we assume that incentive levels remain equal to the average incentives currently offered in IOU program portfolios. From this perspective, the base market potential scenario in some ways represents a “business-as-usual” scenario in this study – continuation of current programs at current incentive levels, assuming current forecasts of avoided costs and natural gas prices, and assuming no significant changes in building codes, appliance standards, or other efficiency-related policies going forward. However, this characterization is not strictly true since IOUs currently offer rebates for a host of measures that individually do not currently pass TRC and are thus not included in our base restricted market forecast.

Naturally-occurring potential

Both the full restricted and base restricted market potential scenarios used in this study include potential savings from customer adoptions that may or may not have resulted directly from utility programs. In this respect, the market potential scenarios produce estimates of “gross” potential energy savings from voluntary IOU programs that include savings from natural market forces (i.e., “free-riders” a term originally meant to convey adoptions that would occur without the influence of any market interventions ever), participant and non-participant spillover (i.e., incremental adoptions attributable to programs that occur outside of direct program participation), program-induced energy efficiency market effects (i.e., permanent changes in markets that lead to self-sustaining increases in adoption of energy efficiency), and other dynamics that result in measure adoptions that would have occurred in the absence of program interventions (e.g., the effect of structural shocks such as the California energy crisis of 2000-2002).

As part of the 2008 Itron update study, Itron also produced estimates of “naturally-occurring” market potential to complement estimates of gross market potential.

² For a conversion or retrofit measure, the incremental cost is the full installation cost of the measure including the labor cost to install it. For a replace-on-burnout measure, the incremental cost is the difference in equipment cost from the base measure to the high efficiency measure. Labor installation costs are not included in incremental costs for replace-on-burnout measures.

Naturally-occurring potential is defined as the potential savings from customer adoptions that would occur in the absence of *further* utility programs from the outset of the forecast period. The first year of the forecast presented in the 2008 Itron update study is 2007. Naturally-occurring potential thus includes savings from measure adoptions due to free-riders, participant and non-participant spillover, and longer-term market effects (e.g., inclusive of program influences prior to our model calibration period of 2004-2005).

2.2 Big Bold Energy Efficiency Strategies

The first set of alternative policy scenarios estimate the potential energy savings from the implementation of a set of programmatic initiatives referred to as the Big Bold Energy Efficiency Strategies (BBEES). In her April 13, 2007 scoping ruling, assigned Commissioner Grueneich defined the BBEES initiatives as “strategies to promote maximum energy savings through the coordinated actions of utility programs, market transformation, and codes and standards” (CPUC, 2007a). As such, the BBEES initiatives represent a significant departure from the incentive-based voluntary programs that comprise the vast majority of the current IOU program portfolios.

Initially, the CPUC identified four programmatic areas for further consideration - residential new construction, commercial new construction, industrial programs and HVAC. The CPUC then held a series of workshops designed to solicit input and feedback regarding the feasibility, design and potential impact of strategies in these areas. After receiving written comments from stakeholders, the CPUC directed the utilities, as part of D.07-10-032, to include specific programs to support the implementation of three of the four BBEES initiatives in their 2009-2011 portfolio applications as well as their long-term Strategic Plans (CPUC, 2007b). These three initiatives are residential new construction, commercial new construction, and small HVAC.

In the remainder of this subsection, we present the definitions, key assumptions, modeling approach, and data sources used to estimate the potential gas savings from implementation of the two new construction BBEES initiatives. Note that the small HVAC initiative is focused on replace-on-burnout opportunities for high-efficiency electric air conditioning and related high-quality ventilation strategies, and we did not analyze any gas savings impacts from this initiative. However, it is expected that high quality ventilation installations that result from the small HVAC initiative will also produce modest savings in residential gas space heating when such installations occur in homes with central ventilation systems.

Residential new construction

Definition. We defined the “Big Bold” residential new construction (BB RNC) scenario following the CPUC’s definition in D.07-10-032 – by 2020, all new housing built in California’s IOU service territories will be built to consume “zero net energy” (*ibid*).³

³ In D.07-10-032, zero net energy is defined as “the implementation of a combination of building energy efficiency design features and on-site clean distributed generation that result in no net purchases from the electricity or gas grid, at the level of a single “project” seeking development entitlements and building code permits” (CPUC, 2007a).

Since the objective of this study is to support the CPUC’s decision-making related energy savings goals, we limited our definition of the BB RNC scenario to the energy efficiency component of the “zero net energy” target. As such, we leveraged the interim market penetration milestones defined by the CPUC for the BB RNC initiative, which use the Tier 2 energy efficiency requirements from the CEC’s New Solar Home Partnership program (35% energy savings compared to homes meeting 2005 Title 24 performance standards) as the primary performance benchmark. We also incorporated a set of complimentary interim market penetration milestones related to the BB RNC initiative based on Tier 3 efficiency requirements (55% savings compared to 2005 Title 24) that were developed in the *California Energy Efficiency Strategic Plan (Draft)* (CPUC, 2007c). The complete set of interim milestones used in the BB RNC scenario for the gas analysis is shown in Table F2-1 below.

Table F2-1. Efficiency level and market penetration assumptions used in BB RNC scenario

Efficiency level:	Case:	Market Penetration:		
		2011	2015	2020
Tier 2	High ^a	40%	90%	100%
	Mid	30%	60%	80%
	Low	20%	30%	60%
Tier 3	High ^b	10%	40%	70%
	Mid	8%	25%	60%
	Low	5%	10%	25%

^a High values reflect the 2011 milestone in *California Energy Efficiency Strategic Plan (Draft)* and the 2015 and 2020 milestones in D.07-01-032

^b High values reflect milestones in *California Energy Efficiency Strategic Plan (Draft)*

Note that we treated the interim market penetration milestones defined in D.07-10-032 and the draft residential *Strategic Plan* as the “high” savings case, consistent with some stakeholders characterizing the BB RNC milestones as “difficult but feasible” and the CPUC’s own characterization of the BB RNC milestones as requiring “an aggressive and creative action plan” (CPUC, 2007b). We then created more conservative “mid” and “low” savings cases based on trajectories of performance and market penetration milestones that were more modest and gradual over time.

For the most part, the market penetration assumptions for the gas analysis (shown in Table F2-1) are identical to those developed and applied in the electric analysis. The one exception, however, is that we adjusted the 2020 market penetration assumption for Tier 3 homes in the “high” savings case downward from the value developed for the electric analysis, from 90% to 70%. This adjustment is related to our assumption that rooftop solar water heating is a key measure in the “package” of advanced measures that achieve Tier 3 savings levels for gas (see more detailed discussion of the Tier 2 and Tier 3 measure “packages” below). As such, we wanted to ensure that our market penetration assumptions for Tier 3 homes in the “high” savings case were consistent with NREL’s

recent assessment that 65% of rooftops in California are suitable for solar water heating (NREL, 2007a), while allowing for the possibility that rooftop availability in the new construction segment will be slightly higher, on average, than NREL’s assessment of rooftop availability in the current building stock.⁴

Modeling assumptions. Due to the cross-jurisdictional nature of the BBEES initiative, it is difficult to forecast the potential savings attributable to particular actors or particular program mechanisms (e.g. IOUs, market effects, or codes and standards). As such, we chose to model savings in the BB RNC scenario as penetration-weighted technical potential, taking into account annual new construction rates over the forecast period. We assumed that this potential is limited to the water heating and space heating end uses in new homes in order to maintain consistency with the current scope of Title 24 relative to gas end uses.

Development of savings inputs. The unit savings assumptions applied in the BB RNC scenario for the gas savings analysis are based on an analysis of “packages” of advanced gas efficiency measures that approach Tier 2 and Tier 3 performance targets, i.e. 35% and 55%, respectively. We conducted this supplemental analysis for the gas BB scenarios to ground the assumed Tier 2 and Tier 3 performance targets within the technical potential of current advanced and emerging technologies and ensure that the market penetration assumptions associated with Tier 2 and Tier 3 packages were consistent with the availability of the technologies that are likely required to deliver the respective levels of gas savings.

Table F2-2 shows the packages of measures that form the basis of our aggregate Tier 2 and Tier 3 unit savings assumptions for the BB RNC scenario in the gas analysis. As the table shows, the Tier 2 package includes tankless water heaters, condensing furnaces, and advanced shell measures, while the Tier 3 package includes condensing water heaters coupled with solar water heaters, condensing furnaces, and advanced shell measures.⁵ Based on the performance benchmarks of these technologies and taking into account interactive effects between measures (e.g. reduction in unit savings from condensing furnaces due to implementation of advanced shell measures), we estimated the aggregate unit savings for Tier 2 and Tier 3 measure packages to be approximately 27% and 45%, respectively.

⁴ It should be noted that with respect to solar water heaters, the “mid” case market penetration assumptions for Tier 3 measure packages is consistent with the goals of AB 1470 (the Solar Hot Water and Efficiency Act of 2007), i.e. 200,000 cumulative installations of solar water heaters in California by 2017.

⁵ Advanced shell measures include advanced windows, deeply insulated ducts, insulated slab edges, radiant barrier roof sheathing, R49 ceilings, insulated headers, and structural insulated panels.

Table F2-2. Measure-level assumptions used to develop aggregate unit savings values in the BB RNC scenario

Measure Package:	Measure:	Performance Benchmarks:		Measure Savings:	UEC-weighted Savings*:
		Measure	Baseline Tech		
Tier 2	Tankless water heater	0.84 EF	0.60 EF	29%	27%
	Advanced shell measures	-	-	15%	
	Condensing furnace	97 AFUE	81 AFUE	12%	
Tier 3	Condensing water heater	0.86 EF	0.60 EF	30%	45%
	Solar water heater	0.5 SF	-	50%	
	Advanced shell measures	-	-	15%	
	Condensing furnace	97 AFUE	81 AFUE	12%	

* includes adjustments for interactive effects between measures

We then adjusted these aggregate technical unit savings values to be incremental to the market potential associated with residential new construction programs in the 2008 Itron update study in order to avoid double-counting with the ASSET full and base gross market potential scenarios.⁶ After weighting these technical unit savings using the penetration milestones in Table F2-1 and the CEC’s forecast of annual new construction rates, the penetration-weighted savings estimates were then applied to the baseline UECs for water heating and space heating in new homes in each year of the forecast period.

Uncertainty bounds. The uncertainty bounds in our BB RNC scenario reflect the range of assumed market penetration rates shown in Table F2-1 above. As discussed above, we treated the BB RNC market penetration milestones as the upper bound and created more modest penetration milestones to represent the middle case and the lower bound of potential savings. We did not adjust the technical unit savings or annual new construction assumptions across any of the BB RNC cases.

Commercial new construction

Definition. We defined the “Big Bold” commercial new construction (BB CNC) scenario following the CPUC’s definition in D.07-10-032 – by 2030, all new commercial buildings built in California’s IOU service territories will be built to consume “zero net energy” (CPUC, 2007b). As in our BB RNC scenario, we limited our definition of the BB CNC scenario to the energy efficiency component of the “zero net energy” target. Again, we leveraged the interim market penetration and performance milestones defined by the CPUC for the BB CNC initiative to frame the BB CNC scenario for the gas analysis. Specifically, the BB CNC scenario assumes penetration of new commercial buildings that exceed 2005 Title 24 performance levels by 30% according to the milestones shown in

⁶ The residential new construction programs modeled in the 2008 Itron update study are based on new homes with 15% energy savings compared to 2005 Title 24 new homes.

Table F2-3 below.⁷ These market penetration assumptions are identical to those developed and applied in the electric analysis for the BB CNC scenario.

Table F2-3. Efficiency level and market penetration assumptions used in BB CNC scenario

Efficiency level:	Case:	Market penetration:		
		2011	2015	2020
Tier 2	High ^a	30%	50%	70%
	Mid	20%	35%	55%
	Low	10%	20%	40%

^a High values reflect milestones in D.07-01-032

Note that we treated the interim market penetration milestones defined in D.07-10-032 as the “high” savings case, consistent with the CPUC’s own characterization of the BB CNC milestones as requiring “an aggressive and creative action plan” (CPUCa, 2007). We then created more conservative “mid” and “low” savings cases based on trajectories of performance and market penetration milestones that were more modest and gradual over time as shown in Table 3-3 above.

Modeling assumptions. Due to the cross-jurisdictional nature of the BBEES initiative, it is difficult to forecast the potential savings attributable to particular actors or particular program mechanisms (e.g. IOUs, market effects, or codes and standards). As such, we chose to model savings in the BB CNC scenario as penetration-weighted technical potential, taking into account annual new construction rates over the forecast period. We assumed that this potential is applicable to the water heating and space heating, in order to maintain consistency with the current scope of Title 24 relative to gas end uses.

Development of savings inputs. The unit savings assumptions applied in the BB CNC scenario for the gas analysis are based on an analysis of “packages” of advanced gas efficiency measures that approach the 30% energy savings target. We conducted this supplemental analysis for the gas BB scenarios to ground the assumed performance targets within the technical potential of current advanced technologies and ensure that the market penetration assumptions associated with these measures were consistent with the availability of the technologies that are likely required to deliver the respective levels of gas savings.

Table F2-4 shows the packages of measures that form the basis of our aggregate unit savings assumption for the BB CNC scenario in the gas analysis. As the table shows, the BB CNC package includes condensing boilers, advanced boiler controls, and advanced

⁷ D.07-10-032 did not list a 2020 penetration milestone associated with the 30% energy savings benchmark for commercial new construction. The 70% penetration target shown in Table F2-3 is an assumption made by Itron in coordination with ED staff for purposes of this study.

shell measures.⁸ Based on the performance benchmarks of these technologies and their interactive effects (e.g. reduction in unit savings from condensing boilers due to implementation of advanced shell measures), we estimated the aggregate unit savings for BB CNC measure packages to be approximately 28%.

Table F2-4. Measure-level assumptions used to develop aggregate unit savings values in the BB CNC scenario

Measure Package:	Measure:	Performance Benchmarks:		Measure Savings:	UEC-weighted Savings*:
		Measure	Baseline Tech		
Tier 2	Condensing boiler	95 AFUE	80 AFUE	12%	29%
	Advanced shell measures	-	-	35%	

* includes adjustments for interactive effects between measures

We then adjusted this technical unit savings value to be incremental to the market potential associated with commercial new construction programs in the 2008 Itron update study in order to avoid double-counting with the ASSET full and base gross market potential scenarios.⁹ After weighting technical unit savings using the penetration milestones in Table F2-3 and the CEC's forecast of annual new construction rates, the penetration-weighted savings estimates were then applied to the baseline EUIs for water heating and space heating in new commercial buildings in each year of the forecast period.

Uncertainty bounds. The uncertainty bounds in our BB CNC scenario reflect the range of assumed market penetration rates shown in Table F2-3 above. As discussed above, we treated the BB CNC market penetration milestones as the upper bound and created more modest penetration milestones to represent the middle case and the lower bound of potential savings. We did not adjust the technical unit savings or annual new construction assumptions across any of the BB CNC cases.

2.3 Codes & Standards (IOU Perspective)

The second set of alternative policy scenarios estimates the potential impacts of future codes and standards on the energy efficiency resource available to be captured through voluntary IOU programs. The CEC is charged with periodically revising both Title 24 building codes and Title 20 appliance standards. These revisions often obviate IOU programmatic efforts for related measures that are subsumed by Title 24 code or Title 20 standards. In the absence of new efficiency measures and programs to replace the savings previously captured with these programs, the impact of revisions to Title 24 and Title 20

⁸ Advanced shell measures include high-performance insulation, dynamic windows, and passive solar design. The assumed unit savings associated with these measures is consistent with NREL's assessment of the technical potential of zero-energy building strategies in the commercial sector (NREL, 2007b).

⁹ The commercial new construction programs modeled in the 2008 Itron update study are based on new buildings with 15% energy savings compared to 2005 Title 24 new buildings.

is a relative decrease in the achievable energy efficiency resource available to be captured by voluntary IOU programs going forward. Frequent and significant revisions to Title 24 and Title 20, therefore, could have potentially important impacts on the achievable market potential available to IOUs, especially in the absence of an influx of new, cost-effective efficiency measures and technologies. Indeed, setting energy savings goals for IOUs requires consideration of the scale and range of such impacts. To this end, we reviewed the outlook for significant revisions to Title 24 and Title 20 going forward and developed a set of scenarios to estimate the potential impacts of future codes and standards on the energy efficiency resource available to be captured by voluntary IOU programs.

In the remainder of this subsection, we present the definitions, key assumptions, modeling approach, and data sources used in these scenarios.

Strengthening of Title 24

Definition. We defined the “Title 24 (IOU perspective)” scenario as the implementation of revisions to Title 24 building codes that obviate current voluntary programs administered by the IOUs targeting new residential and commercial construction designs that exceed 2005 Title 24 performance levels.¹⁰

Modeling assumptions. We modeled the implementation of Title 24 (IOU perspective) scenario as the phase-out of the current IOU new construction programs. These programs offer incentives for the design and construction of new buildings that exceed 2005 Title 24 requirement by 15% or better. Given the typical one-year lag between final rulemaking and implementation, we assumed that current IOU new construction programs will be effectively phased-out in 2009 due to implementation of the incoming 2008 Title 24 standards.

Development of savings inputs. The key savings assumptions in the Title 24 (IOU perspective) scenario were derived from a measure-level analysis of ASSET’s full and base gross market potential forecasts for IOU residential and commercial new construction programs. Specifically, we took ASSET’s year-by-year forecast of achievable savings from IOU new construction programs and adjusted the annual savings to reflect a complete phase-out of current programs in 2009. We then applied these impacts to the baseline UECs for water heating and space heating in new residential buildings and the baseline EUIs for water heating and space heating in new commercial buildings in each year of the forecast period.

¹⁰ It is likely that with each revision to Title 24, the IOUs will adjust their new construction programs accordingly to always promote performance that exceeds Title 24 levels. However, because the SESAT modeling framework was not designed to estimate cost-effectiveness or forecast adoption of voluntary IOU programs, we did not attempt to forecast the achievable savings potential that would be associated with future revisions to IOU new construction programs that are likely to coincide with Title 24 revisions. For reference, new construction programs account for slightly less than 10% of the total full and base gross market potential forecasted in the 2008 Itron update study.

Uncertainty bounds. The uncertainty bounds in the Title 24 (IOU perspective) scenario primarily reflect the uncertainty in the forecasted adoption levels of voluntary, IOU new construction programs in the ASSET full and base gross market potential forecasts at the time of the assumed program phase-out.

IOU code compliance programs

Definition. We defined the “IOU Code Compliance” scenario as the establishment and implementation of IOU programs to minimize non-compliance with Title 24 in the residential new construction segment, starting in 2009. Currently, the IOUs do not administer any programs focused on increasing compliance with Title 24 in the new construction segment. However, in light of the latest residential new construction baseline study which estimated significant levels of non-compliance with Title 24 and the likelihood that non-compliance levels will interact with future revisions to Title 24, ED staff felt it was important to assess the possible size of the associated energy efficiency resource that might be available to IOU programs that increase compliance levels. It should be noted that savings from such code compliance programs would be fundamentally different from the savings IOU are eligible to claim from code advocacy efforts.¹¹

Modeling assumptions. We modeled savings the IOU Code Compliance scenario as penetration-weighted technical potential, taking into account assumptions about annual Title 24 noncompliance rates, the share of program-eligible savings potential captured through IOU code compliance programs, and annual residential new construction rates.¹²

Development of savings inputs. The key savings assumptions used in the IOU Code Compliance scenario relate to assumptions about the annual non-compliance rate and the share of program-eligible potential savings captured by IOU code compliance programs. As starting points, we leveraged the results of the latest residential new construction baseline study, which estimated both the overall non-compliance rate and the average non-compliance margin (in energy terms) at the time of the study (Itron, 2004). We then assumed that these non-compliance rates would decline gradually over time as a result of IOU programmatic efforts but would increase to “starting” levels following revisions to Title 24. Next we assumed a range of different performance levels for IOU code compliance programs, defined as the share of eligible savings captured through increases in code compliance (75% in the high case, 50% in the mid case, and 33% in the low case). Finally, the resulting penetration-weighted savings estimates were then applied to

¹¹ Code compliance programs as modeled here represent the approximate amount of savings that could be captured by increasing compliance with existing codes. In contrast, IOU efforts to help the development and implementation of new codes, i.e. code advocacy, allows the IOUs to claim a share of the savings ultimately captured by those new codes and standards. For reference, CPUC internal estimates of the magnitude of savings credited to IOUs from pre-2006 code advocacy work is approximately 5% of current IOU savings goals for PY 2006-2008 (CPUC, 2008).

¹² We did not model code compliance programs in the commercial sector based on findings from the most recent commercial new construction baseline study that nearly 90% of new commercial buildings comply with Title 24 requirements and that, on average, new commercial buildings in California exceeded Title 24 requirements by 10-20% (RLW, 1999).

the baseline UECs for space heating in new residential buildings in each year of the forecast period.

Uncertainty bounds. The uncertainty bounds in the IOU Code Compliance scenario primarily reflect the range of program performance assumed for code compliance programs and the frequency of Title 24 revisions assumed (see the next subsection for details about the Title 24 assumptions).

2.4 Codes & Standards (Societal Perspective)

Finally, in order to complement the codes and standards scenarios described above, we developed a third set of alternative policy scenarios that estimate the potential savings from future codes and standards from the perspective of society at large. The societal perspective on energy savings potential is relevant to goal-setting for a number of reasons, but perhaps the most important of which, from CPUC’s perspective, is the central role that estimates of societal savings potential play in resource procurement planning and GHG mitigation planning. In each of those planning contexts, the most relevant savings metric is the total savings potential for society at large, independent of whether the savings are derived through IOU programs, state codes and standards, or federal codes and standards. In the context of this study, developing estimates of potential savings from codes and standards from a societal perspective was also necessitated due to the CEC’s policy of only forecasting future impacts of “committed” efficiency programs, i.e. those with secured funding (CEC, 2007a).

To this end, we constructed scenarios of the most significant future codes and standards that are likely to be implemented at the state and federal level over the forecast period. To do this, we drew upon an extensive review of the available grey literature from the CEC and the USDOE, as well as input from ED staff. In order to support comparative analysis, we structured the inputs and outputs of the codes and standards (societal perspective) scenarios to be incremental to the codes and standards (IOU perspective) scenarios. In this way, the results across the two sets of scenarios can also be summed to provide estimates of total savings potential from a societal perspective. In the remainder of this subsection, we present the definitions, key assumptions, modeling approach, and data sources used in the codes and standards (societal perspective) scenarios in this study.

Strengthening of Title 24

Definition. We defined the “Title 24 (societal perspective)” scenario as the implementation of significant revisions to Title 24 building codes over the forecast period.

Modeling assumptions. We modeled the Title 24 (societal perspective) scenario as the phase-out of current IOU voluntary NC programs in 2009 and concurrent phase-in of higher Title 24 performance levels, followed by further revisions to Title 24 at regular intervals going forward. We modeled a “high” case reflecting aggressive incremental increases in performance levels, a “mid” case reflecting more modest but still aggressive increases, and a “low” case reflecting modest incremental increases in performance

levels. Note that we assume the typical 1-year lag between rulemaking and implementation of Title 24 revisions. We modeled savings from Title 24 revisions as penetration-weighted technical potential, taking into account annual new construction rates over the forecast period. We assumed that this potential is applicable to the space heating end use in new residential and commercial buildings, in order to maintain consistency with the current scope of Title 24 revisions.¹³

Development of savings inputs. The key savings assumptions used in the Title 24 (societal perspective) scenario leveraged the results of Architectural Energy Corporation's recent analysis conducted for the CEC that estimated the potential impact of the draft 2008 Title 24 revisions (AEC, 2007), along with results from a similar study conducted for the CEC by Eley Associates in support of the 2005 Title 24 revisions (CEC, 2003). Together, these estimates served as the key benchmarks for developing assumptions about the level and range of relative savings that are reasonable to expect from each future revision to Title 24.

Table F2-5 provides a summary of the technical unit savings assumptions used in the Title 24 (societal perspective) scenario. For residential new construction, we used AEC's impact estimates to establish the unit savings values in the "high" case and then created more conservative "mid" and "low" savings cases using 75% and 50%, respectively, of AEC's savings estimates.¹⁴ These assumptions reflect the fact that AEC's residential estimates reflect uncalibrated building simulation results scaled to the population level, without adjustments for real-world diversity in occupant behavior.

For commercial new construction, we took into account both AEC's estimates of impacts of 2008 revisions to Title 24 (15% for gas space heating) and Eley Associates estimates of impacts from 2005 revisions to Title 24 (3% for gas space heating). Given the divergence between the estimated impacts from the 2005 and 2008 revisions, we assumed a "high" case unit savings value for space heating in commercial new construction that falls between these two estimates, i.e. 7.5%. We then created more conservative "mid" and "low" savings cases using 66% and 33%, respectively, of the unit savings assumed in the "high" savings case. It should be noted that the final unit savings assumptions applied in the Title 24 (societal perspective) scenarios for commercial new construction are consistent with the savings assumptions applied in the electric analysis.

¹³ Water heating in new residential and commercial buildings is currently regulated by Title 24. However, the 2008 revisions to Title 24 do not impact current standards for water heating in new buildings (AEC, 2007). Additionally, past revisions to Title 24 that have impacted water heating in new buildings have served to bring Title 24 rules in line with revisions to federal water heating standards. In this study, since we assess impacts from revisions to federal standards in a separate set of scenario, we do not model any impacts on water heating in new buildings from revisions to Title 24.

¹⁴ The "mid" and "low" savings values for multi-family homes represent 70% and 40%, respectively, of AEC's impact estimate for 2008 Title 24 revisions.

Table F2-5. Summary of technical unit savings assumptions used in the Title 24 (societal perspective) scenario

Title 24 case	Technical unit savings (relative to previous code)
Residential SFD:	
High	10.0%
Mid	7.5%
Low	5.0%
Residential MFD:	
High	7.0%
Mid	5.0%
Low	3.0%
Commercial:	
High	7.5%
Mid	5.0%
Low	2.5%

Uncertainty bounds. The uncertainty bounds in the Title 24 (societal perspective) scenario reflect the range of unit savings assumed for each revision to Title 24 assumed to occur over the forecast period.

Revision of federal appliance standards

Definition. We defined the “Federal Appliance Standards” scenario as the implementation of revised minimum energy efficiency standards following the rulemaking schedule listed in the *Five-Year Schedule of Issuance of Appliance Rulemakings* (USDOE, 2006). Specifically, we modeled the implementation of scheduled revisions to standards for residential gas storage water heaters and residential gas ranges and ovens.

Modeling assumptions. We modeled savings in the Federal Appliance Standards scenario as penetration-weighted technical potential, taking into account expected replace-on-burnout (ROB) rates in the in-scope market segments over the forecast period. To estimate the size of the annual ROB market for each in-scope appliance type, we used EULs from the DEER database (CPUC, 2005) and the USDOE (USDOE, 2007a) for gas storage water heaters and gas ranges and ovens, respectively, and current saturation rates from the statewide RASS (CEC, 2004) and CEUS studies (CEC, 2006). We then assumed 100% market penetration in the annual ROB market starting in the first year of implementation and continuing through the end of the forecast period. Table F2-6 summarizes the EUL values used in the Federal Appliance Standards scenario, along with the scheduled dates of final rulemaking and the assumed implementation dates, which reflect the typical 4-year lag between final rulemaking and implementation of federal standards.

Development of savings inputs. The key savings assumptions used in the Federal Appliance Standards scenario drew from a variety of sources. For gas storage water heaters, we developed a range of technical unit savings estimates based on the efficiency levels identified by the USDOE in a recent Framework Workshop for the water heater proceeding (USDOE, 2007b). For residential gas ranges and ovens, we developed a range of technical unit savings estimates based on the efficiency levels identified in the USDOE's proposed rule for gas ranges and ovens.

The technical unit savings described above (and summarized in Table F2-6 below) were weighted to take into account stock turnover rates, ROB market penetration, and the periodicity of each respective standard. The penetration-weighted savings were then applied to the respective baseline UECs for existing residential buildings in each year of the forecast period. Note that we did not apply savings from these revised federal standards to the respective end uses in the new construction segment in order to avoid double-counting with savings estimated in the Title 24 (societal perspective) scenario.

Table F2-6. Summary of technical unit savings, EUL, and periodicity assumptions used in the used in the federal appliance standards scenario

	Savings Case:	Unit savings:	EUL:	Periodicity:	
				rulemaking	implementation
Residential Water Heaters	High	8.4%	11 years	2009	2013
	Mid	5.9%			
	Low	3.1%			
Residential Ranges & Ovens	High	19.0%	19 years	2009	2013
	Mid	18.7%			
	Low	17.9%			

Finally, it should be noted that high-efficiency gas storage water heaters of similar performance are included as an IOU program measure in the 2008 Itron update study. However, adoption of high-efficiency storage water heaters under voluntary IOU programs accounts for only 2-4% of the total achievable gas savings potential estimated for the residential sector over the forecast period. As such, the savings from revised federal standards for gas storage water heaters can be treated as essentially fully incremental to the ASSET market potential savings estimates. In the case of residential gas ranges and ovens, no related measures were included in the 2008 Itron update study, so the savings from the schedule federal standard are strictly incremental to the ASSET market potential savings estimates.

Uncertainty bounds. The uncertainty bounds in the Federal Appliance Standards scenario primarily reflect the uncertainty in the EULs and stock turnover rates for each in-scope appliance type as well as uncertainty in the target standard levels assumed for each in-scope appliance type.

3

Results and Comparisons

In the section we present the results of the scenario analyses described previously, highlight the key results, and review key analytic caveats. In all of the tables and figures presented below, the results are shown aggregated across all IOU service territories. IOU-specific versions of all the tables and figures presented in this section can be found in Appendix G.

3.1 ASSET Theoretical Benchmarks

Below we present the results of our estimates of two key theoretical benchmarks of gas savings potential – technical and economic potential. These results are theoretical in the sense that they represent the upper bound of gas savings potential from measures in IOU programs in the technical feasibility sense but do not reflect the amount of gas savings potential that is achievable through voluntary energy efficiency programs. More specifically, technical and economic potential do not incorporate the willingness of customers to adopt energy efficiency measures, the market barriers associated measure adoption, or the budget constraints faced by IOUs as they implement demand side management programs. In addition, estimates of technical and economic potential do not provide information on the temporal dynamics associated with real-world adoption and market penetration rates. Technical and economic potential do, however, provide comprehensive assessments of the composition of the energy efficiency resource across sectors, building types, building vintages, and end uses and act as valuable benchmarks when assessing the implications of adoption-based market potential forecasts.

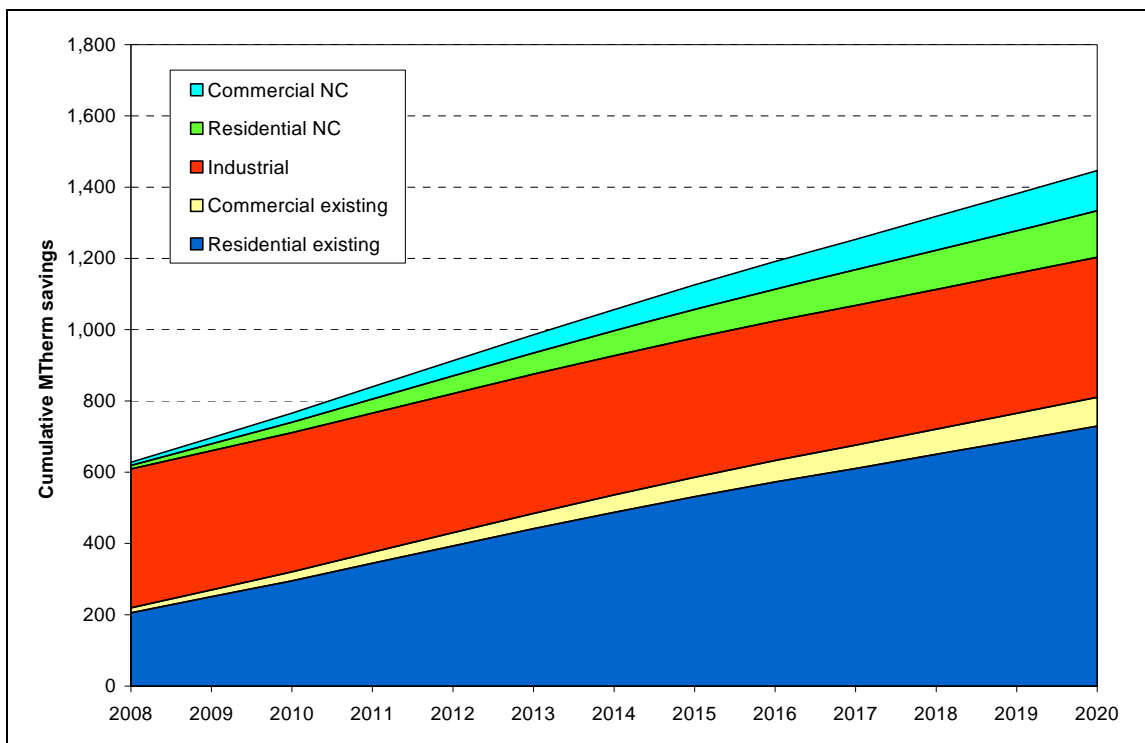
Technical potential

Technical potential reflects the amount of gas savings that would be possible if all technically applicable and feasible opportunities to improve energy efficiency were taken, including retrofit measures, replace-on-burnout (ROB) measures, and new construction measures. Figure F3-1 shows our estimates of technical gas savings potential across the IOU service territories in California. These estimates reflect the results of Itron’s 2008 update study based on the ASSET modeling framework.

As Figure F3-1 shows, technical potential starts at a high level in the beginning of the forecast period, reflecting the theoretical, instantaneous implementation of all retrofit measures, followed by growth over time due to theoretical implementation of all

available ROB measures and new construction measures as those opportunities present themselves based on stock turnover and annual new construction rates. By 2020, total technical potential is estimated to reach approximately 1,400 MTherms of cumulative gas savings. Figure F3-1 also shows that roughly half of total technical potential is estimated to come from retrofit and ROB measures in existing residential buildings, with another quarter of total technical potential from retrofit and ROB measures in the industrial sector. In contrast, Figure F3-1 shows that only a very small share of total technical potential is estimated to be available in existing commercial buildings.

Figure F3-1. Technical potential by sector and vintage



In Tables F3-1 through F3-3, we present the breakdown of total technical potential by end use and vintage in the residential, commercial, and industrial sectors, respectively. These tables also show high, mid, and low range estimates of technical potential developed by end use, vintage, and sector.

As Table F3-1 shows, water heating and space heating measures account for roughly equal shares of the total technical potential estimated in existing and new homes over the forecast period. Similarly in the commercial sector, water heating and space heating measures account for the largest shares of technical potential, but commercial cooking measures account for more than a third of technical potential available in existing commercial buildings, as shown in Table F3-2. In the industrial sector, technical potential is largely concentrated in boilers measures and measure targeting improvement process heat systems.

Table F3-1. Technical potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	457	415	332	71	59	48
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heating	345	314	251	85	71	57
Total	802	729	583	156	130	104

Table F3-2. Technical potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	10	9	8	53	44	35
Water Heating	40	36	29	83	69	55
Com Cooking	36	33	26	0	0	0
Miscellaneous	3	3	2	0	0	0
Total	89	81	65	135	112	89

Table F3-3. Technical potential in the industrial sector by end use (cumulative MTherm savings in 2020)

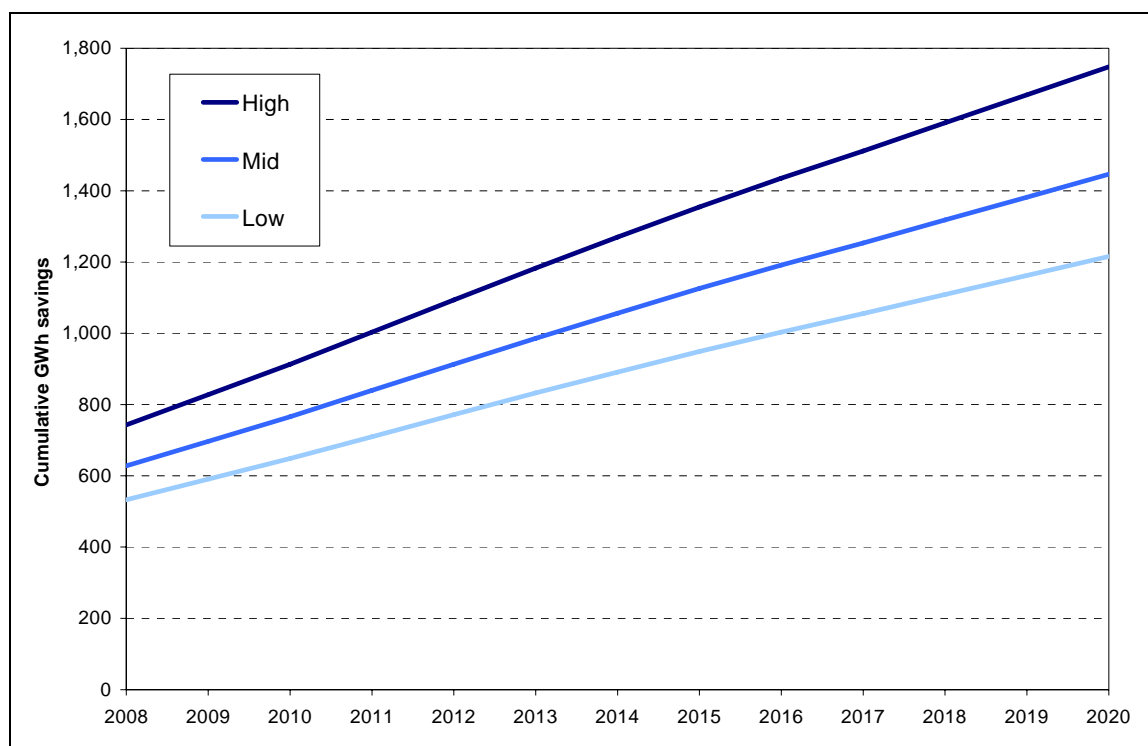
End Use	All vintages		
	High	Mid	Low
Boilers	285	248	211
HVAC	16	14	12
Process Heat	151	131	112
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	452	393	334

Figure F3-2 presents the uncertainty ranges developed for our estimates of total technical potential. As the figure shows, the uncertainty ranges we developed are asymmetrical with a more significant higher range compared to the lower range. This high bias in the uncertainty ranges primarily reflects two known conservatisms in the input data developed for the 2008 Itron update study. First, the technical unit savings used for solar water heaters reflects an estimate of the average solar fraction of the current installed stock of rooftop solar water heater (approximately 0.2), rather than the marginal solar fraction of systems being installed going forward (0.5-0.75). Second, the 2008 Itron update study did not include R0-R19 insulation measures in the analysis, based on the

finding in the 2004 RASS that very few homes have no insulation. However, self-reported insulation levels (such as those reported in RASS) tend to overestimate actual insulation levels and consequently produce underestimates of potential savings from basic insulation measures.

For most other end uses, the uncertainty ranges developed for technical potential tend to be more symmetric and reflect uncertainties in current estimates of baseline end-use saturations (particularly in the residential sector) and uncertainties in current measure saturations and feasibility estimates for a few key measures, namely faucet aerators and low-flow showerheads, and commercial cooking measures.

Figure F3-2. Uncertainty estimate for total technical potential



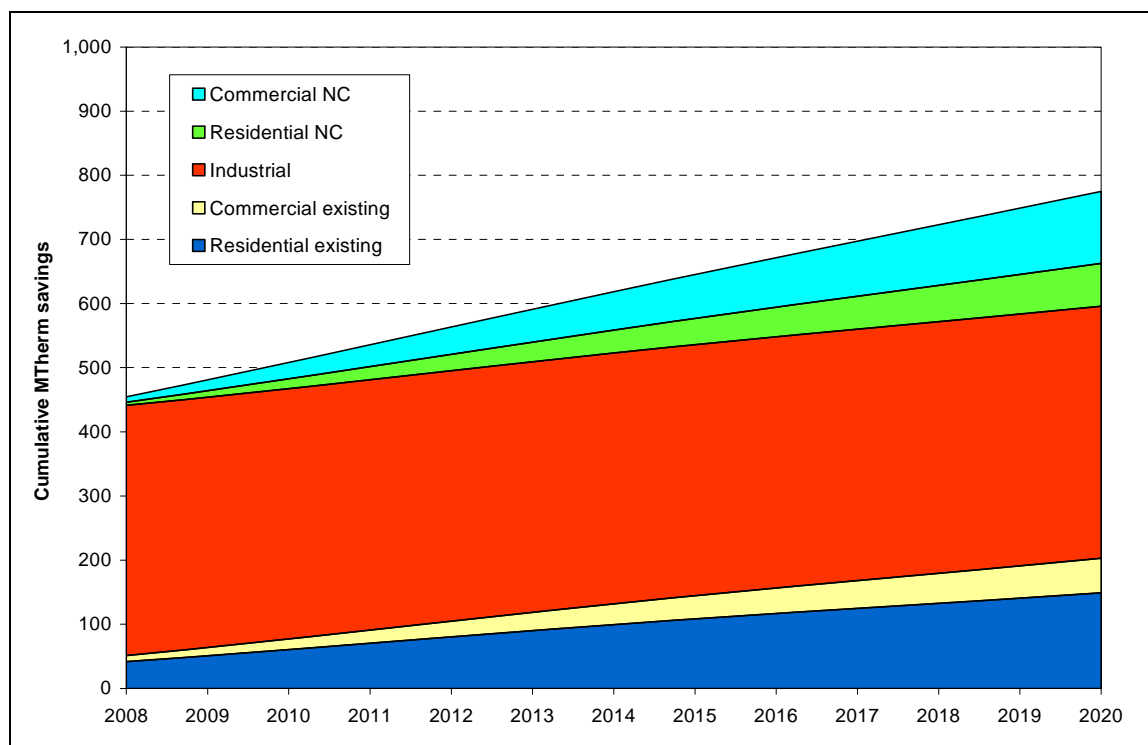
Economic potential

Economic potential reflects the amount of energy savings that would be possible if all technically applicable and feasible opportunities to improve energy efficiency were taken, but restricted to only potential savings from those measures that are cost-effective when compared to supply-side alternatives, i.e. a TRC ratio ≥ 1 . Figure F3-3 shows our estimates of economic gas savings potential across the IOU service territories in California. Again, these estimates reflect the results of Itron's 2008 update study based on the ASSET modeling framework.

As Figure F3-3 shows, economic potential starts at a high level in the beginning of the forecast period, reflecting the theoretical, instantaneous implementation of all feasible retrofit measures with TRC ratios ≥ 1 , and then grows over time due to implementation of

all ROB measures and new construction measures that pass TRC. By 2020, total economic potential is estimated to reach approximately 775 MTherms of cumulative gas savings. Figure F3-3 also shows that, in contrast to technical potential, slightly more than half of total economic potential is estimated to come from retrofit and ROB measures in the industrial sector over the forecast period, with only one fifth coming from retrofit and ROB measures in existing residential buildings.

Figure F3-3. Economic potential by sector and vintage



In Tables F3-4 through F3-6, we present the breakdown of total economic potential by end use and vintage in the residential, commercial, and industrial sectors, respectively. These tables also show high, mid, and low range estimates of technical potential developed by end use, vintage, and sector.

In the residential sector, the key differences between technical and economic potential for water heating and space heating are due to the fact that several important sources potential gas savings – super high-efficiency furnaces, super high-efficiency clothes washer, and solar water heaters – currently do not pass TRC in most climate zones in California. As a result, the vast majority of potential savings from those measures are excluded from economic potential. In contrast, all of the measures analyzed in the industrial sector currently pass TRC, which accounts for the large share of industrial measures in total economic potential.

At this point, it is important to point out that not all comparisons between our estimates of technical and economic potential are meaningful due to the manner which the list of measures considered in the analysis was constructed. Specifically, the measure list was

constructed with an explicit bias towards measures that are commercially available. Such measures tend to be cost-effective from a TRC perspective (which explains much of the similarities in the technical and economic potential forecasts). A truly comprehensive assessment of technical potential would require exhaustive reviews of emerging technologies paired with engineering assessments of feasibility, both of which were well beyond the scope (and primary objectives) of the 2008 Itron update study.

Table F3-4. Economic potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	77	70	56	34	28	23
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	86	78	63	46	38	31
Total	164	149	119	80	67	54

Table F3-5. Economic potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	6	5	4	53	44	35
Water Heating	32	29	23	83	69	55
Com Cooking	19	17	14	0	0	0
Miscellaneous	3	3	2	0	0	0
Total	59	54	43	135	112	89

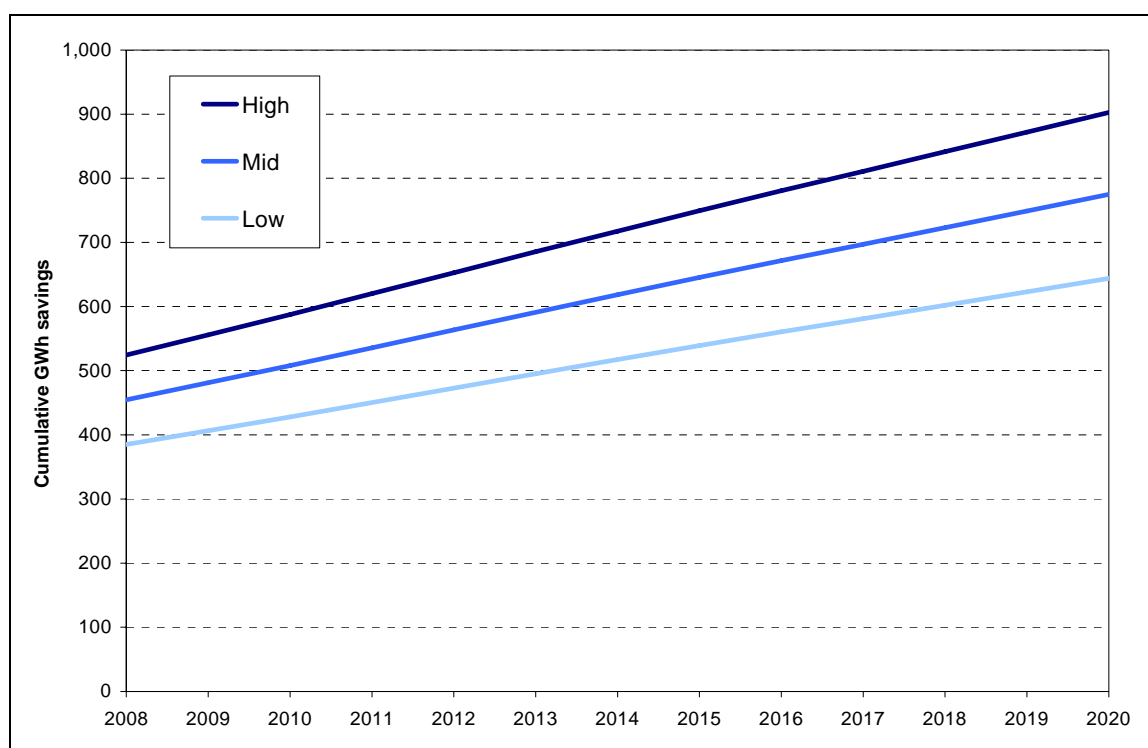
Table F3-6. Economic potential in the industrial sector by end use (cumulative MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	285	248	211
HVAC	16	14	12
Proc Heat	151	131	112
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	452	393	334

Figure F3-4 presents the uncertainty ranges developed for our estimates of total economic potential. As the figure shows, the uncertainty ranges are more symmetrical than those

developed for technical potential. In large part, this reflects the fact that solar water heaters do not pass TRC, thus their potential – and associated uncertainties – are excluded from total economic potential, which removes a large portion of high-biased asymmetry in aggregate. Additionally, the uncertainty ranges for economic potential for commercial cooking measures were constructed to be biased low to take into account the possibility that the actual incremental costs of these measures are likely to be distributed across a wider range than assumed in the 2008 Itron update study (which were based on interview with trade allies), which would in turn affect how many of those measures passed TRC. In total, the exclusion of solar water heaters from economic potential and the low uncertainty bias developed for commercial cooking measures serve to essentially counteract the high uncertainty bias developed for residential insulation.

Figure F3-4. Uncertainty estimate for total economic potential



3.2 ASSET Market Potential

Market potential refers to the amount of customer measure adoption and resulting savings that would occur in response to specific levels of program funding and measure incentive levels over time. Market potential takes into account a variety of factors such as participant cost-effectiveness or payback period, awareness, and willingness to adopt, which in turn depends on various market barriers such as risk perceptions, split incentives, limited rationality, and the characteristics of individual measures. As with the estimates of technical and economic potential presented previously, the market potential estimates presented below reflect the results of Itron's 2008 update study based on the ASSET modeling framework.

Below we present the results of two market potential forecasts that differ only in the level of measure incentives assumed to be available to program participants. First, we present the results of the “base restricted market potential” scenario, where incentives are set at the current levels used in IOU portfolios. Second, we present the results of the “full restricted market potential” scenario, where incentives are set at the full incremental cost for all efficiency measures. Both market potential scenarios are “restricted” to forecast adoption of measures with TRC ratios ≥ 0.85 .¹⁵

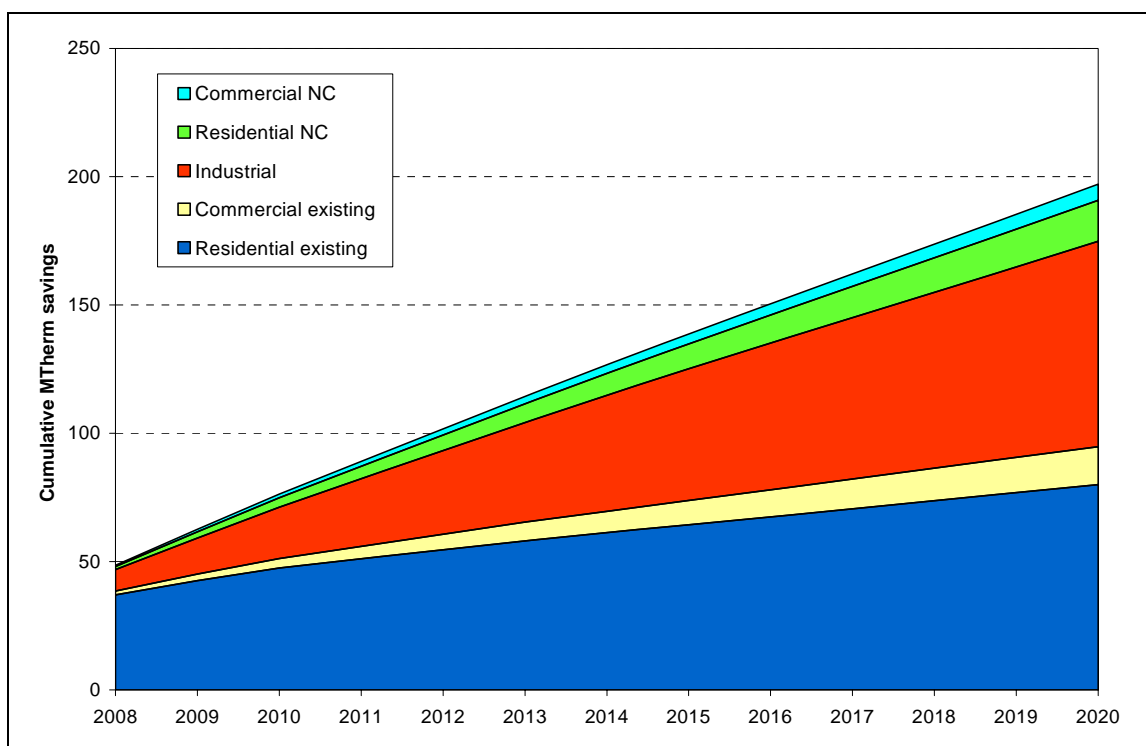
It is important to understand that the market potential forecasts presented below produce estimates of “gross” potential energy savings from voluntary IOU programs. These gross savings forecasts include savings from free-riders, participant and non-participant spillover, historic market effects, and other dynamics that result in “naturally-occurring” measure adoptions that would have occurred in the absence of program interventions going forward. To complement these gross savings forecasts, Itron also produced estimates of “naturally-occurring” potential as part of the 2008 Itron update study, the results of which are also presented below.

Base restricted market potential

In this study, the base market potential scenario assumes no significant changes in building codes, appliance standards, or other key energy efficiency regulations going forward and that voluntary IOU programs, with measure-level incentives similar to those in utility programs in early 2006, are the primary mechanism for capturing energy efficiency potential.

As Figure F3-5 shows, gas savings in the base market potential scenario grow significantly in the early years of the forecast period, driven largely by the adoption of retrofit measures in existing residential buildings. Towards the middle of the forecast period, Figure F3-5 shows that growth in cumulative savings begins to be driven largely by retrofit and ROB measures in the industrial sector. By 2020, total cumulative gross savings in the base market potential are estimated to reach approximately 200 MTherms.

¹⁵ Some measures currently included in IOU program portfolios in California do not pass TRC, since current program rules allow such measures as long the TRC ratio for the entire portfolio greater than 1. In order to account for this dynamic but also allow for informative comparisons of market potential to economic potential (for benchmarking purposes), the market potential scenarios used in this study are restricted to the potential savings from measures with TRC greater than or equal to 0.85.

Figure F3-5. Base market potential by sector and vintage (gross savings)

Tables F3-7 through F3-9 present the breakdown of total achievable potential by end use and vintage in the residential, commercial, and industrial sectors, respectively, in the base market potential scenario. These tables also show high, mid, and low range estimates of achievable potential developed by end use, vintage, and sector.

Comparing the levels of achievable potential shown in Tables F3-7 through F3-9 with those for economic potential provides useful benchmarks for assessing the level of achievable savings estimated in the base market scenario. Among the most important sources of achievable potential – namely residential space heating and water heating – cumulative savings in 2020 are estimated to be approximately 50-55% of economic potential. In the industrial sector, cumulative savings from boiler measures and process heat measures are estimated to reach approximately 15-25% of economic potential.

Table F3-7. Base market potential in the residential sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	44	35	26	8	7	5
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	56	45	34	11	9	7
Total	100	80	60	19	16	13

Table F3-8. Base market potential in the commercial sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	2	2	1	4	3	2
Water Heating	9	7	6	5	3	2
Com Cooking	6	5	4	0	0	0
Misc	1	1	1	0	0	0
Total	18	15	12	9	6	4

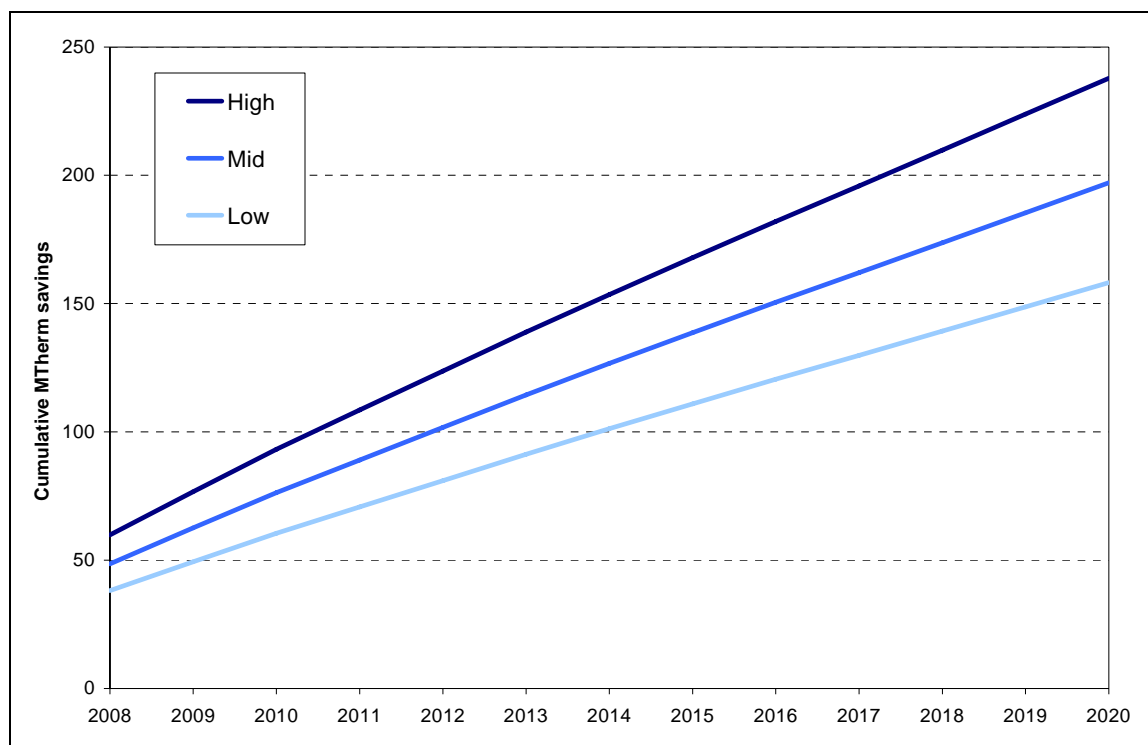
Table F3-9. Base market potential in the industrial sector by end use (cumulative gross MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	69	60	51
HVAC	2	2	1
Proc Heat	22	19	16
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	92	80	68

Figure F3-6 presents the uncertainty ranges developed for our estimates of total achievable savings in the base market potential scenario. As the figure shows, the uncertainty ranges are symmetrical and similar to those developed for economic potential. However, in this case, the symmetry reflects the fact that the majority of the uncertainty associated with the base market potential scenario stems from uncertainties in forecasted customer adoption behavior, rather than uncertainties in measure costs, savings, or feasibility. In the ASSET framework, measure adoption is modeled as a function of the cost-effectiveness of measure from the customer's perspective (e.g. simple payback) and a customer's awareness and willingness to adopt. The awareness

and willingness variables also capture the significance of various market barriers and the characteristics of individual measures. These variables are derived from a combination of historical and recent snapshot data. Going forward, however, both the characteristics of measures and the significance of various market barriers can be expected to change, resulting in changes to customer adoption behavior that could potentially increase or decrease adoptions relative to the recent past.

Figure F3-6. Uncertainty estimate for total base market potential (gross savings)



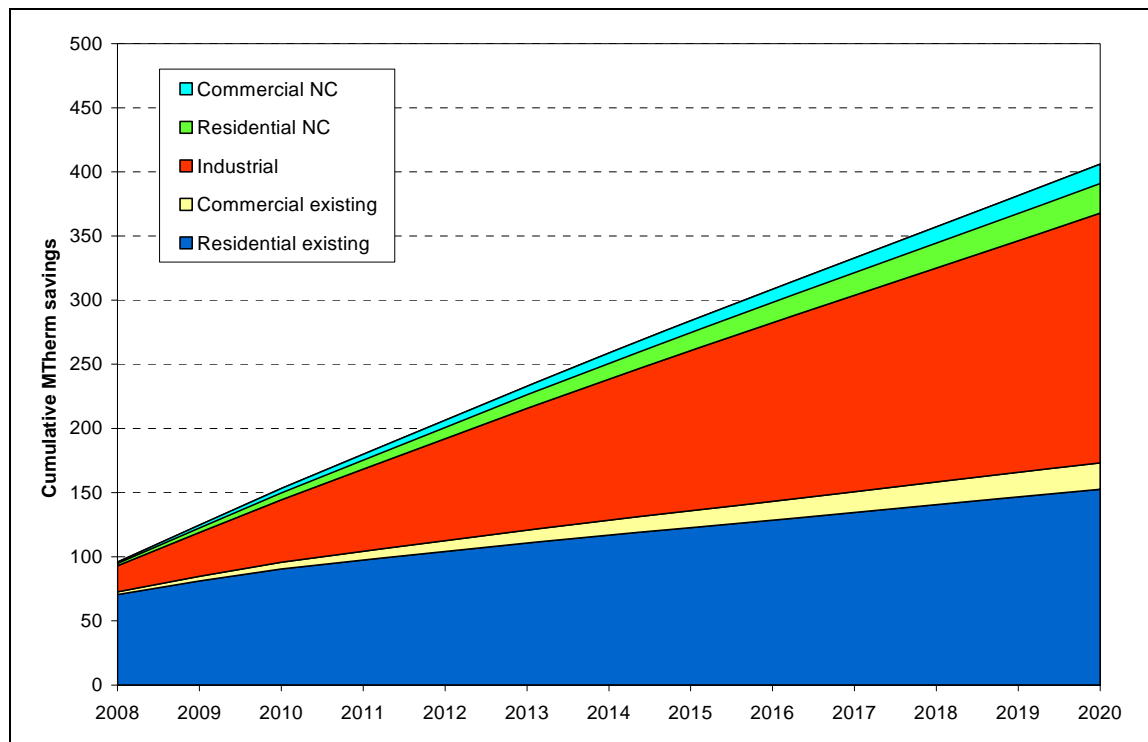
Full restricted market potential

The full market potential scenario assumes no significant changes in building codes, appliance standards, or other key energy efficiency regulations going forward and that voluntary IOU programs are the primary mechanism for capturing energy efficiency potential. However, the full market potential scenario assumes incentives are set at the full incremental cost for all measures. While some IOU programs have operated on this “direct install” model in the past, no utility has ever maintained an entire portfolio of direct install style programs, let alone over 12 years. It should be noted, however, that it is also possible that the level of IOU program savings reflected in the full market potential scenario could be achieved from an improved set of IOU programs and innovative delivery mechanisms that are highly effective at increasing energy efficiency adoption with rebate levels below full incremental costs.

As Figure F3-7 shows, savings in the full market potential scenario grow significantly in the early years of the forecast period, again driven largely by the adoption of retrofit measures in existing residential buildings. Towards the middle of the period, growth in

cumulative savings begins to be driven largely by retrofit and ROB measures in the industrial sector. By 2020, total cumulative gross savings in the full market potential are estimated to reach approximately 400 MTherms.

Figure F3-7. Full market potential by sector and vintage (gross savings)



Tables F3-10 through F3-12 present the breakdown of total achievable potential by end use and vintage in the residential, commercial, and industrial sectors, respectively, in the full market potential scenario. These tables also show high, mid, and low range estimates of achievable potential developed by end use, vintage, and sector.

Again, comparing the levels of achievable potential shown in Tables F3-10 through F3-12 with those for economic potential provides useful benchmarks for assessing the level of achievable savings estimated in the full market scenario. In the full market scenario, achievable savings from residential space heating and water heating measures are estimated to reach approximately 80-85% of economic potential by 2020, compared to 50-55% of economic potential in the base market scenario. In the industrial sector, achievable savings from boiler measures and process heating measures are estimated to reach approximately 45-60% of economic potential by 2020, compared to 15-25% in the base market scenario.

Note that the results in Table F3-11 shown significant gas penalties for IOU commercial new construction measures from increased efficiency levels for interior lighting. Such improvements in lighting efficiency serve to reduce internal gains in commercial buildings and can increase space heating demand at a level that outweighs savings from improvements in the technical efficiency of space heating services. In the ASSET

modeling framework, these penalties are expressed as whole building gas penalties. When these whole-building results are imported into the SESAT analytic framework, the savings (or penalties in this case) are allocated uniformly across in-scope end uses. In reality, however, such penalties manifest themselves exclusively in space heating demand and not water heating demand, as is implied in Table F3-11.

Table F3-10. Full market potential in the residential sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	106	85	64	19	16	13
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	84	68	51	26	22	18
Total	191	153	114	46	38	30

Table F3-11. Full market potential in the commercial sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	4	4	3	4	0	-3
Water Heating	11	9	7	-10	-15	-21
Com Cooking	9	7	6	0	0	0
Miscellaneous	1	1	1	0	0	0
Total	25	21	17	-6	-15	-24

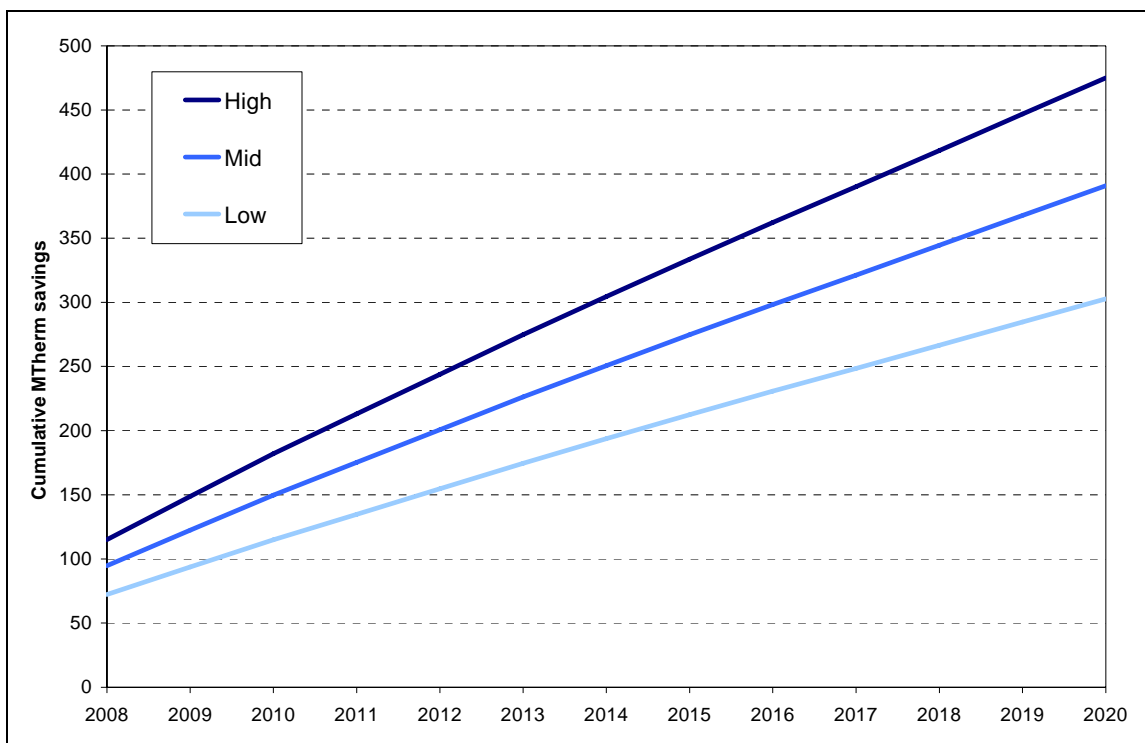
Table F3-12. Full market potential in the industrial sector by end use (cumulative gross MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	126	110	93
HVAC	10	9	8
Proc Heat	87	76	64
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	224	195	165

Figure F3-8 presents the uncertainty ranges developed for our estimates of total achievable savings in the full market potential scenario. As the figure shows, the uncertainty ranges are again symmetrical and similar to those developed for the base

market potential scenario and reflect the uncertainties in forecasted customer adoption behavior, rather than uncertainties in measure costs, savings, or feasibility.

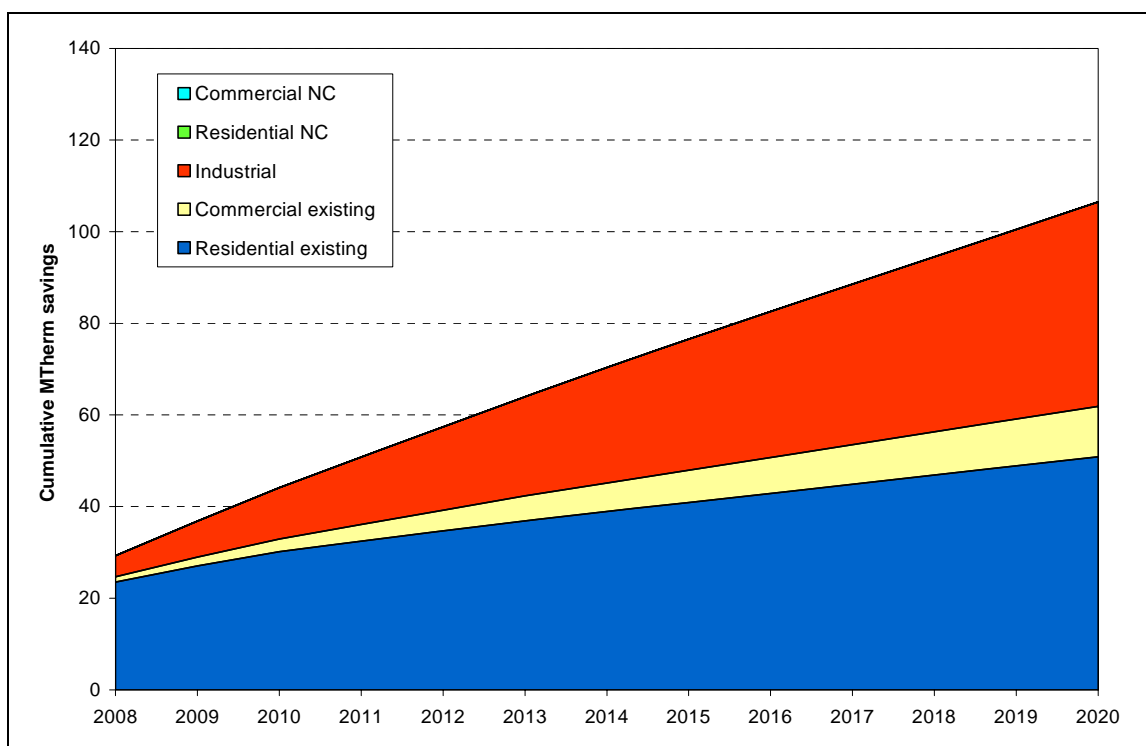
Figure F3-8. Uncertainty estimate for total full market potential (gross savings)



Naturally-occurring potential

Naturally-occurring potential is defined as the potential savings from customer adoptions that would occur in the absence of further utility programs and other public policies to encourage energy efficiency (relative to the calibration period of our forecast, e.g., 2004-2005). Naturally-occurring potential thus includes savings from measures adoptions due to free-riders, participant and non-participant spillover, and longer-term market effects resulting from interventions that occurred prior to 2004-2005. Because naturally-occurring potential represents savings that would occur in absence of future programs, the estimates shown below do not vary as a function of the level of IOU program funding assumed.

As Figure F3-9 shows, savings in the naturally-occurring potential scenario grow fairly steadily throughout the forecast period, driven principally by savings in existing residential buildings as well as the industrial sector. By 2020, total cumulative savings in the naturally-occurring potential scenario are estimated to reach approximately 100 MTherms.

Figure F3-9. Naturally-occurring potential by sector and vintage

Tables F3-13 through F3-15 present the breakdown of total naturally-occurring potential by end use and vintage in the residential, commercial, and industrial sectors, respectively. These tables also show high, mid, and low range estimates of naturally-occurring potential developed by end use, vintage, and sector. As in the gross market potential scenarios, the most important sources of naturally-occurring savings potential are residential space heating and water heating measures and industrial boiler and process heating measures.

Table F3-13. Naturally-occurring potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	36	29	22	0	0	0
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	27	22	16	0	0	0
Total	64	51	38	0	0	0

Table F3-14. Naturally-occurring potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	1	1	1	0	0	0
Water Heating	8	7	5	0	0	0
Com Cooking	4	3	2	0	0	0
Miscellaneous	1	1	0	0	0	0
Total	13	11	9	0	0	0

Table F3-15. Naturally-occurring potential in the industrial sector by end use (cumulative MTherm savings in 2020)

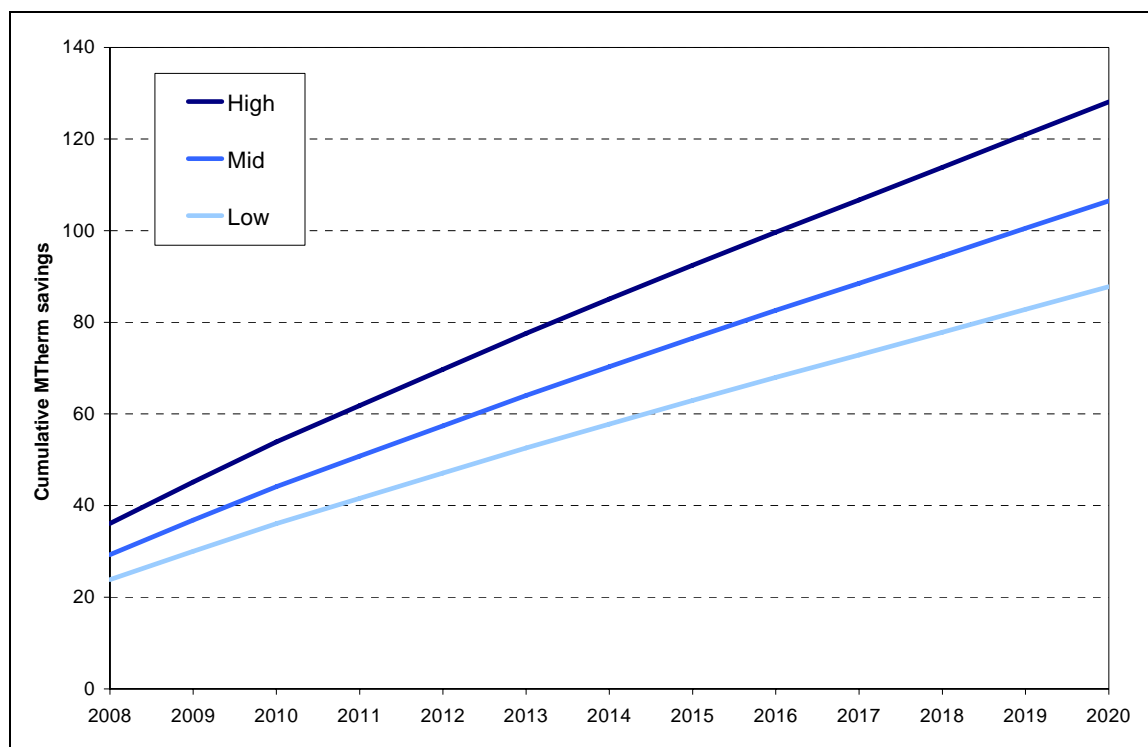
End Use	All vintages		
	High	Mid	Low
Boilers	42	37	31
HVAC	0	0	0
Proc Heat	9	8	6
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	51	45	38

Figure F3-10 presents the uncertainty ranges developed for our estimates of total naturally-occurring savings potential. As the figure shows, the uncertainty ranges are slightly asymmetrical and biased high. This asymmetry primarily reflects the relative importance of uncertainties in the naturally-occurring adoptions of residential water heating measures, which account for more than a quarter of naturally-occurring savings.

In the case of residential water heating, we developed uncertainty ranges for naturally-occurring adoptions that attempted to take into account two particular characteristics of residential water heating measures. First, two key measures affecting residential gas water heating – faucet aerators and low-flow showerheads – exhibit the most favorable cost-benefit ratios of all gas measures analyzed in the 2008 Itron update study. In this sense, the naturally-occurring adoptions forecasted in the ASSET framework largely reflect the extent of current market barriers to those measures. Given very favorable cost-benefit ratios, any reductions in associated market barriers would thus result in significantly higher naturally-occurring adoptions of these two measures. Second, recent market share tracking studies show that adoption of ENERGY STAR dishwashers and clothes washers – both important sources of naturally-occurring potential in residential water heating – have increased significantly in recent years, even in service territories without supporting rebates (Itron, 2006). Given these particular characteristics related to faucet aerators, low-flow showerheads, and ENERGY STAR clothes washers and dishwashers, we developed uncertainty ranges developed for naturally-occurring adoptions of residential water heating measures that are asymmetric and biased high.

For most other end uses, the uncertainty ranges developed for naturally-occurring potential tend to be more symmetric and reflect uncertainties in current estimates of baseline end-use saturations, current measure saturations, current measure costs, and current end user adoption preferences.

Figure F3-10. Uncertainty estimate for total naturally-occurring potential



3.3 BBEES Initiatives

Below we present the results of the BBEES scenarios for the gas analysis – the BB RNC scenario and the BB CNC scenario. Figure F3-11 shows the estimated savings from these two BBEES initiatives over the forecast period. These savings are shown as gross savings incremental to gross savings in the base market potential scenario.

As Figure F3-11 shows, cumulative gross gas savings from the BBEES initiatives are estimated to reach approximately 400 MTherms by 2020. As the figure shows, the estimated gas savings from the BB RNC scenario are significantly higher than the gas savings in the BB CNC scenario. This result primarily reflects the more aggressive market penetration milestones for residential new construction (e.g. 80-100% penetration of Tier 2 homes by 2020 compared to 40-70% penetration of Tier 2 commercial buildings by 2020), as well as the inclusion of a significant penetration of Tier 3 homes during the forecast period, for which there is no equivalent milestone for new commercial buildings.

Figure F3-11. Estimated potential savings from BBEES initiatives (gross savings incremental to base market potential)

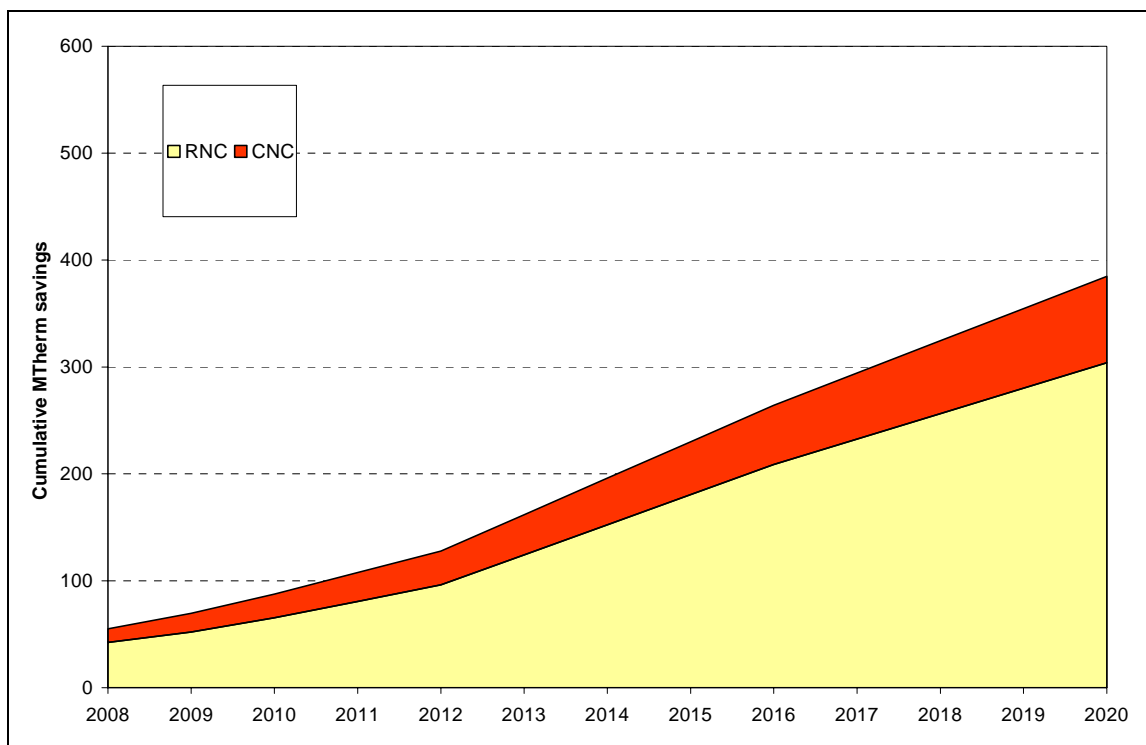
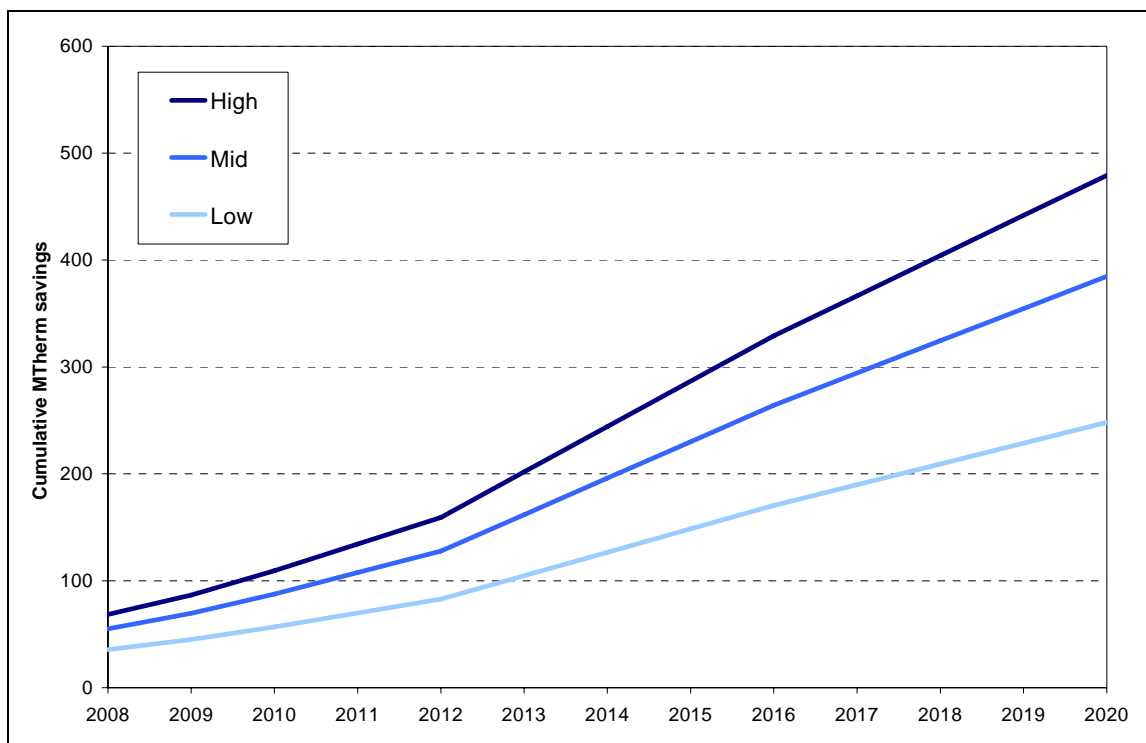


Figure F3-12 presents the uncertainty ranges developed for our estimates of total savings in the BBEES scenarios. These uncertainty ranges primarily reflect the range of assumed market penetration rates in the BB RNC and BB CNC scenarios (see Tables F2-1 and F2-3).

Figure F3-12. Uncertainty estimate for potential savings from all BB initiatives (gross savings incremental to base market potential)



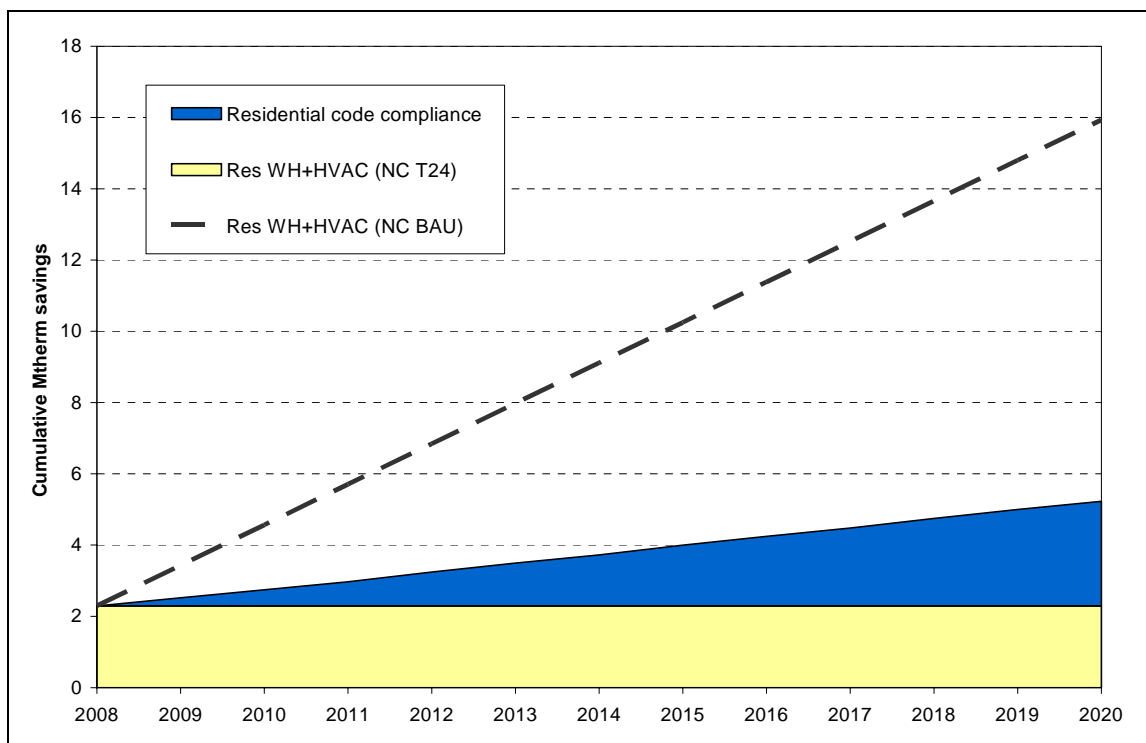
3.4 Codes and Standards (IOU Perspective)

Below we present our estimates of the impacts of future codes and standards on the achievable energy efficiency resource available to be captured by voluntary IOU programs going forward. Specifically, we present estimates of the impacts from regular revisions to Title 24. The results of these scenarios are shown as impacts on the gross savings achievable from IOU programs in the base market potential scenario.

Title 24 revisions and code compliance programs

Figure F3-13 shows estimated impacts of regular revisions to Title 24 on the gross savings from new construction measures achievable from IOU programs in the base market potential scenario. Figure F3-14 also shows the estimated savings that IOU might be able to claim from the implementation of residential code compliance programs. As the figure shows, the achievable savings lost from the phase-out of current residential new construction programs (as a result of Title 24 revisions) could be partially offset by savings from the implementation of residential code compliance programs, although to a much lesser degree than on the electric side. The modest level of potential savings from residential code compliance programs reflects the fact that the most recent study of residential new construction baselines found that the non-compliance margin (in UEC terms) for gas space heating and water heating was less than 5% (Itron, 2004).

Figure F3-13. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction (gross savings)



It should be noted that our estimates of savings from code compliance programs are likely to be conservative in that we did not estimate potential savings associated with code compliance efforts targeting new commercial buildings or major retrofits to existing residential and commercial buildings. With respect to commercial new construction, this decision was based on the high compliance rates reported in most recent commercial new construction baseline study (RLW, 1999). Clearly, however, both market conditions and the stringency of Title 24 have changed significantly since the previous baseline study was conducted, and it is likely that current compliance rates are quite different from those previously reported. With respect to major retrofits, this decision was based on the current lack of robust estimates of compliance rates and compliance margins in the major retrofit market.

Total impacts on IOU portfolios

Figure F3-14 summarizes the total estimated impacts of Title 24 revisions on the gross savings achievable from IOU programs in the base market potential scenario. Relative to the total achievable savings estimated in the BAU base market potential scenario, the implementation of future codes and standards is estimated to remove approximately 8% of the achievable gas savings resource available to be captured by voluntary IOU program going forward.

Figure F3-14. Total impact of future codes and standards on base market potential of IOU programs (gross savings)

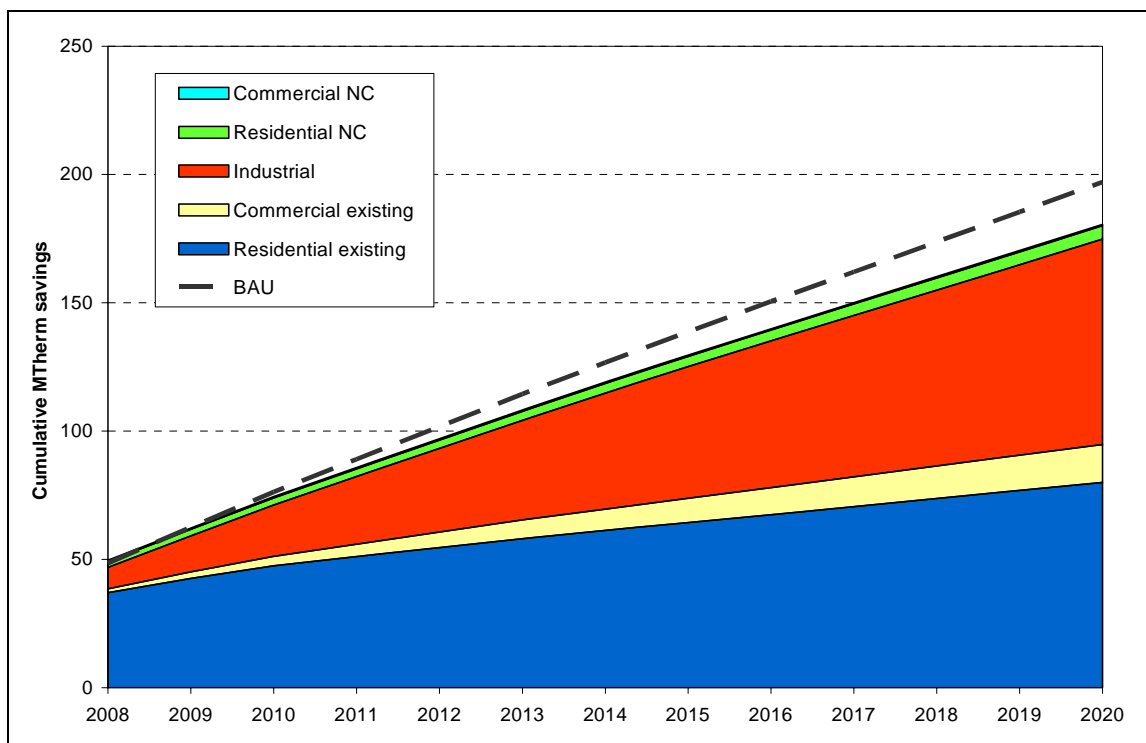
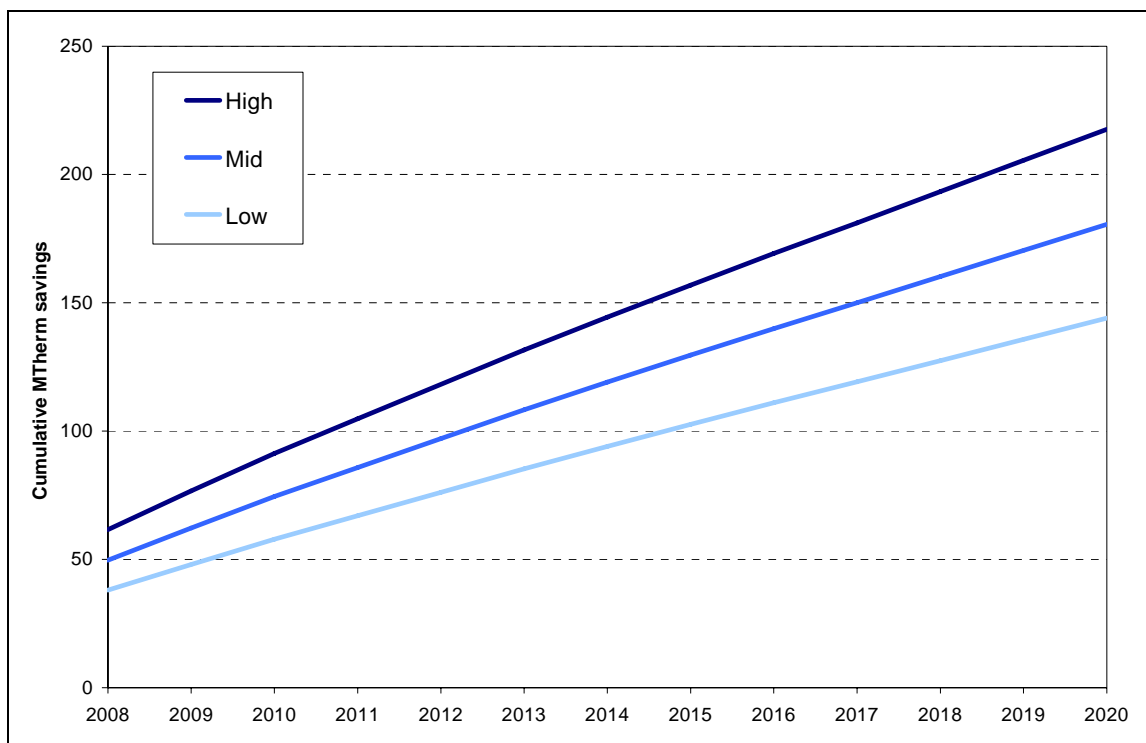


Figure F3-15 presents the uncertainty ranges developed for our estimates of total achievable savings in the base market scenarios, adjusted for impacts from future codes and standards. These uncertainty ranges primarily reflect the uncertainty in the forecasted adoption levels of IOU new construction programs in the BAU full and base gross market potential scenarios at the time of the assumed phase-out of new construction programs. These uncertainties are related to the temporal dynamics of customer adoption behavior that are not captured in the ASSET modeling framework (see previous discussion in Section 3.2 of this appendix) and are not related to any explicit interactions between future codes and standards and IOU programs.

Figure F3-15. Uncertainty estimate of total base market potential of IOU programs after accounting for impacts of future codes and standards (gross savings)



3.5 Codes and Standards (Societal Perspective)

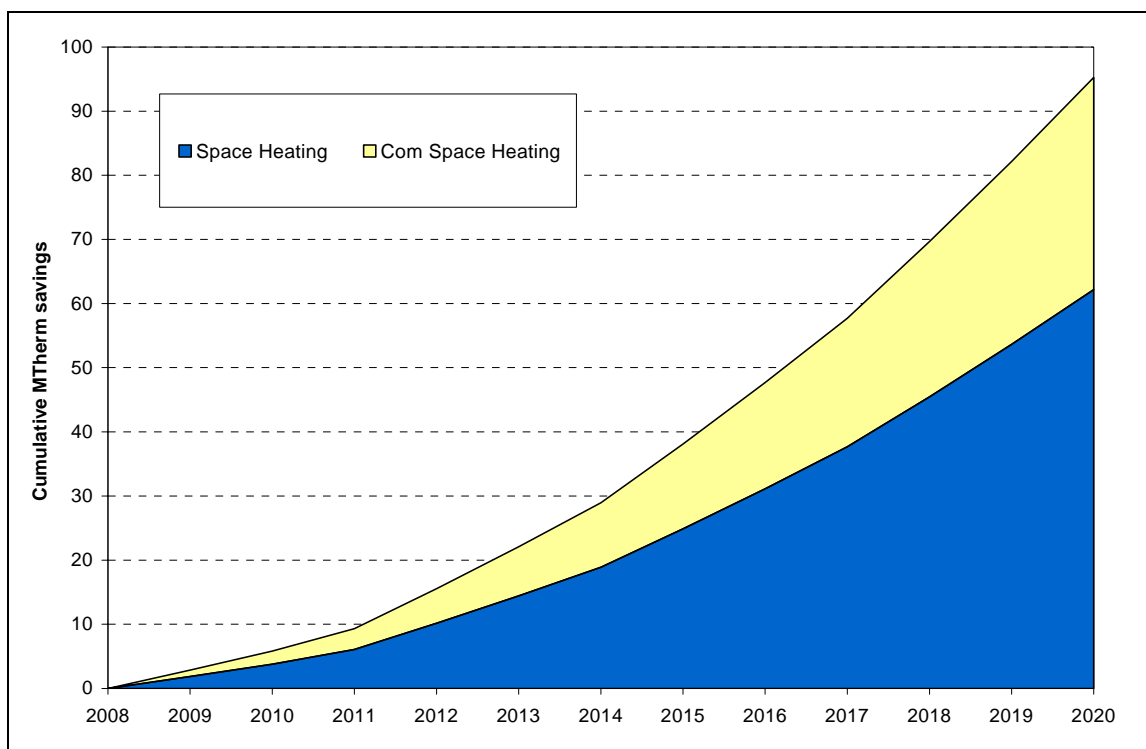
Below we present our estimates of the potential savings from implementation of future codes and standards from a societal perspective. Specifically, we present estimates of the potential savings regular revisions to Title 24 and revisions to federal appliance standards. The results of these scenarios are shown as gross savings incremental to achievable savings from IOU programs in the base market potential scenario (adjusted for impacts from future codes and standards, as shown in the previous section).

Title 24 revisions

Figure F3-16 shows the cumulative gas savings from implementation of regular revisions to Title 24 over the forecast period, estimated to reach 95 MTherms by 2020. As the figure shows, the growth of cumulative savings from Title 24 revisions is estimated to increase over time. This result primarily reflects the impacts of increasing Title 24 performance levels compared to previous code at regular intervals throughout the forecast period.

Figure F3-16 also shows that savings from new residential buildings account for a much higher share of total estimated savings from Title 24 revisions compared to savings from new commercial buildings. This result reflects the higher unit savings assumed for each revision of Title 24 for residential buildings compared to those assumed for commercial buildings.

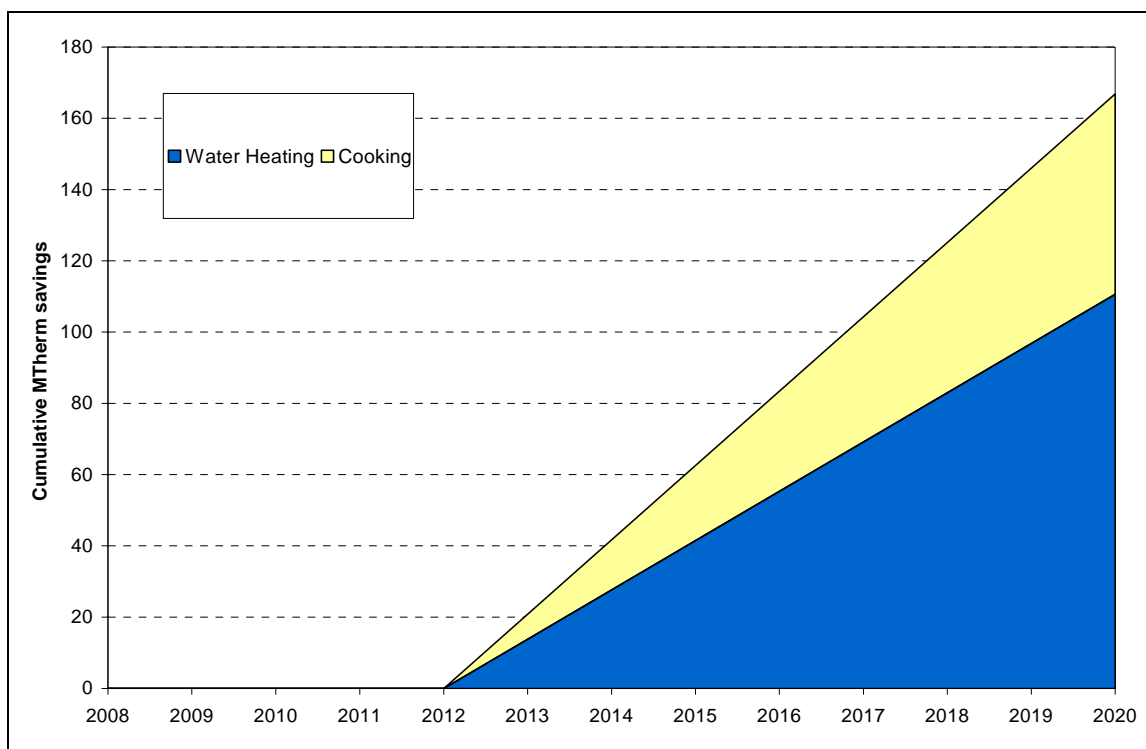
Figure F3-16. Estimated potential savings from implementation of the revisions to Title 24 (gross savings incremental to C&S-adjusted base market potential)



Federal appliance standards

Figure F3-17 shows the cumulative savings from implementation of revised federal appliance standards during the forecast period, estimated to reach just over 160 MTherms by 2020. As the figure shows, savings from revised federal appliance standards are not anticipated to begin to accumulate until the latter half of the forecast period due to the assumed 4-year lag that typically occurs between final rulemaking and implementation. Because the stock turnover rates of the appliance types scheduled for rulemaking are relatively slow (on the order of 5-9% of the installed stock per year), this implementation lag serves to limit the total cumulative savings anticipated from revised federal appliance standards over the forecast period of this study. Nonetheless, the high unit savings assumed for residential ranges and ovens (~18%) and the high saturation levels of gas cooking in residential homes results in significant potential savings by 2020 despite slow stock turnover rates. Similarly, the very high saturation of gas water heating in residential homes (>95% in single-family homes), even when coupled with more modest assumed unit savings (3-8%), results in significant potential savings by 2020 despite modest stock turnover rates.

Figure F3-17. Estimated potential savings from implementation of the revised federal appliance standards (gross savings incremental to C&S-adjusted base market potential)



Total societal savings from new codes and standards

Figure F3-18 shows the total cumulative gas savings, from a societal perspective, resulting from implementation of Title 24 revisions and revised federal appliance standards during the forecast period, estimated to reach ~260 MTherms by 2020. As the figure shows, the largest contributions to total estimated savings are due revisions to federal appliance standards, with smaller but significant contributions from Title 24 revisions.

Figure F3-10 shows the uncertainty ranges developed for our estimates of total savings from implementation of future codes and standards from a societal perspective. These uncertainty ranges reflect the uncertainty in the technical unit savings of upcoming federal standards for gas storage water heaters and residential gas ranges and ovens, as well as the range in the stringency of Title 24 revisions assumed to occur over the forecast period.

Figure F3-18. Estimated potential savings from future codes and standards (gross savings incremental to C&S-adjusted base market potential)

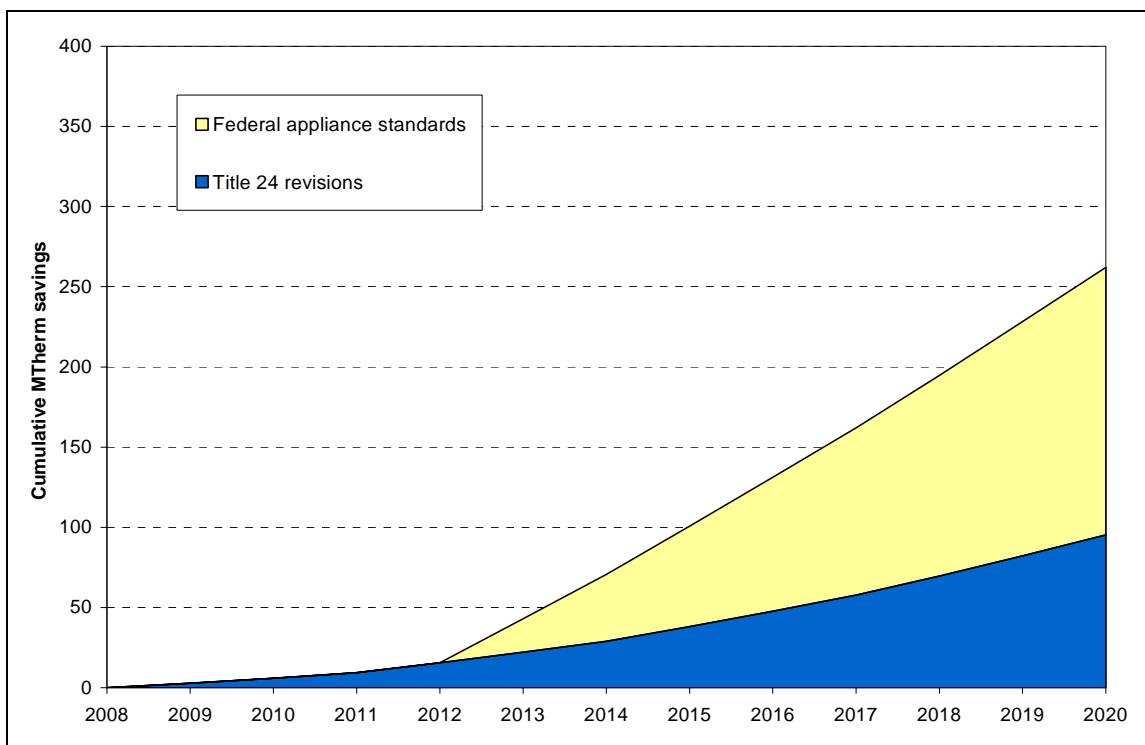
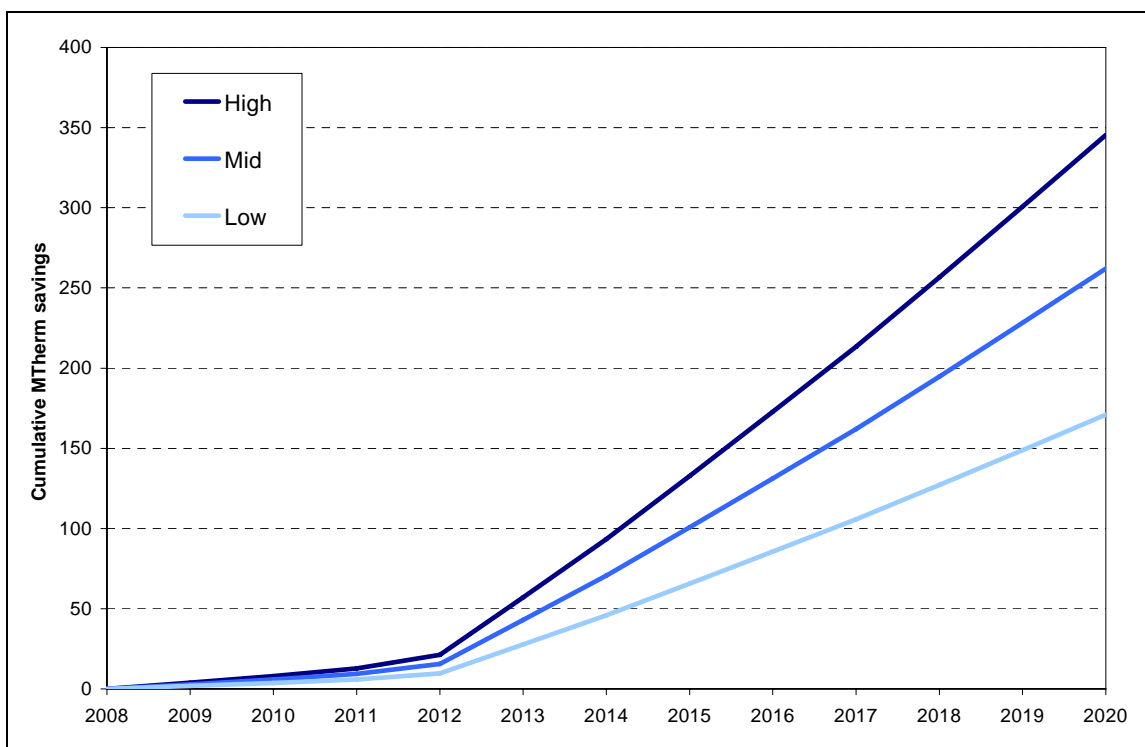


Figure F3-19. Uncertainty estimate of total potential savings from future codes and standards (gross savings incremental to C&S-adjusted base market potential)



3.6 Integrated Results

Below, we aggregate the results from the previous scenarios in order to derive a total picture of potential savings, in terms of gross gas savings from a societal perspective, from all the savings mechanisms analyzed in this study – IOU programs, codes and standards, and the BBEES initiatives. Note that in order to properly aggregate the results, we adjusted the estimated savings from the BBEES initiatives to be incremental to both IOU program savings and savings from future codes and standards. Because implementation of the BBEES initiatives will include some combination of IOU programs and new codes and standards (among other possible mechanisms), this accounting adjustment is important to avoid double-counting of potential savings. The interaction between the BBEES scenarios and the future codes and standards scenarios is discussed in more detail in Section 6.1 of the main report.

Figure F3-20 shows the total estimated gas savings from all scenarios, assuming current incentive levels for IOU programs (“base funding”) throughout the forecast period. Figure F3-21 also shows total estimated gas savings, but assuming full-incremental cost incentives for IOU programs (“full funding”). As these figures show, total estimated savings reach approximately 660 MTherms by 2020 when assuming base funding levels for IOU programs and approximately 850 MTherms by 2020 when assuming full funding levels for IOU programs. In both the base- and full-funding scenarios, growth in cumulative savings from IOU programs grows slowly and steadily throughout the forecast period. From a societal perspective, savings from future codes and standards and the BBEES initiatives serve to increase the growth of total estimated gas savings in the latter half of the forecast period.

The full breakdown of cumulative savings by scenario and scenario component (e.g. RNC, CNC, etc.) are shown in Table F3-16, including the high and low uncertainty ranges developed for each component. One notable finding from this table is that the new construction segments account for a much larger share of total savings (40-50%) when Title 24 revisions and the BBEES initiatives are considered compared to their respective share in the BAU base market potential scenario (11%).

Figure F3-20. Estimated potential savings from all scenarios (gross savings assuming base-funding for IOU programs)

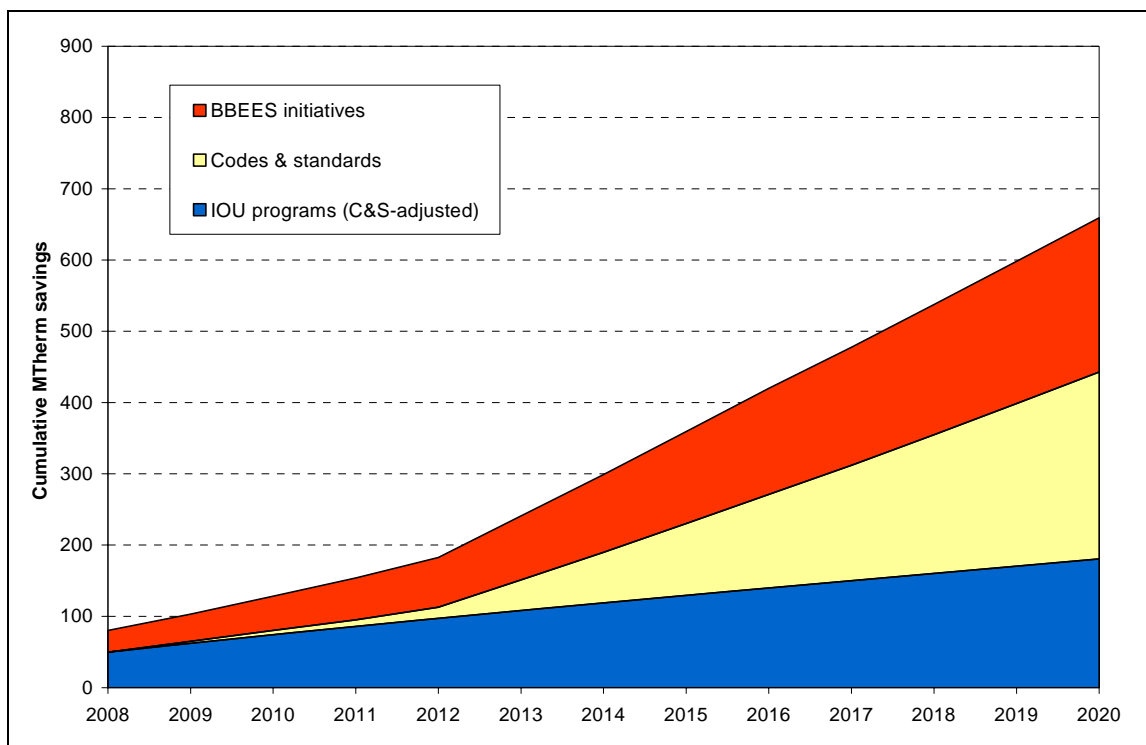


Figure F3-21. Estimated potential savings from all scenarios (gross savings assuming full-funding for IOU programs)

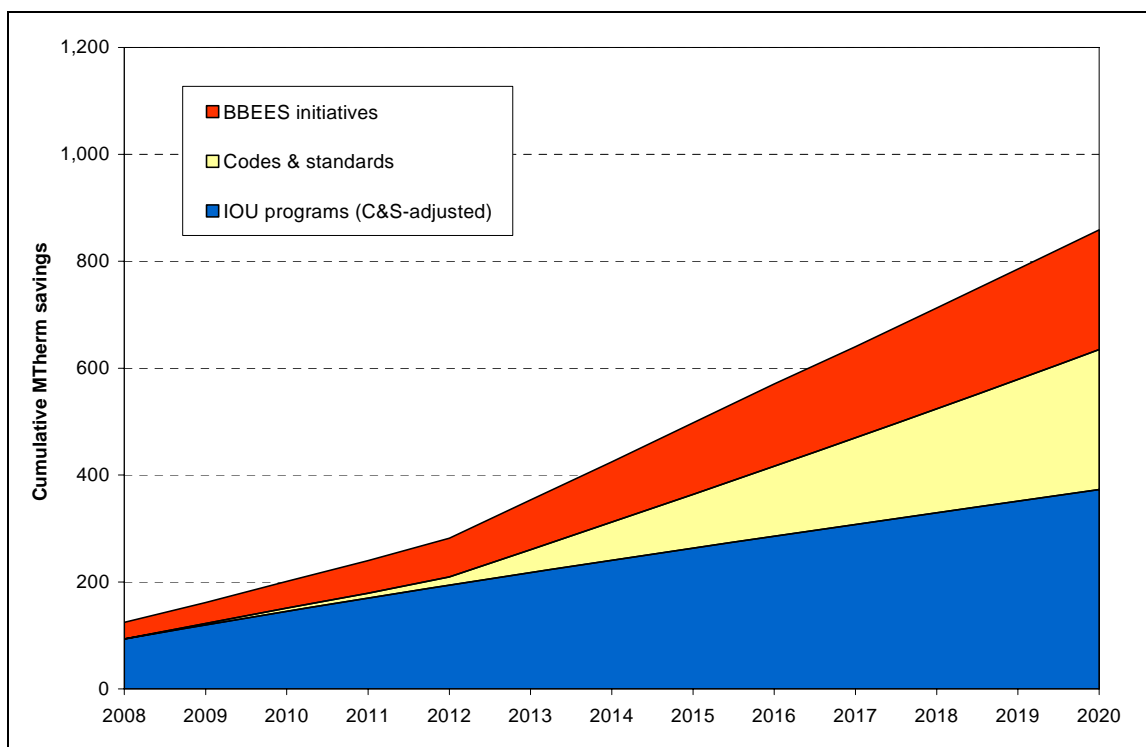
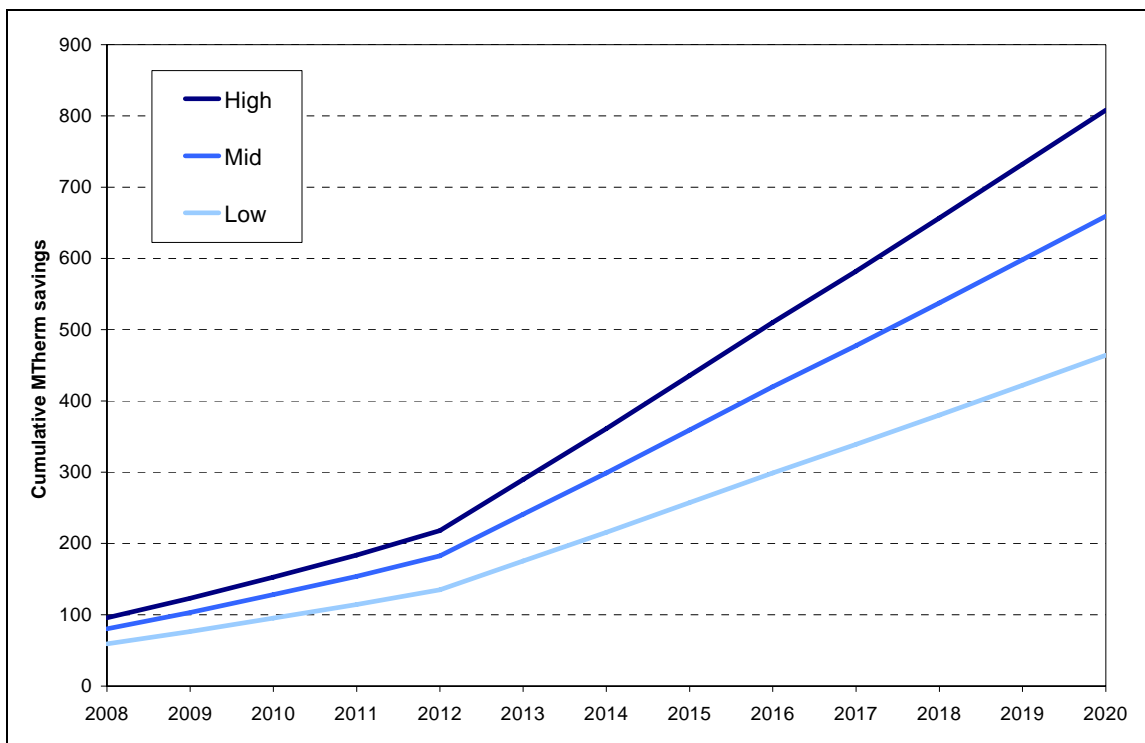


Table F3-16. Summary of estimated savings potential for each scenario (cumulative gross MTherm savings in 2020)

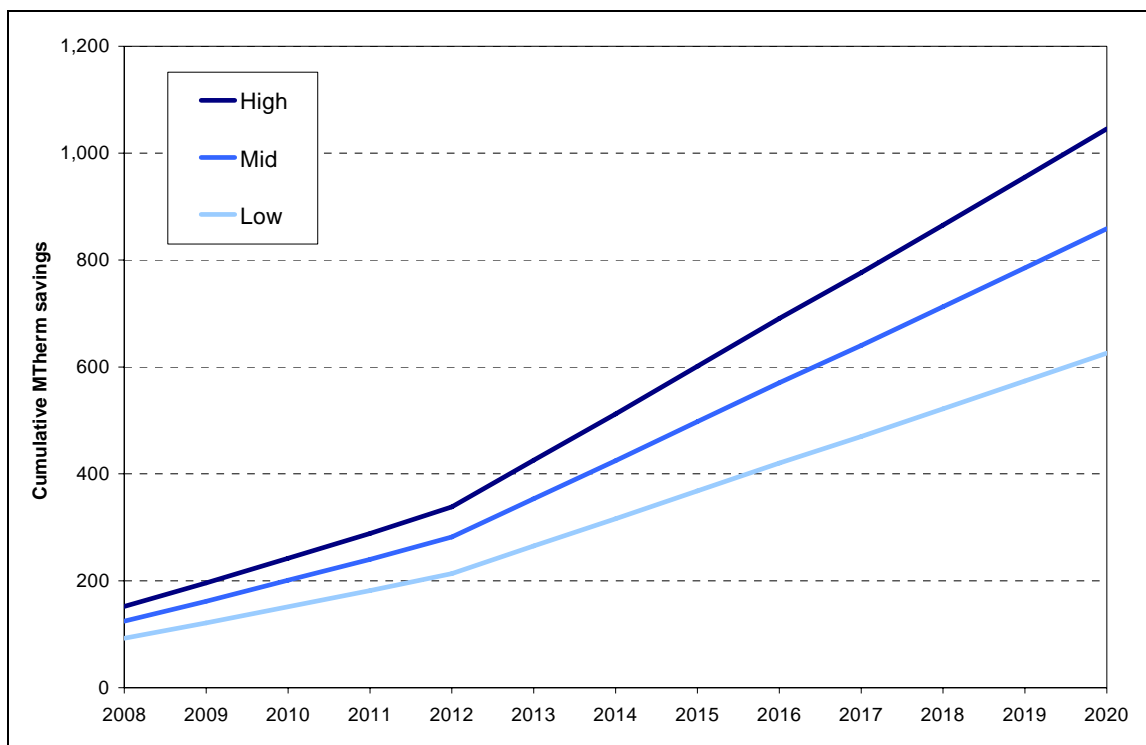
Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	RNC	229	195	120	232	198	123
	CNC	16	22	29	20	26	33
	Total	245	217	149	252	224	156
Title 24 revisions	RNC	81	62	17	81	62	17
	CNC	48	33	58	48	33	58
	Total	130	95	75	130	95	75
Federal standards	Water Heaters	159	111	58	159	111	58
	Ranges/Ovens	57	56	54	57	56	54
	Total	216	167	112	216	167	112
IOU code compliance (res)	Total	5	3	1	6	3	3
IOU programs (C&S-adjusted)	Res existing	100	80	60	191	153	114
	Com existing	18	15	12	25	21	17
	Industrial	92	80	68	224	195	165
	RNC	7	5	4	10	8	7
	CNC	1	1	0	-2	-4	-5
	Total	218	181	144	448	373	298
TOTAL GROSS SAVINGS POTENTIAL		813	662	481	1,052	861	644
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		128	106	85	128	106	85

Figures F3-22 and F3-23 show the uncertainty ranges associated with the aggregated results. These ranges primarily reflect combined uncertainties associated with the expected market penetration of the BBEES initiatives, strength of future Title 24 revisions, and the level of forecasted measure adoptions from IOU programs. The slight asymmetry of the aggregate results shown in Figures F3-22 and F3-23 reflect the significant contribution of the BBEES initiatives to total potential savings and the asymmetry of their associated uncertainty ranges.

Figure F3-22. Uncertainty estimate of total potential savings from all scenarios (gross savings assuming base-funding for IOU programs)



**Figure F3-23. Uncertainty estimate of total potential savings from all scenarios
(gross savings assuming full-funding for IOU programs)**



4

Goal Options

In this section, we present and describe a set of straw man cases that are intended to outline three distinct, internally-consistent sets of policy choices and the associated range of total gas savings outcomes.

We refer readers to Sections 5 and 6 of the main report for detailed discussions of the policy factors relevant to developing and adopting energy savings goals and the implications of different choices associated with each policy dimension, both in terms of the estimated savings levels and the issues associated with implementation, measurement, and attribution.

4.1 Synthesis of Policy Choices into Straw Man Cases

Below we construct three straw man cases in an attempt to produce a range of outcomes for gas savings potential from a discrete set of key policy choices. Our intent is to construct a series of straw man cases with internally-consistent policy criteria in order to provoke more discussion about the implications of these key choices on the likely level of gas savings that can be achieved. These estimates take into account the interactive effects between assumed levels of utility program efforts and the adoption of standards which in most cases reduce the level of savings attributed to the utility programs.

Constructing these straw man cases requires making choices related to the levels of gas savings expected from each savings mechanism. These choices are displayed in Table F4-1 using subscripts to identify the low (_{low}), mid (_{mid}) and high (_{high}) savings estimates developed for each respective savings mechanism. Table F4-1 also shows the total estimated cumulative gas savings associated with each straw man case over the forecast period.

Table F4-1. Composition of straw man cases by savings mechanism and policy choice

	Low	Mid	High
IOU program funding level?	Base _{mid}	Full _{mid}	Full _{mid}
Gross or net savings?	Gross	Gross	Gross
Title 24 & appliance standards?	Yes _{low}	Yes _{mid}	Yes _{high}
Code compliance programs?	No	Yes _{mid}	Yes _{high}
BBEES initiatives?	Yes _{low}	Yes _{mid}	Yes _{high}
Total MTherm savings in 2020	501	859	970

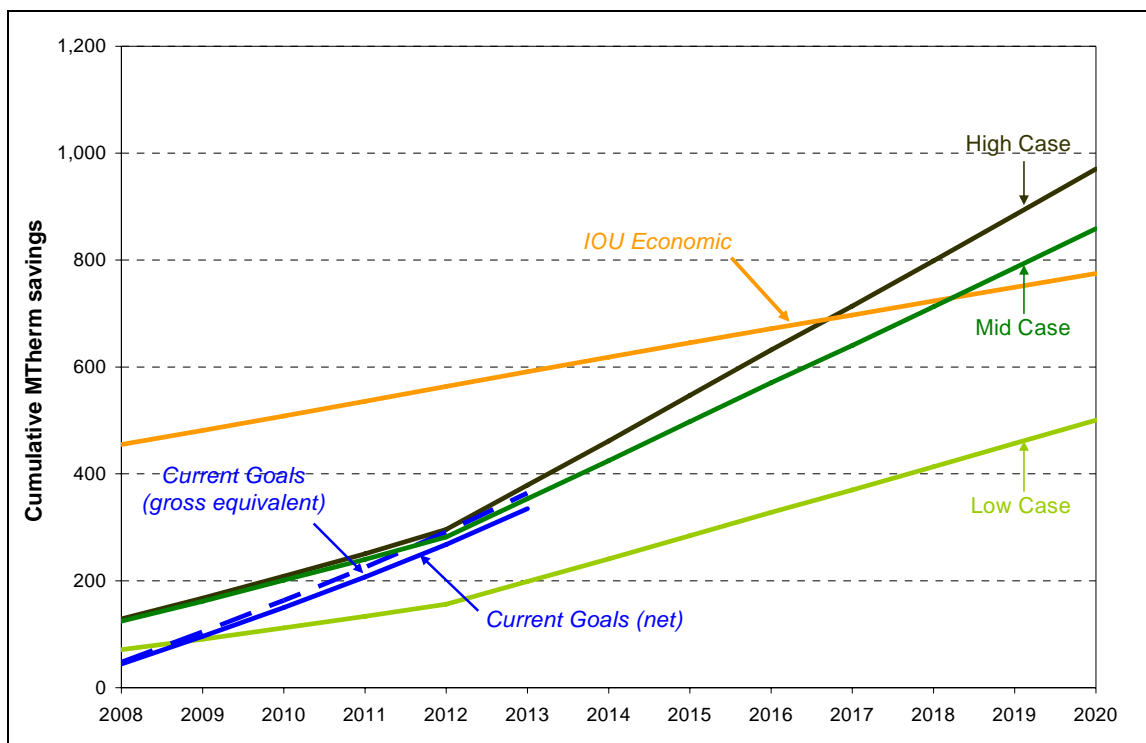
Straw man cases compared to current goals

Figure F4-1 shows the cumulative gas savings over time in each of the straw man cases defined above over the forecast period and compares the respective estimates of total cumulative savings against the current energy savings goals from 2008 to 2013, as well as economic potential. Note that current gas savings goals are shown as both net savings (as currently defined) and as “gross equivalent” savings.¹⁶ We show both versions of current goals in order to provide more accurate and informative comparisons between current goals and the total market gross savings forecasts associated with each straw man case.

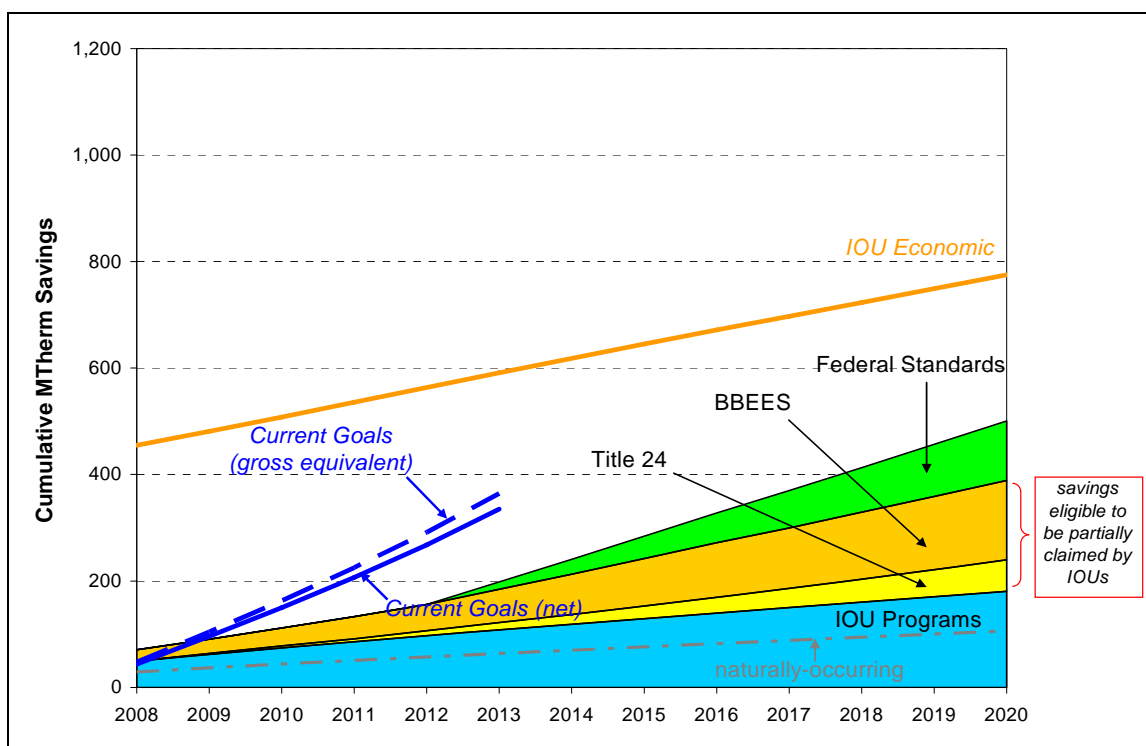
As Figure F4-1 shows, over the first half of the forecast period, the estimated total market gross savings in the Mid and High Cases are consistent with current goals through 2013. Over the latter half of the period, cumulative gas savings in the Mid Case remain consistent with the trajectory of current goals, while cumulative gas savings in the High Case actually grow at a rate that exceeds the trajectory of current goals through 2020. In the Low Case, estimated cumulative gas savings grow slowly in the beginning of the period and fall well below current savings goals by 2013. In the latter half of the period, cumulative savings in the Low Case accelerate significantly but still fall well below the trajectory of current goals.

¹⁶ These “gross equivalent” savings” were derived using a net-to-gross ratio 0.92, which is the implied net-to-gross ratio in the maximum achievable potential forecast in KEMA-Xenergy’s *Secret Surplus* study which was used as the basis for the current net energy savings goals (Energy Foundation, 2002).

Figure F4-1. Cumulative savings from High, Mid and Low Cases compared to current goals through 2013



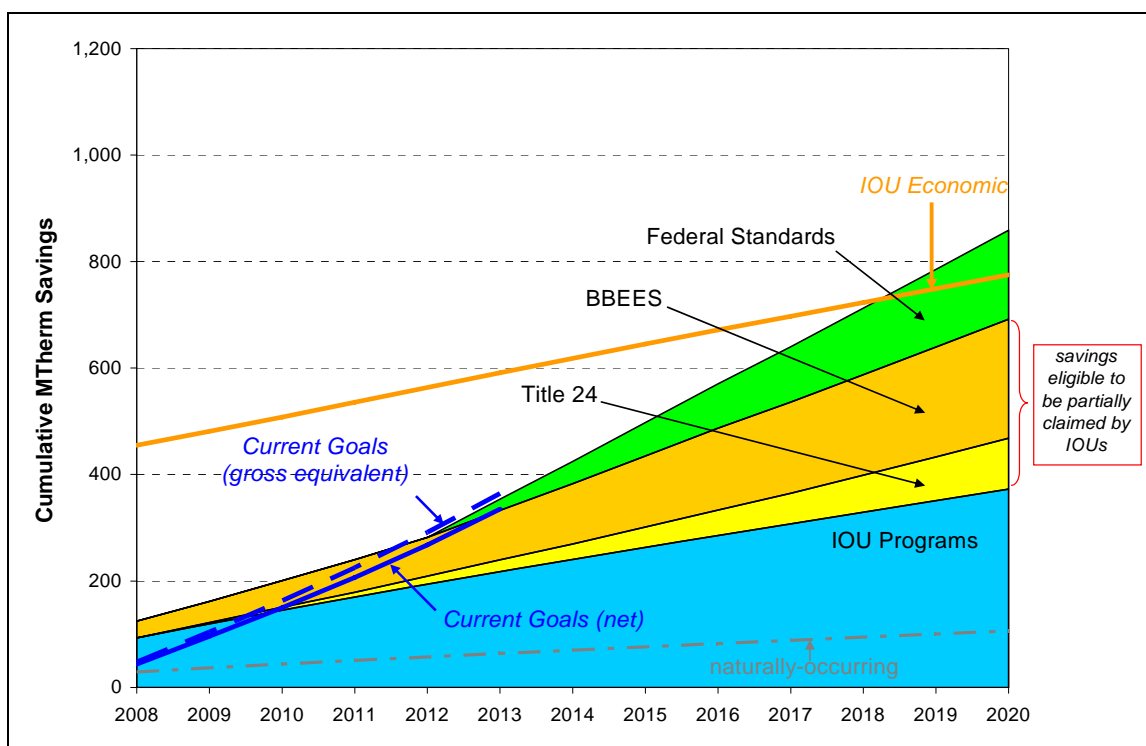
It is important to keep in mind that the cumulative savings estimates shown in Figure F4-1 are total market gross savings, whereas the CPUC's current energy savings goals are defined as IOU net savings. To provide more perspective on how the forecasted savings in the three straw man cases compare to current IOU energy savings goals, Figures F4-2 through F4-4 present the cumulative savings over time from each major energy savings mechanism (i.e. IOU programs, Title 24, federal appliance standards, and the BBEES initiatives) in the Low, Mid, and High Cases, respectively.

Figure F4-2. Composition of savings across mechanisms in the Low Case

As Figure F4-2 shows, IOU programs and the BBEES initiatives make up roughly 60-70% and 30-35%, respectively, of total market gross savings in the Low Case before savings from federal appliance standards and Title 24 revisions begin to make significant contributions starting around 2013. By the end of the forecast period, IOU programs account for just over one third of total market gross savings, with appliance standards and Title 24 making up another third.

From a growth perspective, cumulative savings from IOU programs grow steadily throughout the forecast period but fall well short of current goals by 2013. In the latter half of the forecast period, additional savings from appliance standards and Title 24 drive an increase in total market gross savings at a rate that approaches the annual growth rates implied in current goals. However, total market gross savings in the Low Case still fall well below the trajectory of current goals through the end of the forecast period.

Figure F4-2 also point outs that, under current CPUC rules, the estimated savings from implementation of the BBEES initiatives and new Title 24 building codes will be eligible to be partially claimed by IOUs. Savings attribution from these delivery mechanisms requires that the utilities can prove that their programmatic efforts made substantial contributions to new code development and progress towards achieving the BBEES milestones.

Figure F4-3. Composition of savings across mechanisms in the Mid Case

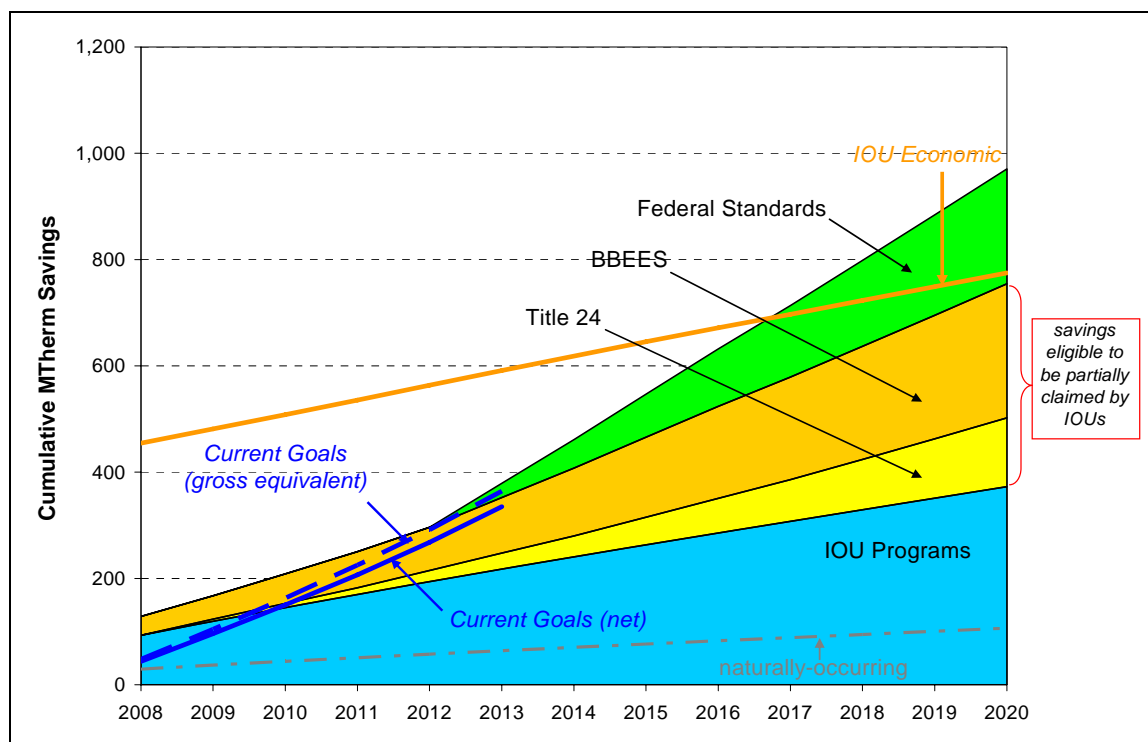
As Figure F4-3 shows, IOU programs and the BBEES initiatives make up roughly 70-75% and 20-25%, respectively, of total market gross savings in the Mid Case before savings from savings from Title 24 and appliance standards begin to make significant contributions starting around 2013. By the end of the forecast period, IOU programs account for less than half of total market gross savings, with appliance standards and Title 24 making up just less than one third.

From a growth perspective, cumulative savings from IOU programs grow slowly throughout the forecast period, albeit at a faster rate than in the Low Case. In this scenario, cumulative savings from IOU programs are estimated to still fall short of current IOU goals by 2013. From a total market gross savings perspective, however, steady growth in savings from the BBEES initiatives largely offsets the slow growth in cumulative savings from IOU programs such that total market gross savings are forecasted to reach the cumulative savings targets of current goals by 2013. In the latter half of the forecast period, additional savings from appliance standards and Title 24 drive an increase in total market gross savings at a rate that maintains the annual growth rates implied in current goals.

Note that Figure F4-3 shows that incremental savings from aggressive codes and standards and successful implementation of the BBEES initiatives are estimated to exceed economic potential before the end of the forecast period in the Mid Case. It is important to understand that the estimates of economic and technical potential from the 2008 Itron update study are only strictly valid benchmarks relative to forecasted savings shown for IOU programs and are not valid benchmarks for incremental savings from

aggressive codes and standards and implementation of the BBEES initiatives. This is because the 2008 Itron update study did not include measures analogous to aggressive codes and standards and the BBEES initiatives and also because we did not estimate cost-effectiveness of new codes and standards and the BBEES initiatives in the SESAT modeling framework. In this sense, the value of our economic potential estimate as a comparative theoretical benchmark for our savings forecasts decreases significantly as the estimated savings from codes and standards and the BBEES initiatives start to account for a larger and larger share of total market gross savings.

Figure F4-4. Composition of savings across mechanisms in the High Case



As Figure F4-4 shows, IOU programs and the BBEES initiatives make up roughly 60-65% and ~25% of total market gross savings, respectively, in the High Case before savings from savings from Title 24 and appliance standards begin to make significant contributions starting around 2013. By the end of the forecast period, IOU programs account for less than 40% of total market gross savings, with appliance standards and Title 24 making up slightly more than one third.

From a growth perspective, cumulative savings from IOU programs grow slowly throughout the forecast period and are estimated to still fall short of current IOU goals by 2013. From a total market gross savings perspective, however, steady growth in savings from the BBEES initiatives largely offsets the slow growth in cumulative savings from IOU programs such that total market gross savings are forecasted to reach the cumulative savings targets of current goals by 2013. In the latter half of the forecast period, additional savings from appliance standards and Title 24 drive an increase in total market

gross savings at a rate that actually exceeds the annual growth rates implied in current goals.

Note again that Figure F4-4 shows that incremental savings from aggressive codes and standards and successful implementation of the BBEES initiatives are estimated to exceed economic potential well before the end of the forecast period in the High Case. It should be reiterated that the estimates of economic and technical potential from the 2008 Itron update study are only strictly valid benchmarks relative to forecasted savings shown for IOU programs and are not valid benchmarks for incremental savings from aggressive codes and standards and implementation of the BBEES initiatives. As such, the value of our economic potential estimate as a comparative theoretical benchmark for our savings forecasts decreases significantly as the estimated savings from codes and standards and the BBEES initiatives start to account for a larger and larger share of total market gross savings.

Table F4-2 shows the results of each straw man scenario by savings mechanism for each year in the forecast period, as well as the annual values for each of the comparative benchmarks shown in Figures F4-2 through F4-4.

Table F4-2. Cumulative MTherm savings by saving mechanism in the High, Mid, and Low straw man cases over time (all IOUs)

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Title 24	0	2	4	6	10	14	18	24	30	36	43	51	59
	Federal Standards	0	0	0	0	0	14	28	42	56	70	84	98	112
	BBEES	21	27	34	42	49	63	76	89	102	114	126	137	149
	IOU Programs	50	62	74	86	97	108	119	130	140	150	160	170	181
Mid	Title 24	0	3	6	9	16	22	29	38	48	58	70	82	95
	Federal Standards	0	0	0	0	0	21	42	63	83	104	125	146	167
	BBEES	32	39	50	61	73	93	113	133	154	171	189	206	224
	IOU Programs	93	119	145	169	194	218	241	263	286	307	329	351	373
High	Title 24	0	4	8	13	21	30	39	52	65	79	95	112	130
	Federal Standards	0	0	0	0	0	27	54	81	108	135	162	189	216
	BBEES	35	44	55	68	81	104	127	150	173	193	213	233	252
	IOU Programs	93	119	145	169	194	218	241	263	286	307	329	351	373
Benchmarks	<i>Economic</i>	455	481	508	536	563	591	618	645	672	697	723	749	775
	<i>Current IOU Goals (gross equivalent)</i>	48	104	163	225	291	364							
	<i>Current IOU Goals (net)</i>	44	96	150	207	268	335							

5

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Appendix G

IOU – Specific Gas Savings Results

Appendix G1

Gas Savings Results for PG&E

Figure G1-1. Technical potential by sector and vintage in PG&E

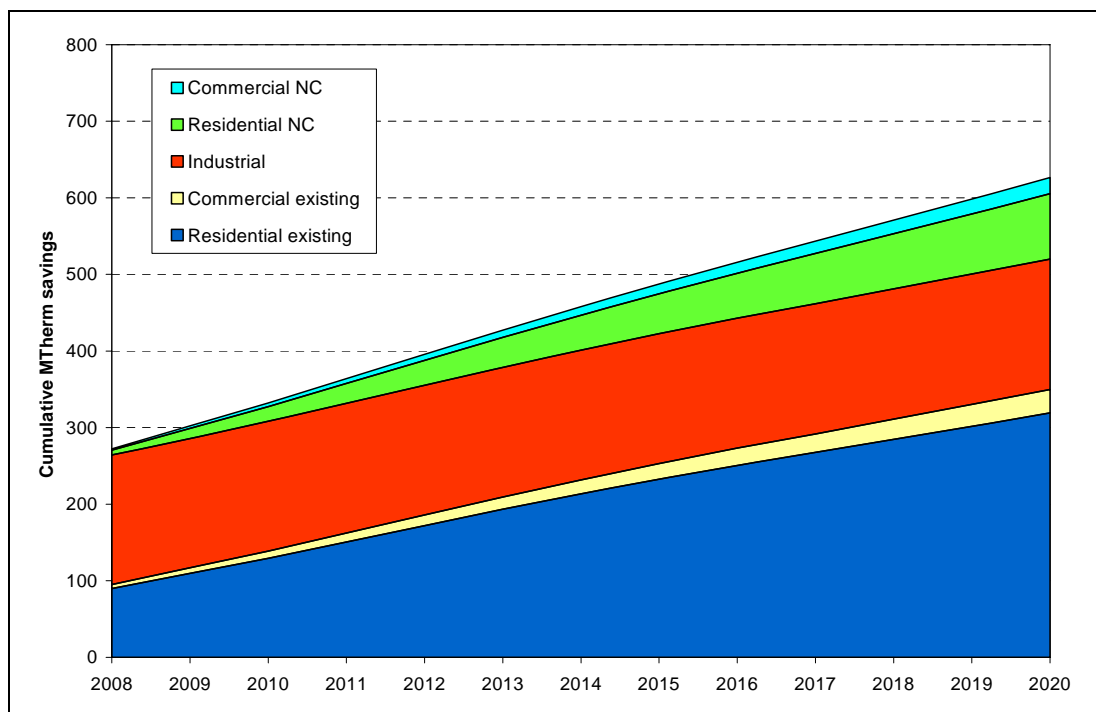


Table G1-1. Technical potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	231	185	166	42	35	28
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heating	167	135	108	60	50	40
Total	398	319	274	102	85	68

Table G1-2. Technical potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	6	5	4	16	13	10
Water Heating	17	15	11	10	8	6
Com Cooking	11	10	8	0	0	0
Miscellaneous	1	1	1	0	0	0
Total	35	30	24	25	21	17

Table G1-3. Technical potential in the industrial sector by end use (cumulative MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	119	103	88
HVAC	5	4	4
Process Heat	72	63	53
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	196	170	145

Figure G1-2. Uncertainty estimate for total technical potential in PG&E

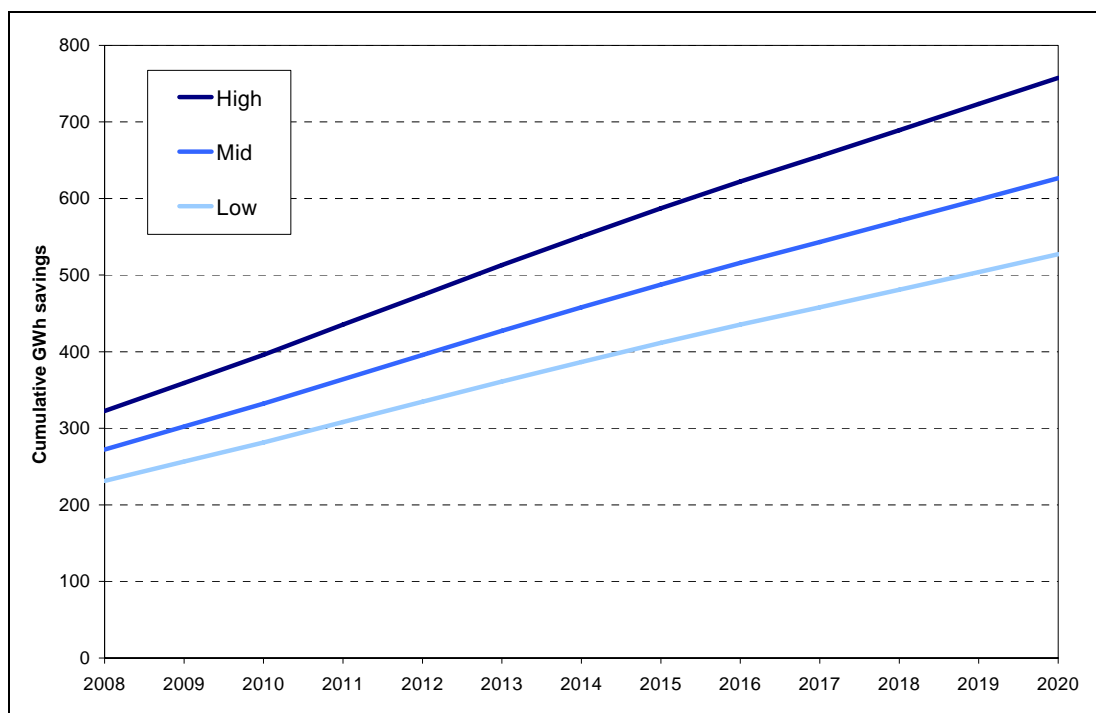


Figure G1-3. Economic potential by sector and vintage in PG&E

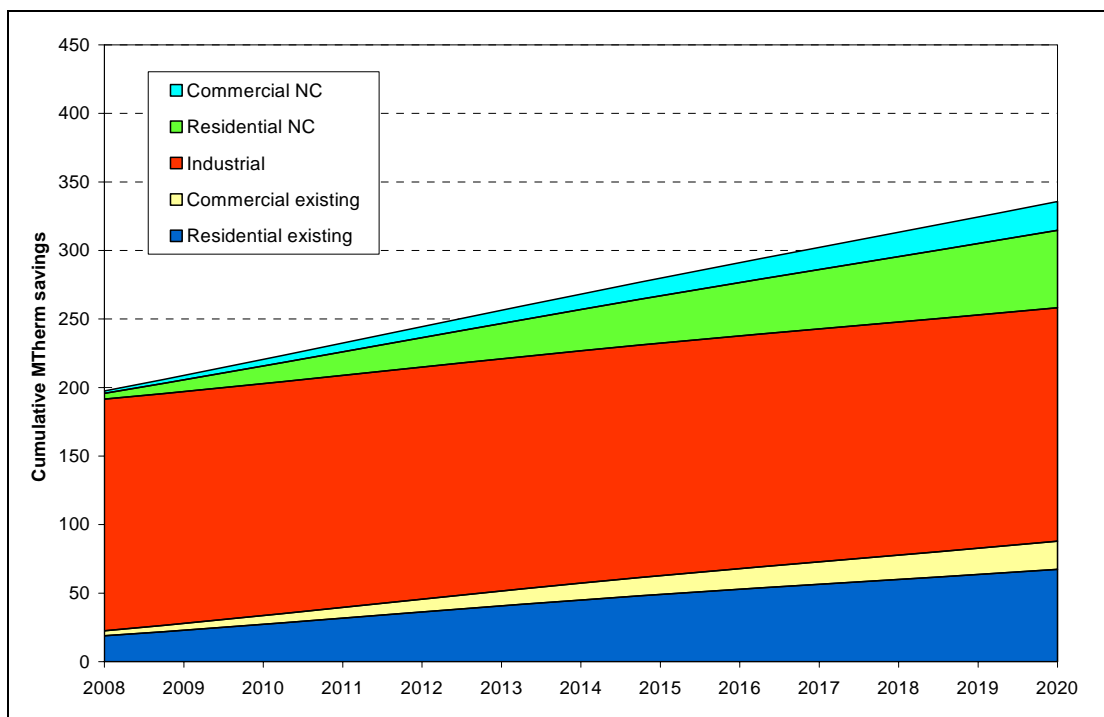


Table G1-4. Economic potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	34	31	28	28	23	18
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	45	36	29	40	33	27
Total	79	67	57	68	56	45

Table G1-5. Economic potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	3	3	2	16	13	10
Water Heating	13	12	9	10	8	6
Com Cooking	6	5	4	0	0	0
Miscellaneous	1	1	1	0	0	0
Total	23	21	16	25	21	17

Table G1-6. Economic potential in the industrial sector by end use (cumulative MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	119	103	88
HVAC	5	4	4
Proc Heat	72	63	53
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	196	170	145

Figure G1-4. Uncertainty estimate for total economic potential in PG&E

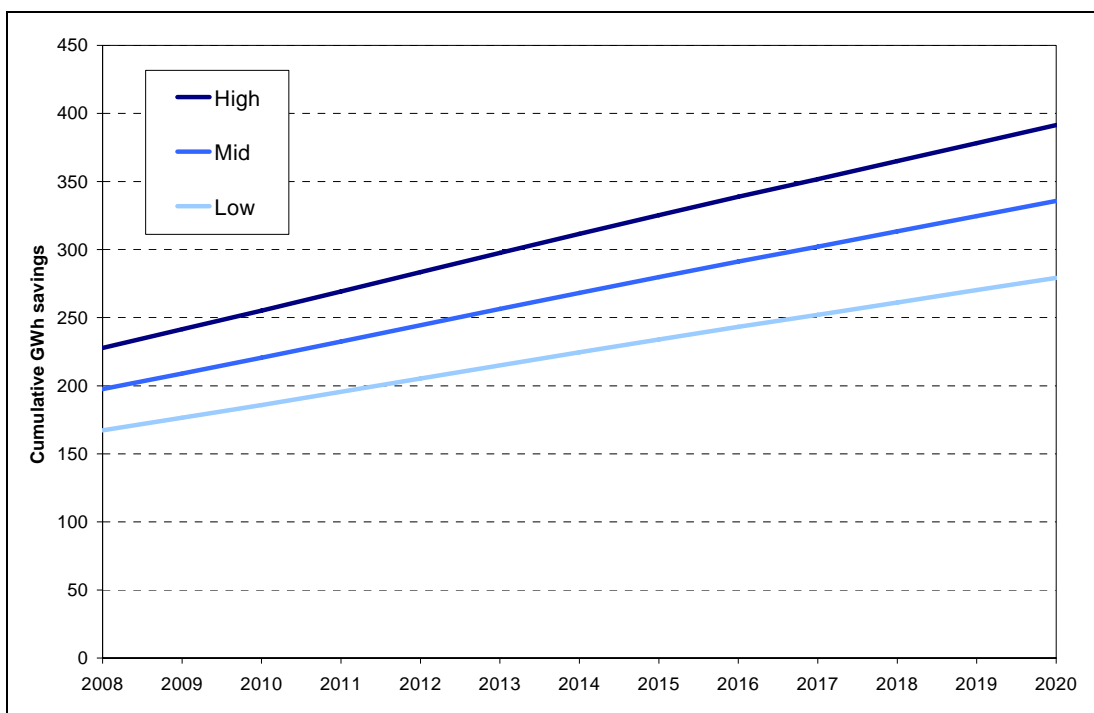


Figure G1-5. Base market potential by sector and vintage in PG&E (gross savings)

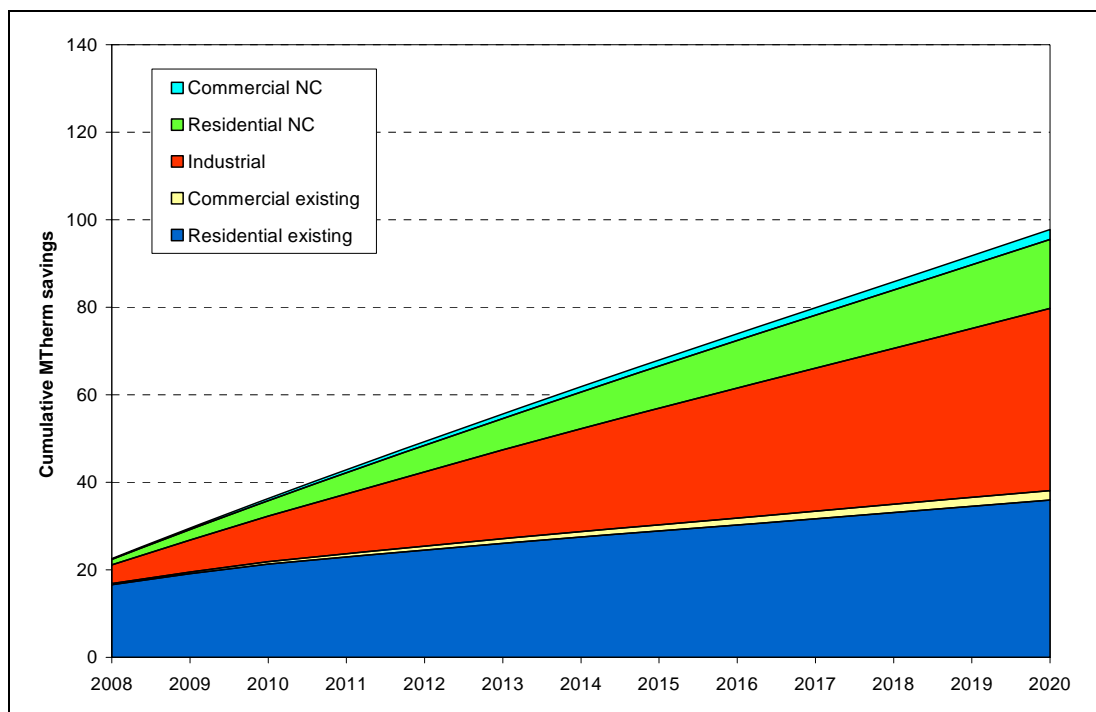


Table G1-7. Base market potential in the residential sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	17	14	11	8	7	5
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	28	22	17	11	9	7
Total	45	36	28	19	16	13

Table G1-8. Base market potential in the commercial sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	1	1	1	2	1	1
Water Heating	1	1	1	1	1	1
Com Cooking	0	0	0	0	0	0
Misc	0	0	0	0	0	0
Total	3	2	2	3	2	2

Table G1-9. Base market potential in the industrial sector by end use (cumulative gross MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	34	29	25
HVAC	1	0	0
Proc Heat	14	12	10
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	48	42	35

Figure G1-6. Uncertainty estimate for total base market potential in PG&E (gross savings)

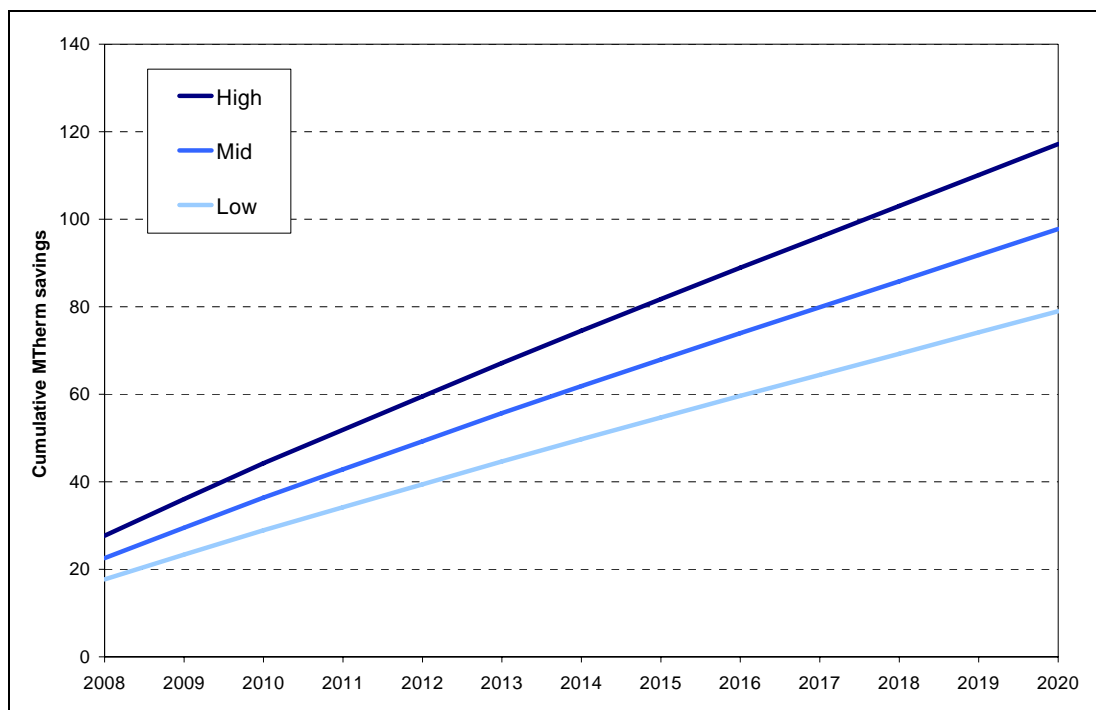


Figure G1-7. Full market potential by sector and vintage in PG&E (gross savings)

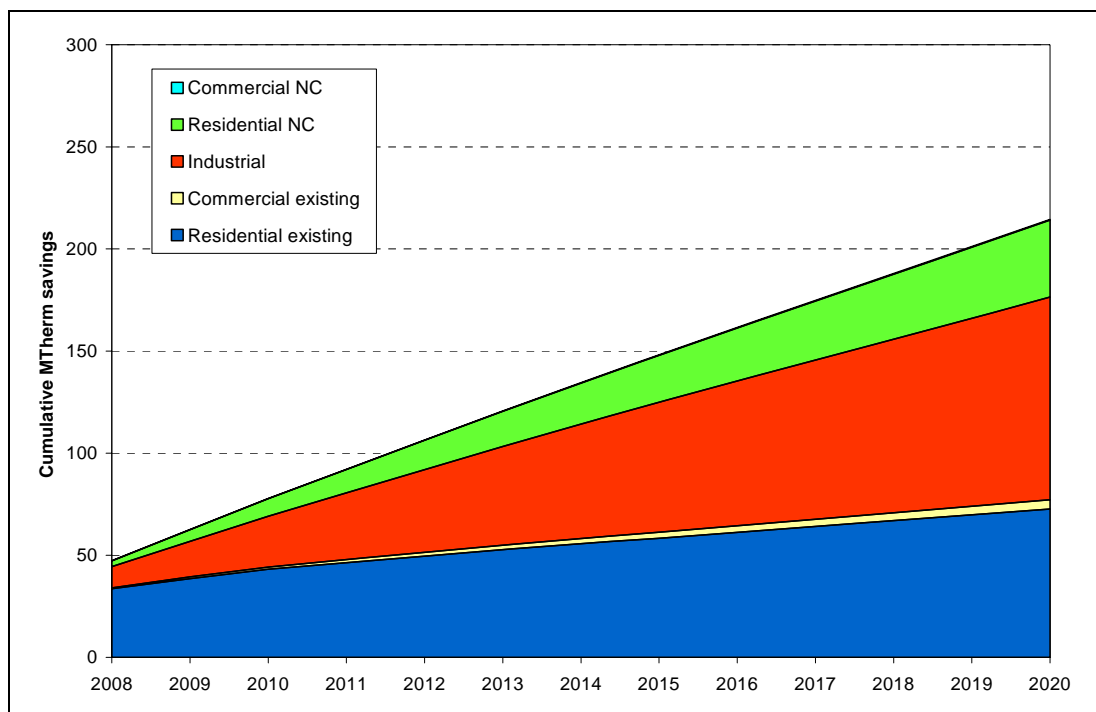


Table G1-10. Full market potential in the residential sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	53	44	33	19	16	13
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	36	29	22	26	22	18
Total	89	73	54	45	38	30

Table G1-11. Full market potential in the commercial sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	3	3	2	2	1	0
Water Heating	2	2	1	0	0	-1
Com Cooking	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Total	5	5	4	2	0	-1

Table G1-12. Full market potential in the industrial sector by end use (cumulative gross MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	61	53	45
HVAC	3	3	2
Proc Heat	49	43	36
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	114	99	84

Figure G1-8. Uncertainty estimate for total full market potential in PG&E (gross savings)

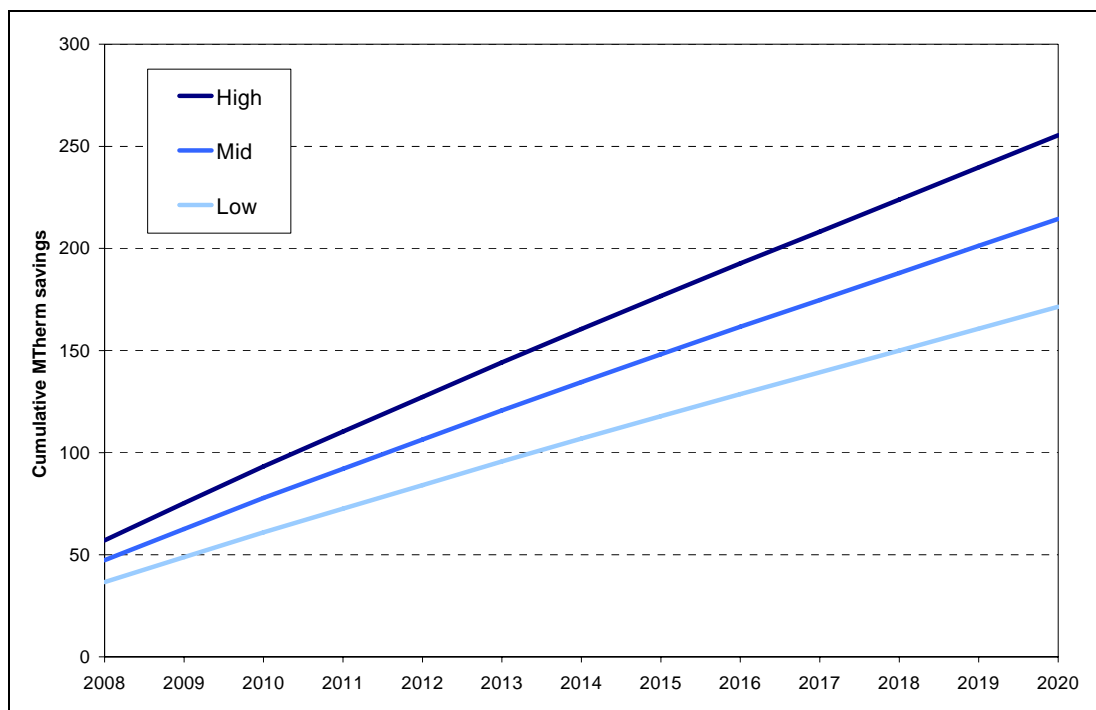
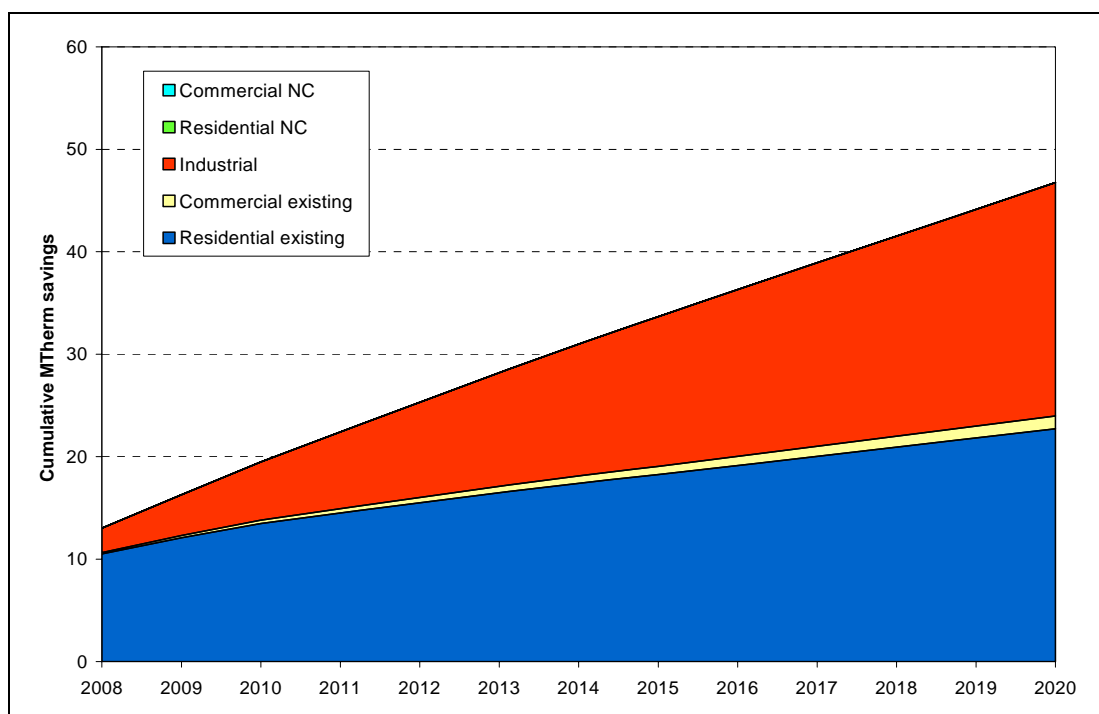


Figure G1-9. Naturally-occurring potential by sector and vintage in PG&E**Table G1-13. Naturally-occurring potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	15	12	10	0	0	0
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	13	11	8	0	0	0
Total	28	23	18	0	0	0

Table G1-14. Naturally-occurring potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Water Heating	1	1	1	0	0	0
Com Cooking	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0
Total	2	1	1	0	0	0

**Table G1-15. Naturally-occurring potential in the industrial sector by end use
(cumulative MTherm savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Boilers	21	18	15
HVAC	0	0	0
Proc Heat	6	5	4
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	26	23	19

Figure G1-10. Uncertainty estimate for total naturally-occurring potential in PG&E

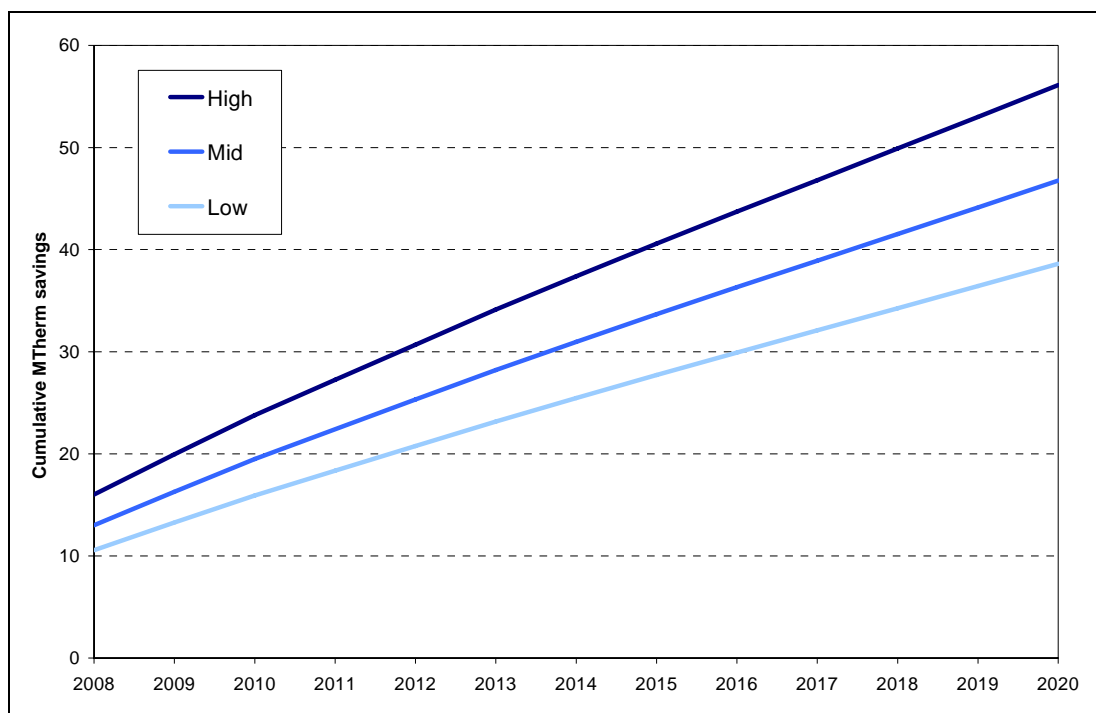


Figure G1-11. Estimated potential savings from BBEES initiatives in PG&E (gross savings incremental to base market potential)

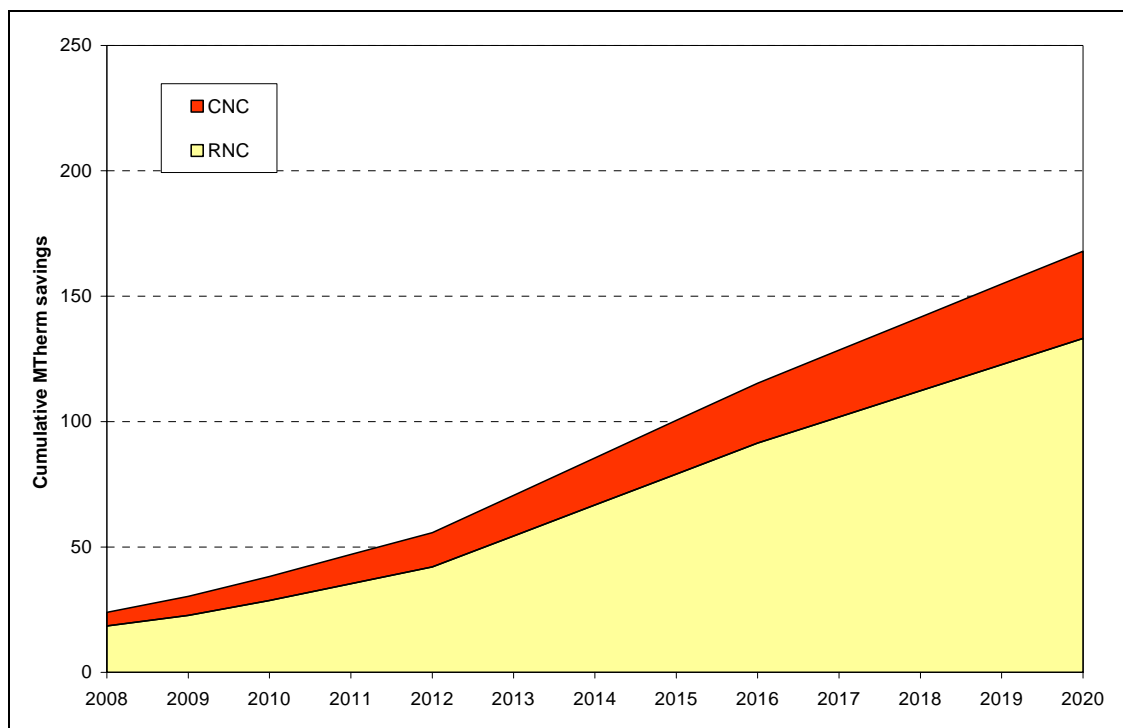


Figure G1-12. Uncertainty estimate for potential savings from all BB initiatives in PG&E (gross savings incremental to base market potential)

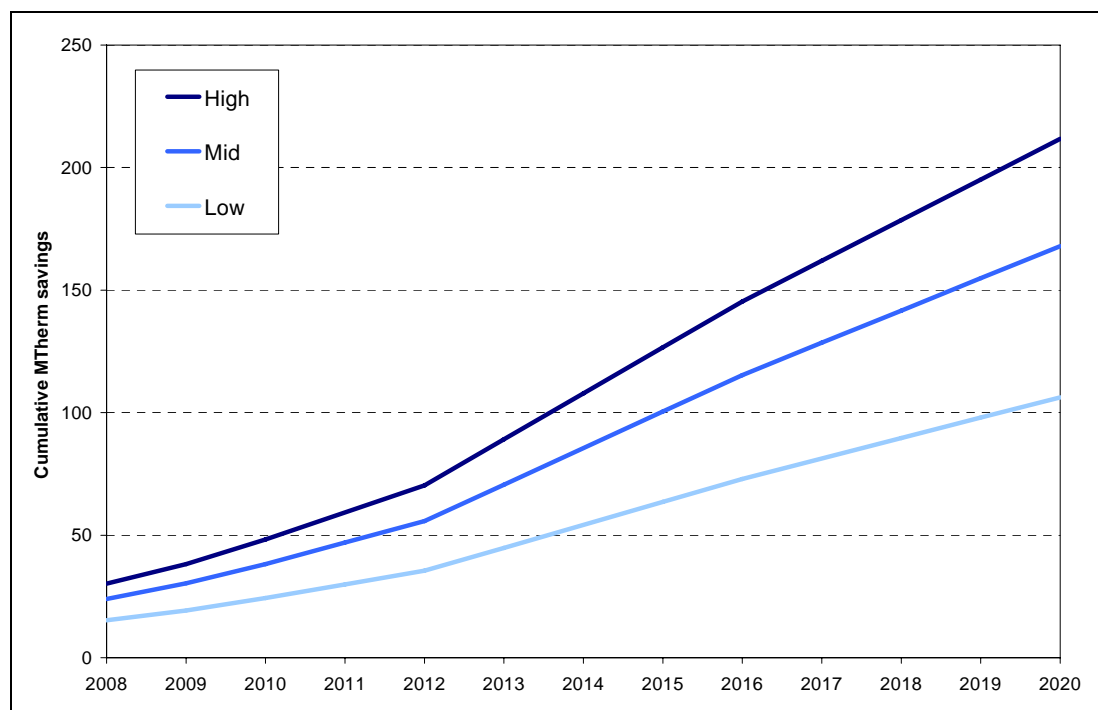


Figure G1-13. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction in PG&E (gross savings)

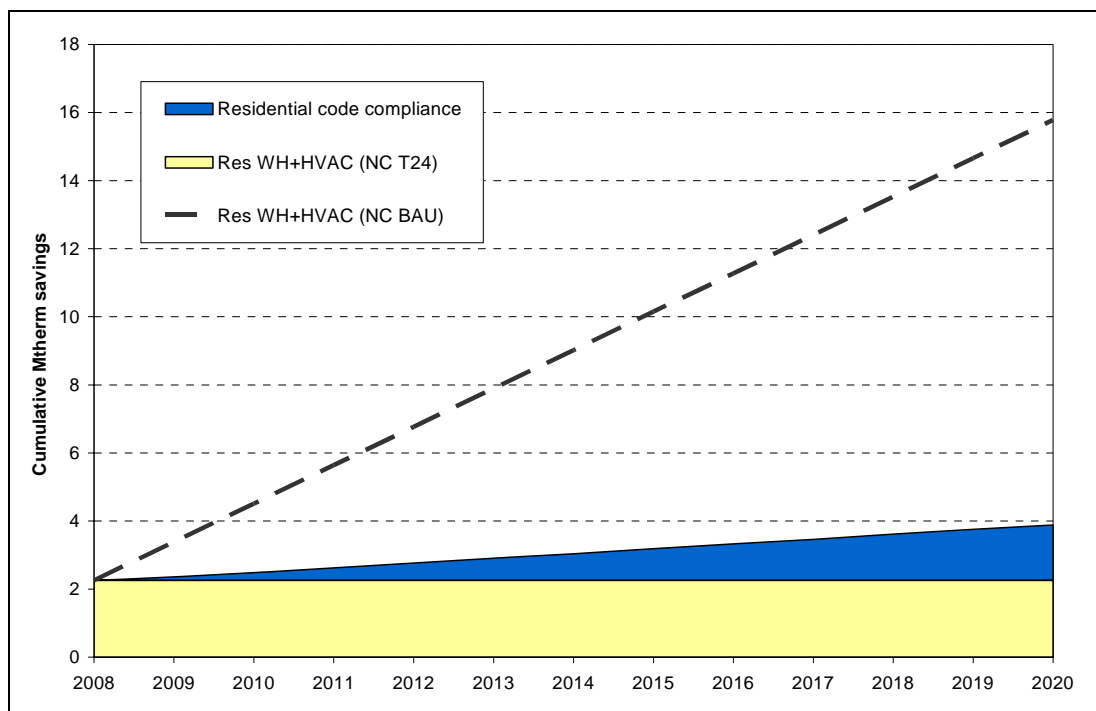


Figure G1-14. Total impact of future codes and standards on base market potential of IOU programs in PG&E (gross savings)

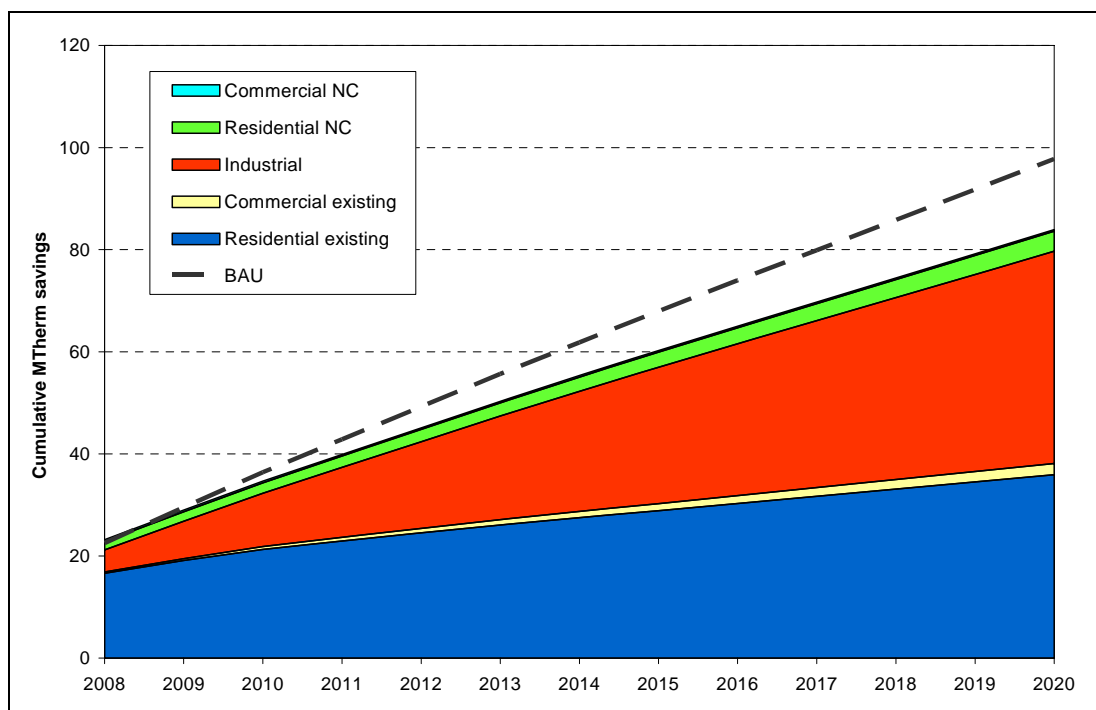


Figure G1-15. Uncertainty estimate of total base market potential of IOU programs after accounting for impacts of future codes and standards in PG&E (gross savings)

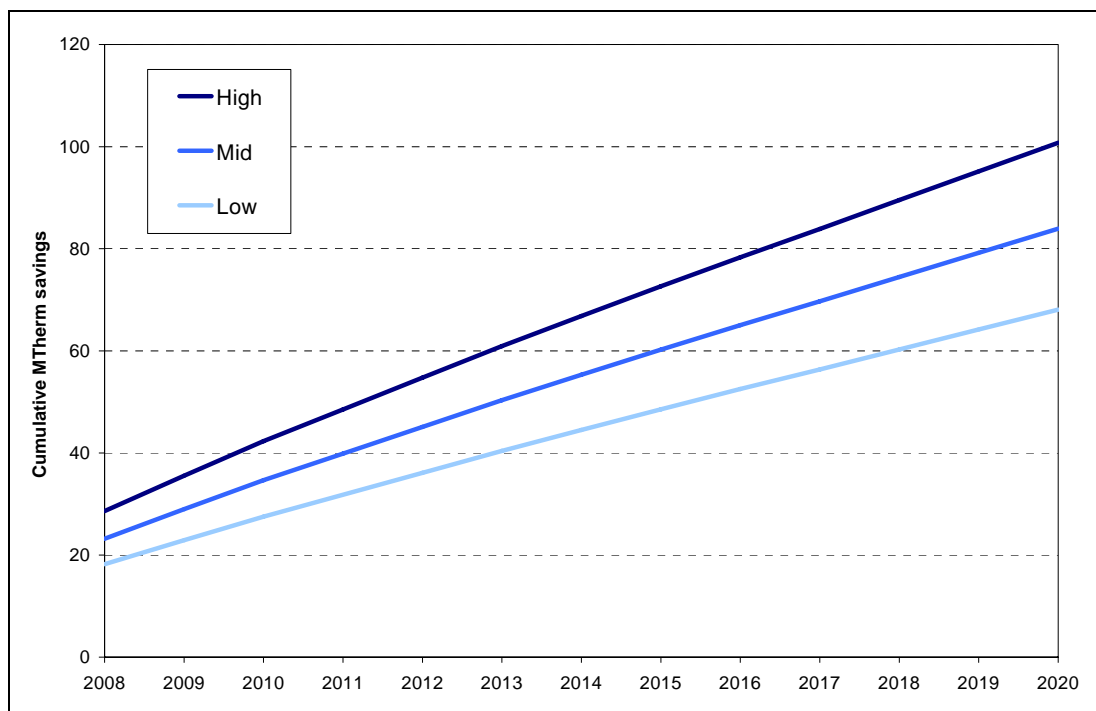


Figure G1-16. Estimated potential savings from implementation of the revisions to Title 24 in PG&E (gross savings incremental to C&S-adjusted base market potential)

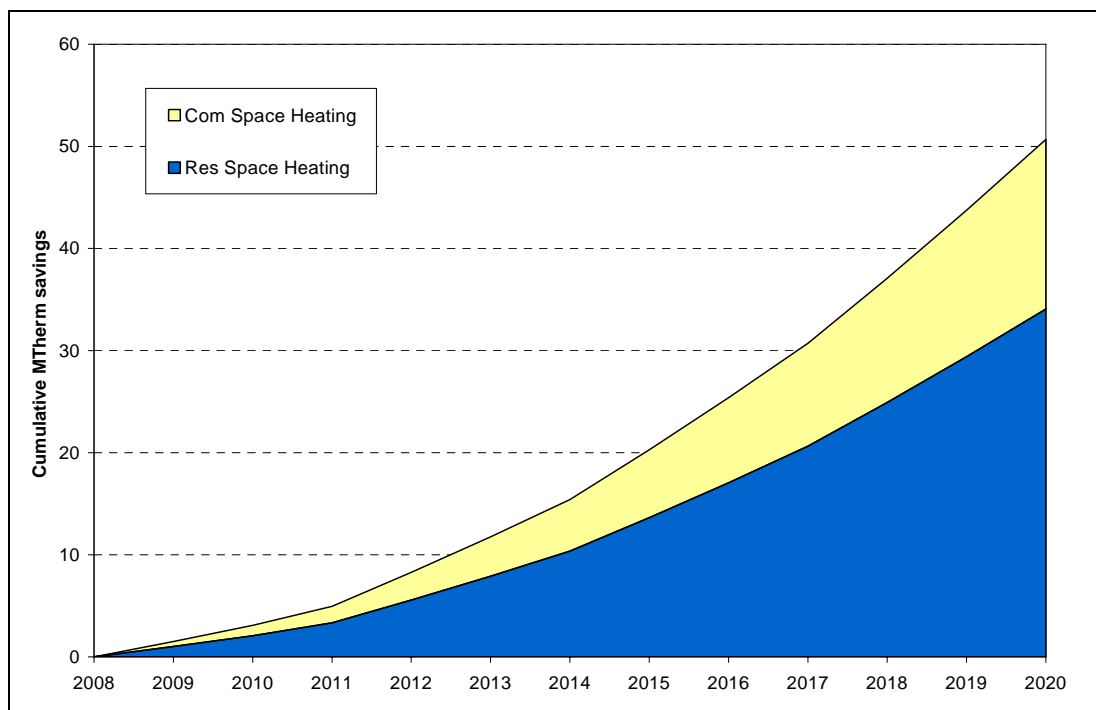


Figure G1-17. Estimated potential savings from implementation of the revised federal appliance standards in PG&E (gross savings incremental to C&S-adjusted base market potential)

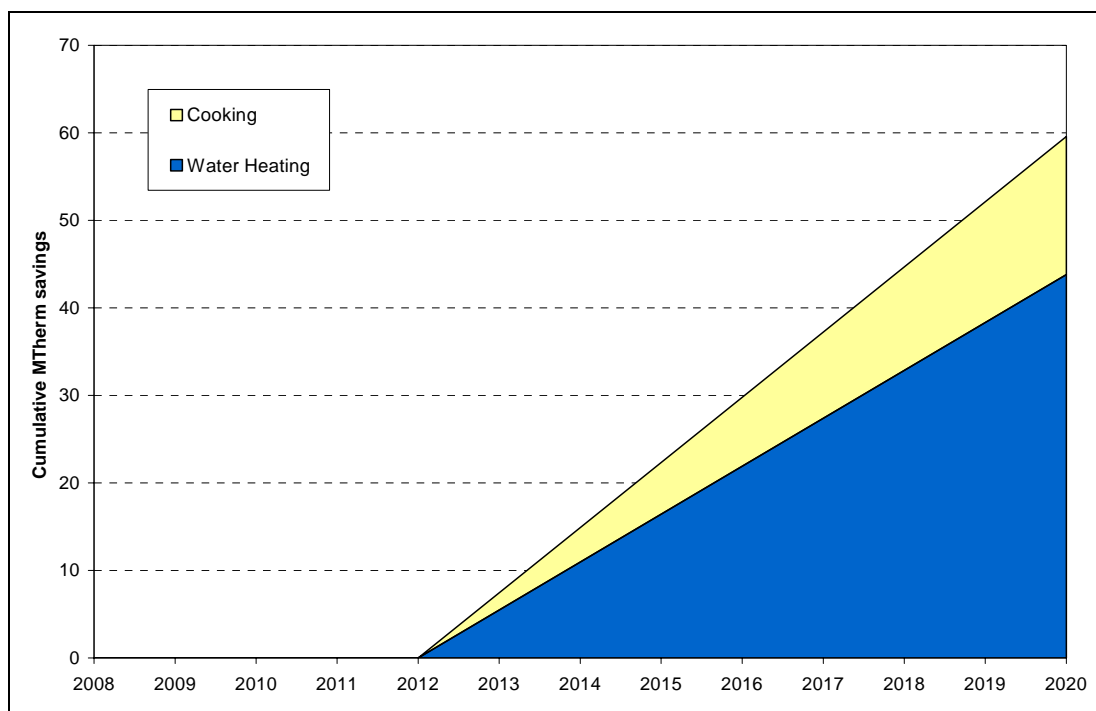


Figure G1-18. Estimated potential savings from future codes and standards in PG&E (gross savings incremental to C&S-adjusted base market potential)

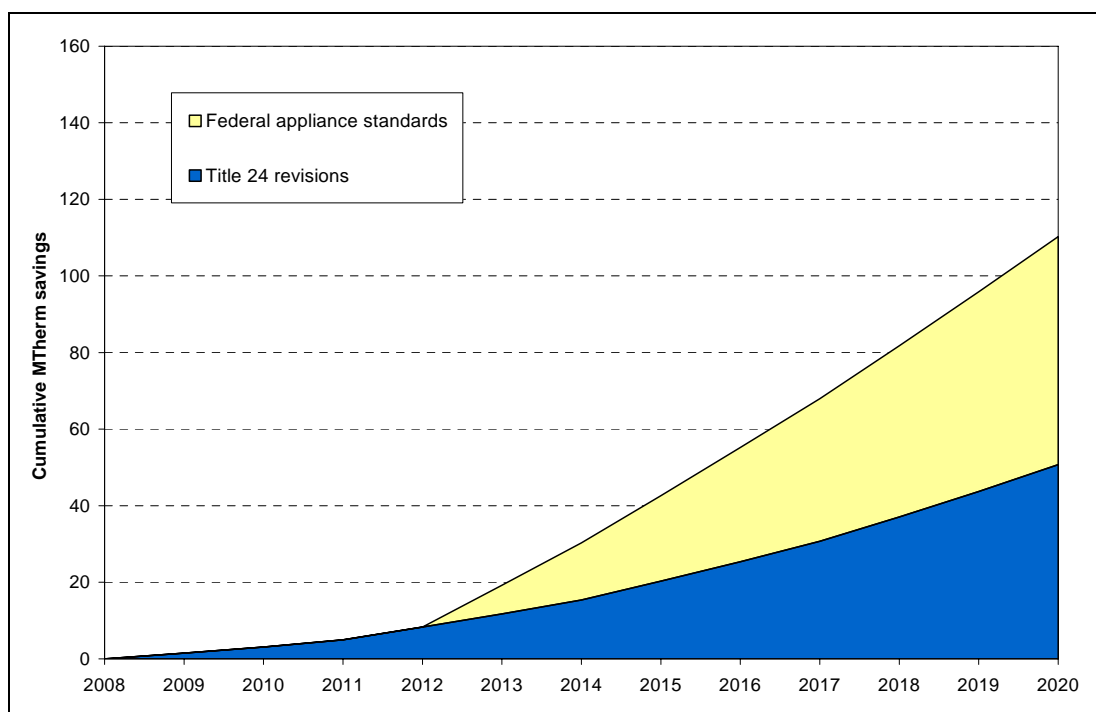


Figure G1-19. Uncertainty estimate of total potential savings from future codes and standards in PG&E (gross savings incremental to C&S-adjusted base market potential)

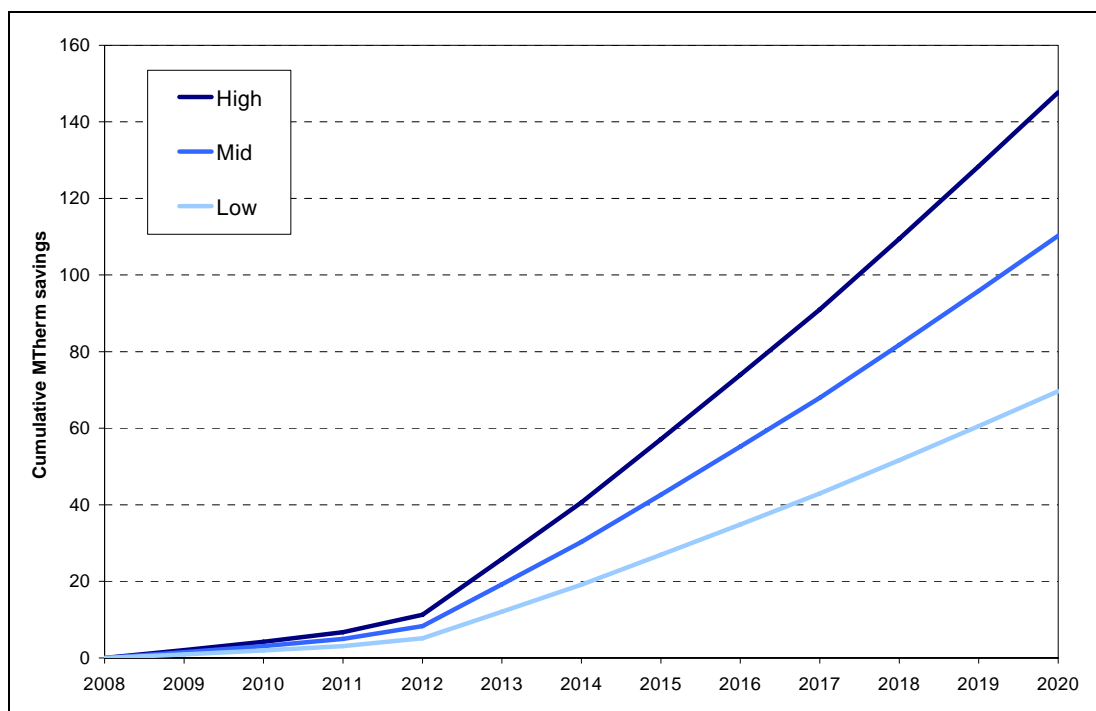


Figure G1-20. Estimated potential savings from all scenarios in PG&E (gross savings assuming base-funding for IOU programs)

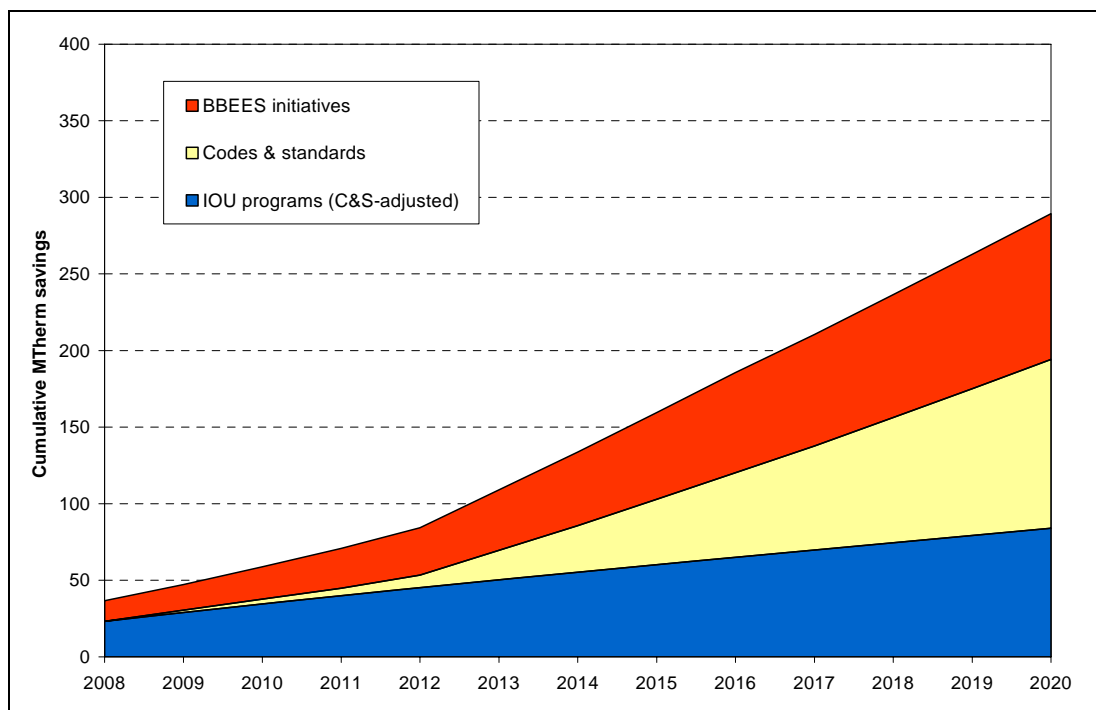


Figure G1-21. Estimated potential savings from all scenarios in PG&E (gross savings assuming full-funding for IOU programs)

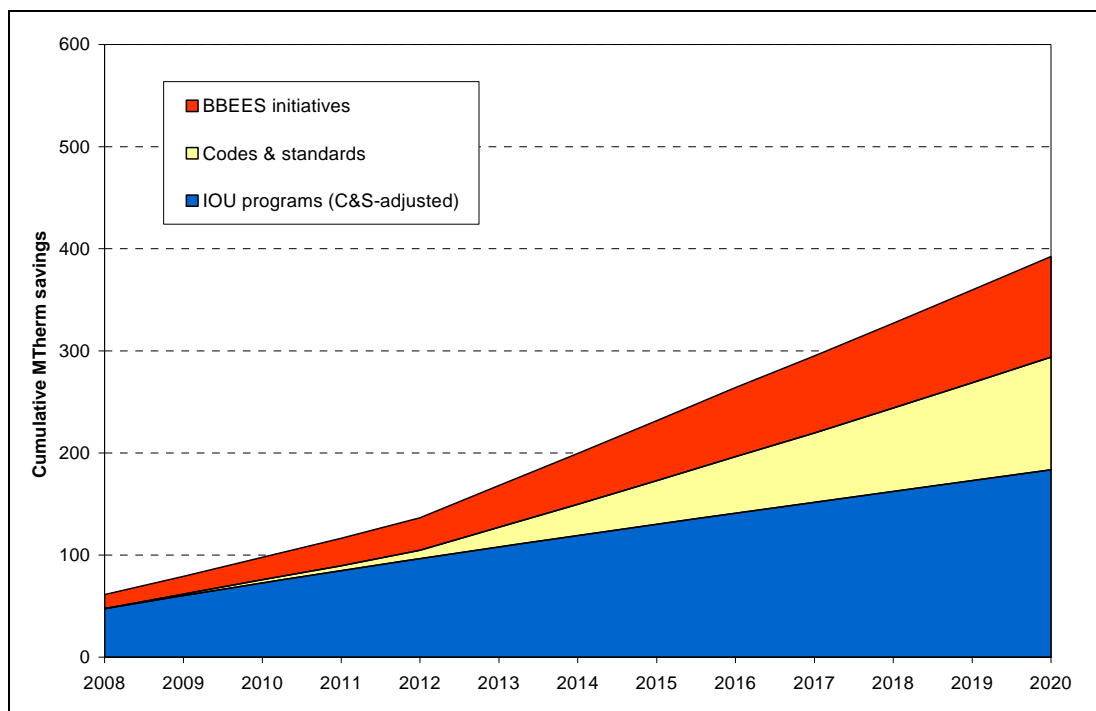


Table G1-16. Summary of estimated savings potential for each scenario in PG&E (cumulative gross MTherm savings in 2020)

Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	RNC	100	85	52	103	88	55
	CNC	9	11	13	9	11	13
	Total	109	95	65	112	99	69
Title 24 revisions	RNC	45	34	9	45	34	9
	CNC	24	17	23	24	17	23
	Total	69	51	31	69	51	31
Federal standards	Water Heaters	63	44	23	63	44	23
	Ranges/Ovens	16	16	15	16	16	15
	Total	79	60	38	79	60	38
IOU code compliance (res)	Total	3	2	1	4	2	3
IOU programs (C&S-adjusted)	Res existing	45	36	28	89	73	54
	Com existing	3	2	2	5	5	4
	Industrial	48	42	35	114	99	84
	RNC	5	4	3	8	7	6
	CNC	0	0	0	0	0	0
	Total	101	84	68	217	183	148
TOTAL GROSS SAVINGS POTENTIAL		360	291	204	481	394	289
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		56	47	39	56	47	39

Figure G1-22. Uncertainty estimate of total potential savings from all scenarios in PG&E (gross savings assuming base-funding for IOU programs)

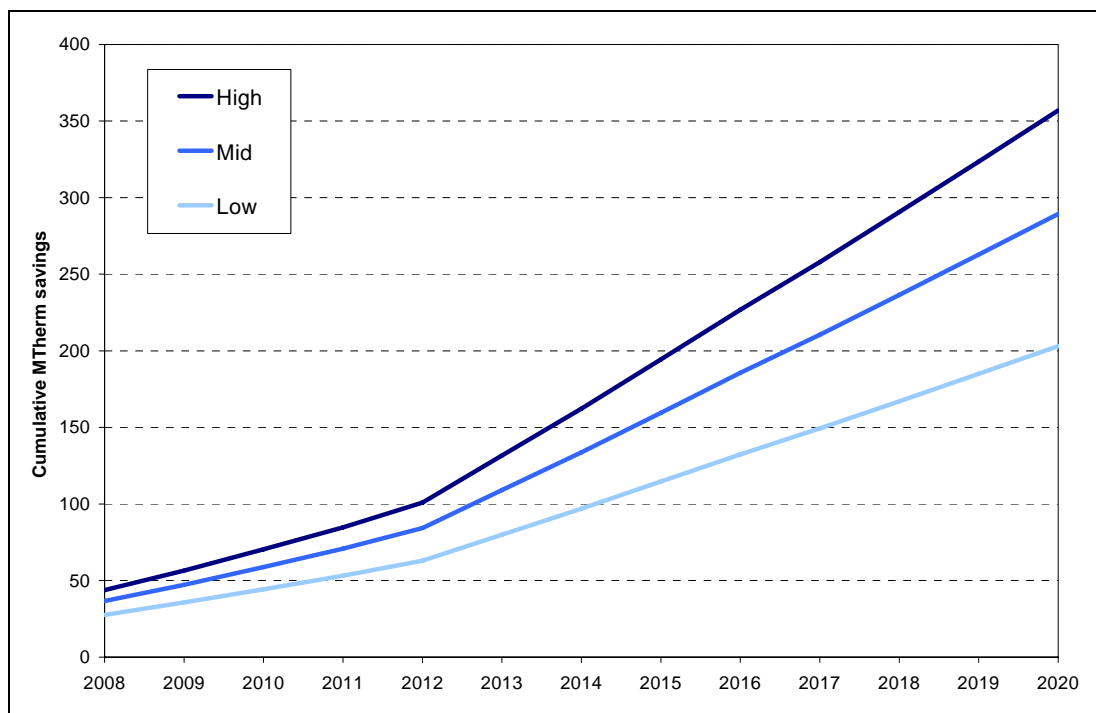


Figure G1-23. Uncertainty estimate of total potential savings from all scenarios in PG&E (gross savings assuming full-funding for IOU programs)

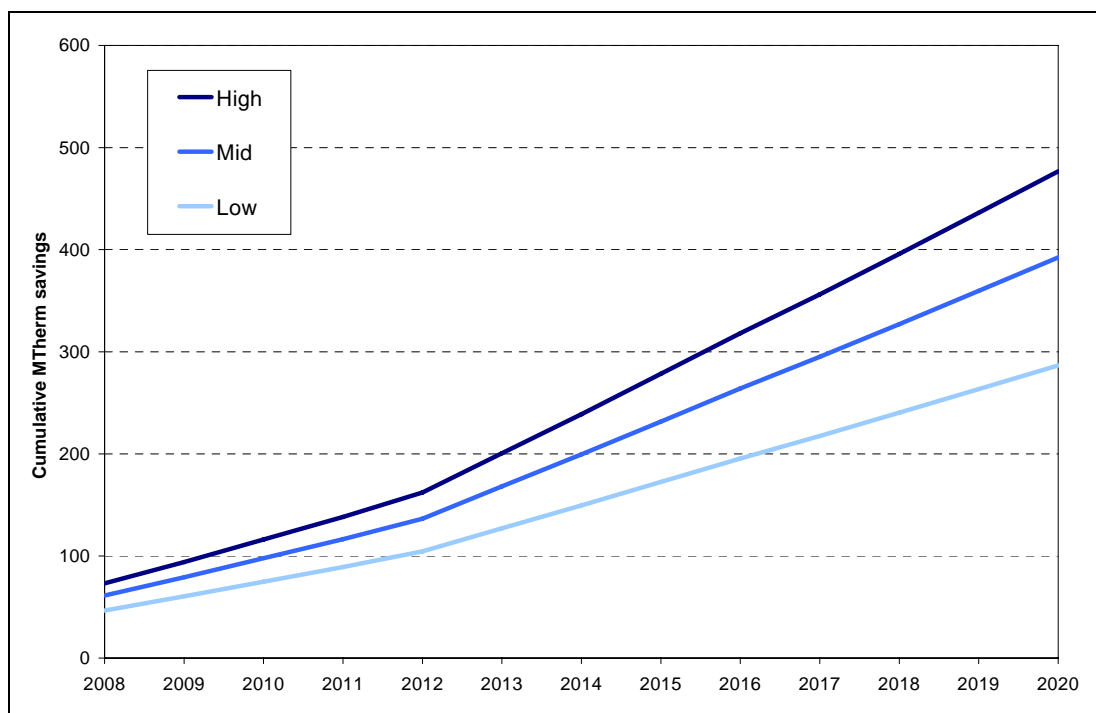


Figure G1-24. Cumulative gas savings from High, Mid and Low Cases in PG&E compared to current goals through 2013

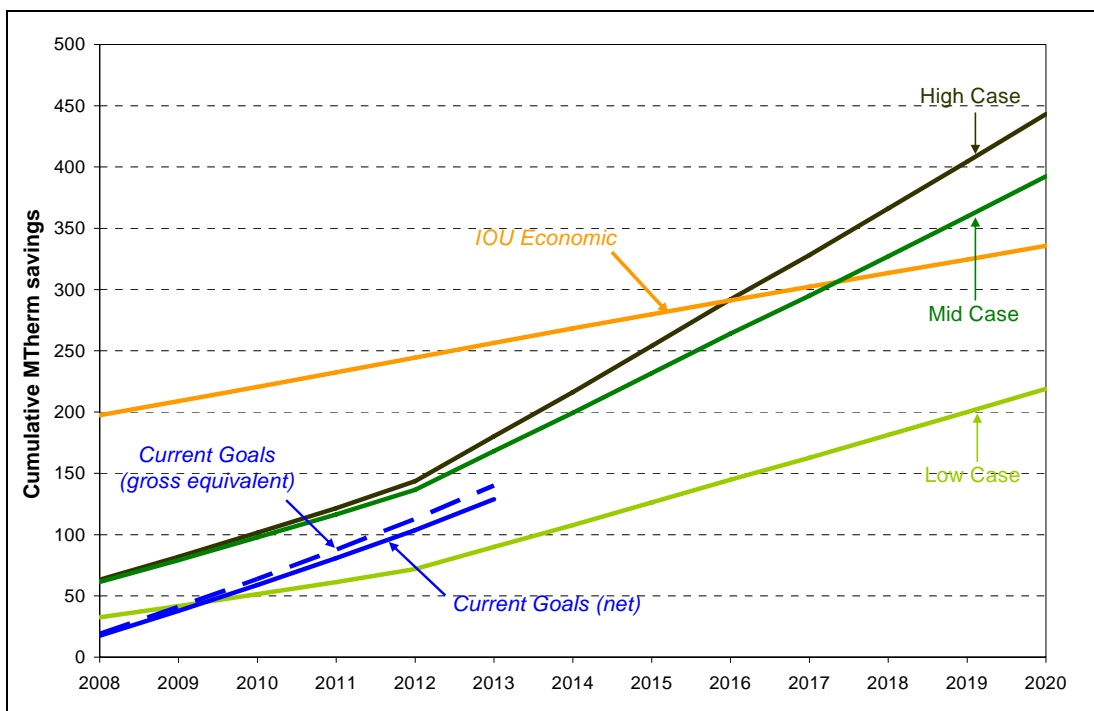


Figure G1-25. Composition of gas savings across mechanisms in the Low Case in PG&E

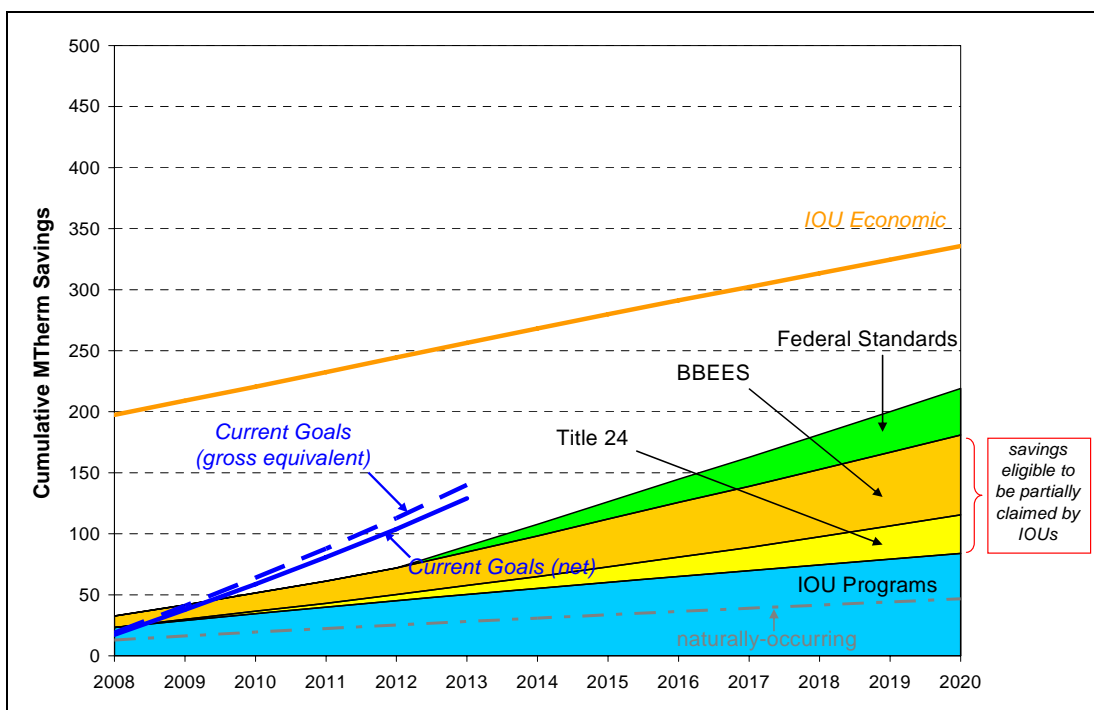


Figure G1-26. Composition of gas savings across mechanisms in the Mid Case in PG&E

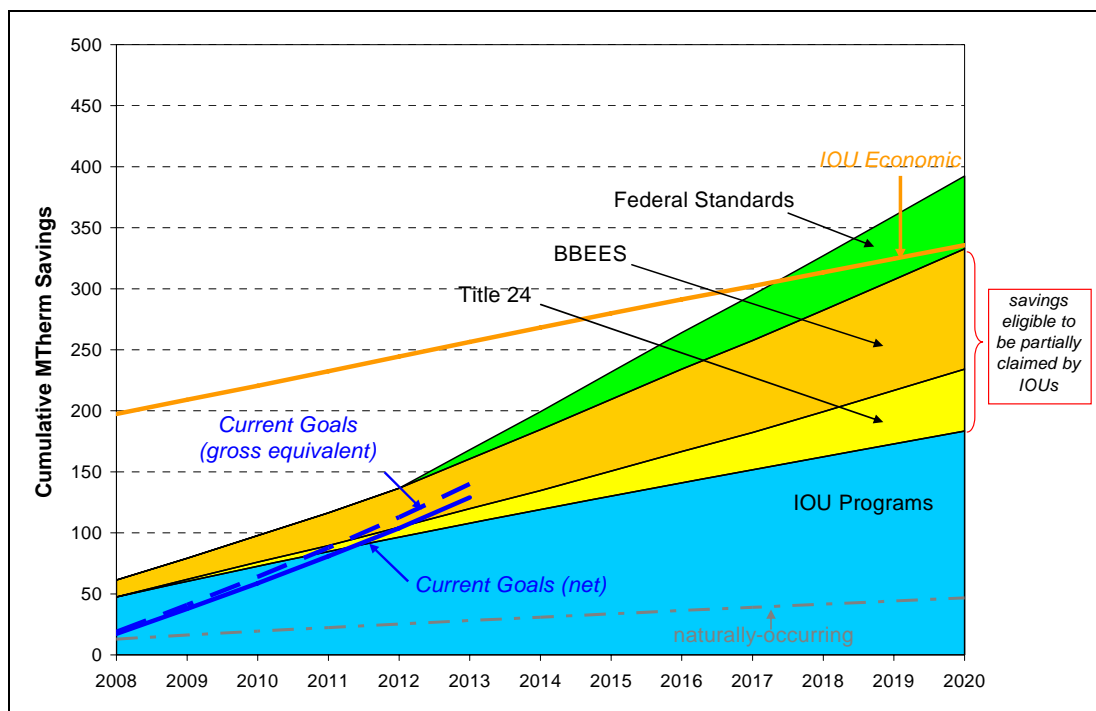


Figure G1-27. Composition of gas savings across mechanisms in the High Case in PG&E

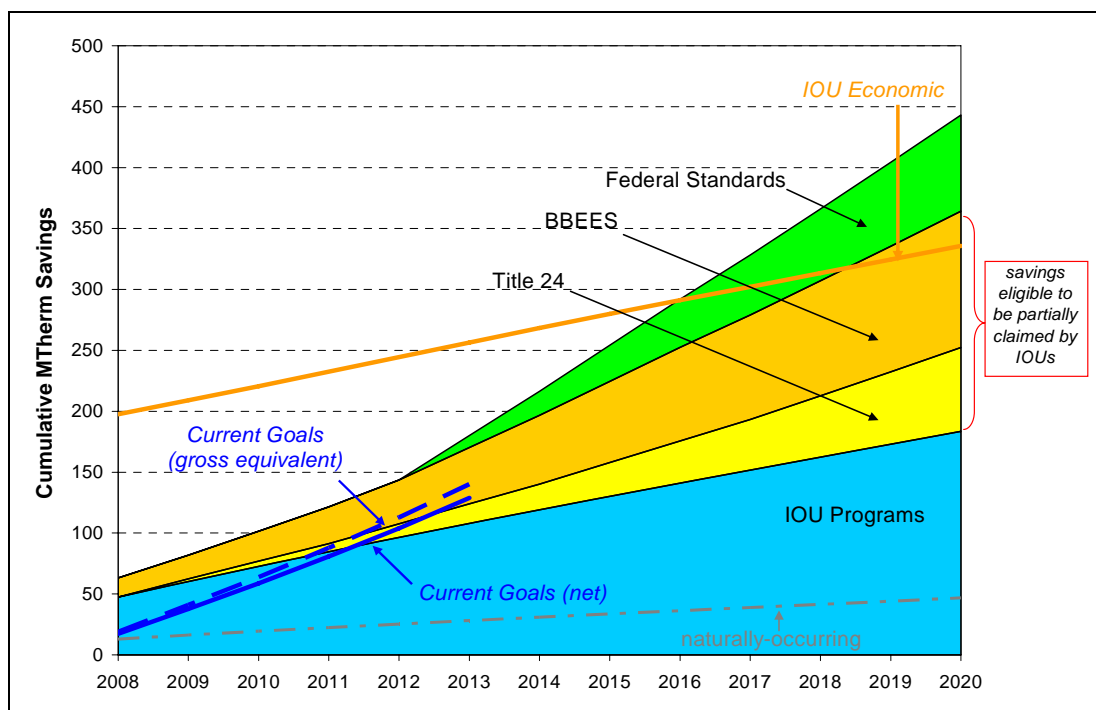


Table G1-17. Estimated gas savings in the High, Mid, and Low straw man cases in PG&E (cumulative MTherm savings in 2020)

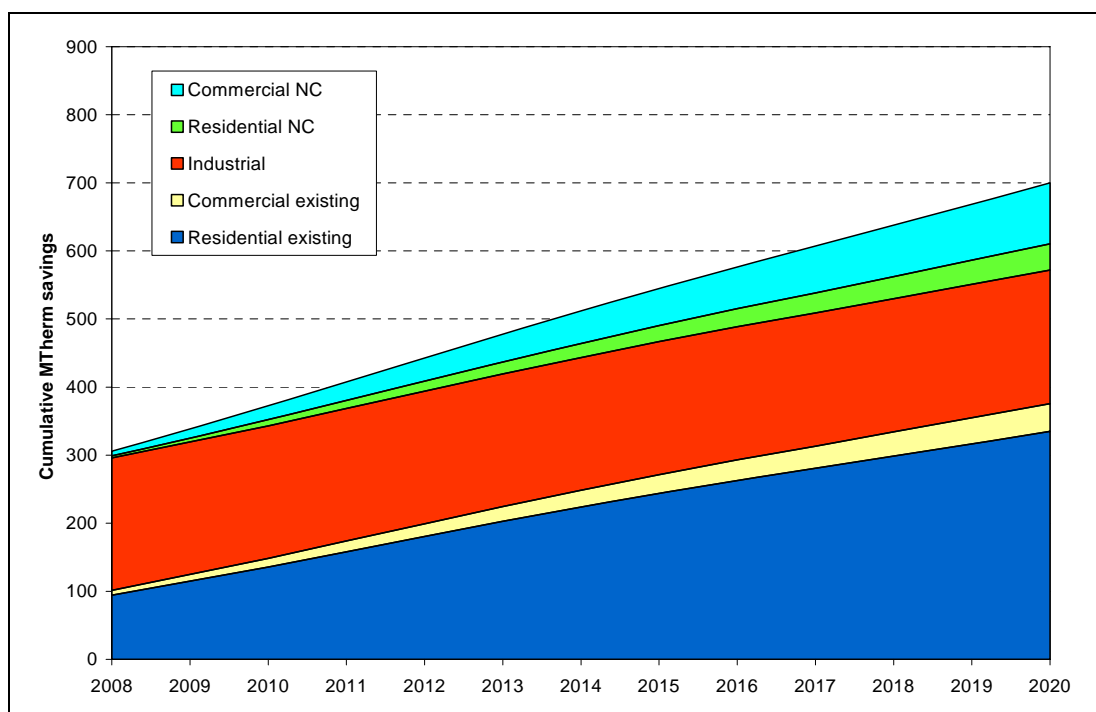
Savings mechanism:	Low Case	Mid Case	High Case
Utility programs (gross)	84	183	183
Title 24	32	51	69
Federal appliance standards	38	60	79
BBEES initiatives	65	99	112
Total	392	392	443

Table G1-18. Cumulative MTherm savings by saving mechanism in the High, Mid, and Low straw man cases in PG&E over time

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Title 24	0	1	2	3	5	7	10	13	16	19	23	27	32
	Federal Standards	0	0	0	0	0	5	10	14	19	24	29	33	38
	BBEES	9	12	15	18	22	27	33	39	45	50	55	60	65
	IOU Programs	23	29	35	40	45	50	55	60	65	70	74	79	84
Mid	Title 24	0	2	3	5	8	12	15	20	25	31	37	44	51
	Federal Standards	0	0	0	0	0	7	15	22	30	37	45	52	60
	BBEES	14	17	22	27	32	41	50	59	68	75	83	91	99
	IOU Programs	48	60	73	85	96	108	119	130	141	152	162	173	183
High	Title 24	0	2	4	7	11	16	21	28	34	42	50	59	69
	Federal Standards	0	0	0	0	0	10	20	30	39	49	59	69	79
	BBEES	16	20	25	30	36	46	56	67	77	86	94	103	112
	IOU Programs	48	60	73	85	96	108	119	130	141	152	162	173	183
<i>Benchmarks</i>	<i>Economic</i>	197	209	221	232	244	256	268	280	291	302	313	325	336
	<i>Current IOU Goals (gross equivalent)</i>	19	41	64	88	113	140							
	<i>Current IOU Goals (net)</i>	17	38	59	81	104	129							

Appendix G2

Gas Savings Results for SCG

Figure G2-1. Technical potential by sector and vintage in SCG**Table G2-1. Technical potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	223	179	161	24	20	16
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heating	194	156	125	22	18	15
Total	417	335	286	46	39	31

Table G2-2. Technical potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	5	4	3	36	30	24
Water Heating	20	17	13	72	60	48
Com Cooking	21	18	14	0	0	0
Miscellaneous	2	2	2	0	0	0
Total	47	41	32	108	89	71

Table G2-3. Technical potential in the industrial sector by end use (cumulative MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	146	127	108
HVAC	7	6	5
Process Heat	72	63	54
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	225	196	167

Figure G2-2. Uncertainty estimate for total technical potential in SCG

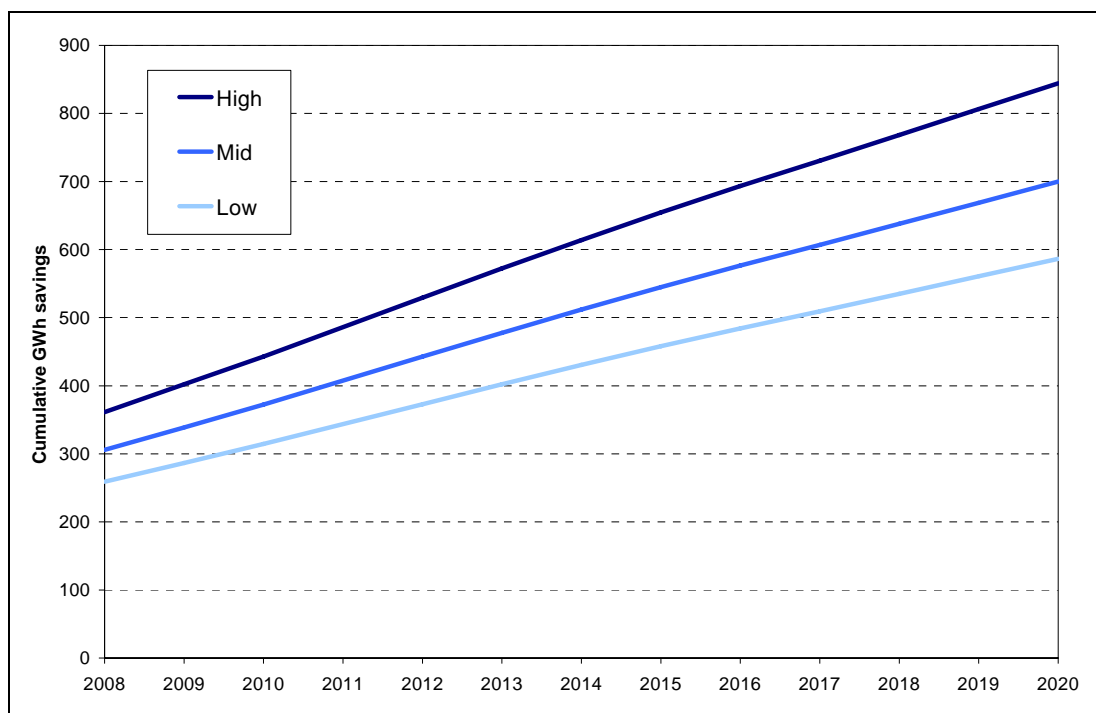


Figure G2-3. Economic potential by sector and vintage in SCG

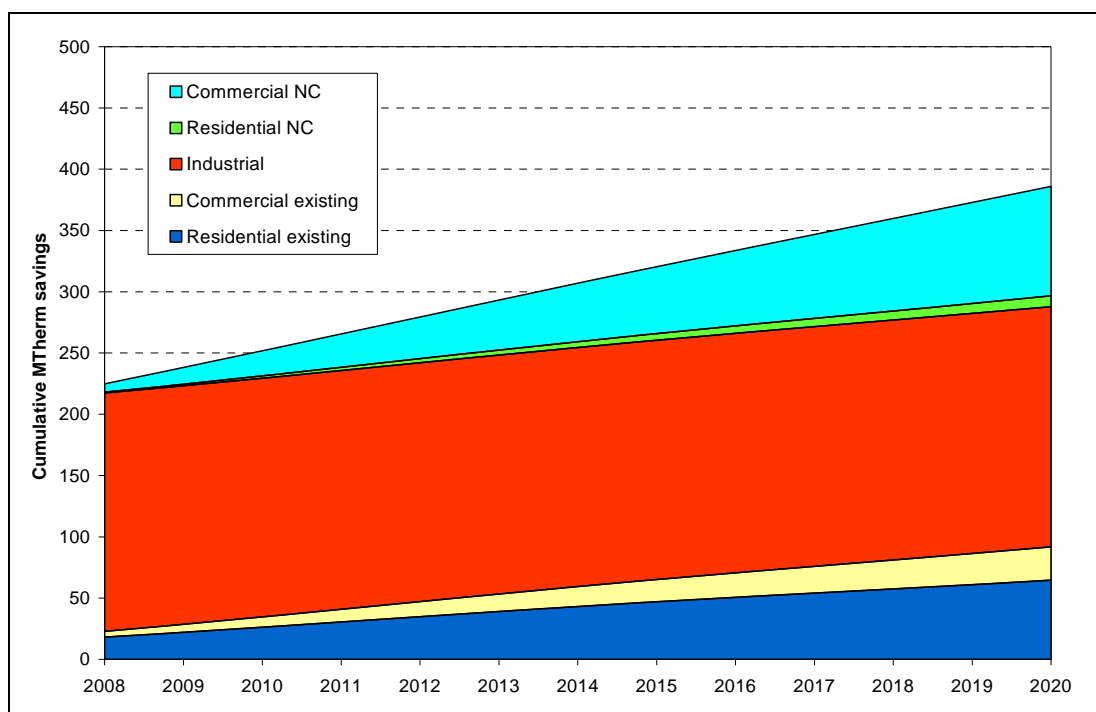


Table G2-4. Economic potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	32	29	26	5	4	4
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	44	35	28	5	4	3
Total	76	65	55	11	9	7

Table G2-5. Economic potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	3	2	2	36	30	24
Water Heating	15	14	10	72	60	48
Com Cooking	10	9	7	0	0	0
Miscellaneous	2	2	2	0	0	0
Total	30	27	21	108	89	71

Table G2-6. Economic potential in the industrial sector by end use (cumulative MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	146	127	108
HVAC	7	6	5
Proc Heat	72	63	54
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	225	196	167

Figure G2-4. Uncertainty estimate for total economic potential in SCG

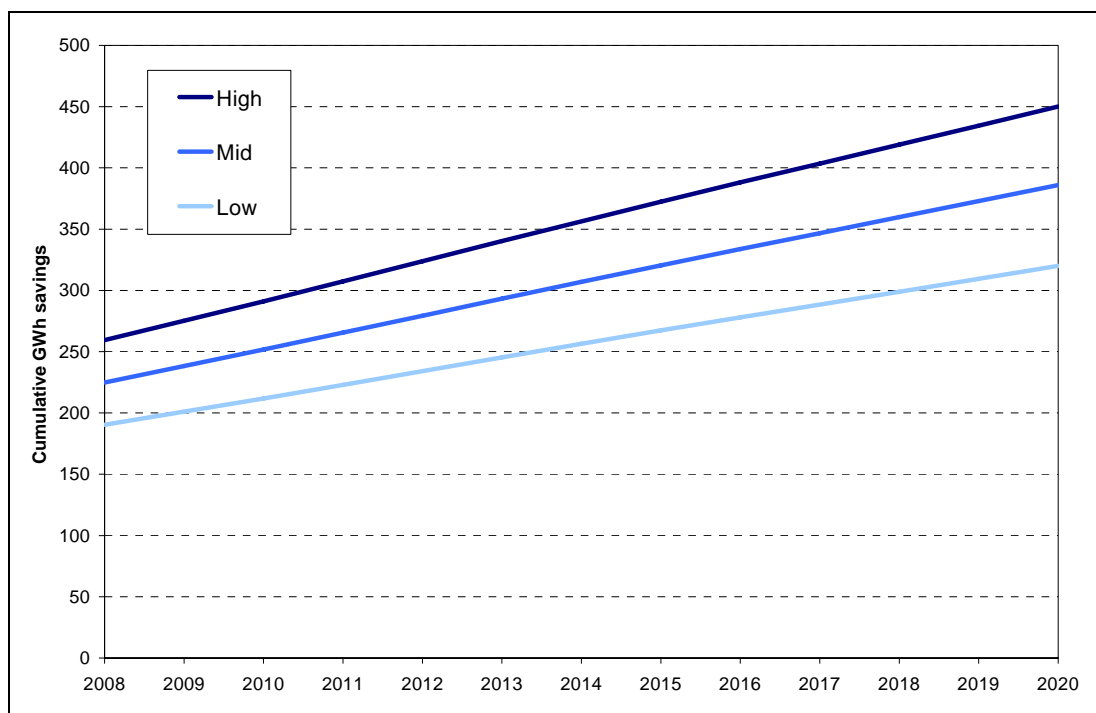


Figure G2-5. Base market potential by sector and vintage in SCG (gross savings)

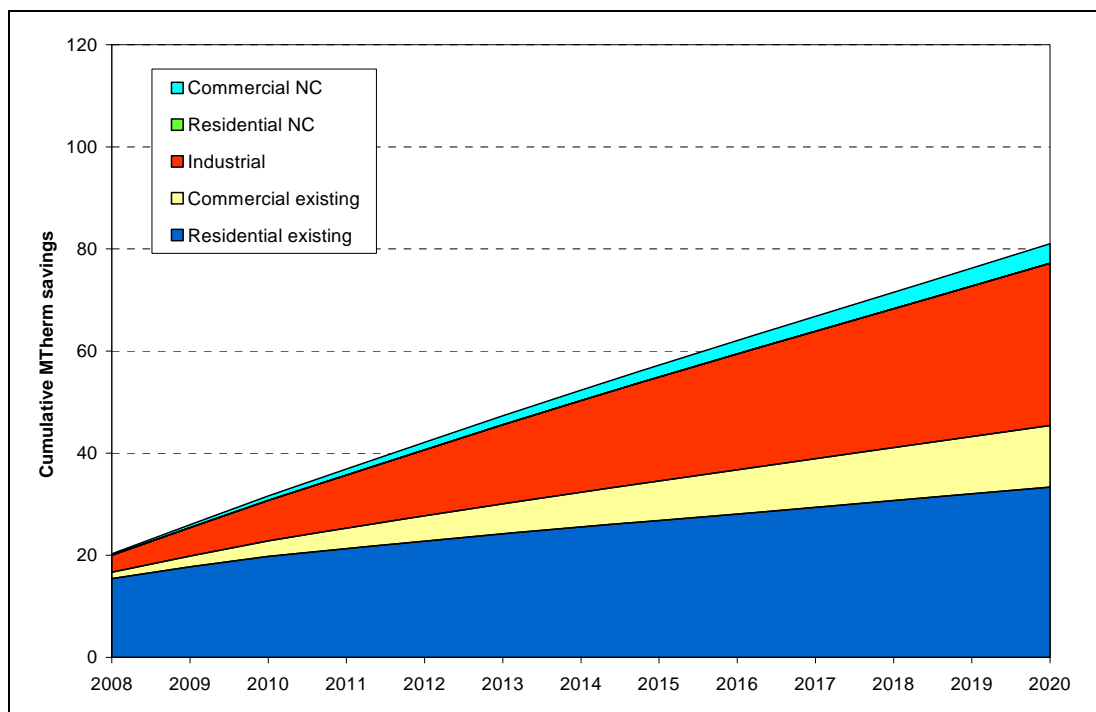


Table G2-7. Base market potential in the residential sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	19	16	12	0	0	0
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	22	18	13	0	0	0
Total	42	33	26	0	0	0

Table G2-8. Base market potential in the commercial sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	1	1	0	2	2	1
Water Heating	7	6	5	3	2	1
Com Cooking	6	5	4	0	0	0
Misc	1	1	0	0	0	0
Total	15	12	10	6	4	2

Table G2-9. Base market potential in the industrial sector by end use (cumulative gross MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	29	25	21
HVAC	1	0	0
Proc Heat	7	6	5
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	37	32	27

Figure G2-6. Uncertainty estimate for total base market potential in SCG (gross savings)

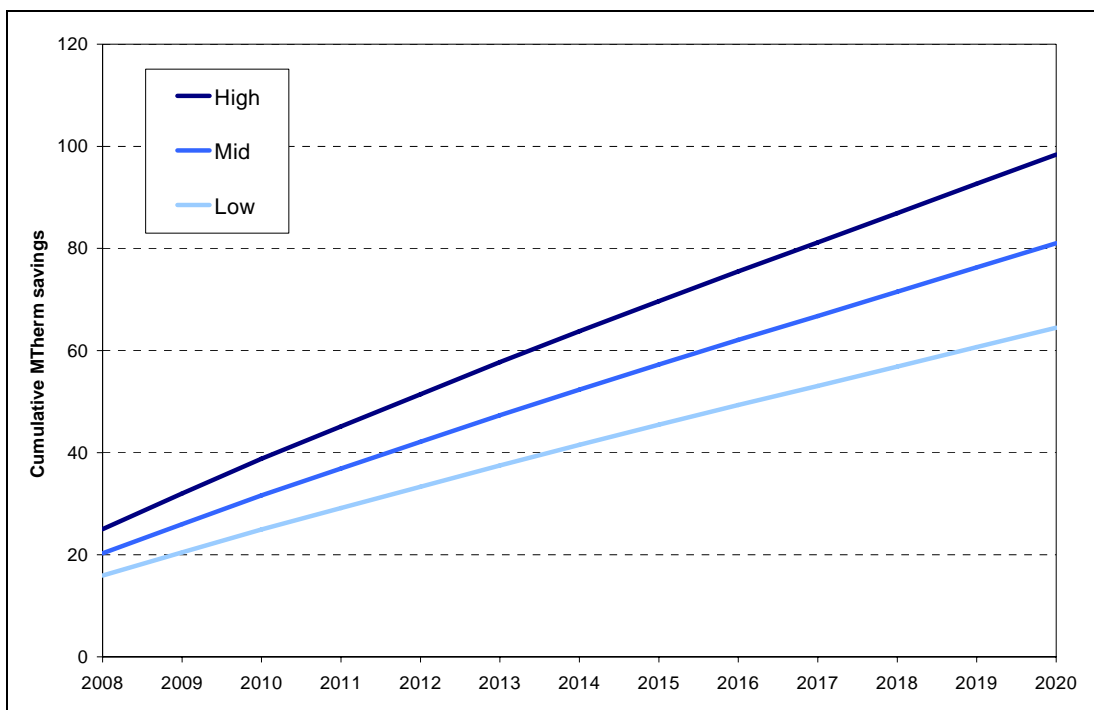


Figure G2-7. Full market potential by sector and vintage in SCG (gross savings)

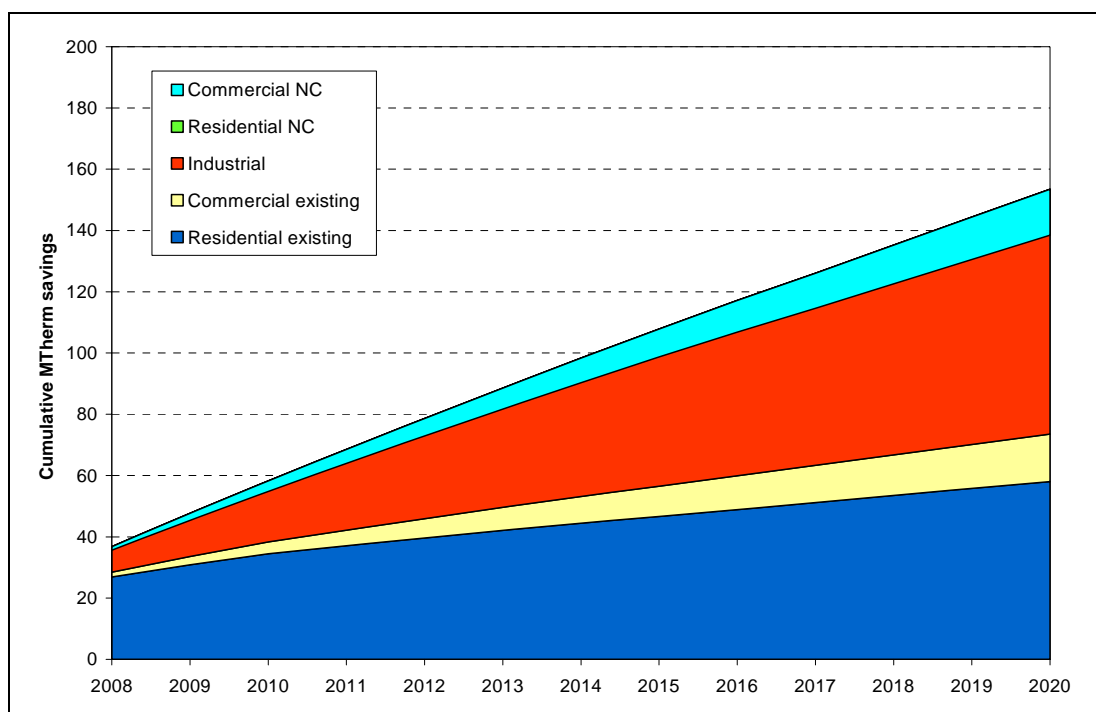


Table G2-10. Full market potential in the residential sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	31	26	20	0	0	0
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	40	32	24	0	0	0
Total	71	58	44	0	0	0

Table G2-11. Full market potential in the commercial sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	1	1	0	2	0	-3
Water Heating	9	7	6	-10	-15	-19
Com Cooking	8	7	6	0	0	0
Miscellaneous	1	1	0	0	0	0
Total	19	15	12	-8	-15	-22

Table G2-12. Full market potential in the industrial sector by end use (cumulative gross MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	55	47	40
HVAC	4	3	3
Proc Heat	33	29	25
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	92	80	68

Figure G2-8. Uncertainty estimate for total full market potential in SCG (gross savings)

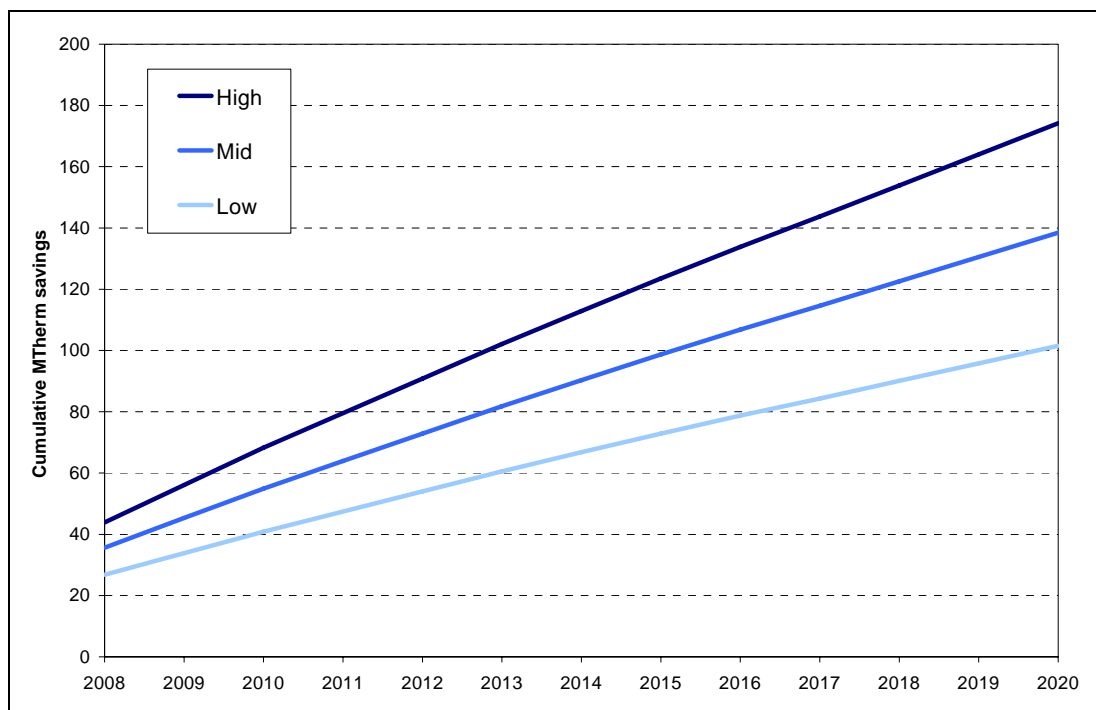
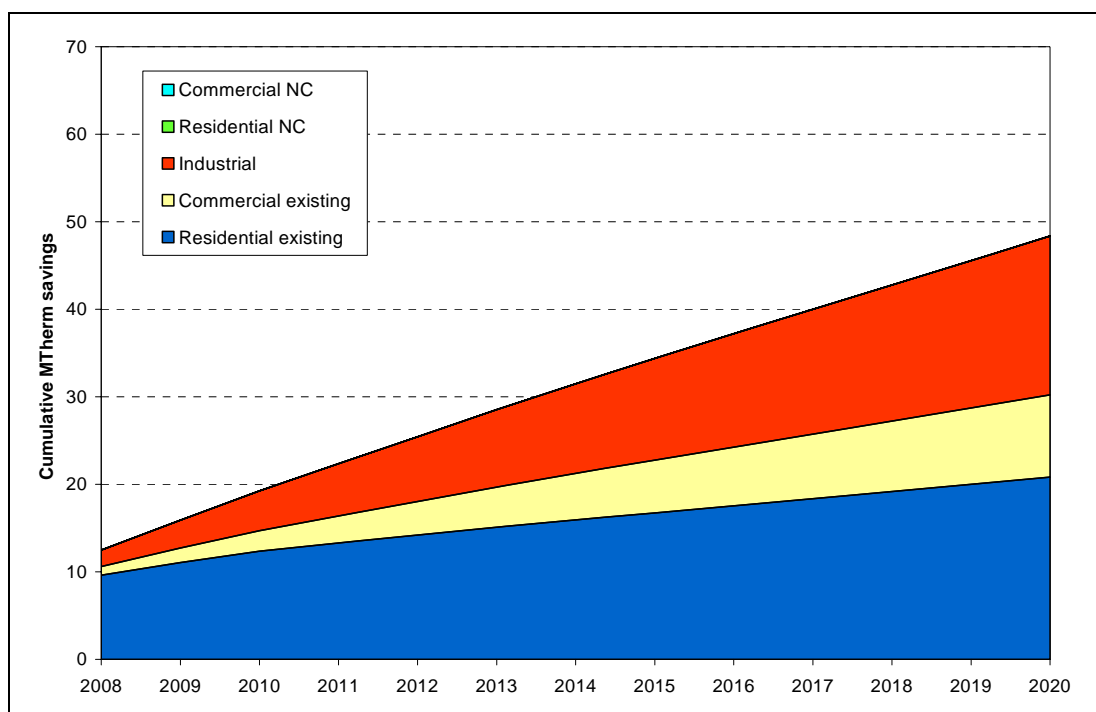


Figure G2-9. Naturally-occurring potential by sector and vintage in SCG**Table G2-13. Naturally-occurring potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	15	12	10	0	0	0
Clothes Dryer	0	0	0	0	0	0
Other	0	0	0	0	0	0
Cooking	0	0	0	0	0	0
Pool Heating	0	0	0	0	0	0
Spa	0	0	0	0	0	0
Space Heat	11	9	7	0	0	0
Total	26	21	17	0	0	0

Table G2-14. Naturally-occurring potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0	0	0	0	0	0
Space Heating	0	0	0	0	0	0
Water Heating	7	6	4	0	0	0
Com Cooking	4	3	2	0	0	0
Miscellaneous	1	1	0	0	0	0
Total	11	9	8	0	0	0

**Table G2-15. Naturally-occurring potential in the industrial sector by end use
(cumulative MTherm savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Boilers	18	16	13
HVAC	0	0	0
Proc Heat	3	2	2
Ind Feedstocks	0	0	0
Ind Other	0	0	0
Total	21	18	15

Figure G2-10. Uncertainty estimate for total naturally-occurring potential in SCG

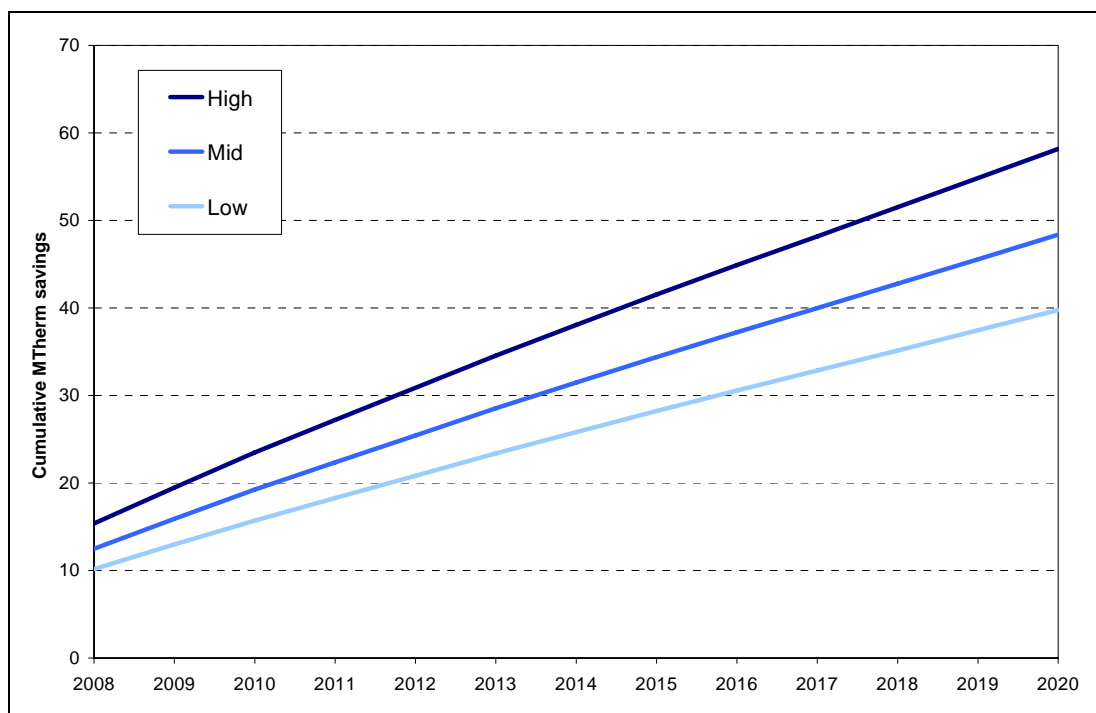


Figure G2-11. Estimated potential savings from BBEES initiatives in SCG (gross savings incremental to base market potential)

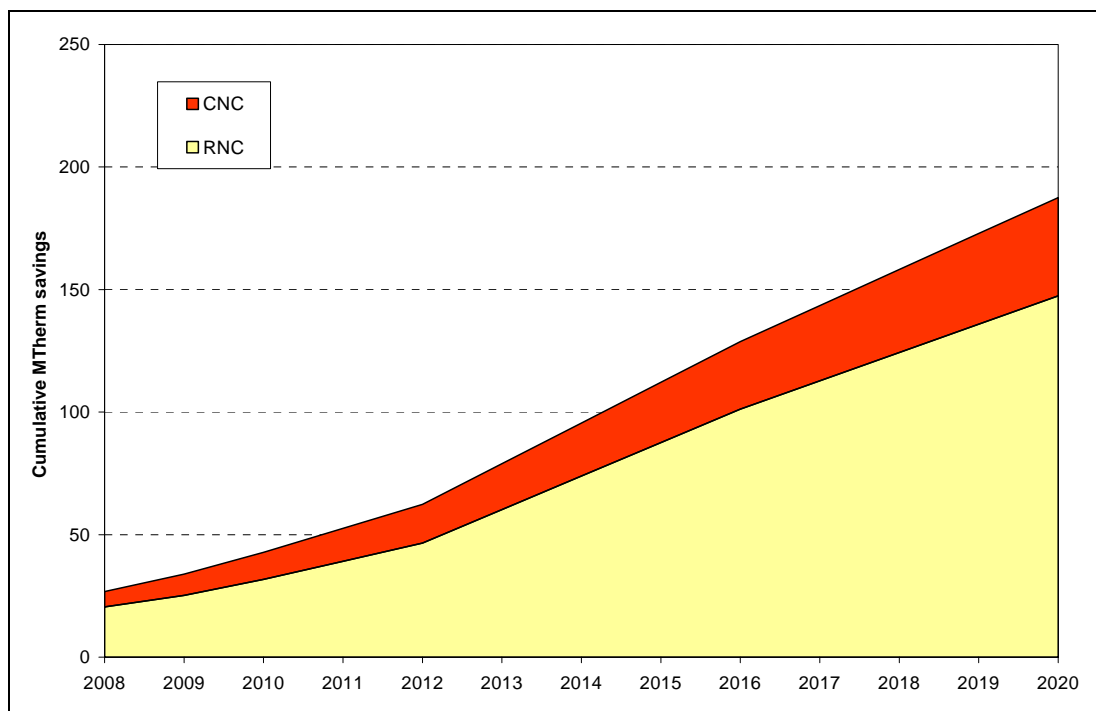


Figure G2-12. Uncertainty estimate for potential savings from all BB initiatives in SCG (gross savings incremental to base market potential)

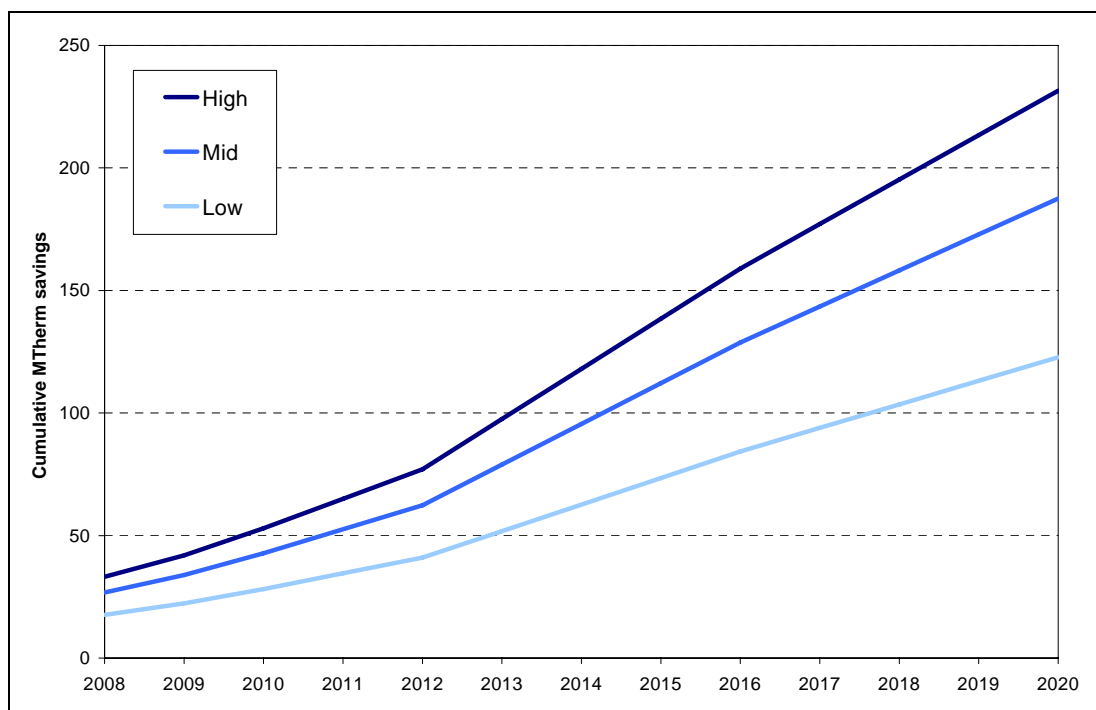


Figure G2-13. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction in SCG (gross savings)

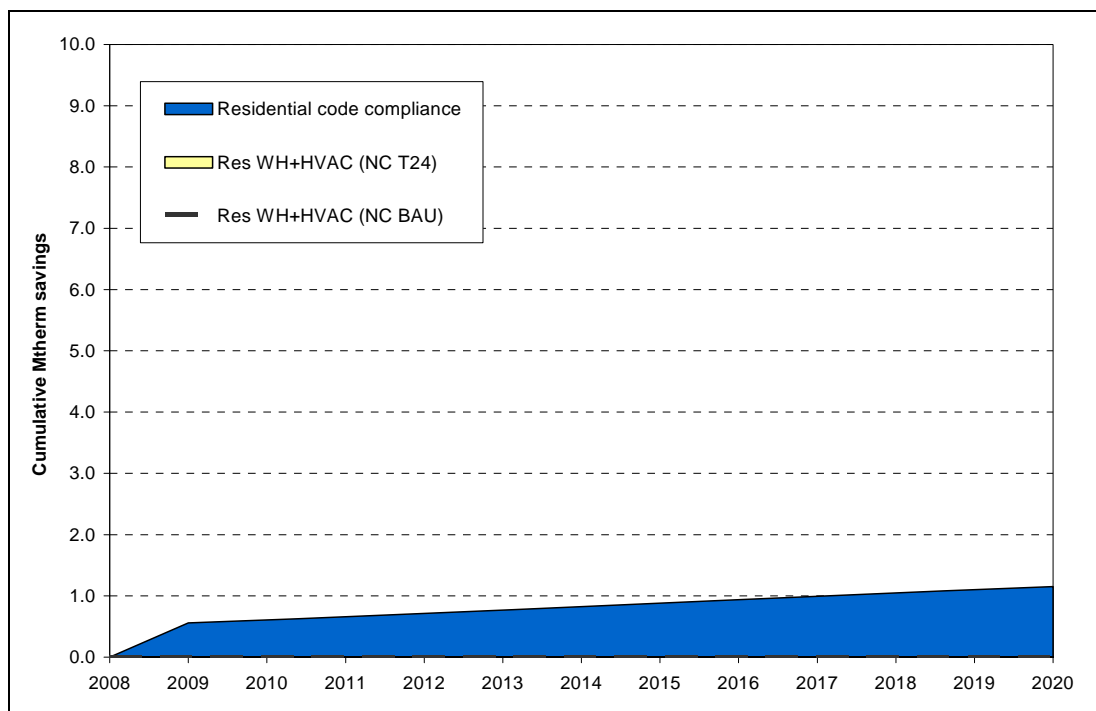


Figure G2-14. Total impact of future codes and standards on base market potential of IOU programs in SCG (gross savings)

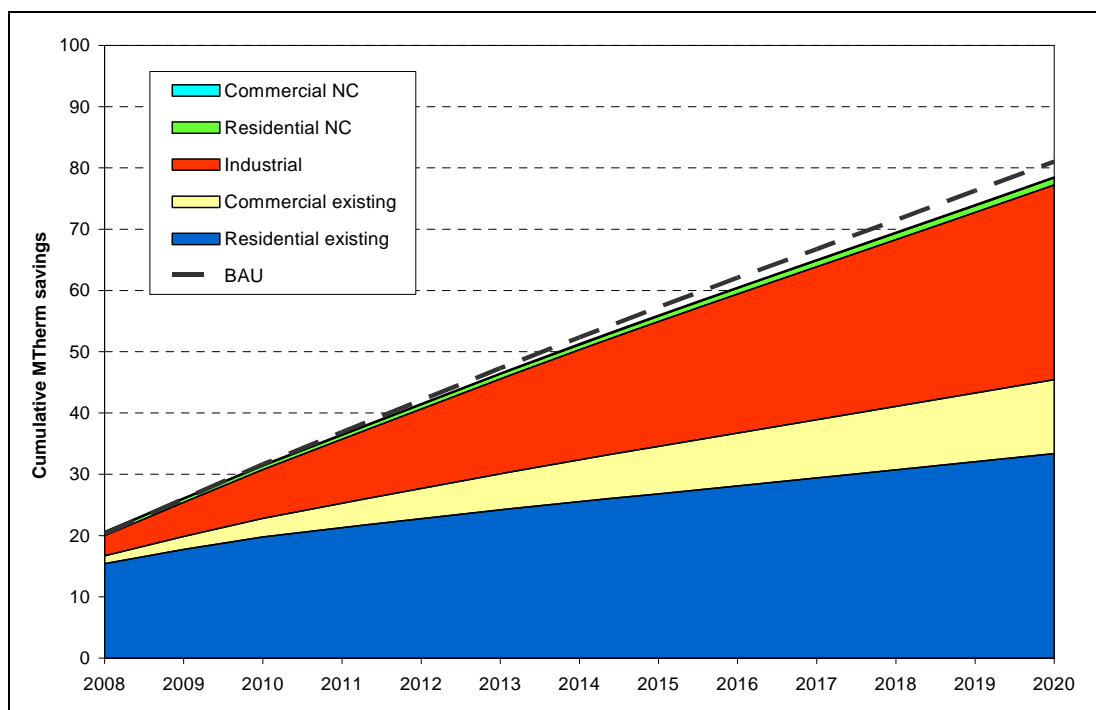


Figure G2-15. Uncertainty estimate of total base market potential of IOU programs after accounting for impacts of future codes and standards in SCG (gross savings)

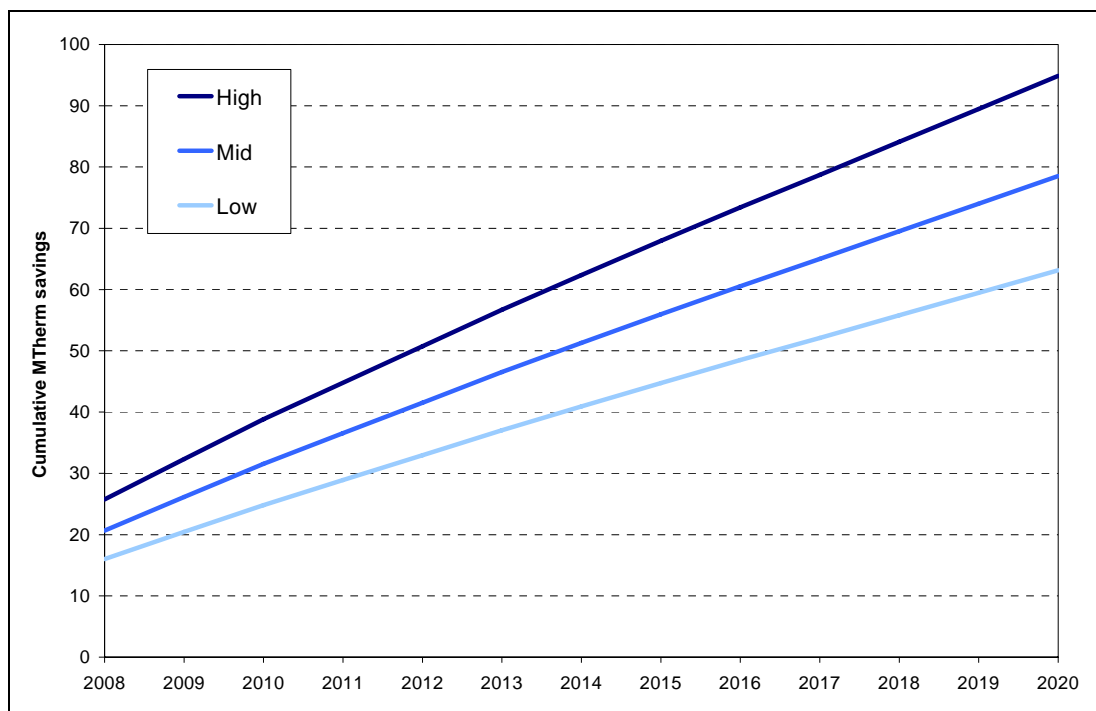


Figure G2-16. Estimated potential savings from implementation of the revisions to Title 24 in SCG (gross savings incremental to C&S-adjusted base market potential)

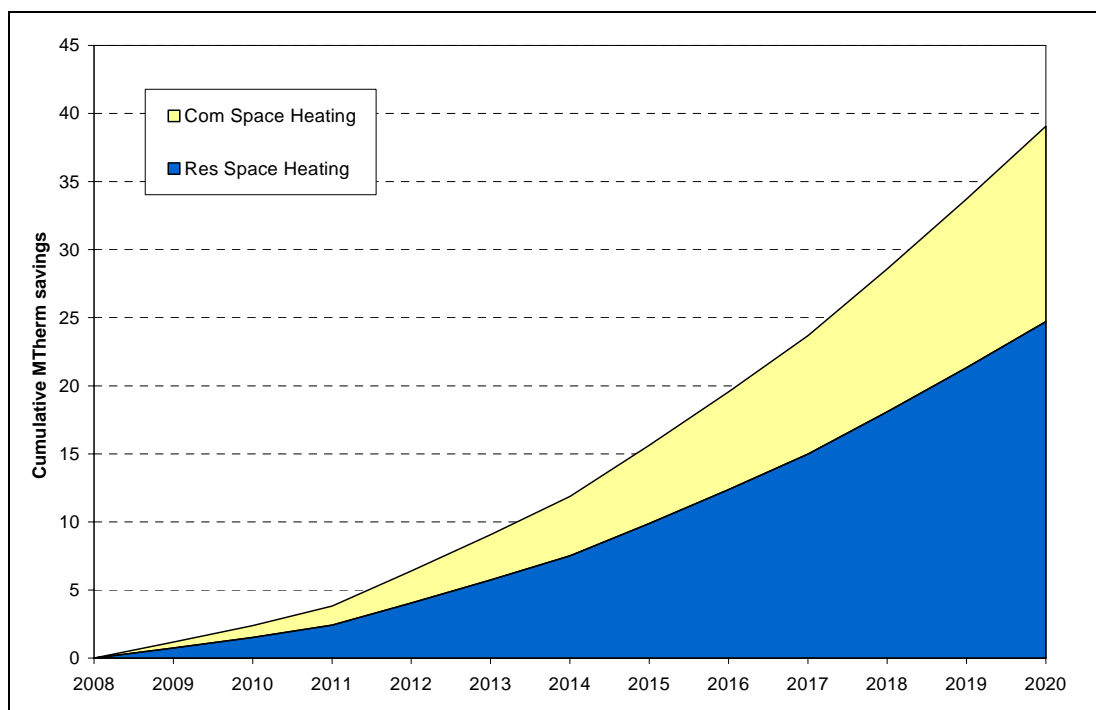


Figure G2-17. Estimated potential savings from implementation of the revised federal appliance standards in SCG (gross savings incremental to C&S-adjusted base market potential)

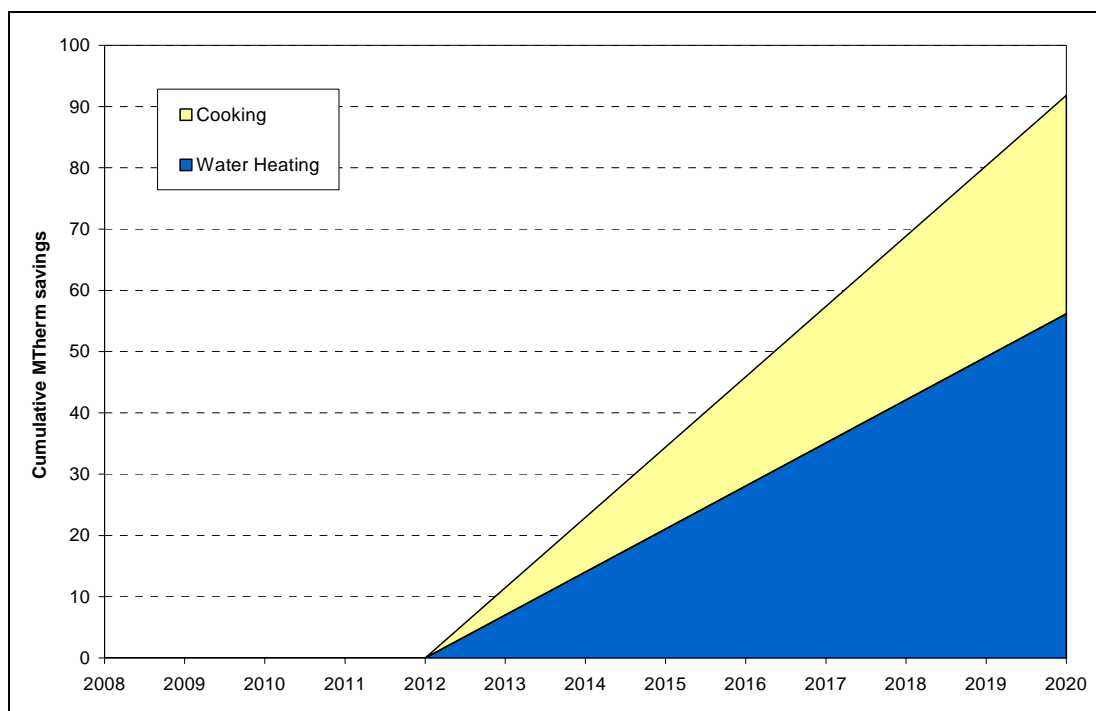


Figure G2-18. Estimated potential savings from future codes and standards in SCG (gross savings incremental to C&S-adjusted base market potential)

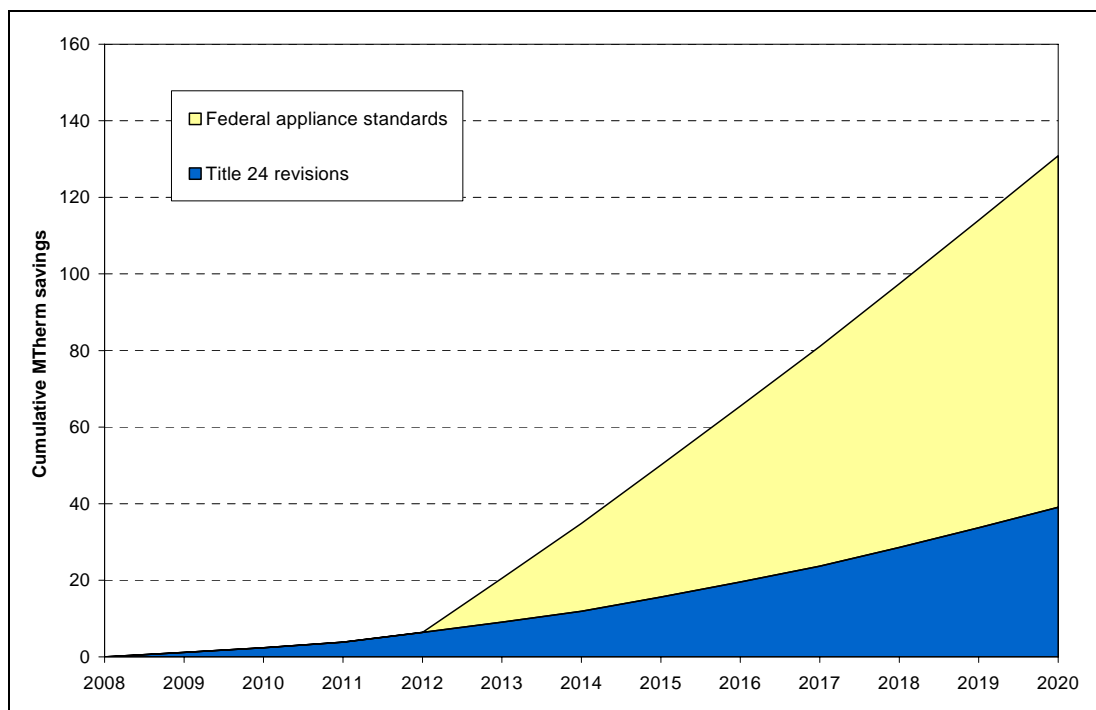


Figure G2-19. Uncertainty estimate of total potential savings from future codes and standards in SCG (gross savings incremental to C&S-adjusted base market potential)

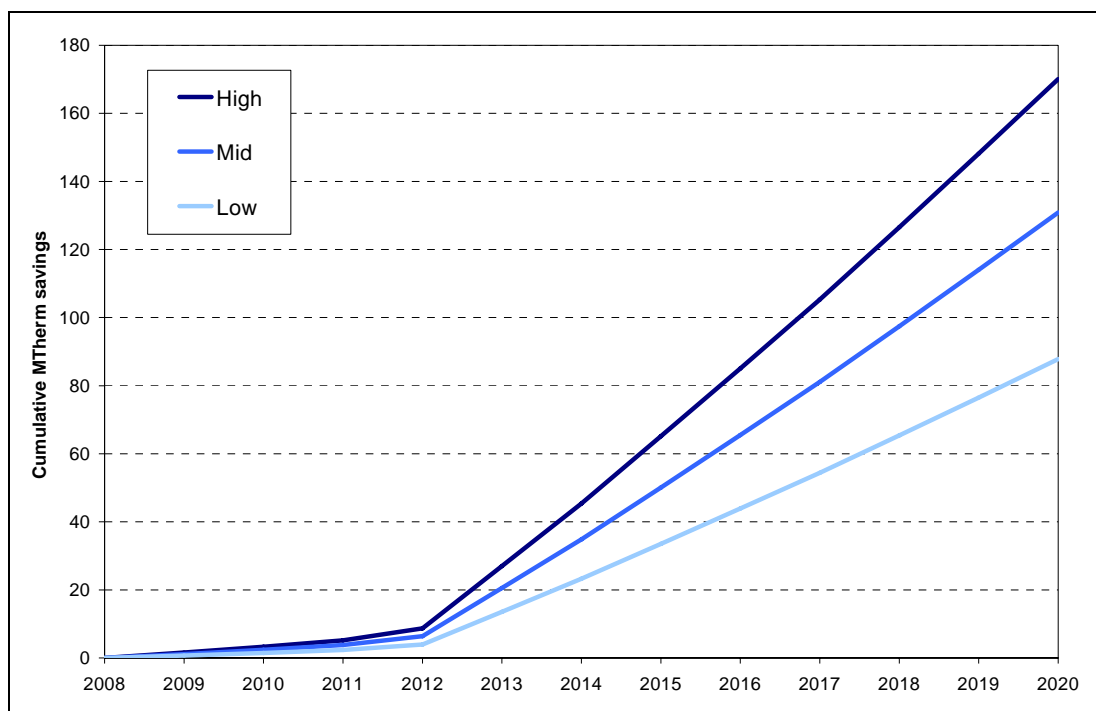


Figure G2-20. Estimated potential savings from all scenarios in SCG (gross savings assuming base-funding for IOU programs)

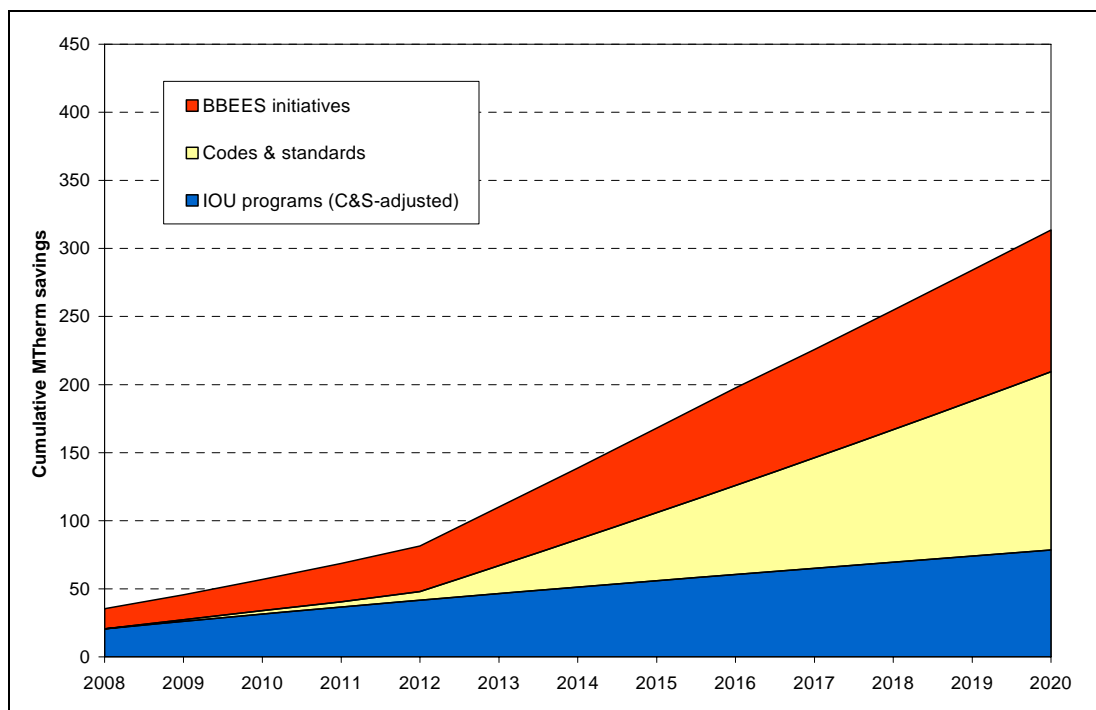


Figure G2-21. Estimated potential savings from all scenarios in SCG (gross savings assuming full-funding for IOU programs)

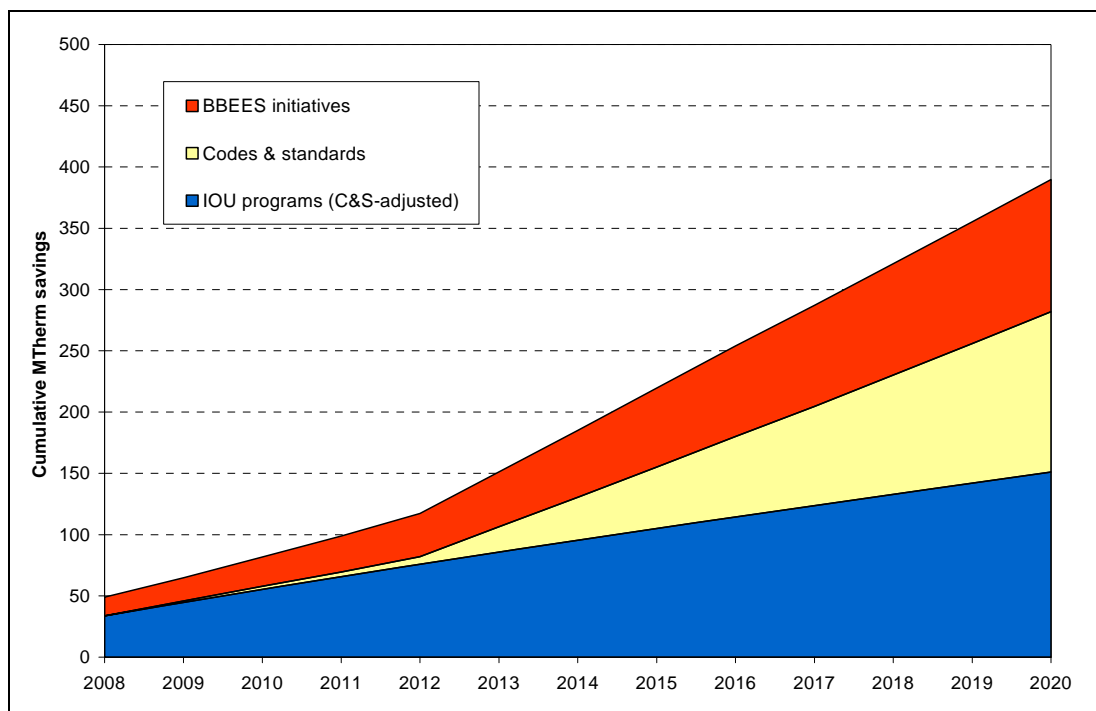


Table G2-16. Summary of estimated savings potential for each scenario in SCG (cumulative gross MTherm savings in 2020)

Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	RNC	111	95	58	111	95	58
	CNC	6	10	14	10	13	17
	Total	117	104	72	121	108	76
Title 24 revisions	RNC	32	25	7	32	25	7
	CNC	21	14	29	21	14	29
	Total	53	39	37	53	39	37
Federal standards	Water Heaters	81	56	29	81	56	29
	Ranges/Ovens	36	36	34	36	36	34
	Total	117	92	64	117	92	64
IOU code compliance (res)	Total	2	1	0	2	1	0
IOU programs (C&S-adjusted)	Res existing	42	33	26	71	58	44
	Com existing	15	12	10	19	15	12
	Industrial	37	32	27	92	80	68
	RNC	2	1	1	2	1	1
	CNC	0	0	0	-3	-4	-5
	Total	95	79	63	181	151	120
TOTAL GROSS SAVINGS POTENTIAL		384	315	236	474	391	296
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		58	48	40	58	48	40

Figure G2-22. Uncertainty estimate of total potential savings from all scenarios in SCG (gross savings assuming base-funding for IOU programs)

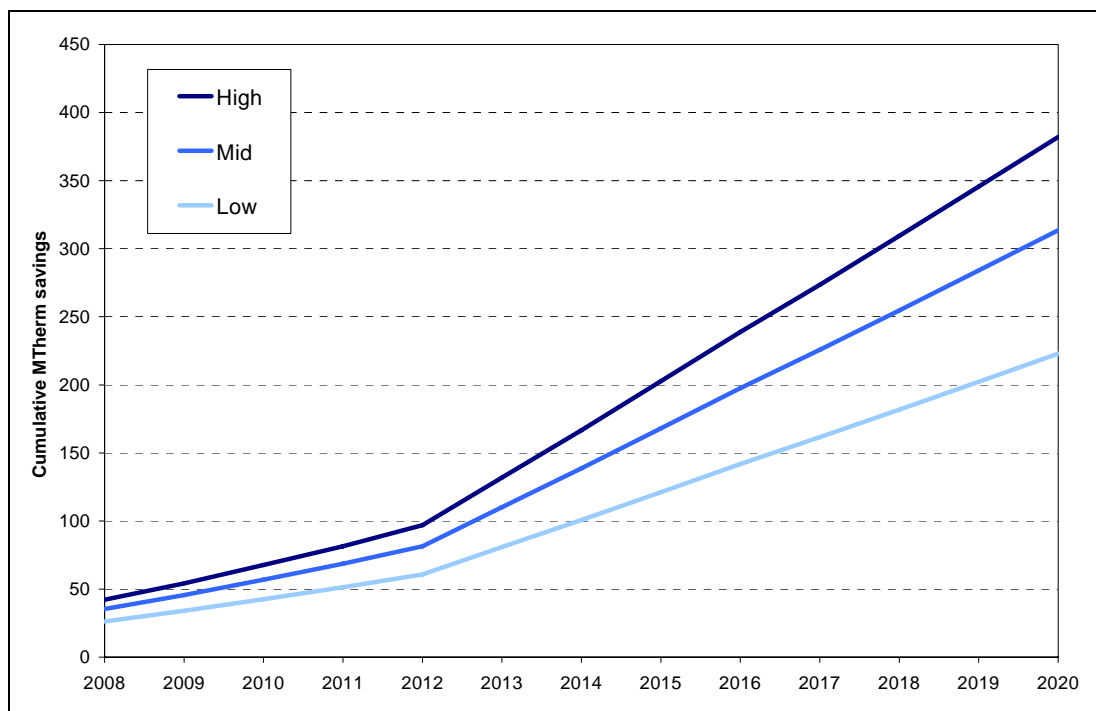


Figure G2-23. Uncertainty estimate of total potential savings from all scenarios in SCG (gross savings assuming full-funding for IOU programs)

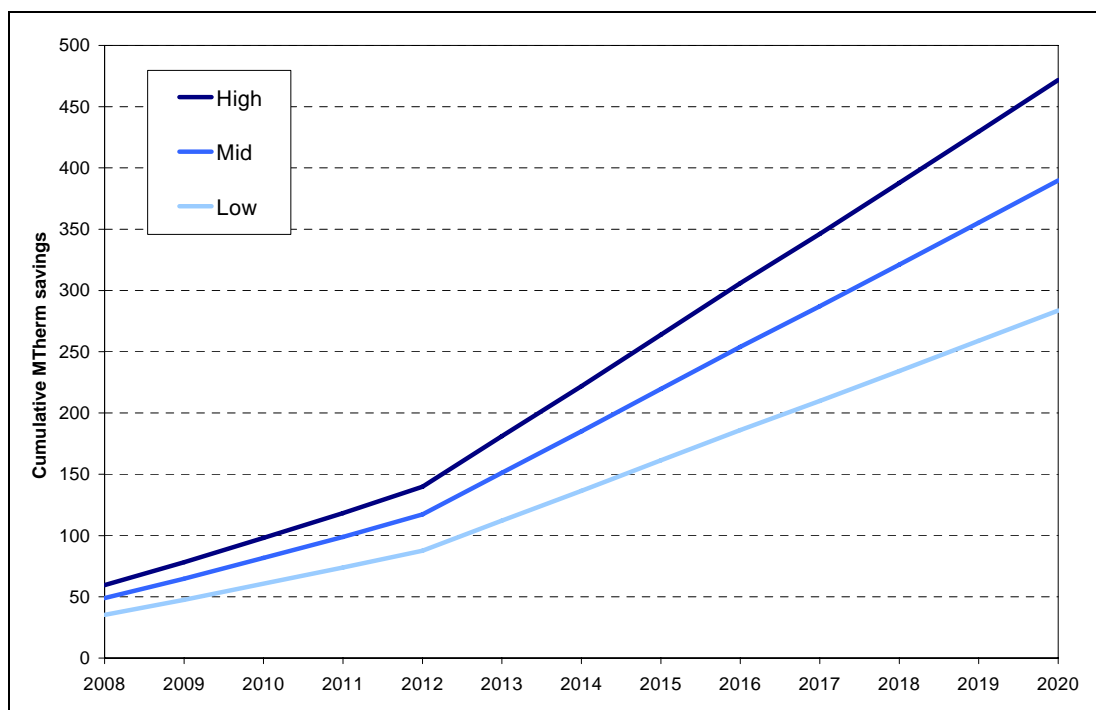


Figure G2-24. Cumulative gas savings from High, Mid and Low Cases in SCG compared to current goals through 2013

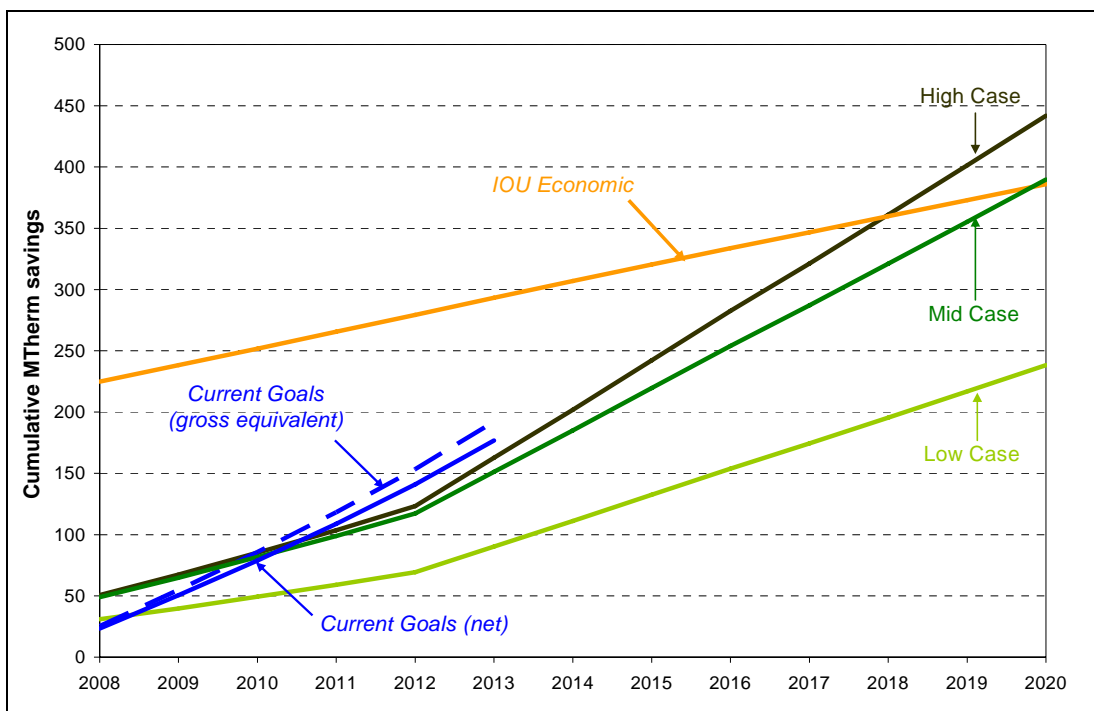


Figure G2-25. Composition of gas savings across mechanisms in the Low Case in SCG

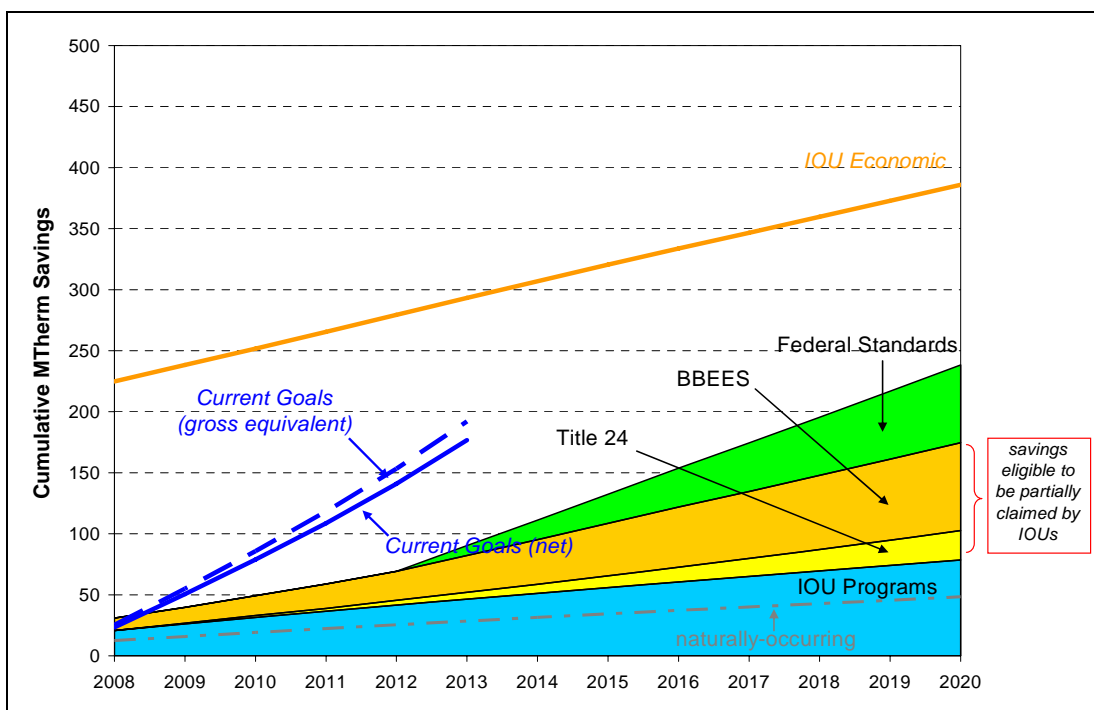


Figure G2-26. Composition of gas savings across mechanisms in the Mid Case in SCG

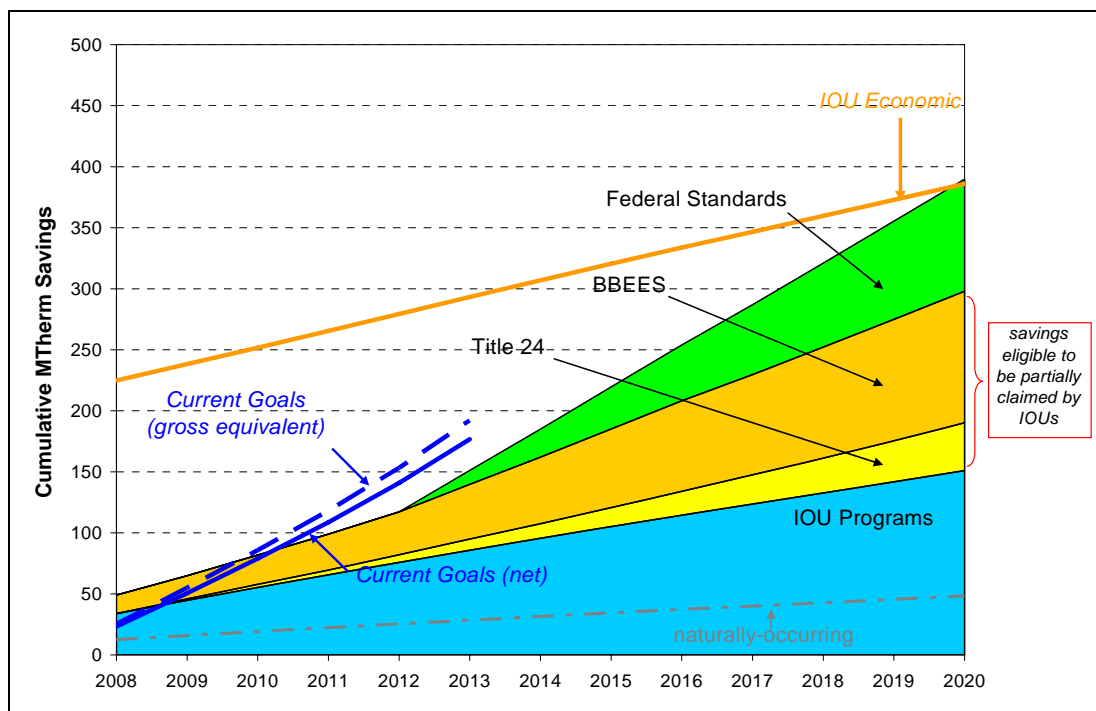


Figure G2-27. Composition of gas savings across mechanisms in the High Case in SCG

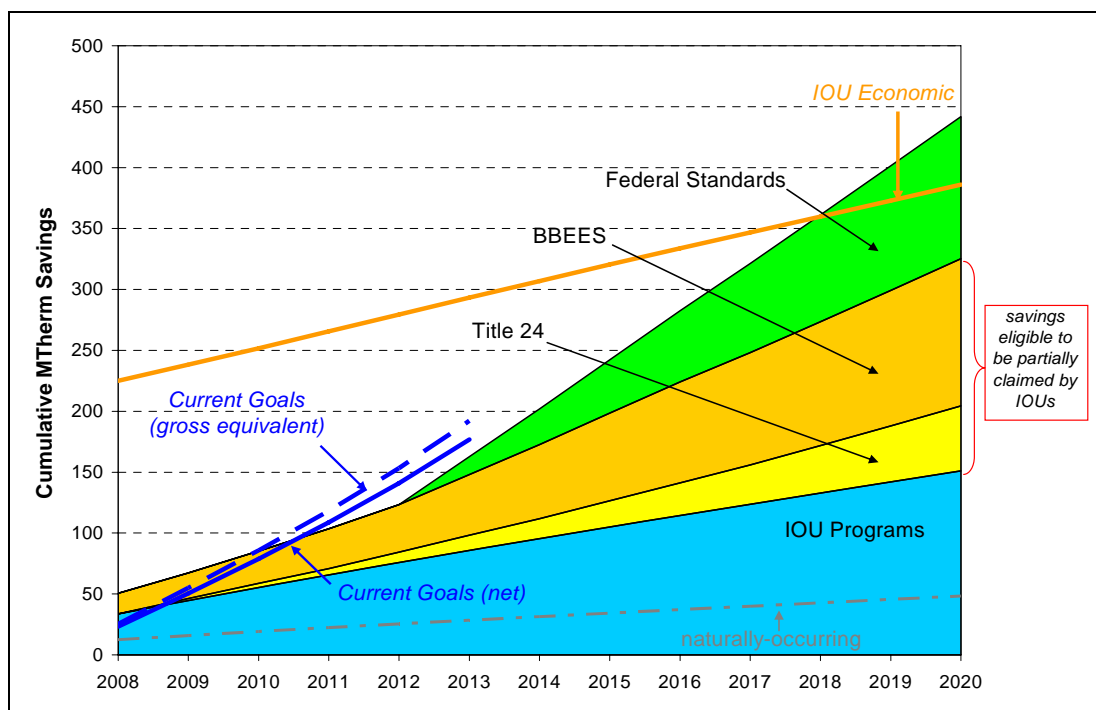


Table G2-17. Estimated gas savings in the High, Mid, and Low straw man cases in SCG (cumulative MTherm savings in 2020)

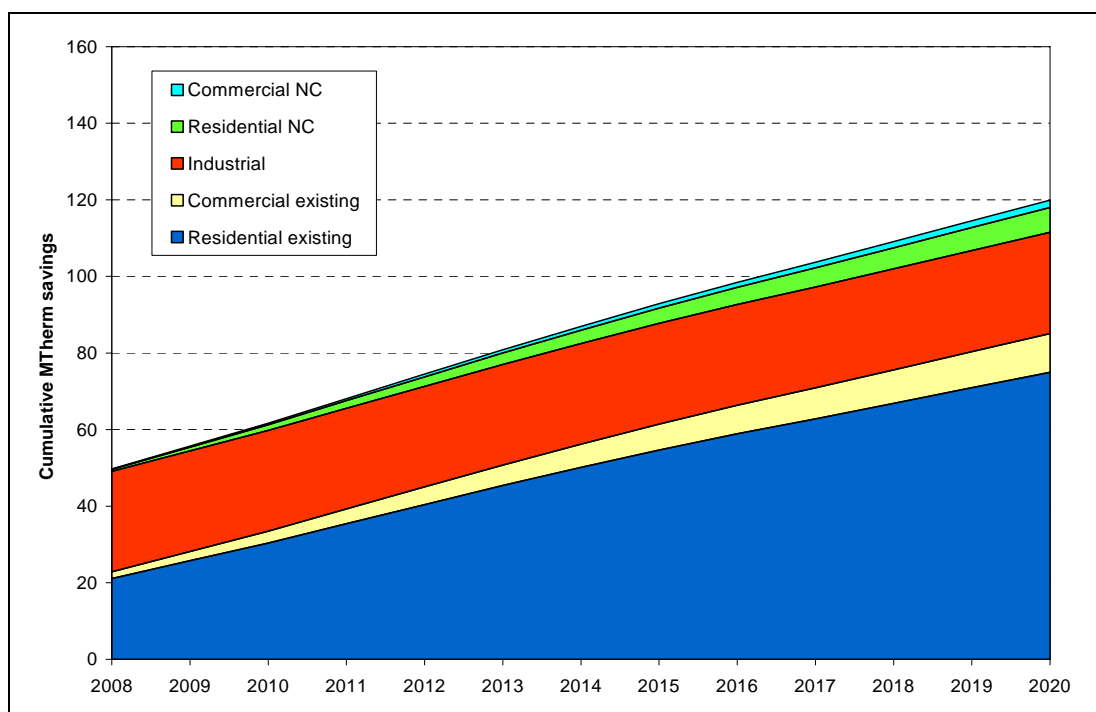
Savings mechanism:	Low Case	Mid Case	High Case
Utility programs (gross)	79	151	151
Title 24	24	39	53
Federal appliance standards	64	92	117
BBEES initiatives	72	108	121
Total	238	390	442

Table G2-18. Cumulative MTherm savings by saving mechanism in the High, Mid, and Low straw man cases in SCG over time

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Title 24	0	1	1	2	4	6	7	10	12	15	18	21	24
	Federal Standards	0	0	0	0	0	8	16	24	32	40	48	56	64
	BBEES	10	13	16	20	24	30	37	43	49	55	61	66	72
	IOU Programs	21	26	32	37	42	47	51	56	61	65	70	74	79
Mid	Title 24	0	1	2	4	6	9	12	16	20	24	29	34	39
	Federal Standards	0	0	0	0	0	11	23	34	46	57	69	80	92
	BBEES	15	19	24	30	35	45	55	64	74	82	91	99	108
	IOU Programs	34	45	55	66	76	86	96	105	115	124	133	142	151
High	Title 24	0	2	3	5	9	12	16	21	27	32	39	46	53
	Federal Standards	0	0	0	0	0	15	29	44	58	73	88	102	117
	BBEES	17	21	27	33	39	50	61	72	83	92	102	111	121
	IOU Programs	34	45	55	66	76	86	96	105	115	124	133	142	151
<i>Benchmarks</i>	<i>Economic</i>	225	238	252	266	279	293	307	321	334	347	360	373	386
	<i>Current IOU Goals (gross equivalent)</i>	25	55	86	118	153	192							
	<i>Current IOU Goals (net)</i>	23	51	79	109	141	177							

Appendix G3

Gas Savings Results for SDG&E

Figure G3-1. Technical potential by sector and vintage in SDG&E**Table G3-1. Technical potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	65.1	52.0	46.8	4.6	3.8	3.1
Clothes Dryer	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0
Cooking	0.0	0.0	0.0	0.0	0.0	0.0
Pool Heating	0.0	0.0	0.0	0.0	0.0	0.0
Spa	0.0	0.0	0.0	0.0	0.0	0.0
Space Heating	28.6	23.0	18.4	3.2	2.7	2.1
Total	93.6	75.0	65.2	7.8	6.5	5.2

Table G3-2. Technical potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0.0	0.0	0.0	0.0	0.0	0.0
Space Heating	1.1	0.8	0.7	1.3	1.1	0.9
Water Heating	4.7	4.1	3.1	0.9	0.8	0.6
Com Cooking	5.6	4.9	3.9	0.0	0.0	0.0
Miscellaneous	0.3	0.3	0.2	0.0	0.0	0.0
Total	11.7	10.1	7.9	2.3	1.9	1.5

Table G3-3. Technical potential in the industrial sector by end use (cumulative MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	19.8	17.3	14.7
HVAC	4.0	3.5	2.9
Process Heat	6.6	5.7	4.9
Ind Feedstocks	0.0	0.0	0.0
Ind Other	0.0	0.0	0.0
Total	30.4	26.4	22.5

Figure G3-2. Uncertainty estimate for total technical potential in SDG&E

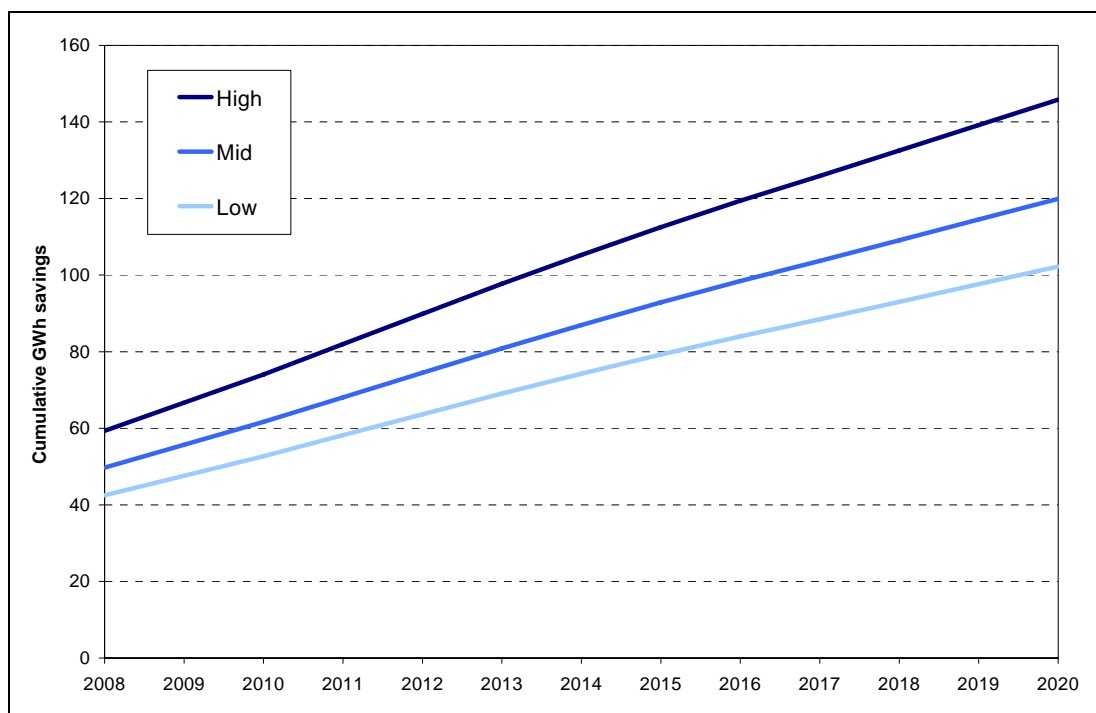
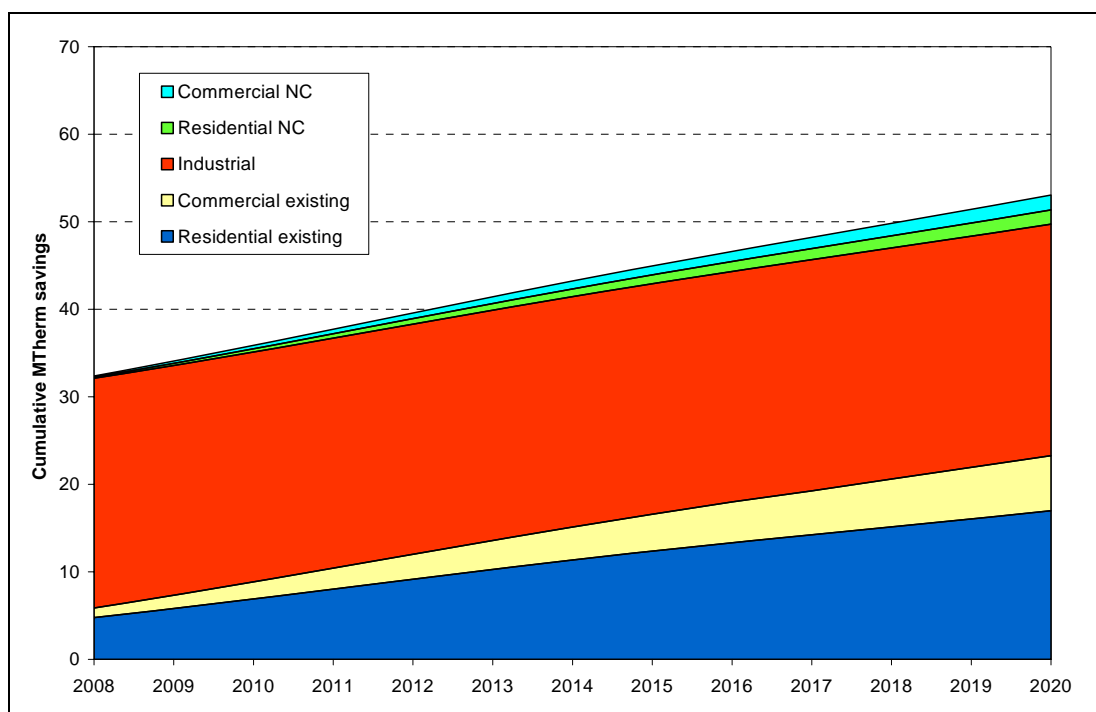


Figure G3-3. Economic potential by sector and vintage in SDG&E**Table G3-4. Economic potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	11.3	10.2	9.2	1.2	1.0	0.8
Clothes Dryer	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0
Cooking	0.0	0.0	0.0	0.0	0.0	0.0
Pool Heating	0.0	0.0	0.0	0.0	0.0	0.0
Spa	0.0	0.0	0.0	0.0	0.0	0.0
Space Heat	8.4	6.7	5.4	0.8	0.7	0.5
Total	19.7	17.0	14.6	2.0	1.6	1.3

Table G3-5. Economic potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0.0	0.0	0.0	0.0	0.0	0.0
Space Heating	0.5	0.4	0.4	1.2	1.0	0.8
Water Heating	3.4	3.1	2.3	0.8	0.7	0.5
Com Cooking	2.7	2.5	1.9	0.0	0.0	0.0
Miscellaneous	0.3	0.3	0.2	0.0	0.0	0.0
Total	7.0	6.3	4.8	2.0	1.7	1.3

Table G3-6. Economic potential in the industrial sector by end use (cumulative MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	19.8	17.3	14.7
HVAC	4.0	3.5	2.9
Proc Heat	6.6	5.7	4.9
Ind Feedstocks	0.0	0.0	0.0
Ind Other	0.0	0.0	0.0
Total	30.4	26.4	22.5

Figure G3-4. Uncertainty estimate for total economic potential in SDG&E

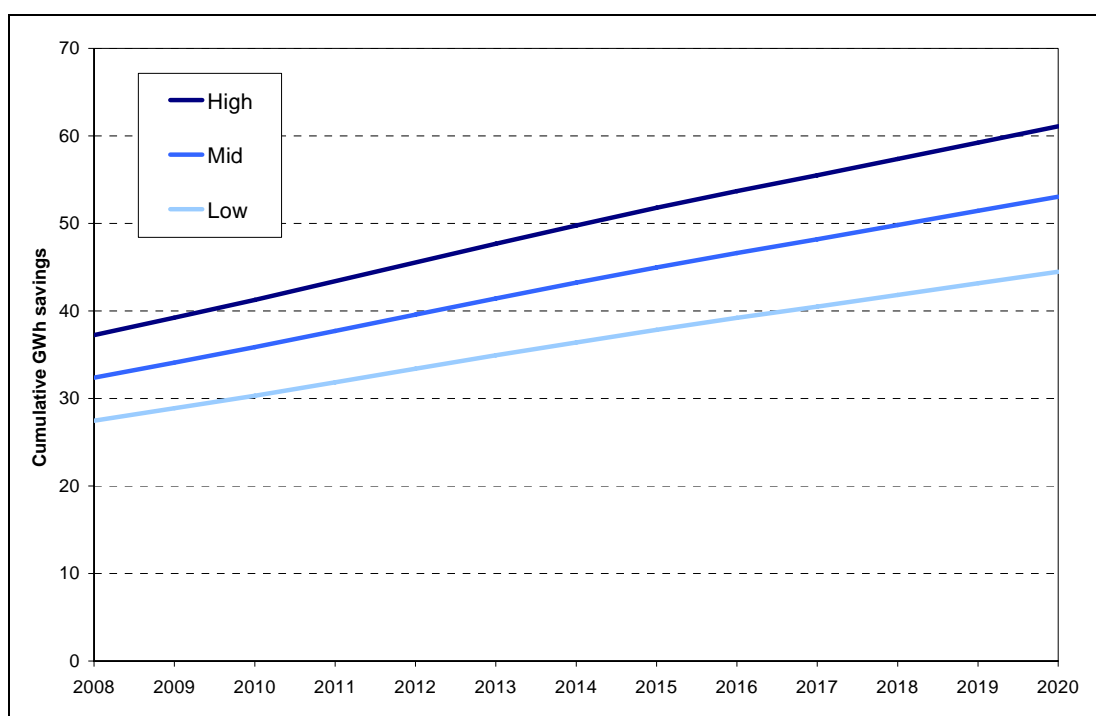
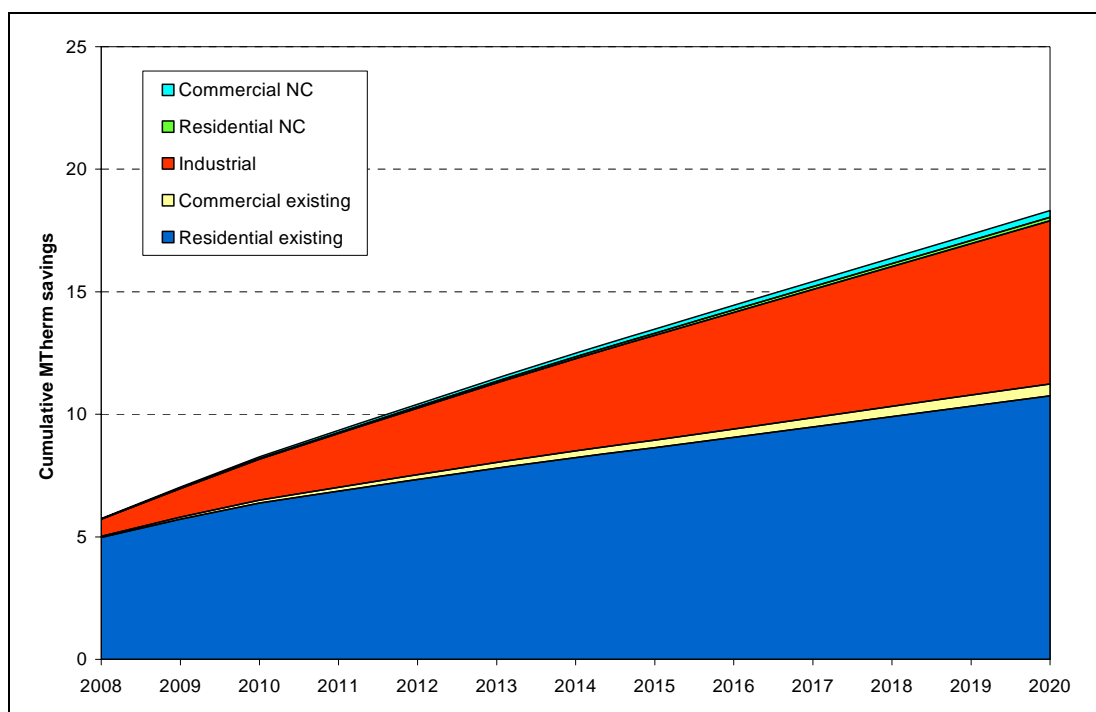


Figure G3-5. Base market potential by sector and vintage in SDG&E (gross savings)**Table G3-7. Base market potential in the residential sector by end use and vintage (cumulative gross MTherm savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	7.4	5.9	4.7	0.2	0.1	0.1
Clothes Dryer	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0
Cooking	0.0	0.0	0.0	0.0	0.0	0.0
Pool Heating	0.0	0.0	0.0	0.0	0.0	0.0
Spa	0.0	0.0	0.0	0.0	0.0	0.0
Space Heat	6.1	4.9	3.7	0.0	0.0	0.0
Total	13.4	10.8	8.4	0.2	0.1	0.1

Table G3-8. Base market potential in the commercial sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0.0	0.0	0.0	0.0	0.0	0.0
Space Heating	0.2	0.2	0.1	0.2	0.2	0.1
Water Heating	0.3	0.3	0.2	0.1	0.1	0.1
Com Cooking	0.0	0.0	0.0	0.0	0.0	0.0
Misc	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.6	0.5	0.4	0.3	0.3	0.2

Table G3-9. Base market potential in the industrial sector by end use (cumulative gross MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	5.9	5.1	4.3
HVAC	0.7	0.6	0.5
Proc Heat	1.1	0.9	0.8
Ind Feedstocks	0.0	0.0	0.0
Ind Other	0.0	0.0	0.0
Total	7.7	6.7	5.7

Figure G3-6. Uncertainty estimate for total base market potential in SDG&E (gross savings)

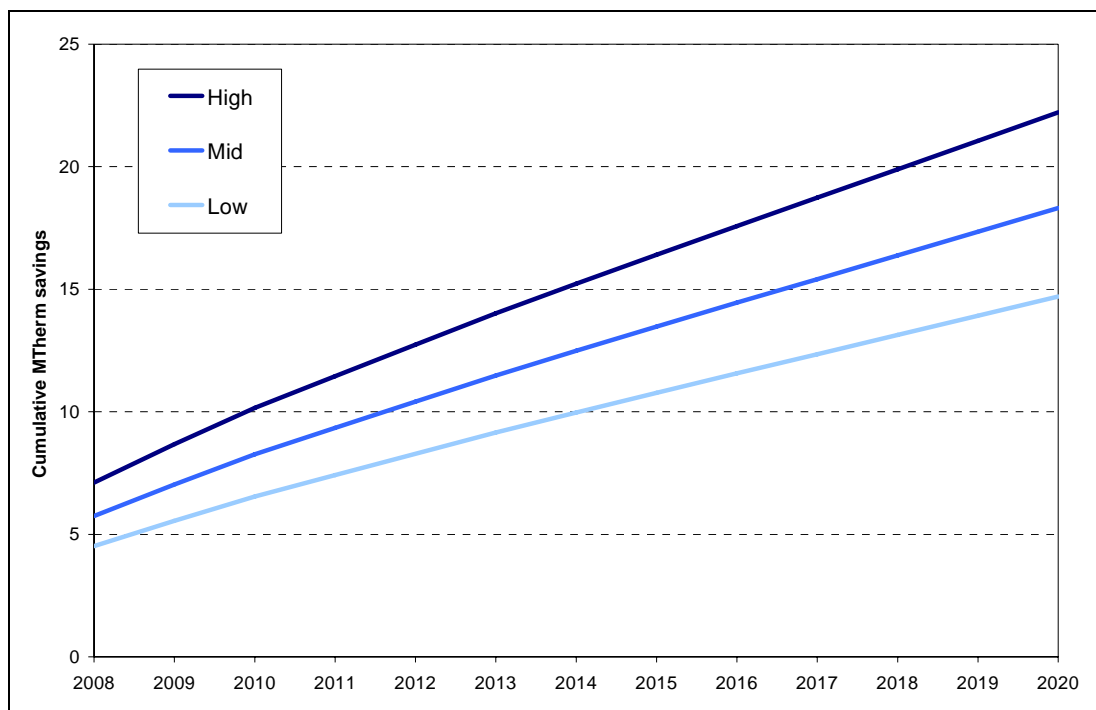


Figure G3-7. Full market potential by sector and vintage in SDG&E (gross savings)

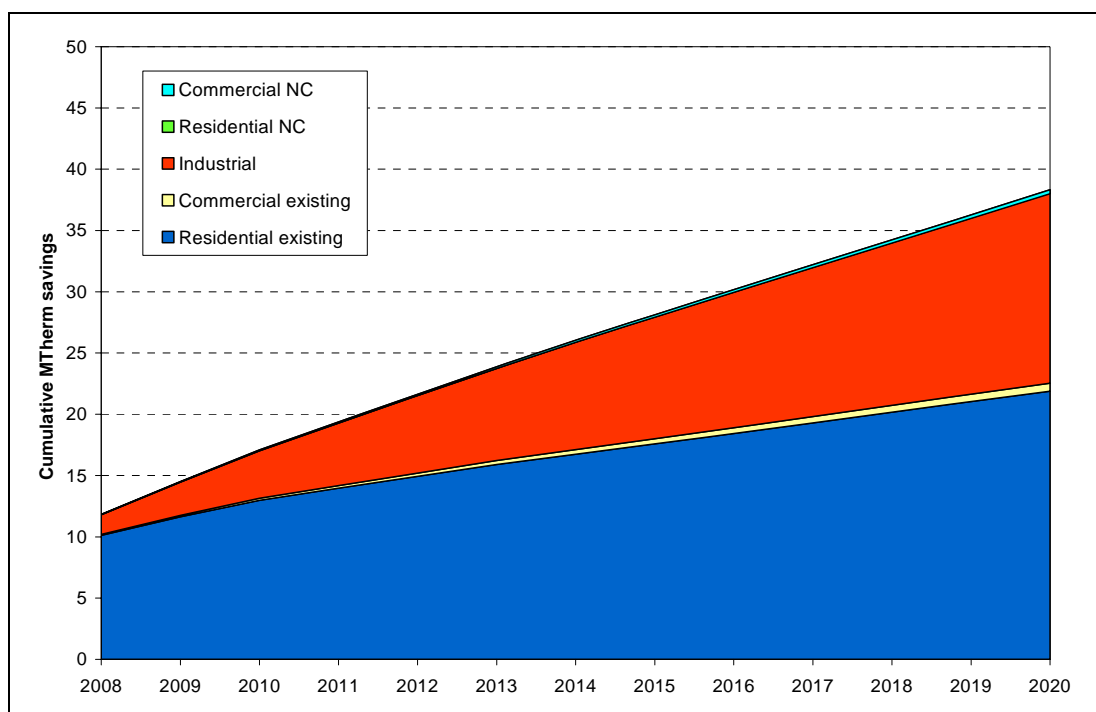


Table G3-10. Full market potential in the residential sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	18.0	15.0	11.2	0.3	0.2	0.2
Clothes Dryer	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0
Cooking	0.0	0.0	0.0	0.0	0.0	0.0
Pool Heating	0.0	0.0	0.0	0.0	0.0	0.0
Spa	0.0	0.0	0.0	0.0	0.0	0.0
Space Heat	8.7	6.9	5.2	0.1	0.1	0.0
Total	26.6	21.9	16.4	0.4	0.3	0.2

Table G3-11. Full market potential in the commercial sector by end use and vintage (cumulative gross MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0.0	0.0	0.0	0.0	0.0	0.0
Space Heating	0.3	0.2	0.2	0.0	-0.1	-0.2
Water Heating	0.5	0.4	0.3	-0.1	-0.2	-0.3
Com Cooking	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.8	0.7	0.5	-0.2	-0.3	-0.5

Table G3-12. Full market potential in the industrial sector by end use (cumulative gross MTherm savings in 2020)

End Use	All vintages		
	High	Mid	Low
Boilers	10.4	9.0	7.7
HVAC	2.9	2.6	2.2
Proc Heat	4.5	3.9	3.3
Ind Feedstocks	0.0	0.0	0.0
Ind Other	0.0	0.0	0.0
Total	17.8	15.5	13.2

Figure G3-8. Uncertainty estimate for total full market potential in SDG&E (gross savings)

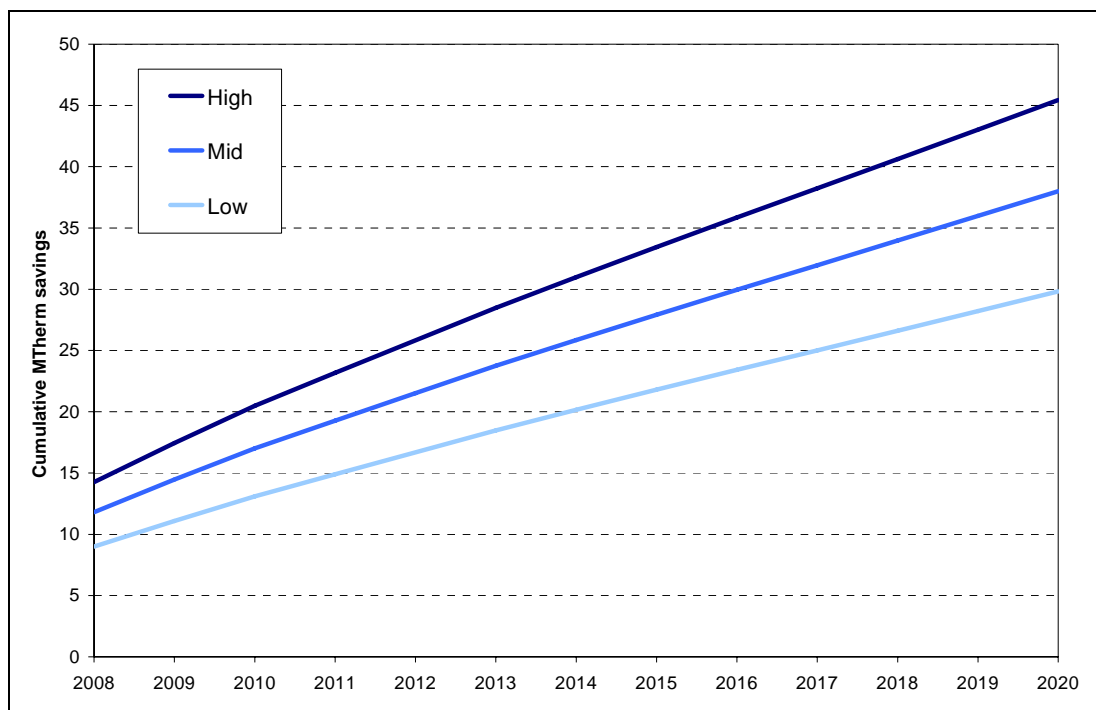
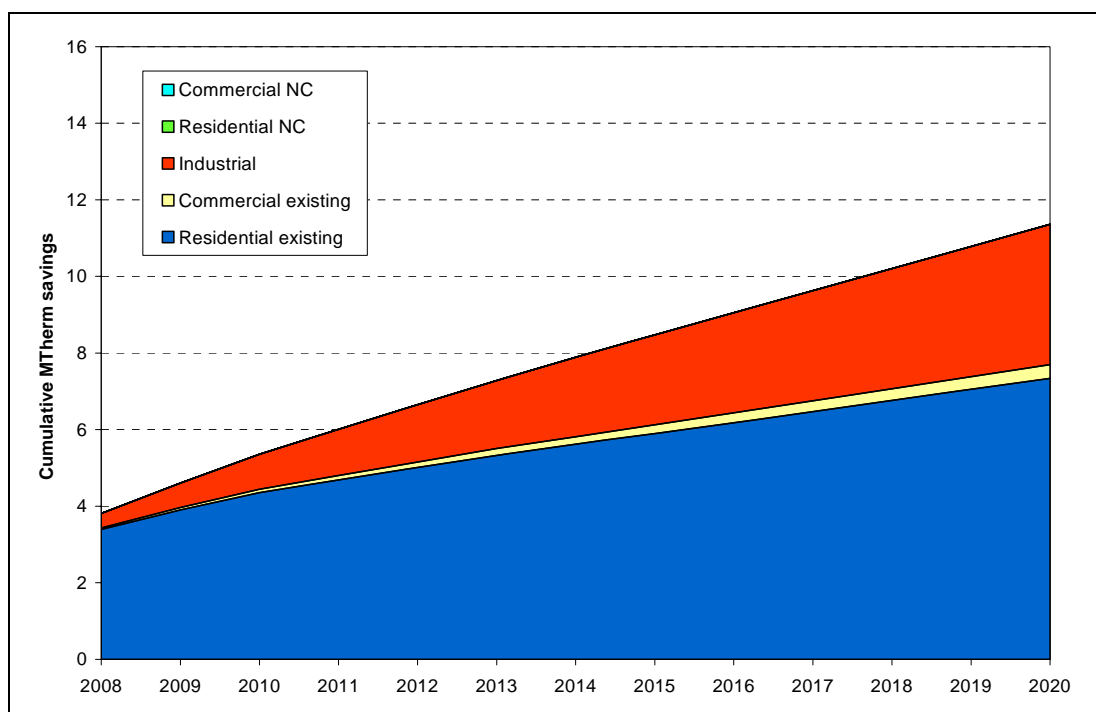


Figure G3-9. Naturally-occurring potential by sector and vintage in SDG&E**Table G3-13. Naturally-occurring potential in the residential sector by end use and vintage (cumulative MTherm savings in 2020)**

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Water Heating	6.1	4.9	4.2	0.0	0.0	0.0
Clothes Dryer	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0
Cooking	0.0	0.0	0.0	0.0	0.0	0.0
Pool Heating	0.0	0.0	0.0	0.0	0.0	0.0
Spa	0.0	0.0	0.0	0.0	0.0	0.0
Space Heat	3.1	2.5	1.8	0.0	0.0	0.0
Total	9.2	7.3	6.0	0.0	0.0	0.0

Table G3-14. Naturally-occurring potential in the commercial sector by end use and vintage (cumulative MTherm savings in 2020)

End Use	Existing			New		
	High	Mid	Low	High	Mid	Low
Space Cooling	0.0	0.0	0.0	0.0	0.0	0.0
Space Heating	0.1	0.1	0.1	0.0	0.0	0.0
Water Heating	0.3	0.2	0.2	0.0	0.0	0.0
Com Cooking	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.4	0.4	0.3	0.0	0.0	0.0

**Table G3-15. Naturally-occurring potential in the industrial sector by end use
(cumulative MTherm savings in 2020)**

End Use	All vintages		
	High	Mid	Low
Boilers	3.6	3.2	2.7
HVAC	0.2	0.2	0.2
Proc Heat	0.4	0.3	0.3
Ind Feedstocks	0.0	0.0	0.0
Ind Other	0.0	0.0	0.0
Total	4.2	3.7	3.1

**Figure G3-10. Uncertainty estimate for total naturally-occurring potential in
SDG&E**

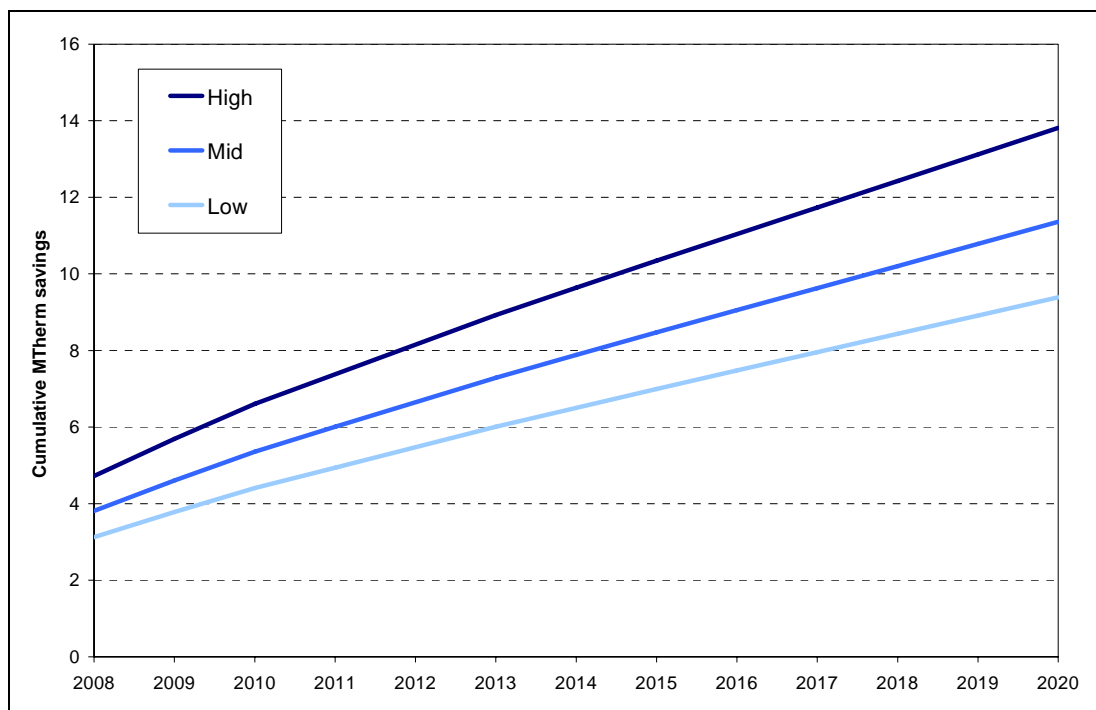


Figure G3-11. Estimated potential savings from BBEES initiatives in SDG&E (gross savings incremental to base market potential)

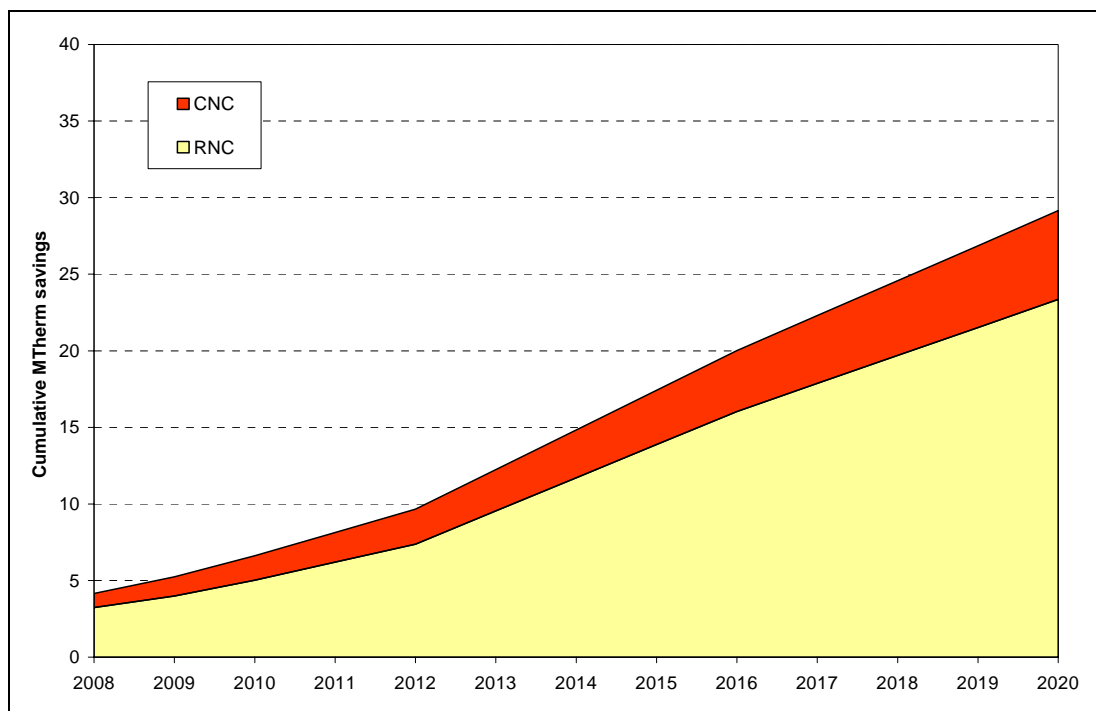


Figure G3-12. Uncertainty estimate for potential savings from all BB initiatives in SDG&E (gross savings incremental to base market potential)

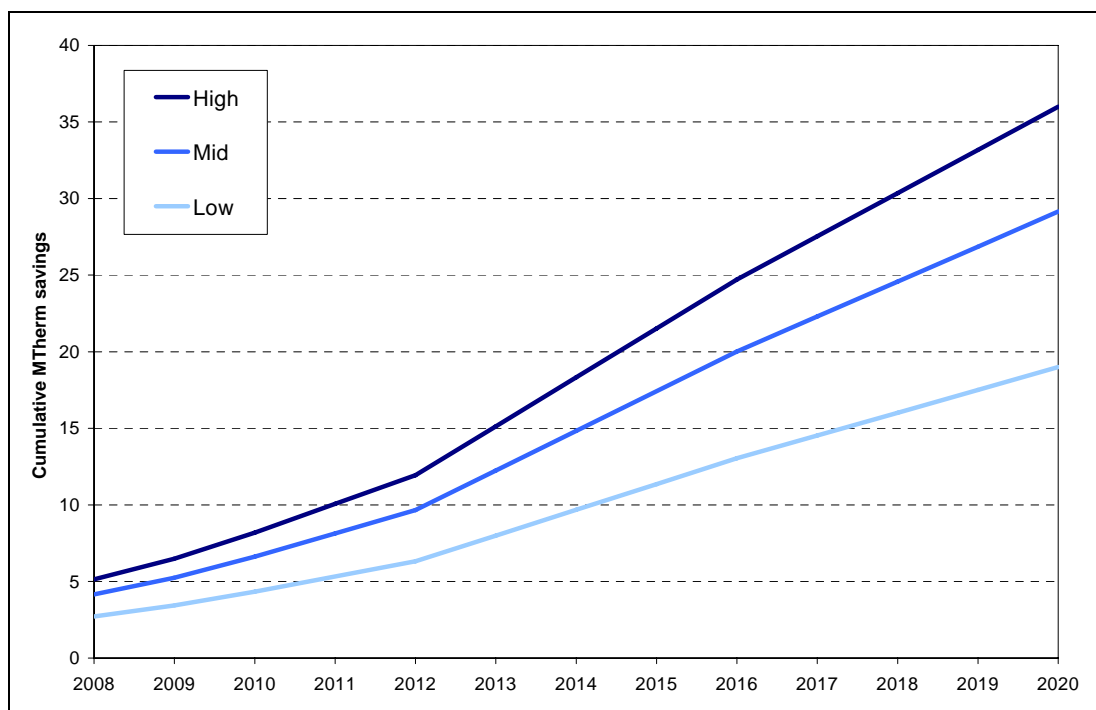


Figure G3-13. Impact of Title 24 revisions and IOU code compliance programs on base market potential for residential new construction in SDG&E (gross savings)

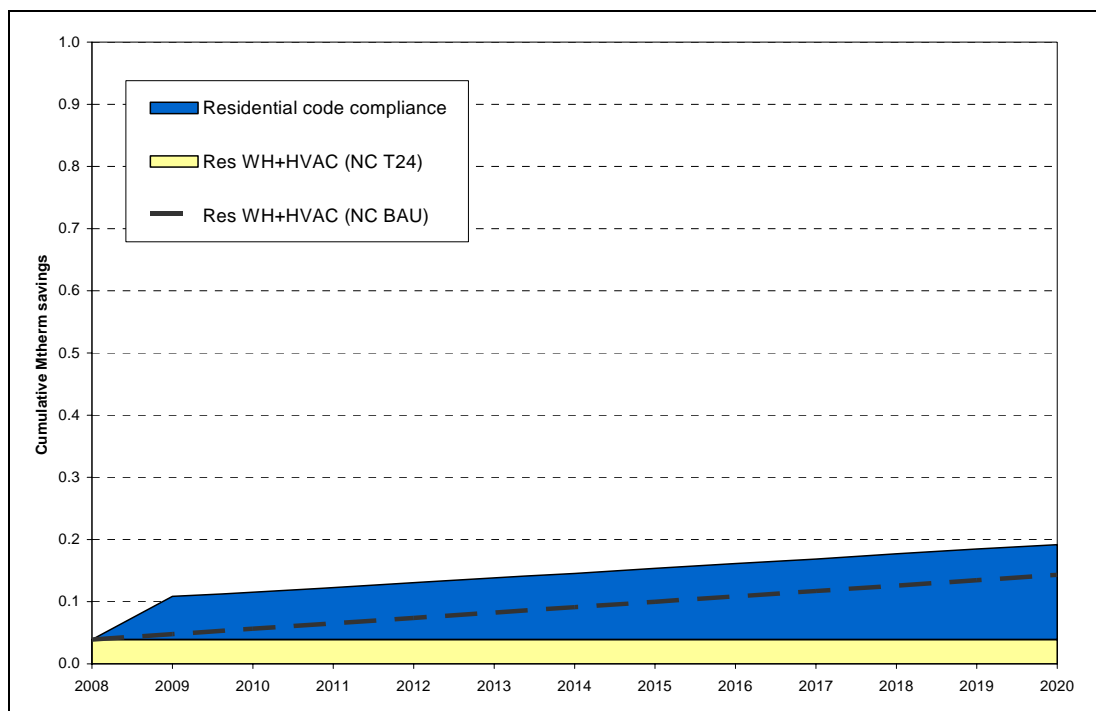


Figure G3-14. Total impact of future codes and standards on base market potential of IOU programs in SDG&E (gross savings)

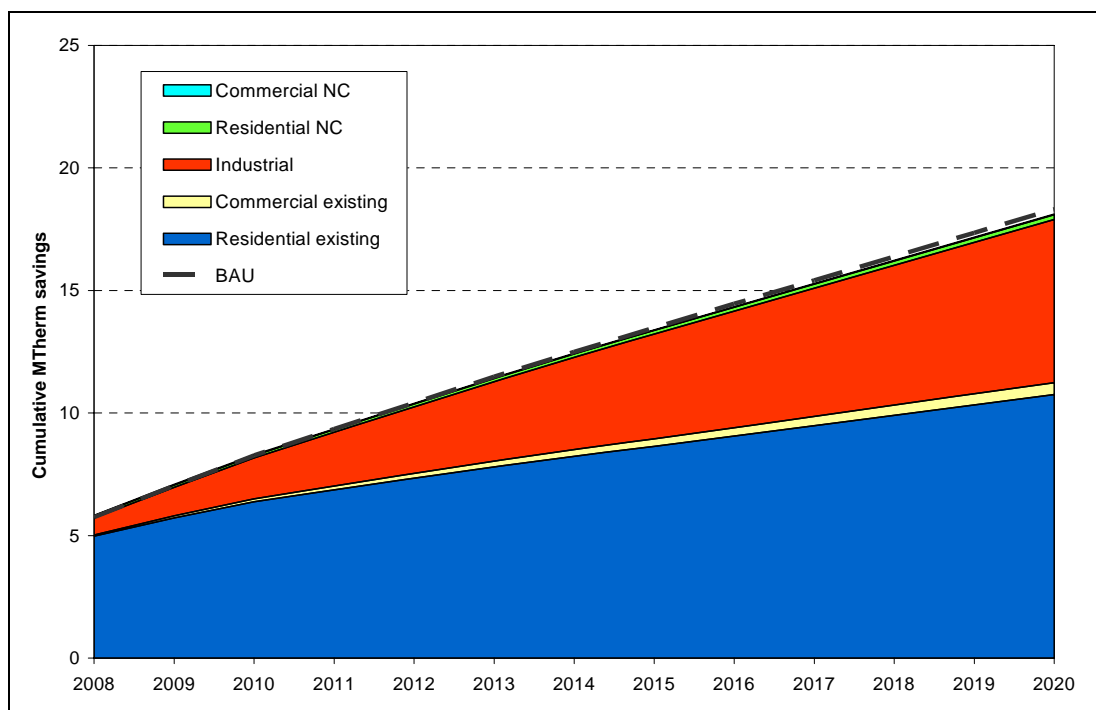


Figure G3-15. Uncertainty estimate of total base market potential of IOU programs after accounting for impacts of future codes and standards in SDG&E (gross savings)

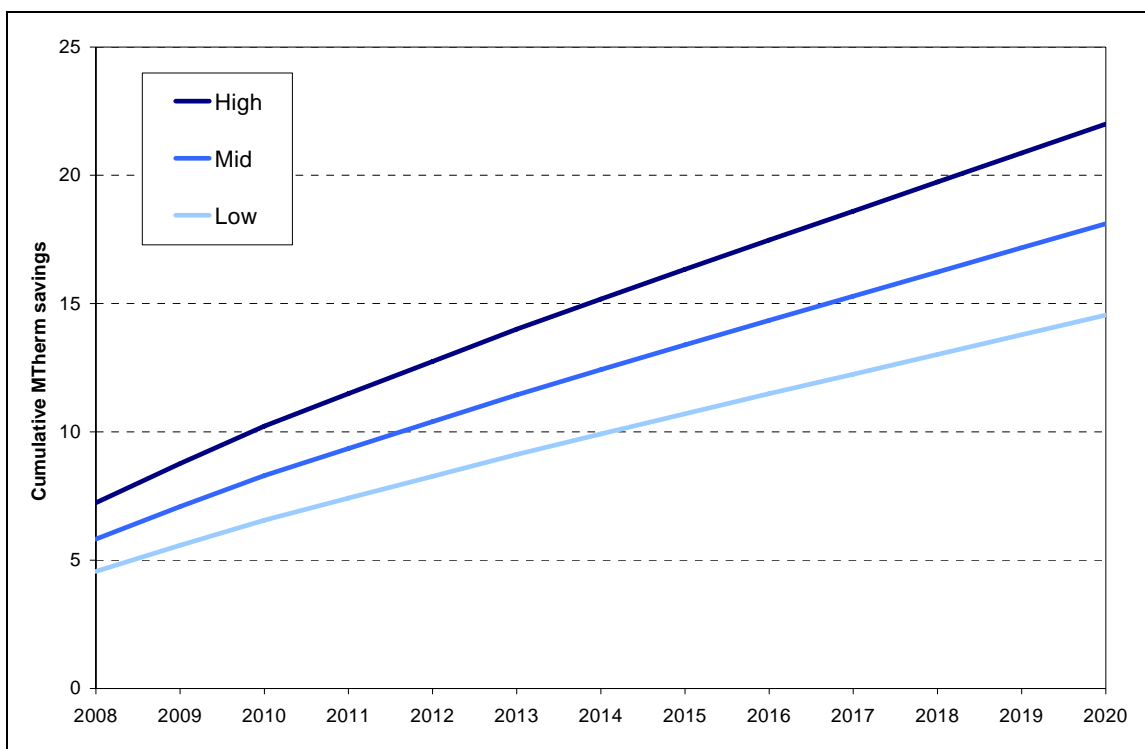


Figure G3-16. Estimated potential savings from implementation of the revisions to Title 24 in SDG&E (gross savings incremental to C&S-adjusted base market potential)

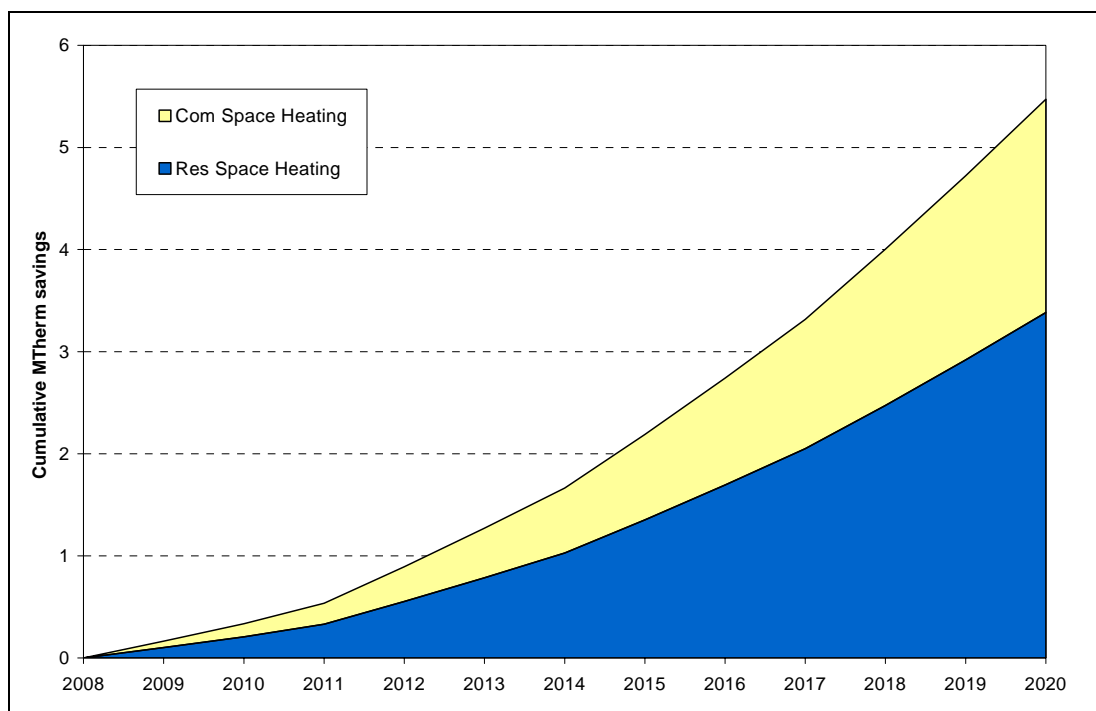


Figure G3-17. Estimated potential savings from implementation of the revised federal appliance standards in SDG&E (gross savings incremental to C&S-adjusted base market potential)

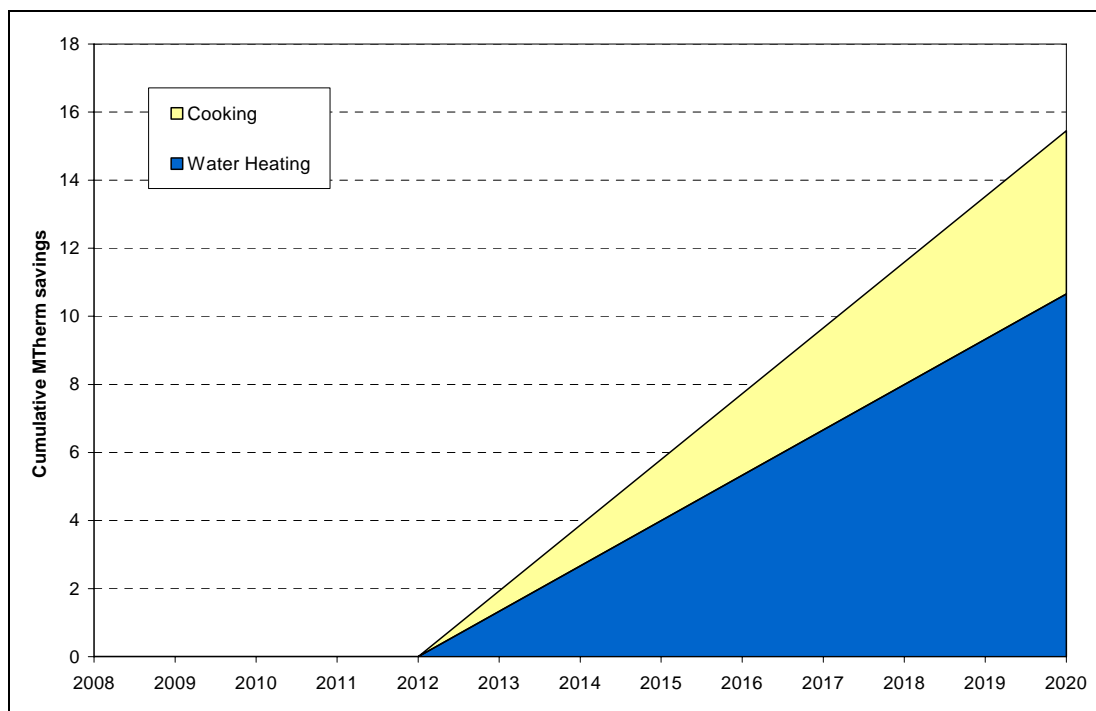


Figure G3-18. Estimated potential savings from future codes and standards in SDG&E (gross savings incremental to C&S-adjusted base market potential)

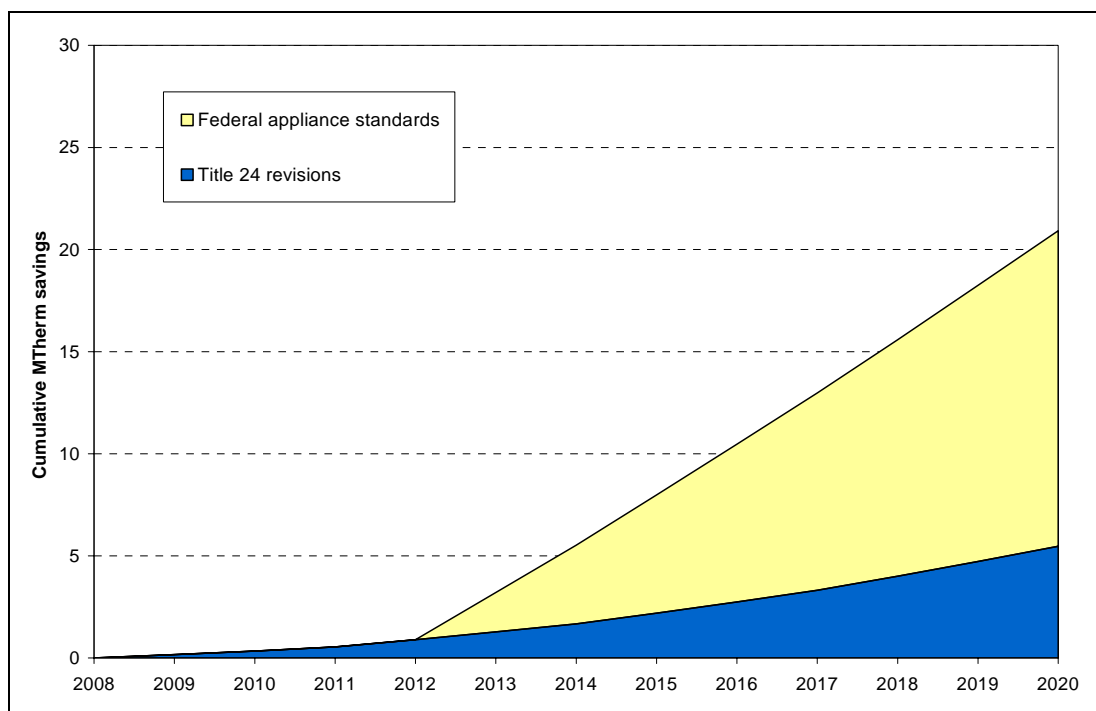


Figure G3-19. Uncertainty estimate of total potential savings from future codes and standards in SDG&E (gross savings incremental to C&S-adjusted base market potential)

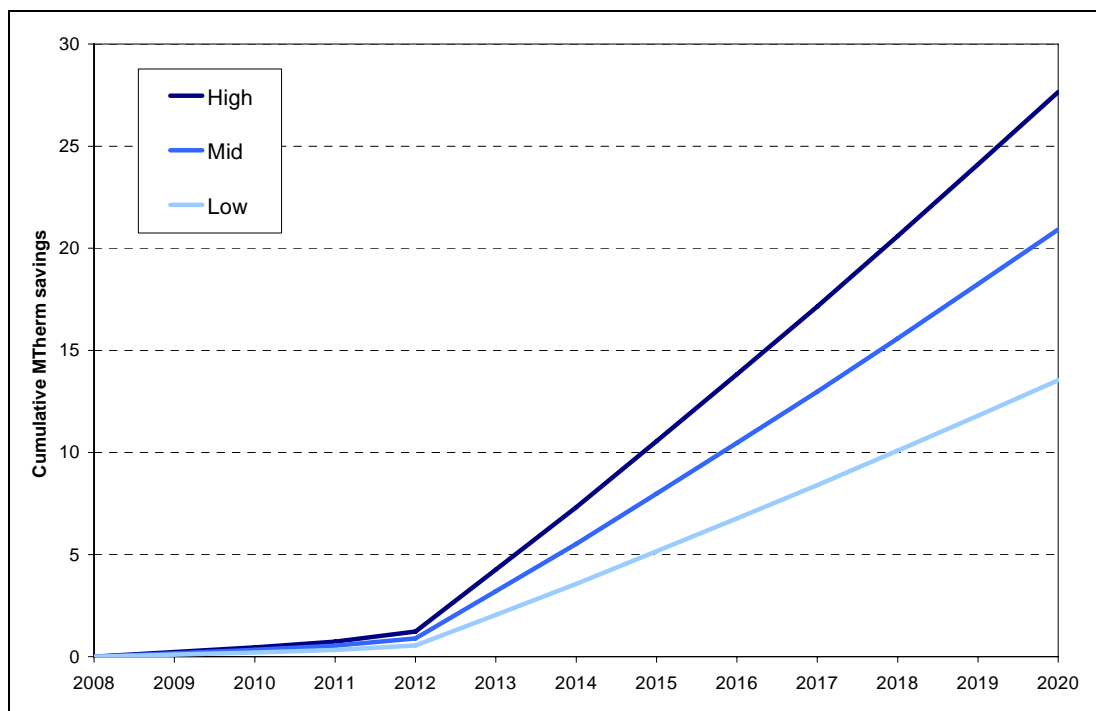


Figure G3-20. Estimated potential savings from all scenarios in SDG&E (gross savings assuming base-funding for IOU programs)

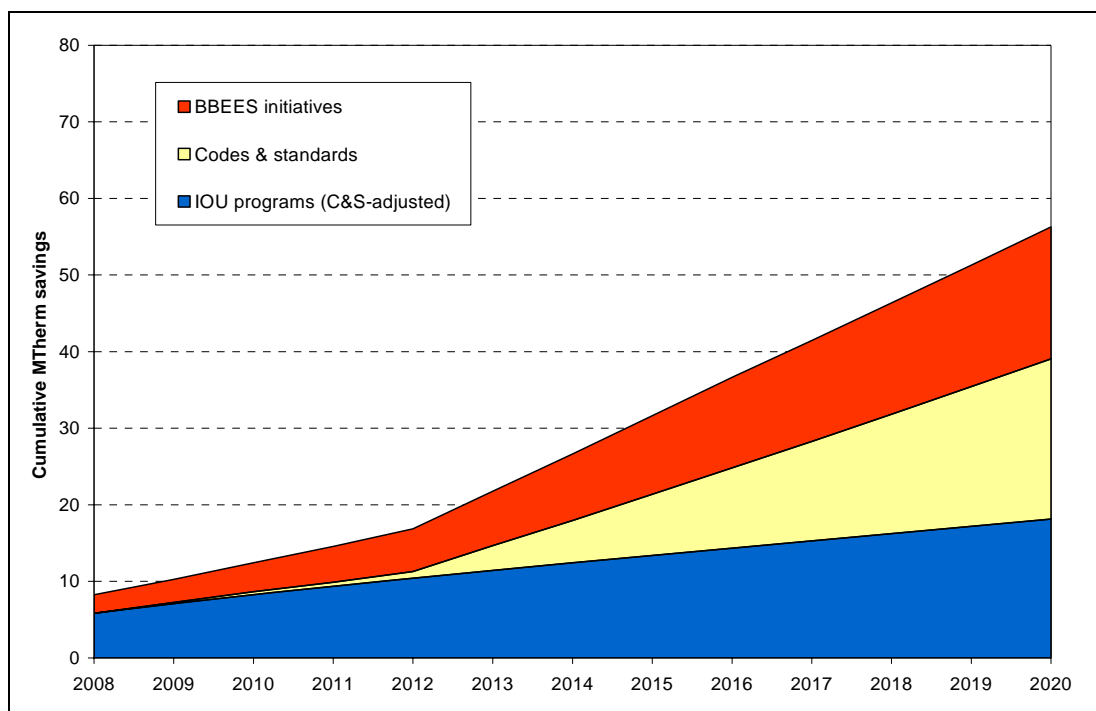


Figure G3-21. Estimated potential savings from all scenarios in SDG&E (gross savings assuming full-funding for IOU programs)

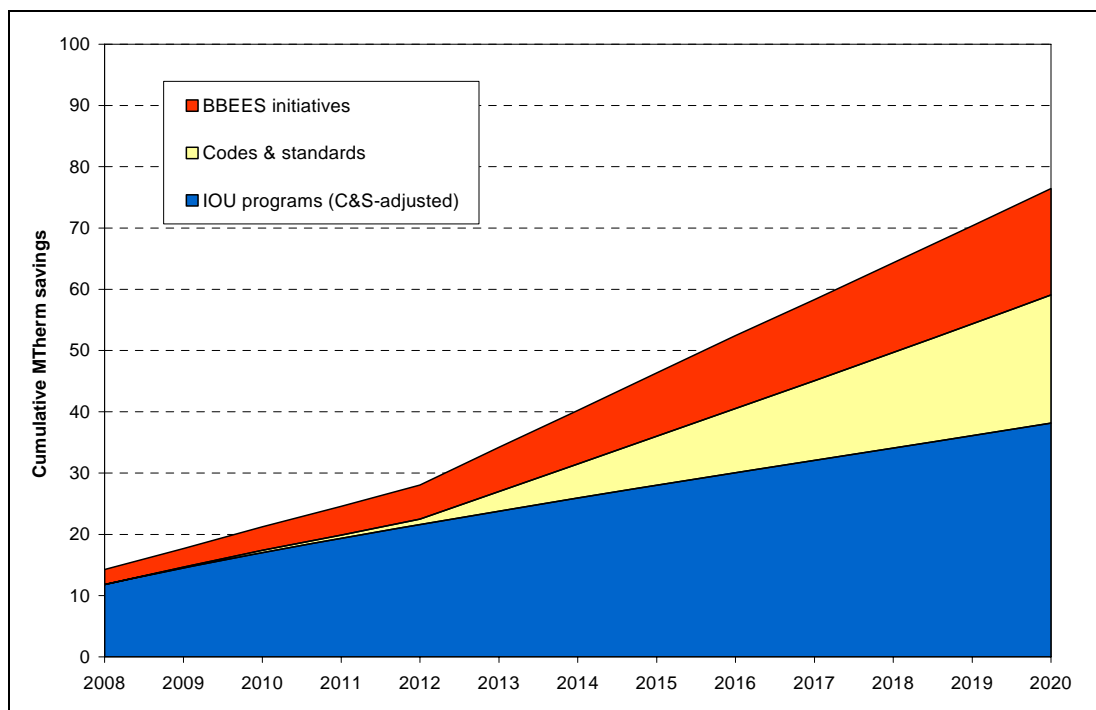


Table G3-16. Summary of estimated savings potential for each scenario in SDG&E (cumulative gross MTherm savings in 2020)

Scenario:	Scenario component :	Base-funding for IOU programs			Full-funding for IOU programs		
		High	Mid	Low	High	Mid	Low
BBEES initiatives	RNC	100	85	52	103	88	55
	CNC	9	11	13	9	11	13
	Total	109	95	65	112	99	69
Title 24 revisions	RNC	45	34	9	45	34	9
	CNC	24	17	23	24	17	23
	Total	69	51	31	69	51	31
Federal standards	Water Heaters	63	44	23	63	44	23
	Ranges/Ovens	16	16	15	16	16	15
	Total	79	60	38	79	60	38
IOU code compliance (res)	Total	3	2	1	4	2	3
IOU programs (C&S-adjusted)	Res existing	45	36	28	89	73	54
	Com existing	3	2	2	5	5	4
	Industrial	48	42	35	114	99	84
	RNC	5	4	3	8	7	6
	CNC	0	0	0	0	0	0
	Total	101	84	68	217	183	148
TOTAL GROSS SAVINGS POTENTIAL		360	291	204	481	394	289
<i>Naturally-occurring savings potential (embedded in all mechanisms above)</i>		56	47	39	56	47	39

Figure G3-22. Uncertainty estimate of total potential savings from all scenarios in SDG&E (gross savings assuming base-funding for IOU programs)

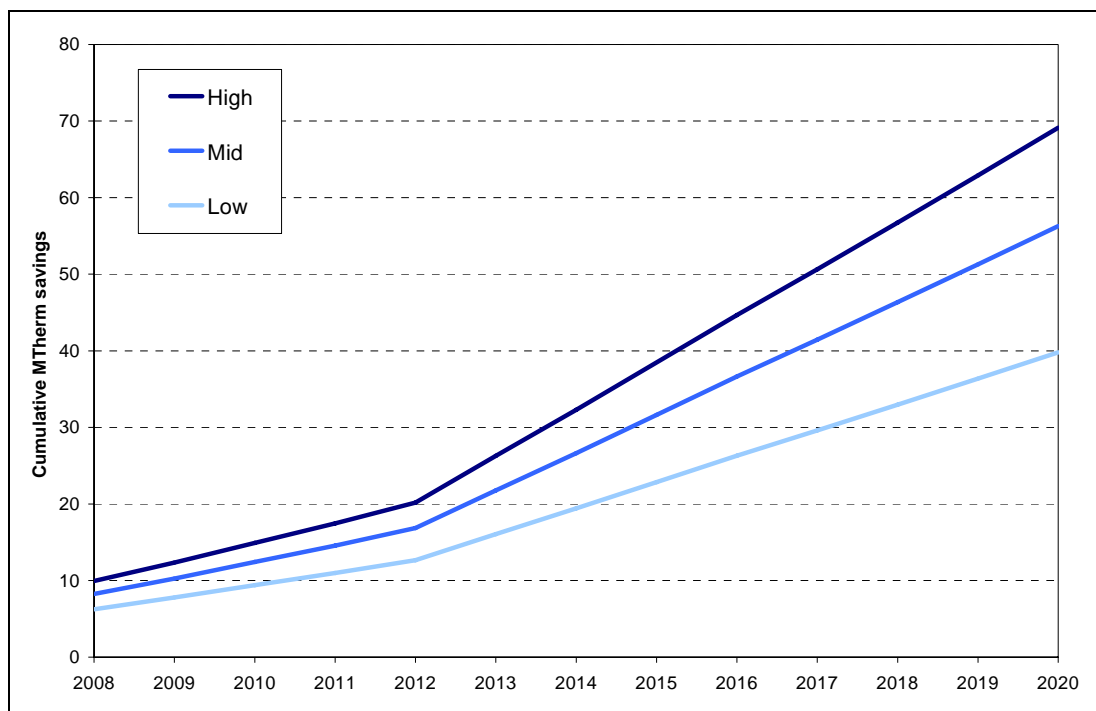


Figure G3-23. Uncertainty estimate of total potential savings from all scenarios in SDG&E (gross savings assuming full-funding for IOU programs)

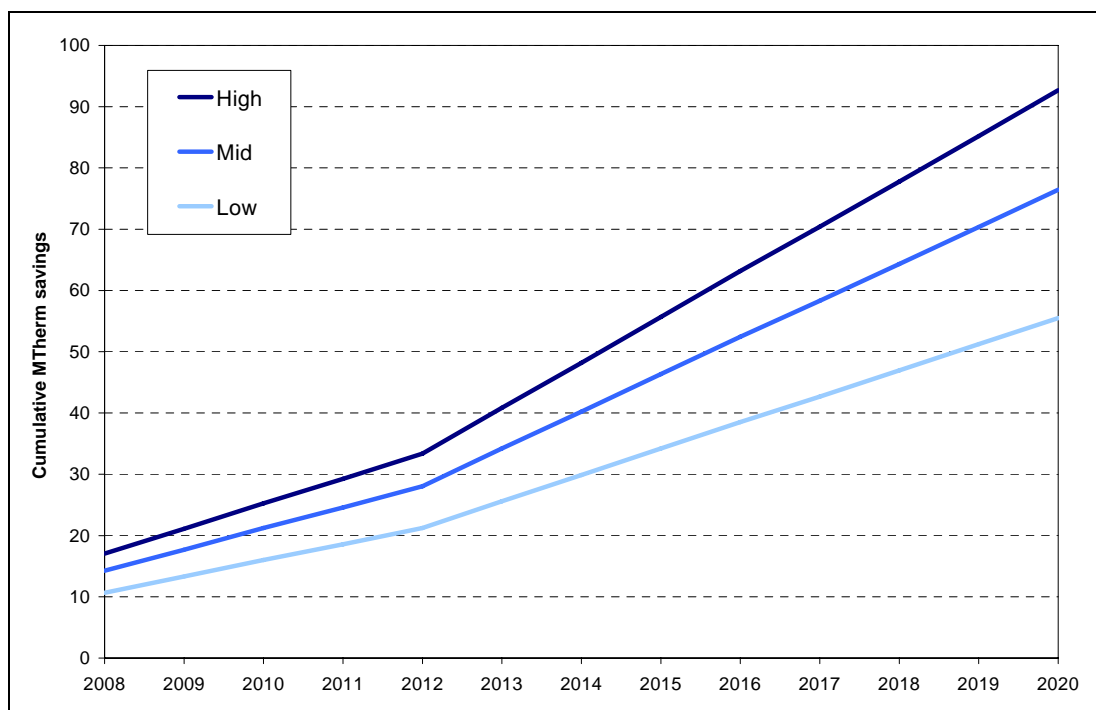


Figure G3-24. Cumulative gas savings from High, Mid and Low Cases in SDG&E compared to current goals through 2013

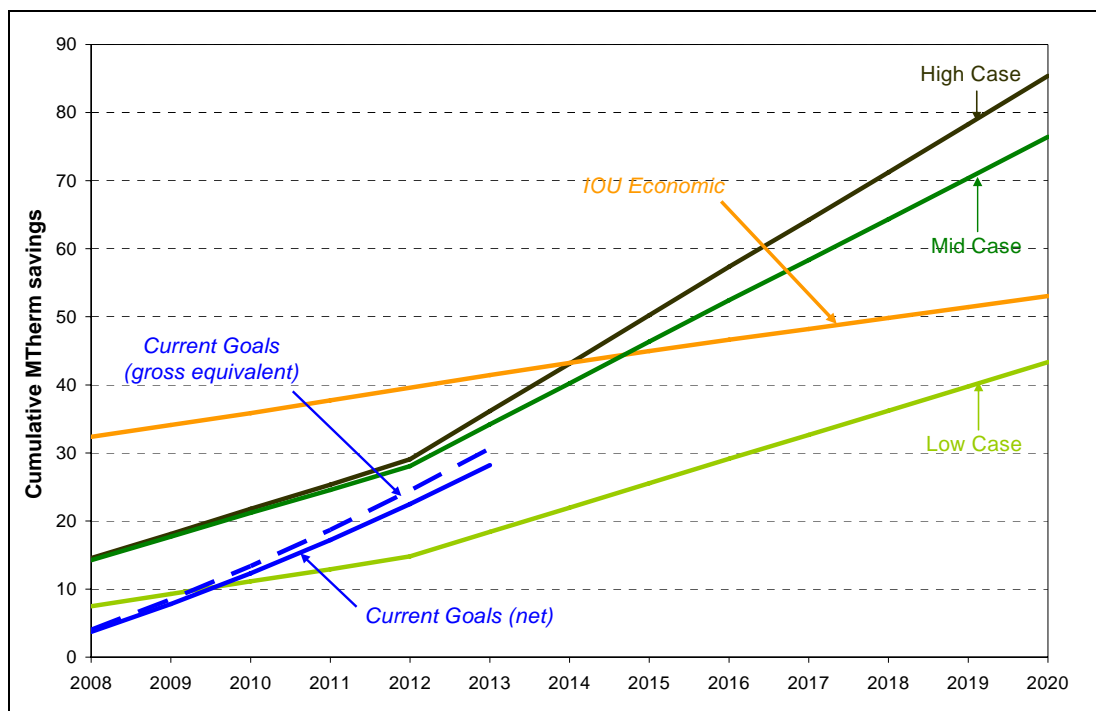


Figure G3-25. Composition of gas savings across mechanisms in the Low Case in SDG&E

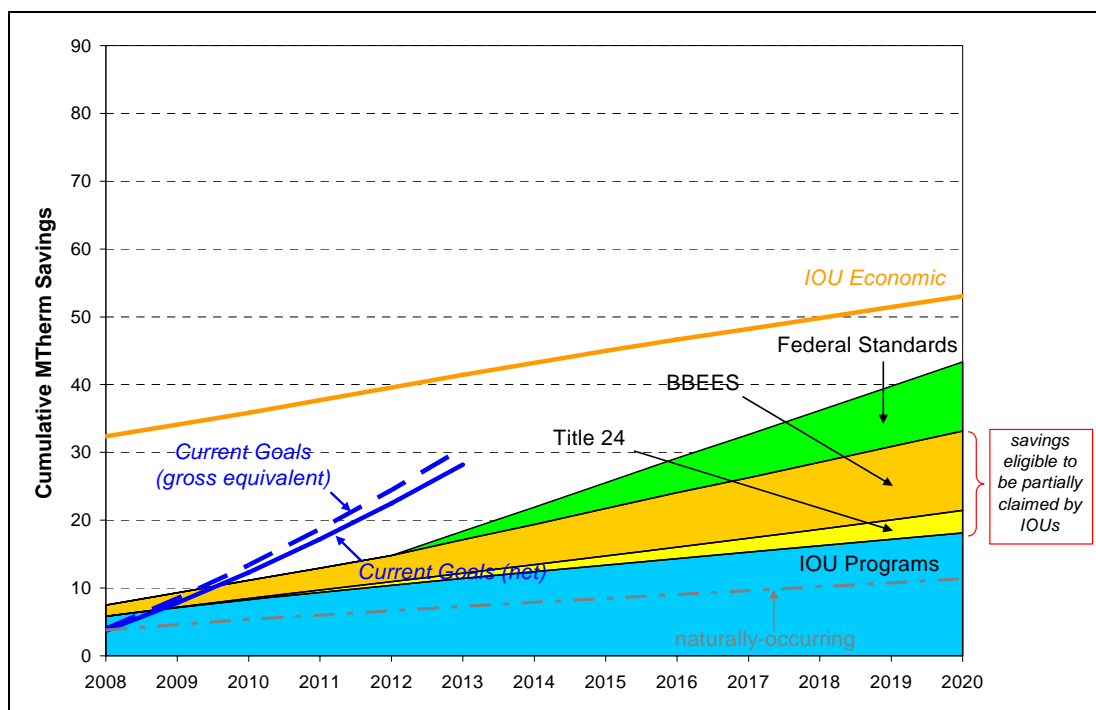


Figure G3-26. Composition of gas savings across mechanisms in the Mid Case in SDG&E

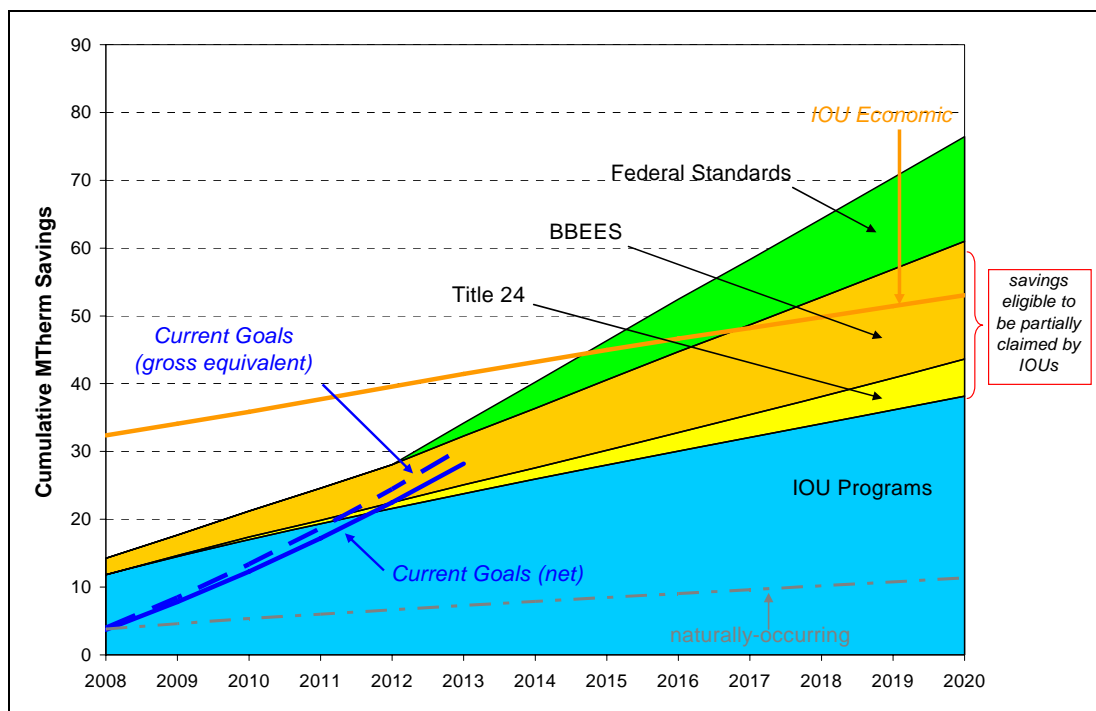
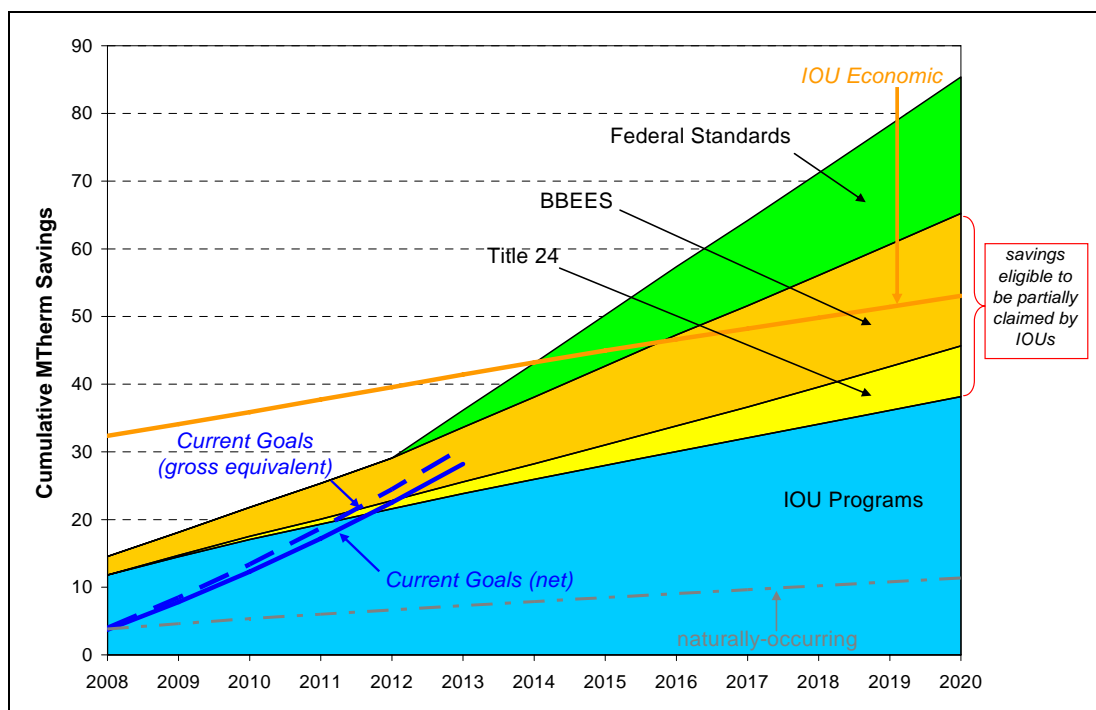


Figure G3-27. Composition of gas savings across mechanisms in the High Case in SDG&E



**Table G3-17. Estimated gas savings in the High, Mid, and Low straw man cases in
SDG&E (cumulative MTherm savings in 2020)**

Savings mechanism:	Low Case	Mid Case	High Case
Utility programs (gross)	18	38	38
Title 24	3	5	7
Federal appliance standards	10	15	20
BBEES initiatives	12	17	20
Total	43	76	85

Table G3-18. Cumulative MTherm savings by saving mechanism in the High, Mid, and Low straw man cases in SDG&E over time

Case:	Mechanism:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Low	Title 24	0	0	0	0	1	1	1	1	2	2	2	3	3
	Federal Standards	0	0	0	0	0	1	3	4	5	6	8	9	10
	BBEES	2	2	3	3	4	5	6	7	8	9	10	11	12
	IOU Programs	6	7	8	9	10	11	12	13	14	15	16	17	18
Mid	Title 24	0	0	0	1	1	1	2	2	3	3	4	5	5
	Federal Standards	0	0	0	0	0	2	4	6	8	10	12	14	15
	BBEES	2	3	4	5	6	7	9	10	12	13	15	16	17
	IOU Programs	12	14	17	19	22	24	26	28	30	32	34	36	38
High	Title 24	0	0	0	1	1	2	2	3	4	5	5	6	7
	Federal Standards	0	0	0	0	0	3	5	8	10	13	15	18	20
	BBEES	3	3	4	5	6	8	10	12	13	15	17	18	20
	IOU Programs	12	14	17	19	22	24	26	28	30	32	34	36	38
<i>Benchmarks</i>	<i>Economic</i>	32	34	36	38	40	41	43	45	47	48	50	51	53
	<i>Current IOU Goals (gross equivalent)</i>	4	8	13	19	24	31							
	<i>Current IOU Goals (net)</i>	4	8	12	17	23	28							

Appendix H

Final Gas Savings Inputs

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020	Low	Year	2020	Low	Year	2020	Low	Year	2020	Low
					High	Expected	Savings	High	Expected	Savings	High	Expected	Savings	High	Expected	Savings
PG&E	Residential	Single Family	Water Heating	Existing	31%	25%	22%	2%	1%	1%	9%	7%	5%	3%	2%	2%
PG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Space Heat	Existing	17%	14%	11%	5%	4%	3%	4%	3%	2%	3%	2%	2%
PG&E	Residential	Multi Family	Water Heating	Existing	31%	25%	22%	15%	14%	13%	1%	1%	1%	1%	1%	1%
PG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	Existing	15%	12%	10%	2%	2%	1%	4%	3%	2%	2%	2%	1%
PG&E	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Heating	Existing	3%	2%	2%	1%	1%	0%	2%	1%	1%	0%	0%	0%
PG&E	Commercial	College	WaterHeat	Existing	9%	8%	6%	6%	6%	4%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	College	Com Cooking	Existing	27%	23%	19%	13%	11%	9%	1%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Misc	Existing	110%	92%	74%	110%	92%	74%	7%	6%	5%	7%	6%	5%
PG&E	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Heating	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	WaterHeat	Existing	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Com Cooking	Existing	10%	8%	7%	6%	5%	4%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Heating	Existing	4%	3%	3%	4%	3%	3%	2%	2%	1%	1%	1%	1%
PG&E	Commercial	Health	WaterHeat	Existing	6%	5%	4%	4%	4%	3%	1%	1%	0%	1%	0%	0%
PG&E	Commercial	Health	Com Cooking	Existing	20%	17%	14%	9%	8%	6%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Heating	Existing	3%	2%	2%	1%	1%	1%	2%	1%	1%	1%	1%	0%
PG&E	Commercial	Large Office	WaterHeat	Existing	13%	11%	8%	7%	7%	5%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Large Office	Com Cooking	Existing	24%	21%	17%	8%	7%	6%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Heating	Existing	3%	3%	2%	1%	0%	0%	2%	2%	2%	1%	0%	0%
PG&E	Commercial	Lodging	WaterHeat	Existing	4%	4%	3%	4%	4%	3%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Com Cooking	Existing	18%	15%	12%	5%	5%	3%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Heating	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	WaterHeat	Existing	21%	18%	14%	19%	17%	13%	2%	2%	1%	2%	1%	1%
PG&E	Commercial	Miscellaneous	Com Cooking	Existing	37%	32%	25%	10%	9%	7%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Misc	Existing	5%	4%	4%	5%	4%	4%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Heating	Existing	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	WaterHeat	Existing	20%	17%	13%	12%	11%	8%	2%	2%	2%	2%	2%	1%
PG&E	Commercial	Refrigerated Warehouse	Com Cooking	Existing	4%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	WaterHeat	Existing	3%	3%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Com Cooking	Existing	7%	6%	5%	4%	4%	3%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	WaterHeat	Existing	3%	3%	2%	1%	1%	1%	1%	1%	0%	0%	0%	0%
PG&E	Commercial	Retail	Com Cooking	Existing	8%	7%	6%	2%	2%	2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low	High	Expected	Low
				Nr	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
PG&E	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Heating	Existing	1%	1%	1%	0%	0%	0%	1%	0%	0%	0%	0%	0%
PG&E	Commercial	School	WaterHeat	Existing	8%	7%	5%	4%	4%	3%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	School	Com Cooking	Existing	38%	33%	26%	18%	17%	13%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	Existing	3%	3%	2%	0%	0%	0%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	8%	7%	5%	4%	3%	2%	1%	1%	1%	1%	1%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Boilers	Existing	26%	23%	19%	26%	23%	19%	14%	12%	10%	7%	6%	6%
PG&E	Industrial	Industrial	HVAC	Existing	8%	7%	6%	8%	7%	6%	5%	5%	4%	1%	1%	1%
PG&E	Industrial	Industrial	Proc Heat	Existing	12%	10%	9%	12%	10%	9%	8%	7%	6%	2%	2%	2%
PG&E	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	Existing	37%	29%	26%	2%	2%	2%	13%	10%	8%	5%	4%	3%
SDG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	Existing	24%	19%	16%	8%	6%	5%	8%	6%	5%	6%	5%	3%
SDG&E	Residential	Multi Family	Water Heating	Existing	34%	27%	24%	16%	14%	13%	3%	3%	2%	1%	1%	1%
SDG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	Existing	13%	11%	9%	2%	1%	1%	2%	2%	1%	0%	0%	0%
SDG&E	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Heating	Existing	4%	3%	2%	3%	2%	2%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	College	WaterHeat	Existing	8%	7%	6%	6%	5%	4%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	College	Com Cooking	Existing	17%	15%	12%	11%	10%	7%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Misc	Existing	13%	11%	9%	13%	11%	9%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Com Cooking	Existing	14%	12%	10%	6%	6%	4%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Heating	Existing	13%	10%	8%	12%	10%	8%	4%	4%	3%	4%	3%	2%
SDG&E	Commercial	Health	WaterHeat	Existing	9%	8%	6%	6%	5%	4%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Health	Com Cooking	Existing	41%	36%	28%	7%	6%	5%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Heating	Existing	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	WaterHeat	Existing	15%	13%	9%	9%	8%	6%	2%	2%	1%	2%	1%	1%
SDG&E	Commercial	Large Office	Com Cooking	Existing	39%	34%	27%	29%	26%	20%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SDG&E	Commercial	Lodging	Heating	Existing	3%	2%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	WaterHeat	Existing	5%	4%	3%	4%	4%	3%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Com Cooking	Existing	39%	34%	27%	6%	5%	4%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Misc	Existing	13%	11%	9%	13%	11%	9%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Heating	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	WaterHeat	Existing	155%	134%	101%	137%	125%	94%	8%	6%	5%	4%	4%	3%
SDG&E	Commercial	Miscellaneous	Com Cooking	Existing	126%	109%	87%	28%	25%	19%	1%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Misc	Existing	3%	2%	2%	3%	2%	2%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	WaterHeat	Existing	7%	6%	5%	3%	3%	2%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Refrigerated Warehouse	Com Cooking	Existing	204%	178%	142%	97%	88%	66%	1%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	WaterHeat	Existing	6%	5%	4%	2%	2%	2%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Restaurant	Com Cooking	Existing	16%	14%	11%	12%	11%	8%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Heating	Existing	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	WaterHeat	Existing	11%	9%	7%	3%	3%	2%	2%	2%	1%	1%	1%	1%
SDG&E	Commercial	Retail	Com Cooking	Existing	8%	7%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Heating	Existing	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	WaterHeat	Existing	35%	30%	23%	19%	17%	13%	5%	4%	3%	3%	3%	2%
SDG&E	Commercial	School	Com Cooking	Existing	179%	156%	125%	54%	49%	37%	1%	1%	1%	0%	0%	0%
SDG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	WaterHeat	Existing	9%	8%	6%	0%	0%	0%	3%	2%	2%	1%	1%	1%
SDG&E	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Heating	Existing	2%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	47%	41%	31%	21%	19%	14%	7%	6%	5%	5%	4%	3%
SDG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Boilers	Existing	24%	21%	18%	24%	21%	18%	13%	11%	9%	7%	6%	5%
SDG&E	Industrial	Industrial	HVAC	Existing	6%	6%	5%	6%	6%	5%	5%	4%	3%	1%	1%	1%
SDG&E	Industrial	Industrial	Proc Heat	Existing	9%	8%	7%	9%	8%	7%	6%	5%	4%	1%	1%	1%
SDG&E	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Ag	Ag	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Construction	Construction	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Mining	Mining	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	TCU	TCU	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Water Heating	Existing	24%	19%	17%	1%	1%	1%	3%	2%	2%	1%	1%	1%
SCG	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Space Heat	Existing	23%	18%	15%	5%	4%	3%	5%	4%	3%	3%	2%	2%
SCG	Residential	Multi Family	Water Heating	Existing	23%	18%	16%	13%	11%	10%	5%	4%	3%	4%	3%	3%
SCG	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
SCG	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Space Heat	Existing	32%	26%	21%	7%	6%	5%	7%	5%	4%	2%	1%	1%
SCG	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Heating	Existing	3%	2%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	WaterHeat	Existing	8%	7%	5%	6%	6%	4%	3%	3%	2%	3%	2%	2%
SCG	Commercial	College	Com Cooking	Existing	42%	36%	29%	25%	23%	17%	21%	18%	14%	15%	12%	10%
SCG	Commercial	College	Misc	Existing	6%	5%	4%	6%	5%	4%	2%	2%	1%	2%	2%	1%
SCG	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Heating	Existing	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	WaterHeat	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Com Cooking	Existing	9%	8%	6%	4%	3%	3%	3%	3%	2%	2%	2%	2%
SCG	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Heating	Existing	3%	3%	2%	3%	3%	2%	1%	1%	0%	1%	1%	0%
SCG	Commercial	Health	WaterHeat	Existing	8%	7%	5%	6%	5%	4%	3%	3%	2%	2%	2%	2%
SCG	Commercial	Health	Com Cooking	Existing	29%	26%	21%	5%	5%	4%	8%	6%	5%	7%	6%	4%
SCG	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Heating	Existing	4%	3%	2%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	WaterHeat	Existing	19%	17%	13%	12%	11%	8%	6%	5%	4%	5%	4%	3%
SCG	Commercial	Large Office	Com Cooking	Existing	14%	12%	10%	10%	9%	7%	6%	5%	4%	4%	4%	3%
SCG	Commercial	Large Office	Misc	Existing	5%	4%	4%	5%	4%	4%	2%	1%	1%	2%	1%	1%
SCG	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Heating	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	WaterHeat	Existing	5%	4%	3%	4%	4%	3%	2%	2%	1%	2%	1%	1%
SCG	Commercial	Lodging	Com Cooking	Existing	42%	36%	29%	6%	6%	4%	12%	10%	8%	10%	8%	7%
SCG	Commercial	Lodging	Misc	Existing	18%	15%	12%	18%	15%	12%	6%	5%	4%	6%	5%	4%
SCG	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Heating	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	WaterHeat	Existing	16%	14%	10%	14%	13%	10%	8%	7%	6%	7%	6%	5%
SCG	Commercial	Miscellaneous	Com Cooking	Existing	50%	43%	35%	11%	10%	8%	16%	14%	11%	14%	11%	9%
SCG	Commercial	Miscellaneous	Misc	Existing	2%	1%	1%	2%	1%	1%	1%	0%	0%	1%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	WaterHeat	Existing	32%	27%	21%	17%	16%	12%	10%	9%	7%	9%	8%	6%
SCG	Commercial	Refrigerated Warehouse	Com Cooking	Existing	112%	97%	78%	53%	48%	36%	5%	4%	3%	5%	4%	3%
SCG	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	WaterHeat	Existing	2%	2%	1%	1%	1%	1%	1%	1%	0%	1%	0%	0%
SCG	Commercial	Restaurant	Com Cooking	Existing	6%	5%	4%	4%	4%	3%	3%	2%	2%	2%	2%	1%
SCG	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Heating	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	WaterHeat	Existing	5%	4%	3%	1%	1%	1%	2%	2%	1%	1%	1%	1%
SCG	Commercial	Retail	Com Cooking	Existing	5%	5%	4%	3%	2%	2%	2%	2%	2%	2%	1%	1%
SCG	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Heating	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	WaterHeat	Existing	8%	7%	5%	5%	5%	3%	3%	3%	2%	3%	2%	2%
SCG	Commercial	School	Com Cooking	Existing	44%	38%	30%	13%	12%	9%	16%	13%	10%	12%	10%	8%
SCG	Commercial	School	Misc	Existing	188%	156%	125%	188%	156%	125%	60%	50%	40%	59%	49%	40%
SCG	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	WaterHeat	Existing	2%	2%	1%	0%	0%	0%	1%	1%	1%	0%	0%	0%
SCG	Commercial	Small Office	Com Cooking	Existing	97%	85%	68%	0%	0%	0%	8%	7%	5%	8%	6%	5%
SCG	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020	Low	Year	2020	Low	Year	2020	Low	Year	2020	Low
					High	Expected	Savings	High	Expected	Savings	High	Expected	Savings	High	Expected	Savings
SCG	Commercial	Unrefrigerated Warehouse	Heating	Existing	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	40%	35%	26%	19%	17%	13%	16%	14%	11%	13%	11%	8%
SCG	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Boilers	Existing	29%	25%	21%	29%	25%	21%	11%	9%	8%	6%	5%	4%
SCG	Industrial	Industrial	HVAC	Existing	8%	7%	6%	8%	7%	6%	5%	4%	3%	1%	1%	0%
SCG	Industrial	Industrial	Proc Heat	Existing	13%	11%	9%	13%	11%	9%	6%	5%	4%	1%	1%	1%
SCG	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Ag		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Water Heating	New	22%	18%	15%	15%	13%	10%	9%	8%	6%	4%	3%	3%
PG&E	Residential	Single Family	Clothes Dryer	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Single Family	Other	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Single Family	Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Single Family	Pool Heating	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Single Family	Spa	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Single Family	Space Heat	New	22%	18%	15%	15%	13%	10%	9%	8%	6%	4%	3%	3%
PG&E	Residential	Multi Family	Water Heating	New	14%	11%	9%	5%	4%	3%	8%	6%	5%	3%	3%	2%
PG&E	Residential	Multi Family	Clothes Dryer	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Multi Family	Other	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Multi Family	Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Multi Family	Pool Heating	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Multi Family	Spa	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Residential	Multi Family	Space Heat	New	14%	11%	9%	5%	4%	3%	8%	6%	5%	3%	3%	2%
PG&E	Commercial	College	WaterHeat	New	20%	17%	13%	20%	17%	13%	5%	4%	3%	5%	4%	3%
PG&E	Commercial	Food Store	WaterHeat	New	-4%	-4%	-5%	-4%	-4%	-5%	-4%	-4%	-5%	-2%	-2%	-2%
PG&E	Commercial	Health	WaterHeat	New	3%	2%	2%	3%	2%	2%	-1%	-1%	-2%	0%	0%	0%
PG&E	Commercial	Large Office	WaterHeat	New	10%	9%	7%	10%	9%	7%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Lodging	WaterHeat	New	28%	23%	19%	28%	23%	19%	9%	8%	6%	7%	6%	5%
PG&E	Commercial	Miscellaneous	WaterHeat	New	15%	13%	10%	15%	13%	10%	-3%	-4%	-4%	0%	0%	-1%
PG&E	Commercial	Refrigerated Warehouse	WaterHeat	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Restaurant	WaterHeat	New	12%	10%	8%	12%	10%	8%	-9%	-11%	-14%	0%	0%	0%
PG&E	Commercial	Retail	WaterHeat	New	29%	24%	19%	29%	24%	19%	23%	19%	15%	4%	3%	3%
PG&E	Commercial	School	WaterHeat	New	2%	1%	1%	2%	1%	1%	-2%	-3%	-3%	0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	New	11%	9%	8%	11%	9%	8%	-1%	-2%	-2%	0%	-1%	-1%
PG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	New	17%	14%	11%	17%	14%	11%	0%	0%	-1%	0%	0%	0%
PG&E	Commercial	College	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Food Store	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Health	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Large Office	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Lodging	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Miscellaneous	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Refrigerated Warehouse	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Restaurant	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Retail	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	School	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Small Office	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Unrefrigerated Warehouse	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	College	Heating	New	20%	17%	13%	20%	17%	13%	5%	4%	3%	5%	4%	3%
PG&E	Commercial	Food Store	Heating	New	-4%	-4%	-5%	-4%	-4%	-5%	-4%	-4%	-5%	-2%	-2%	-2%
PG&E	Commercial	Health	Heating	New	3%	2%	2%	3%	2%	2%	-1%	-1%	-2%	0%	0%	0%
PG&E	Commercial	Large Office	Heating	New	10%	9%	7%	10%	9%	7%	1%	1%	1%	1%	1%	1%
PG&E	Commercial	Lodging	Heating	New	28%	23%	19%	28%	23%	19%	9%	8%	6%	7%	6%	5%
PG&E	Commercial	Miscellaneous	Heating	New	15%	13%	10%	15%	13%	10%	-3%	-4%	-4%	0%	0%	-1%
PG&E	Commercial	Refrigerated Warehouse	Heating	New	0%		0%	0%		0%	0%		0%	0%		0%
PG&E	Commercial	Restaurant	Heating	New	12%	10%	8%	12%	10%	8%	-9%	-11%	-14%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020	Low	Year	2020	Low	Year	2020	Low	Year	2020	Low
					High	Expected	Savings	High	Expected	Savings	High	Expected	Savings	High	Expected	Savings
PG&E	Commercial	Retail	Heating	New	29%	24%	19%	29%	24%	19%	23%	19%	15%	4%	3%	3%
PG&E	Commercial	School	Heating	New	2%	1%	1%	2%	1%	1%	-2%	-3%	-3%	0%	0%	0%
PG&E	Commercial	Small Office	Heating	New	11%	9%	8%	11%	9%	8%	-1%	-2%	-2%	0%	-1%	-1%
PG&E	Commercial	Unrefrigerated Warehouse	Heating	New	17%	14%	11%	17%	14%	11%	0%	0%	-1%	0%	0%	0%
PG&E	Commercial	College	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Boilers	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	HVAC	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag	0 New	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction	0 New	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining	0 New	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU	0 New	0	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	New	11%	9%	8%	3%	2%	2%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	New	11%	9%	8%	3%	2%	2%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Water Heating	New	9%	8%	6%	3%	2%	2%	2%	2%	2%	1%	1%	1%
SDG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	New	9%	8%	6%	3%	2%	2%	2%	2%	2%	1%	1%	1%
SDG&E	Commercial	College	WaterHeat	New	5%	4%	3%	5%	4%	3%	0%	0%	-1%	0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	New	-4%	-5%	-5%	-4%	-5%	-5%	-5%	-7%	-8%	-3%	-3%	-4%
SDG&E	Commercial	Health	WaterHeat	New	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	WaterHeat	New	8%	7%	5%	8%	7%	5%	-1%	-1%	-1%	1%	1%	1%
SDG&E	Commercial	Lodging	WaterHeat	New	2%	2%	1%	2%	2%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	WaterHeat	New	14%	12%	9%	14%	12%	9%	-2%	-3%	-3%	1%	1%	1%
SDG&E	Commercial	Refrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	WaterHeat	New	20%	16%	13%	20%	16%	13%	-12%	-15%	-18%	3%	3%	2%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
SDG&E	Commercial	Retail	WaterHeat	New	60%	50%	40%	4%	3%	2%	57%	47%	38%	26%	21%	17%
SDG&E	Commercial	School	WaterHeat	New	2%	2%	1%	2%	2%	1%	-2%	-2%	-2%	0%	0%	0%
SDG&E	Commercial	Small Office	WaterHeat	New	4%	3%	3%	4%	3%	3%	-1%	-1%	-1%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	New	12%	10%	8%	12%	10%	8%	-1%	-2%	-2%	0%	0%	0%
SDG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Heating	New	5%	4%	3%	5%	4%	3%	0%	0%	-1%	0%	0%	0%
SDG&E	Commercial	Food Store	Heating	New	-4%	-5%	-5%	-4%	-5%	-5%	-5%	-7%	-8%	-3%	-3%	-4%
SDG&E	Commercial	Health	Heating	New	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Heating	New	8%	7%	5%	8%	7%	5%	-1%	-1%	-1%	1%	1%	1%
SDG&E	Commercial	Lodging	Heating	New	2%	2%	1%	2%	2%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Heating	New	14%	12%	9%	14%	12%	9%	-2%	-3%	-3%	1%	1%	1%
SDG&E	Commercial	Refrigerated Warehouse	Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Heating	New	20%	16%	13%	20%	16%	13%	-12%	-15%	-18%	3%	3%	2%
SDG&E	Commercial	Retail	Heating	New	60%	50%	40%	4%	3%	2%	57%	47%	38%	26%	21%	17%
SDG&E	Commercial	School	Heating	New	2%	2%	1%	2%	2%	1%	-2%	-2%	-2%	0%	0%	0%
SDG&E	Commercial	Small Office	Heating	New	4%	3%	3%	4%	3%	3%	-1%	-1%	-1%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Heating	New	12%	10%	8%	12%	10%	8%	-1%	-2%	-2%	0%	0%	0%
SDG&E	Commercial	College	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Boilers	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	HVAC	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Ag	Ag	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Construction	Construction	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year High	2020 Expected Savings	Low	Year High	2020 Expected Savings	Low	Year High	2020 Expected Savings	Low	Year High	2020 Expected Savings	Low
SDG&E	Industrial	Mining	Mining	New	0%		0%	0%		0%	0%		0%	0%		0%
SDG&E	Industrial	TCU	TCU	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Single Family	Water Heating	New	11%	9%	7%	3%	2%	2%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Clothes Dryer	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Single Family	Other	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Single Family	Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Single Family	Pool Heating	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Single Family	Spa	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Single Family	Space Heat	New	11%	9%	7%	3%	2%	2%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Water Heating	New	6%	5%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Clothes Dryer	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Multi Family	Other	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Multi Family	Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Multi Family	Pool Heating	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Multi Family	Spa	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Residential	Multi Family	Space Heat	New	6%	5%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	WaterHeat	New	9%	7%	6%	9%	7%	6%	0%	0%	0%	1%	1%	0%
SCG	Commercial	Food Store	WaterHeat	New	-6%	-7%	-9%	-6%	-7%	-9%	-15%	-19%	-22%	-8%	-10%	-12%
SCG	Commercial	Health	WaterHeat	New	4%	3%	3%	4%	3%	3%	0%	-1%	-1%	0%	0%	0%
SCG	Commercial	Large Office	WaterHeat	New	17%	15%	12%	17%	15%	12%	0%	0%	0%	1%	1%	1%
SCG	Commercial	Lodging	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	WaterHeat	New	69%	57%	46%	69%	57%	46%	-18%	-23%	-28%	-2%	-3%	-3%
SCG	Commercial	Refrigerated Warehouse	WaterHeat	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Restaurant	WaterHeat	New	88%	74%	59%	88%	74%	59%	-17%	-21%	-25%	8%	7%	5%
SCG	Commercial	Retail	WaterHeat	New	296%	247%	197%	296%	247%	197%	246%	205%	164%	67%	56%	44%
SCG	Commercial	School	WaterHeat	New	15%	12%	10%	15%	12%	10%	-4%	-4%	-5%	-1%	-1%	-1%
SCG	Commercial	Small Office	WaterHeat	New	34%	28%	23%	34%	28%	23%	-3%	-4%	-4%	2%	2%	2%
SCG	Commercial	Unrefrigerated Warehouse	WaterHeat	New	8%	7%	6%	8%	7%	5%	-3%	-3%	-4%	0%	0%	0%
SCG	Commercial	College	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Food Store	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Health	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Large Office	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Lodging	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Miscellaneous	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Refrigerated Warehouse	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Restaurant	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Retail	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	School	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Small Office	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Unrefrigerated Warehouse	Misc	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	College	Heating	New	9%	7%	6%	9%	7%	6%	0%	0%	0%	1%	1%	0%
SCG	Commercial	Food Store	Heating	New	-6%	-7%	-9%	-6%	-7%	-9%	-15%	-19%	-22%	-8%	-10%	-12%
SCG	Commercial	Health	Heating	New	4%	3%	3%	4%	3%	3%	0%	-1%	-1%	0%	0%	0%
SCG	Commercial	Large Office	Heating	New	17%	15%	12%	17%	15%	12%	0%	0%	0%	1%	1%	1%
SCG	Commercial	Lodging	Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Heating	New	69%	57%	46%	69%	57%	46%	-18%	-23%	-28%	-2%	-3%	-3%
SCG	Commercial	Refrigerated Warehouse	Heating	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Restaurant	Heating	New	88%	74%	59%	88%	74%	59%	-17%	-21%	-25%	8%	7%	5%
SCG	Commercial	Retail	Heating	New	296%	247%	197%	296%	247%	197%	246%	205%	164%	67%	56%	44%
SCG	Commercial	School	Heating	New	15%	12%	10%	15%	12%	10%	-4%	-4%	-5%	-1%	-1%	-1%
SCG	Commercial	Small Office	Heating	New	34%	28%	23%	34%	28%	23%	-3%	-4%	-4%	2%	2%	2%
SCG	Commercial	Unrefrigerated Warehouse	Heating	New	8%	7%	6%	8%	7%	5%	-3%	-3%	-4%	0%	0%	0%
SCG	Commercial	College	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Food Store	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Health	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Large Office	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Lodging	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Miscellaneous	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Refrigerated Warehouse	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Tech Savings relative to base year			Scenario: Economic Savings relative to base year			Scenario: Full Restricted Savings relative to base year			Scenario: Base Restricted Savings relative to base year		
					Year	2020	Low	Year	2020	Low	Year	2020	Low	Year	2020	Low
					High	Expected	Savings	High	Expected	Savings	High	Expected	Savings	High	Expected	Savings
SCG	Commercial	Restaurant	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Retail	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	School	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Small Office	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Unrefrigerated Warehouse	Cooling	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	College	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Food Store	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Health	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Large Office	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Lodging	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Miscellaneous	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Refrigerated Warehouse	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Restaurant	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Retail	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	School	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Small Office	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Industrial	Industrial	Boilers	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Industrial	Industrial	HVAC	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Industrial	Industrial	Proc Heat	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Industrial	Industrial	Ind Feedstocks	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Industrial	Industrial	Ind Other	New	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Industrial	Ag	0 New	0	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Industrial	Construction	0 New	0	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Industrial	Mining	0 New	0	0%		0%	0%		0%	0%		0%	0%		0%
SCG	Industrial	TCU	0 New	0	0%		0%	0%		0%	0%		0%	0%		0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold - full Savings relative to base year			Scenario: Big Bold - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					Year High	Expected Savings	Low Savings	Year High	Expected Savings	Low Savings	Year High	Expected Savings	Low Savings	Year High	Expected Savings	Low Savings
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
PG&E	Residential	Single Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold - full Savings relative to base year			Scenario: Big Bold - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
PG&E	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Boilers	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	HVAC	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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					Scenario: Big Bold - full Savings relative to base year Year 2020				Scenario: Big Bold - base Savings relative to base year Year 2020				Scenario: Big Bold (C&S) - full Savings relative to base year Year 2020				Scenario: Big Bold (C&S) - base Savings relative to base year Year 2020			
Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	High Savings	Expected Savings	Low Savings	High Savings	Expected Savings	Low Savings	High Savings	Expected Savings	Low Savings	High Savings	Expected Savings	Low Savings				
SDG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Lodging	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Miscellaneous	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Refrigerated Warehouse	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Refrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Restaurant	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Retail	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	School	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	School	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Unrefrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Industrial	Industrial	Boilers	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Industrial	Industrial	HVAC	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Industrial	Industrial	Proc Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Industrial	Ag	Ag	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Industrial	Construction	Construction	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Industrial	Mining	Mining	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SDG&E	Industrial	TCU	TCU	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Single Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Single Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Single Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Single Family	Space Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Multi Family	Water Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				
SCG	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%				

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold - full				Scenario: Big Bold - base				Scenario: Big Bold (C&S) - full				Scenario: Big Bold (C&S) - base			
					Savings relative to base year				Savings relative to base year				Savings relative to base year				Savings relative to base year			
					Year	2020			Year	2020			Year	2020			Year	2020		
					High	Expected	Low		High	Expected	Low		High	Expected	Low		High	Expected	Low	
					Savings	Savings	Savings		Savings	Savings	Savings		Savings	Savings	Savings		Savings	Savings	Savings	
SCG	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Residential	Multi Family	Spa	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Residential	Multi Family	Space Heat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	College	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	College	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	College	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	College	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	College	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Food Store	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Food Store	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Food Store	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Food Store	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Health	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Health	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Health	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Health	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Health	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Large Office	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Large Office	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Large Office	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Large Office	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Lodging	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Lodging	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Lodging	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Lodging	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Miscellaneous	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Refrigerated Warehouse	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Refrigerated Warehouse	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Restaurant	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Restaurant	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Restaurant	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Restaurant	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Retail	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Retail	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Retail	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Retail	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Retail	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	School	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	School	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	School	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	School	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	School	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Small Office	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Small Office	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Small Office	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SCG	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold - full Savings relative to base year			Scenario: Big Bold - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SCG	Commercial	Unrefrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Boilers	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	HVAC	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Proc Heat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Ag		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Water Heating	New	29%	22%	12%	33%	27%	16%	21%	18%	11%	20%	17%	10%
PG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Space Heat	New	29%	22%	12%	33%	27%	16%	21%	18%	11%	20%	17%	10%
PG&E	Residential	Multi Family	Water Heating	New	30%	24%	13%	34%	27%	17%	21%	18%	12%	20%	18%	12%
PG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	New	30%	24%	13%	34%	27%	17%	21%	18%	12%	20%	18%	12%
PG&E	Commercial	College	WaterHeat	New	18%	13%	8%	17%	13%	8%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Food Store	WaterHeat	New	26%	21%	17%	23%	19%	14%	5%	5%	7%	4%	5%	6%
PG&E	Commercial	Health	WaterHeat	New	23%	18%	14%	21%	17%	12%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Large Office	WaterHeat	New	21%	16%	12%	20%	16%	11%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Lodging	WaterHeat	New	14%	9%	5%	15%	11%	6%	3%	4%	5%	3%	4%	5%
PG&E	Commercial	Miscellaneous	WaterHeat	New	25%	21%	16%	22%	17%	13%	5%	5%	7%	4%	5%	6%
PG&E	Commercial	Refrigerated Warehouse	WaterHeat	New	22%	17%	12%	22%	17%	12%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Restaurant	WaterHeat	New	33%	28%	24%	21%	17%	12%	6%	6%	8%	4%	5%	6%
PG&E	Commercial	Retail	WaterHeat	New	2%	-2%	-7%	18%	14%	9%	1%	2%	3%	4%	4%	6%
PG&E	Commercial	School	WaterHeat	New	24%	20%	15%	22%	17%	12%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Small Office	WaterHeat	New	23%	19%	14%	22%	18%	13%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	New	22%	17%	13%	21%	17%	12%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Heating	New	18%	13%	8%	17%	13%	8%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Food Store	Heating	New	26%	21%	17%	23%	19%	14%	5%	5%	7%	4%	5%	6%
PG&E	Commercial	Health	Heating	New	23%	18%	14%	21%	17%	12%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Large Office	Heating	New	21%	16%	12%	20%	16%	11%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Lodging	Heating	New	14%	9%	5%	15%	11%	6%	3%	4%	5%	3%	4%	5%
PG&E	Commercial	Miscellaneous	Heating	New	25%	21%	16%	22%	17%	13%	5%	5%	7%	4%	5%	6%
PG&E	Commercial	Refrigerated Warehouse	Heating	New	22%	17%	12%	22%	17%	12%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Restaurant	Heating	New	33%	28%	24%	21%	17%	12%	6%	6%	8%	4%	5%	6%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold - full Savings relative to base year			Scenario: Big Bold - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
PG&E	Commercial	Retail	Heating	New	2%	-2%	-7%	18%	14%	9%	1%	2%	3%	4%	4%	6%
PG&E	Commercial	School	Heating	New	24%	20%	15%	22%	17%	12%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Small Office	Heating	New	23%	19%	14%	22%	18%	13%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	Unrefrigerated Warehouse	Heating	New	22%	17%	13%	21%	17%	12%	4%	5%	6%	4%	5%	6%
PG&E	Commercial	College	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Boilers	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	HVAC	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	New	41%	34%	21%	41%	34%	21%	26%	22%	13%	26%	22%	13%
SDG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	New	41%	34%	21%	41%	34%	21%	26%	22%	13%	26%	22%	13%
SDG&E	Residential	Multi Family	Water Heating	New	39%	32%	19%	36%	29%	19%	25%	22%	14%	25%	22%	14%
SDG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	New	39%	32%	19%	36%	29%	19%	25%	22%	14%	25%	22%	14%
SDG&E	Commercial	College	WaterHeat	New	20%	16%	12%	20%	15%	11%	3%	4%	6%	3%	4%	5%
SDG&E	Commercial	Food Store	WaterHeat	New	26%	22%	18%	23%	19%	15%	3%	5%	6%	3%	4%	6%
SDG&E	Commercial	Health	WaterHeat	New	20%	16%	12%	20%	16%	11%	3%	4%	5%	3%	4%	5%
SDG&E	Commercial	Large Office	WaterHeat	New	21%	16%	12%	19%	15%	10%	3%	4%	6%	3%	4%	5%
SDG&E	Commercial	Lodging	WaterHeat	New	20%	15%	11%	20%	15%	11%	3%	4%	5%	3%	4%	5%
SDG&E	Commercial	Miscellaneous	WaterHeat	New	22%	18%	14%	19%	15%	11%	3%	4%	6%	2%	4%	5%
SDG&E	Commercial	Refrigerated Warehouse	WaterHeat	New	20%	16%	11%	20%	16%	11%	2%	4%	5%	2%	4%	5%
SDG&E	Commercial	Restaurant	WaterHeat	New	35%	0%	0%	17%	13%	9%	5%	6%	7%	2%	3%	5%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold - full				Scenario: Big Bold - base				Scenario: Big Bold (C&S) - full				Scenario: Big Bold (C&S) - base			
					Savings relative to base year				Savings relative to base year				Savings relative to base year				Savings relative to base year			
					Year	2020			Year	2020			Year	2020			Year	2020		
					High	Expected	Low		High	Expected	Low		High	Expected	Low		High	Expected	Low	
					Savings	Savings	Savings		Savings	Savings	Savings		Savings	Savings	Savings		Savings	Savings	Savings	
SDG&E	Commercial	Retail	WaterHeat	New	15%	11%	7%		18%	13%	9%		2%	3%	5%		2%	3%	5%	
SDG&E	Commercial	School	WaterHeat	New	22%	18%	13%		20%	16%	11%		3%	4%	5%		2%	4%	5%	
SDG&E	Commercial	Small Office	WaterHeat	New	21%	17%	12%		20%	15%	11%		2%	4%	5%		2%	4%	5%	
SDG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	New	22%	17%	13%		20%	15%	11%		3%	4%	6%		3%	4%	5%	
SDG&E	Commercial	College	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Food Store	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Health	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Large Office	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Lodging	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Refrigerated Warehouse	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Restaurant	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Retail	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	School	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Small Office	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Unrefrigerated Warehouse	Misc	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	College	Heating	New	20%	16%	12%		20%	15%	11%		3%	4%	6%		3%	4%	5%	
SDG&E	Commercial	Food Store	Heating	New	26%	22%	18%		23%	19%	15%		3%	5%	6%		3%	4%	6%	
SDG&E	Commercial	Health	Heating	New	20%	16%	12%		20%	16%	11%		3%	4%	5%		3%	4%	5%	
SDG&E	Commercial	Large Office	Heating	New	21%	16%	12%		19%	15%	10%		3%	4%	6%		3%	4%	5%	
SDG&E	Commercial	Lodging	Heating	New	20%	15%	11%		20%	15%	11%		3%	4%	5%		3%	4%	5%	
SDG&E	Commercial	Miscellaneous	Heating	New	22%	18%	14%		19%	15%	11%		3%	4%	6%		2%	4%	5%	
SDG&E	Commercial	Refrigerated Warehouse	Heating	New	20%	16%	11%		20%	16%	11%		2%	4%	5%		2%	4%	5%	
SDG&E	Commercial	Restaurant	Heating	New	35%	0%	0%		17%	13%	9%		5%	6%	7%		2%	3%	5%	
SDG&E	Commercial	Retail	Heating	New	15%	11%	7%		18%	13%	9%		2%	3%	5%		2%	3%	5%	
SDG&E	Commercial	School	Heating	New	22%	18%	13%		20%	16%	11%		3%	4%	5%		2%	4%	5%	
SDG&E	Commercial	Small Office	Heating	New	21%	17%	12%		20%	15%	11%		2%	4%	5%		2%	4%	5%	
SDG&E	Commercial	Unrefrigerated Warehouse	Heating	New	22%	17%	13%		20%	15%	11%		3%	4%	6%		3%	4%	5%	
SDG&E	Commercial	College	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Food Store	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Health	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Large Office	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Lodging	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Miscellaneous	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Restaurant	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Retail	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	School	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Small Office	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	College	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Health	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Refrigerated Warehouse	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	School	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Small Office	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Industrial	Industrial	Boilers	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Industrial	Industrial	HVAC	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Industrial	Ag	Ag	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
SDG&E	Industrial	Construction	Construction	New	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold - full Savings relative to base year			Scenario: Big Bold - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SDG&E	Industrial	Mining	Mining	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	TCU	TCU	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Water Heating	New	40%	33%	21%	40%	33%	21%	25%	21%	13%	25%	21%	13%
SCG	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Space Heat	New	40%	33%	21%	40%	33%	21%	25%	21%	13%	25%	21%	13%
SCG	Residential	Multi Family	Water Heating	New	40%	33%	21%	40%	33%	21%	25%	22%	14%	25%	22%	14%
SCG	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Space Heat	New	40%	33%	21%	40%	33%	21%	25%	22%	14%	25%	22%	14%
SCG	Commercial	College	WaterHeat	New	20%	16%	11%	19%	15%	11%	3%	4%	5%	3%	4%	5%
SCG	Commercial	Food Store	WaterHeat	New	39%	34%	30%	30%	25%	21%	5%	6%	8%	4%	5%	7%
SCG	Commercial	Health	WaterHeat	New	21%	16%	12%	20%	16%	11%	2%	4%	5%	2%	4%	5%
SCG	Commercial	Large Office	WaterHeat	New	20%	16%	12%	19%	15%	10%	3%	4%	5%	3%	4%	5%
SCG	Commercial	Lodging	WaterHeat	New	20%	16%	11%	20%	16%	11%	2%	4%	5%	2%	4%	5%
SCG	Commercial	Miscellaneous	WaterHeat	New	43%	39%	34%	23%	18%	14%	6%	7%	9%	3%	4%	6%
SCG	Commercial	Refrigerated Warehouse	WaterHeat	New	20%	16%	11%	20%	16%	11%	2%	4%	5%	2%	4%	5%
SCG	Commercial	Restaurant	WaterHeat	New	41%	36%	32%	13%	9%	5%	5%	7%	8%	1%	3%	4%
SCG	Commercial	Retail	WaterHeat	New	-1%	-5%	-9%	14%	10%	6%	0%	1%	2%	2%	3%	4%
SCG	Commercial	School	WaterHeat	New	24%	20%	16%	21%	16%	12%	3%	4%	6%	2%	4%	5%
SCG	Commercial	Small Office	WaterHeat	New	24%	19%	15%	18%	14%	9%	3%	4%	6%	2%	3%	5%
SCG	Commercial	Unrefrigerated Warehouse	WaterHeat	New	23%	19%	15%	20%	15%	11%	3%	4%	6%	2%	4%	5%
SCG	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Heating	New	20%	16%	11%	19%	15%	11%	3%	4%	5%	3%	4%	5%
SCG	Commercial	Food Store	Heating	New	39%	34%	30%	30%	25%	21%	5%	6%	8%	4%	5%	7%
SCG	Commercial	Health	Heating	New	21%	16%	12%	20%	16%	11%	2%	4%	5%	2%	4%	5%
SCG	Commercial	Large Office	Heating	New	20%	16%	12%	19%	15%	10%	3%	4%	5%	3%	4%	5%
SCG	Commercial	Lodging	Heating	New	20%	16%	11%	20%	16%	11%	2%	4%	5%	2%	4%	5%
SCG	Commercial	Miscellaneous	Heating	New	43%	39%	34%	23%	18%	14%	6%	7%	9%	3%	4%	6%
SCG	Commercial	Refrigerated Warehouse	Heating	New	20%	16%	11%	20%	16%	11%	2%	4%	5%	2%	4%	5%
SCG	Commercial	Restaurant	Heating	New	41%	36%	32%	13%	9%	5%	5%	7%	8%	1%	3%	4%
SCG	Commercial	Retail	Heating	New	-1%	-5%	-9%	14%	10%	6%	0%	1%	2%	2%	3%	4%
SCG	Commercial	School	Heating	New	24%	20%	16%	21%	16%	12%	3%	4%	6%	2%	4%	5%
SCG	Commercial	Small Office	Heating	New	24%	19%	15%	18%	14%	9%	3%	4%	6%	2%	3%	5%
SCG	Commercial	Unrefrigerated Warehouse	Heating	New	23%	19%	15%	20%	15%	11%	3%	4%	6%	2%	4%	5%
SCG	Commercial	College	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: Big Bold - full Savings relative to base year			Scenario: Big Bold - base Savings relative to base year			Scenario: Big Bold (C&S) - full Savings relative to base year			Scenario: Big Bold (C&S) - base Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SCG	Commercial	Restaurant	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Boilers	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	HVAC	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Ag	0 New		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Construction	0 New		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Mining	0 New		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	TCU	0 New		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base			Scenario: C&S (society) - full Savings relative to base year		
					Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
PG&E	Residential	Single Family	Water Heating	Existing	9%	7%	5%	3%	2%	2%	8%	6%	3%
PG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	19%	19%	18%
PG&E	Residential	Single Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Space Heat	Existing	4%	3%	2%	3%	2%	2%	0%	0%	0%
PG&E	Residential	Multi Family	Water Heating	Existing	1%	1%	1%	1%	1%	1%	8%	6%	3%
PG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	19%	19%	18%
PG&E	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	Existing	4%	3%	2%	2%	2%	1%	0%	0%	0%
PG&E	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Heating	Existing	2%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	WaterHeat	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	College	Corn Cooking	Existing	1%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Misc	Existing	7%	6%	5%	7%	6%	5%	0%	0%	0%
PG&E	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Heating	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Health	WaterHeat	Existing	1%	1%	0%	1%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Heating	Existing	2%	1%	1%	1%	1%	0%	0%	0%	0%
PG&E	Commercial	Large Office	WaterHeat	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Large Office	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Heating	Existing	2%	2%	2%	1%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	WaterHeat	Existing	2%	2%	1%	2%	1%	1%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	WaterHeat	Existing	2%	2%	2%	2%	2%	1%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	WaterHeat	Existing	1%	1%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base			Scenario: C&S (society) - full		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
PG&E	Commercial	School	Cooling	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Heating	Existing		1%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	WaterHeat	Existing		1%	1%	1%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Corn Cooking	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Heating	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	Existing		1%	1%	1%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Corn Cooking	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Misc	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Cooling	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Heating	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing		1%	1%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Corn Cooking	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Misc	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Boilers	Existing		14%	12%	10%	7%	6%	6%	0%	0%
PG&E	Industrial	Industrial	HVAC	Existing		5%	5%	4%	1%	1%	1%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	Existing		8%	7%	6%	2%	2%	2%	0%	0%
PG&E	Industrial	Industrial	Ind Feedstocks	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction		0 Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 Existing		0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	Existing		13%	10%	8%	5%	4%	3%	8%	6%
SDG&E	Residential	Single Family	Clothes Dryer	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	Existing		0%	0%	0%	0%	0%	0%	19%	19%
SDG&E	Residential	Single Family	Pool Heating	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Spa	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	Existing		8%	6%	5%	6%	5%	3%	0%	0%
SDG&E	Residential	Multi Family	Water Heating	Existing		3%	3%	2%	1%	1%	1%	8%	6%
SDG&E	Residential	Multi Family	Clothes Dryer	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	Existing		0%	0%	0%	0%	0%	0%	19%	19%
SDG&E	Residential	Multi Family	Pool Heating	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Spa	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	Existing		2%	2%	1%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Cooling	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Heating	Existing		1%	1%	1%	1%	1%	1%	0%	0%
SDG&E	Commercial	College	WaterHeat	Existing		1%	1%	1%	1%	1%	1%	0%	0%
SDG&E	Commercial	College	Corn Cooking	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Misc	Existing		2%	1%	1%	2%	1%	1%	0%	0%
SDG&E	Commercial	Food Store	Cooling	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Heating	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Corn Cooking	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Misc	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Heating	Existing		4%	4%	3%	4%	3%	2%	0%	0%
SDG&E	Commercial	Health	WaterHeat	Existing		1%	1%	1%	1%	1%	1%	0%	0%
SDG&E	Commercial	Health	Corn Cooking	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Misc	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Heating	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	WaterHeat	Existing		2%	2%	1%	2%	1%	1%	0%	0%
SDG&E	Commercial	Large Office	Corn Cooking	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Misc	Existing		0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	Existing		0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year		
					Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SDG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Misc	Existing	2%	1%	1%	2%	1%	1%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	WaterHeat	Existing	8%	6%	5%	4%	4%	3%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Com Cooking	Existing	1%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	WaterHeat	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Com Cooking	Existing	1%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	WaterHeat	Existing	1%	1%	1%	1%	1%	1%	0%	0%	0%
SDG&E	Commercial	Restaurant	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	WaterHeat	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%
SDG&E	Commercial	Retail	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	WaterHeat	Existing	5%	4%	3%	3%	3%	2%	0%	0%	0%
SDG&E	Commercial	School	Com Cooking	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	WaterHeat	Existing	3%	2%	2%	1%	1%	1%	0%	0%	0%
SDG&E	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	7%	6%	5%	5%	4%	3%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Boilers	Existing	13%	11%	9%	7%	6%	5%	0%	0%	0%
SDG&E	Industrial	Industrial	HVAC	Existing	5%	4%	3%	1%	1%	1%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Heat	Existing	6%	5%	4%	1%	1%	1%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Ag	Ag	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Construction	Construction	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Mining	Mining	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	TCU	TCU	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Water Heating	Existing	3%	2%	2%	1%	1%	1%	8%	6%	3%
SCG	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	19%	19%	18%
SCG	Residential	Single Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Space Heat	Existing	5%	4%	3%	3%	2%	2%	0%	0%	0%
SCG	Residential	Multi Family	Water Heating	Existing	5%	4%	3%	4%	3%	3%	8%	6%	3%
SCG	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Cooking	Existing	0%	0%	0%	0%	0%	0%	19%	19%	18%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
SCG	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Space Heat	Existing	7%	5%	4%	2%	1%	1%	0%	0%	0%
SCG	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	WaterHeat	Existing	3%	3%	2%	3%	2%	2%	0%	0%	0%
SCG	Commercial	College	Com Cooking	Existing	21%	18%	14%	15%	12%	10%	0%	0%	0%
SCG	Commercial	College	Misc	Existing	2%	2%	1%	2%	2%	1%	0%	0%	0%
SCG	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Com Cooking	Existing	3%	3%	2%	2%	2%	2%	0%	0%	0%
SCG	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Heating	Existing	1%	1%	0%	1%	1%	0%	0%	0%	0%
SCG	Commercial	Health	WaterHeat	Existing	3%	3%	2%	2%	2%	2%	0%	0%	0%
SCG	Commercial	Health	Com Cooking	Existing	8%	6%	5%	7%	6%	4%	0%	0%	0%
SCG	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	WaterHeat	Existing	6%	5%	4%	5%	4%	3%	0%	0%	0%
SCG	Commercial	Large Office	Com Cooking	Existing	6%	5%	4%	4%	4%	3%	0%	0%	0%
SCG	Commercial	Large Office	Misc	Existing	2%	1%	1%	2%	1%	1%	0%	0%	0%
SCG	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	WaterHeat	Existing	2%	2%	1%	2%	1%	1%	0%	0%	0%
SCG	Commercial	Lodging	Com Cooking	Existing	12%	10%	8%	10%	8%	7%	0%	0%	0%
SCG	Commercial	Lodging	Misc	Existing	6%	5%	4%	6%	5%	4%	0%	0%	0%
SCG	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	WaterHeat	Existing	8%	7%	6%	7%	6%	5%	0%	0%	0%
SCG	Commercial	Miscellaneous	Com Cooking	Existing	16%	14%	11%	14%	11%	9%	0%	0%	0%
SCG	Commercial	Miscellaneous	Misc	Existing	1%	0%	0%	1%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	WaterHeat	Existing	10%	9%	7%	9%	8%	6%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Com Cooking	Existing	5%	4%	3%	5%	4%	3%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	WaterHeat	Existing	1%	1%	0%	1%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Com Cooking	Existing	3%	2%	2%	2%	2%	1%	0%	0%	0%
SCG	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	WaterHeat	Existing	2%	2%	1%	1%	1%	1%	0%	0%	0%
SCG	Commercial	Retail	Com Cooking	Existing	2%	2%	2%	2%	1%	1%	0%	0%	0%
SCG	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	WaterHeat	Existing	3%	3%	2%	3%	2%	2%	0%	0%	0%
SCG	Commercial	School	Com Cooking	Existing	16%	13%	10%	12%	10%	8%	0%	0%	0%
SCG	Commercial	School	Misc	Existing	60%	50%	40%	59%	49%	40%	0%	0%	0%
SCG	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	WaterHeat	Existing	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Com Cooking	Existing	8%	7%	5%	8%	6%	5%	0%	0%	0%
SCG	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
SCG	Commercial	Unrefrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	16%	14%	11%	13%	11%	8%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Boilers	Existing	11%	9%	8%	6%	5%	4%	0%	0%	0%
SCG	Industrial	Industrial	HVAC	Existing	5%	4%	3%	1%	1%	0%	0%	0%	0%
SCG	Industrial	Industrial	Proc Heat	Existing	6%	5%	4%	1%	1%	1%	0%	0%	0%
SCG	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Ag		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Water Heating	New	1%	1%	1%	1%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Space Heat	New	1%	1%	1%	1%	0%	0%	16%	12%	8%
PG&E	Residential	Multi Family	Water Heating	New	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	New	1%	1%	1%	0%	0%	0%	15%	11%	7%
PG&E	Commercial	College	WaterHeat	New	1%	1%	0%	1%	1%	0%	0%	0%	0%
PG&E	Commercial	Food Store	WaterHeat	New	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	WaterHeat	New	1%	1%	1%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Miscellaneous	WaterHeat	New	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	WaterHeat	New	-1%	-2%	-2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	WaterHeat	New	3%	3%	2%	1%	0%	0%	0%	0%	0%
PG&E	Commercial	School	WaterHeat	New	0%	0%	-1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Heating	New	1%	1%	0%	1%	1%	0%	17%	12%	6%
PG&E	Commercial	Food Store	Heating	New	0%	-1%	-1%	0%	0%	0%	18%	12%	6%
PG&E	Commercial	Health	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
PG&E	Commercial	Large Office	Heating	New	0%	0%	0%	0%	0%	0%	17%	12%	6%
PG&E	Commercial	Lodging	Heating	New	1%	1%	1%	1%	1%	1%	18%	12%	6%
PG&E	Commercial	Miscellaneous	Heating	New	0%	-1%	-1%	0%	0%	0%	18%	12%	6%
PG&E	Commercial	Refrigerated Warehouse	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
PG&E	Commercial	Restaurant	Heating	New	-1%	-2%	-2%	0%	0%	0%	18%	12%	6%

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Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
					High	Expected	Low	High	Expected	Low	High	Expected	Low
PG&E	Commercial	Retail	Heating	New	3%	3%	2%	1%	0%	0%	18%	12%	6%
PG&E	Commercial	School	Heating	New	0%	0%	-1%	0%	0%	0%	18%	12%	6%
PG&E	Commercial	Small Office	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
PG&E	Commercial	Unrefrigerated Warehouse	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
PG&E	Commercial	College	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Boilers	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	HVAC	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag	0 New	0	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction	0 New	0	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining	0 New	0	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU	0 New	0	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	New	0%	0%	0%	0%	0%	0%	15%	12%	8%
SDG&E	Residential	Multi Family	Water Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	New	0%	0%	0%	0%	0%	0%	15%	11%	7%
SDG&E	Commercial	College	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	New	-1%	-1%	-1%	0%	0%	-1%	0%	0%	0%
SDG&E	Commercial	Health	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	WaterHeat	New	-2%	-2%	-3%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
					High	Expected	Low	High	Expected	Low	High	Expected	Low
SDG&E	Commercial	Retail	WaterHeat	New	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Heating	New	0%	0%	0%	0%	0%	0%	17%	11%	6%
SDG&E	Commercial	Food Store	Heating	New	-1%	-1%	-1%	0%	0%	-1%	17%	12%	6%
SDG&E	Commercial	Health	Heating	New	0%	0%	0%	0%	0%	0%	17%	12%	6%
SDG&E	Commercial	Large Office	Heating	New	0%	0%	0%	0%	0%	0%	17%	12%	6%
SDG&E	Commercial	Lodging	Heating	New	0%	0%	0%	0%	0%	0%	17%	12%	6%
SDG&E	Commercial	Miscellaneous	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
SDG&E	Commercial	Refrigerated Warehouse	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
SDG&E	Commercial	Restaurant	Heating	New	-2%	-2%	-3%	0%	0%	0%	17%	12%	6%
SDG&E	Commercial	Retail	Heating	New	1%	1%	1%	0%	0%	0%	18%	12%	6%
SDG&E	Commercial	School	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
SDG&E	Commercial	Small Office	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
SDG&E	Commercial	Unrefrigerated Warehouse	Heating	New	0%	0%	0%	0%	0%	0%	17%	12%	6%
SDG&E	Commercial	College	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Boilers	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	HVAC	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Ag	Ag	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Construction	Construction	New	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
SDG&E	Industrial	Mining	Mining	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	TCU	TCU	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Water Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Space Heat	New	0%	0%	0%	0%	0%	0%	15%	12%	8%
SCG	Residential	Multi Family	Water Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Space Heat	New	0%	0%	0%	0%	0%	0%	15%	11%	7%
SCG	Commercial	College	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	WaterHeat	New	-2%	-3%	-3%	-1%	-1%	-2%	0%	0%	0%
SCG	Commercial	Health	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	WaterHeat	New	-2%	-3%	-4%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	WaterHeat	New	-2%	-3%	-4%	1%	1%	1%	0%	0%	0%
SCG	Commercial	Retail	WaterHeat	New	4%	3%	2%	1%	1%	1%	0%	0%	0%
SCG	Commercial	School	WaterHeat	New	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	WaterHeat	New	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	WaterHeat	New	0%	0%	-1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Heating	New	0%	0%	0%	0%	0%	0%	17%	12%	6%
SCG	Commercial	Food Store	Heating	New	-2%	-3%	-3%	-1%	-1%	-2%	18%	12%	6%
SCG	Commercial	Health	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
SCG	Commercial	Large Office	Heating	New	0%	0%	0%	0%	0%	0%	17%	12%	6%
SCG	Commercial	Lodging	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
SCG	Commercial	Miscellaneous	Heating	New	-2%	-3%	-4%	0%	0%	0%	18%	12%	6%
SCG	Commercial	Refrigerated Warehouse	Heating	New	0%	0%	0%	0%	0%	0%	18%	12%	6%
SCG	Commercial	Restaurant	Heating	New	-2%	-3%	-4%	1%	1%	1%	18%	12%	6%
SCG	Commercial	Retail	Heating	New	4%	3%	2%	1%	1%	1%	18%	12%	6%
SCG	Commercial	School	Heating	New	0%	-1%	-1%	0%	0%	0%	18%	12%	6%
SCG	Commercial	Small Office	Heating	New	0%	-1%	-1%	0%	0%	0%	18%	12%	6%
SCG	Commercial	Unrefrigerated Warehouse	Heating	New	0%	0%	-1%	0%	0%	0%	18%	12%	6%
SCG	Commercial	College	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (IOU) - full Savings relative to base year			Scenario: C&S (IOU) - base Savings relative to base year			Scenario: C&S (society) - full Savings relative to base year		
					Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SCG	Commercial	Restaurant	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Boilers	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	HVAC	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Ag		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Construction		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Mining		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	TCU		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (society) - base				Scenario: C&S (IOU,CC) - full				Scenario: C&S (IOU,CC) - base				Scenario: Naturally-occurring			
					Savings relative to base year				Savings relative to base year				Savings relative to base year				Savings relative to base year			
					Year High	2020 Expected Savings	Low Savings		Year High	2020 Expected Savings	Low Savings		Year High	2020 Expected Savings	Low Savings		Year High	2020 Expected Savings	Low Savings	
PG&E	Residential	Single Family	Water Heating	Existing	8%	6%	3%		9%	7%	5%		3%	2%	2%		2%	2%	2%	
PG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Residential	Single Family	Other	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Residential	Single Family	Cooking	Existing	19%	19%	18%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Residential	Single Family	Pool Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Residential	Single Family	Spa	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Residential	Single Family	Space Heat	Existing	0%	0%	0%		4%	3%	2%		3%	2%	2%		1%	1%	1%	
PG&E	Residential	Multi Family	Water Heating	Existing	8%	6%	3%		1%	1%	1%		1%	1%	1%		1%	1%	0%	
PG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Residential	Multi Family	Other	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Residential	Multi Family	Cooking	Existing	19%	19%	18%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Residential	Multi Family	Spa	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Residential	Multi Family	Space Heat	Existing	0%	0%	0%		4%	3%	2%		2%	2%	1%		0%	0%	0%	
PG&E	Commercial	College	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	College	Heating	Existing	0%	0%	0%		2%	1%	1%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	College	WaterHeat	Existing	0%	0%	0%		1%	1%	1%		1%	1%	1%		1%	1%	0%	
PG&E	Commercial	College	Corn Cooking	Existing	0%	0%	0%		1%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	College	Misc	Existing	0%	0%	0%		7%	6%	5%		7%	6%	5%		5%	5%	4%	
PG&E	Commercial	Food Store	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Food Store	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Food Store	Corn Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Health	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Health	Heating	Existing	0%	0%	0%		2%	2%	1%		1%	1%	1%		1%	0%	0%	
PG&E	Commercial	Health	WaterHeat	Existing	0%	0%	0%		1%	1%	0%		1%	0%	0%		1%	0%	0%	
PG&E	Commercial	Health	Corn Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Health	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Large Office	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Large Office	Heating	Existing	0%	0%	0%		2%	1%	1%		1%	1%	0%		0%	0%	0%	
PG&E	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%		1%	1%	1%		1%	1%	1%		1%	1%	1%	
PG&E	Commercial	Large Office	Corn Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Lodging	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%		2%	2%	2%		1%	0%	0%		0%	0%	0%	
PG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Lodging	Corn Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%		2%	2%	1%		2%	1%	1%		1%	1%	1%	
PG&E	Commercial	Miscellaneous	Corn Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Refrigerated Warehouse	WaterHeat	Existing	0%	0%	0%		2%	2%	2%		2%	2%	1%		2%	2%	1%	
PG&E	Commercial	Refrigerated Warehouse	Corn Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Restaurant	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Restaurant	Corn Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Retail	Cooling	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Retail	Heating	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Retail	WaterHeat	Existing	0%	0%	0%		1%	1%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Retail	Corn Cooking	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	
PG&E	Commercial	Retail	Misc	Existing	0%	0%	0%		0%	0%	0%		0%	0%	0%		0%	0%	0%	

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (society) - base Savings relative to base year			Scenario: C&S (IOU,CC) - full Savings relative to base year			Scenario: C&S (IOU,CC) - base Savings relative to base year			Scenario: Naturally-occurring Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
PG&E	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Heating	Existing	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	WaterHeat	Existing	0%	0%	0%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	0%	0%	0%	1%	1%	1%	1%	1%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Boilers	Existing	0%	0%	0%	14%	12%	10%	7%	6%	6%	5%	4%	3%
PG&E	Industrial	Industrial	HVAC	Existing	0%	0%	0%	5%	5%	4%	1%	1%	1%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	Existing	0%	0%	0%	8%	7%	6%	2%	2%	2%	1%	1%	1%
PG&E	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	Existing	8%	6%	3%	13%	10%	8%	5%	4%	3%	5%	4%	3%
SDG&E	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	Existing	19%	19%	18%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	Existing	0%	0%	0%	8%	6%	5%	6%	5%	3%	3%	2%	2%
SDG&E	Residential	Multi Family	Water Heating	Existing	8%	6%	3%	3%	3%	2%	1%	1%	1%	1%	0%	0%
SDG&E	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	Existing	19%	19%	18%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	Existing	0%	0%	0%	2%	2%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Heating	Existing	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	0%	0%
SDG&E	Commercial	College	WaterHeat	Existing	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%	0%
SDG&E	Commercial	College	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Misc	Existing	0%	0%	0%	2%	1%	1%	2%	1%	1%	1%	1%	1%
SDG&E	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Heating	Existing	0%	0%	0%	4%	4%	3%	4%	3%	2%	2%	2%	1%
SDG&E	Commercial	Health	WaterHeat	Existing	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Health	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	2%	2%	1%	2%	1%	1%	2%	1%	1%
SDG&E	Commercial	Large Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (society) - base Savings relative to base year			Scenario: C&S (IOU,CC) - full Savings relative to base year			Scenario: C&S (IOU,CC) - base Savings relative to base year			Scenario: Naturally-occurring Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SDG&E	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Misc	Existing	0%	0%	0%	2%	1%	1%	2%	1%	1%	1%	1%	1%
SDG&E	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	8%	6%	5%	4%	4%	3%	3%	2%	2%
SDG&E	Commercial	Miscellaneous	Com Cooking	Existing	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	WaterHeat	Existing	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Refrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%	1%
SDG&E	Commercial	Restaurant	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	2%	2%	1%	1%	1%	1%	0%	0%	0%
SDG&E	Commercial	Retail	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	WaterHeat	Existing	0%	0%	0%	5%	4%	3%	3%	3%	2%	2%	1%	1%
SDG&E	Commercial	School	Com Cooking	Existing	0%	0%	0%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	3%	2%	2%	1%	1%	1%	0%	0%	0%
SDG&E	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	0%	0%	0%	7%	6%	5%	5%	4%	3%	3%	3%	2%
SDG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Boilers	Existing	0%	0%	0%	13%	11%	9%	7%	6%	5%	4%	4%	3%
SDG&E	Industrial	Industrial	HVAC	Existing	0%	0%	0%	5%	4%	3%	1%	1%	1%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Heat	Existing	0%	0%	0%	6%	5%	4%	1%	1%	1%	1%	0%	0%
SDG&E	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Ag	Ag	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Construction	Construction	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Mining	Mining	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	TCU	TCU	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Water Heating	Existing	8%	6%	3%	3%	2%	2%	1%	1%	1%	1%	1%	1%
SCG	Residential	Single Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Cooking	Existing	19%	19%	18%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Space Heat	Existing	0%	0%	0%	5%	4%	3%	3%	2%	2%	1%	1%	1%
SCG	Residential	Multi Family	Water Heating	Existing	8%	6%	3%	5%	4%	3%	4%	3%	3%	2%	2%	2%
SCG	Residential	Multi Family	Clothes Dryer	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Cooking	Existing	19%	19%	18%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (society) - base Savings relative to base year			Scenario: C&S (IOU,CC) - full Savings relative to base year			Scenario: C&S (IOU,CC) - base Savings relative to base year			Scenario: Naturally-occurring Savings relative to base year		
					High	2020		High	2020		High	2020		High	2020	
						Savings	Expected Savings		Savings	Expected Savings		Savings	Expected Savings		Savings	Expected Savings
SCG	Residential	Multi Family	Pool Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Spa	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Space Heat	Existing	0%	0%	0%	7%	5%	4%	2%	1%	1%	1%	1%	0%
SCG	Commercial	College	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	WaterHeat	Existing	0%	0%	0%	3%	3%	2%	3%	2%	2%	3%	2%	2%
SCG	Commercial	College	Com Cooking	Existing	0%	0%	0%	21%	18%	14%	15%	12%	10%	9%	7%	6%
SCG	Commercial	College	Misc	Existing	0%	0%	0%	2%	2%	1%	2%	2%	1%	2%	1%	1%
SCG	Commercial	Food Store	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	WaterHeat	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Com Cooking	Existing	0%	0%	0%	3%	3%	2%	2%	2%	2%	1%	1%	1%
SCG	Commercial	Food Store	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Heating	Existing	0%	0%	0%	1%	1%	0%	1%	1%	0%	0%	0%	0%
SCG	Commercial	Health	WaterHeat	Existing	0%	0%	0%	3%	3%	2%	2%	2%	2%	2%	2%	2%
SCG	Commercial	Health	Com Cooking	Existing	0%	0%	0%	8%	6%	5%	7%	6%	4%	4%	4%	3%
SCG	Commercial	Health	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	WaterHeat	Existing	0%	0%	0%	6%	5%	4%	5%	4%	3%	5%	4%	3%
SCG	Commercial	Large Office	Com Cooking	Existing	0%	0%	0%	6%	5%	4%	4%	4%	3%	3%	2%	2%
SCG	Commercial	Large Office	Misc	Existing	0%	0%	0%	2%	1%	1%	2%	1%	1%	1%	1%	1%
SCG	Commercial	Lodging	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	WaterHeat	Existing	0%	0%	0%	2%	2%	1%	2%	1%	1%	2%	1%	1%
SCG	Commercial	Lodging	Com Cooking	Existing	0%	0%	0%	12%	10%	8%	10%	8%	7%	7%	5%	4%
SCG	Commercial	Lodging	Misc	Existing	0%	0%	0%	6%	5%	4%	6%	5%	4%	5%	4%	3%
SCG	Commercial	Miscellaneous	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	WaterHeat	Existing	0%	0%	0%	8%	7%	6%	7%	6%	5%	7%	5%	4%
SCG	Commercial	Miscellaneous	Com Cooking	Existing	0%	0%	0%	16%	14%	11%	14%	11%	9%	9%	7%	6%
SCG	Commercial	Miscellaneous	Misc	Existing	0%	0%	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	WaterHeat	Existing	0%	0%	0%	10%	9%	7%	9%	8%	6%	8%	7%	6%
SCG	Commercial	Refrigerated Warehouse	Com Cooking	Existing	0%	0%	0%	5%	4%	3%	5%	4%	3%	3%	3%	2%
SCG	Commercial	Refrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	WaterHeat	Existing	0%	0%	0%	1%	1%	0%	1%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Com Cooking	Existing	0%	0%	0%	3%	2%	2%	2%	2%	1%	1%	1%	1%
SCG	Commercial	Restaurant	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	WaterHeat	Existing	0%	0%	0%	2%	2%	1%	1%	1%	1%	1%	1%	0%
SCG	Commercial	Retail	Com Cooking	Existing	0%	0%	0%	2%	2%	2%	2%	1%	1%	1%	1%	1%
SCG	Commercial	Retail	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	WaterHeat	Existing	0%	0%	0%	3%	3%	2%	3%	2%	2%	2%	2%	1%
SCG	Commercial	School	Com Cooking	Existing	0%	0%	0%	16%	13%	10%	12%	10%	8%	8%	6%	5%
SCG	Commercial	School	Misc	Existing	0%	0%	0%	60%	50%	40%	59%	49%	40%	50%	42%	33%
SCG	Commercial	Small Office	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	WaterHeat	Existing	0%	0%	0%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Com Cooking	Existing	0%	0%	0%	8%	7%	5%	8%	6%	5%	5%	4%	3%
SCG	Commercial	Small Office	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Cooling	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (society) - base Savings relative to base year			Scenario: C&S (IOU,CC) - full Savings relative to base year			Scenario: C&S (IOU,CC) - base Savings relative to base year			Scenario: Naturally-occurring Savings relative to base year		
					High	2020		High	2020		High	2020		High	2020	
						Savings	Expected Savings		Savings	Expected Savings		Savings	Expected Savings		Savings	Expected Savings
SCG	Commercial	Unrefrigerated Warehouse	Heating	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	WaterHeat	Existing	0%	0%	0%	16%	14%	11%	13%	11%	8%	10%	8%	6%
SCG	Commercial	Unrefrigerated Warehouse	Corn Cooking	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Misc	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Boilers	Existing	0%	0%	0%	11%	9%	8%	6%	5%	4%	4%	3%	3%
SCG	Industrial	Industrial	HVAC	Existing	0%	0%	0%	5%	4%	3%	1%	1%	0%	0%	0%	0%
SCG	Industrial	Industrial	Proc Heat	Existing	0%	0%	0%	6%	5%	4%	1%	1%	1%	0%	0%	0%
SCG	Industrial	Industrial	Ind Feedstocks	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Other	Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Ag		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Construction		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Mining		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	TCU		0 Existing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Water Heating	New	0%	0%	0%	1%	1%	1%	1%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Single Family	Space Heat	New	16%	12%	8%	2%	2%	2%	1%	1%	1%	0%	0%	0%
PG&E	Residential	Multi Family	Water Heating	New	0%	0%	0%	1%	1%	1%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Residential	Multi Family	Space Heat	New	15%	11%	7%	1%	1%	1%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	College	WaterHeat	New	0%	0%	0%	1%	1%	0%	1%	1%	0%	0%	0%	0%
PG&E	Commercial	Food Store	WaterHeat	New	0%	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	WaterHeat	New	0%	0%	0%	1%	1%	1%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Miscellaneous	WaterHeat	New	0%	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	WaterHeat	New	0%	0%	0%	-1%	-2%	-2%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	WaterHeat	New	0%	0%	0%	3%	3%	2%	1%	0%	0%	0%	0%	0%
PG&E	Commercial	School	WaterHeat	New	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Heating	New	17%	12%	6%	1%	1%	0%	1%	1%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Heating	New	18%	12%	6%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Heating	New	17%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Heating	New	18%	12%	6%	1%	1%	1%	1%	1%	1%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Heating	New	18%	12%	6%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Heating	New	18%	12%	6%	-1%	-2%	-2%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (society) - base Savings relative to base year			Scenario: C&S (IOU,CC) - full Savings relative to base year			Scenario: C&S (IOU,CC) - base Savings relative to base year			Scenario: Naturally-occurring Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
PG&E	Commercial	Retail	Heating	New	18%	12%	6%	3%	3%	2%	1%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Heating	New	18%	12%	6%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Refrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Boilers	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	HVAC	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Ag		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Construction		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	Mining		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PG&E	Industrial	TCU		0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Water Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Single Family	Space Heat	New	15%	12%	8%	1%	1%	0%	1%	1%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Water Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Residential	Multi Family	Space Heat	New	15%	11%	7%	1%	1%	0%	1%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	WaterHeat	New	0%	0%	0%	-1%	-1%	-1%	0%	0%	-1%	0%	0%	0%
SDG&E	Commercial	Health	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	WaterHeat	New	0%	0%	0%	-2%	-2%	-3%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (society) - base Savings relative to base year			Scenario: C&S (IOU,CC) - full Savings relative to base year			Scenario: C&S (IOU,CC) - base Savings relative to base year			Scenario: Naturally-occurring Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SDG&E	Commercial	Retail	WaterHeat	New	0%	0%	0%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Heating	New	17%	11%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Heating	New	17%	12%	6%	-1%	-1%	-1%	0%	0%	-1%	0%	0%	0%
SDG&E	Commercial	Health	Heating	New	17%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Heating	New	17%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Heating	New	17%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Heating	New	17%	12%	6%	-2%	-2%	-3%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Heating	New	18%	12%	6%	1%	1%	1%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Heating	New	17%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	College	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Food Store	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Health	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Large Office	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Lodging	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Miscellaneous	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Refrigerated Warehouse	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Restaurant	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Retail	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	School	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Small Office	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Commercial	Unrefrigerated Warehouse	Corn Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Boilers	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	HVAC	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Ag	Ag	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	Construction	Construction	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (society) - base Savings relative to base year			Scenario: C&S (IOU,CC) - full Savings relative to base year			Scenario: C&S (IOU,CC) - base Savings relative to base year			Scenario: Naturally-occurring Savings relative to base year		
					Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings	Year High	2020 Expected Savings	Low Savings
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SDG&E	Industrial	Mining	Mining	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SDG&E	Industrial	TCU	TCU	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Water Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Single Family	Space Heat	New	15%	12%	8%	1%	1%	0%	1%	1%	0%	0%	0%	0%
SCG	Residential	Multi Family	Water Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Clothes Dryer	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Pool Heating	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Spa	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Residential	Multi Family	Space Heat	New	15%	11%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	WaterHeat	New	0%	0%	0%	-2%	-3%	-3%	-1%	-1%	-2%	0%	0%	0%
SCG	Commercial	Health	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	WaterHeat	New	0%	0%	0%	-2%	-3%	-4%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	WaterHeat	New	0%	0%	0%	-2%	-3%	-4%	1%	1%	1%	0%	0%	0%
SCG	Commercial	Retail	WaterHeat	New	0%	0%	0%	4%	3%	2%	1%	1%	1%	0%	0%	0%
SCG	Commercial	School	WaterHeat	New	0%	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	WaterHeat	New	0%	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	WaterHeat	New	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Misc	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Heating	New	17%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Heating	New	18%	12%	6%	-2%	-3%	-3%	-1%	-1%	-2%	0%	0%	0%
SCG	Commercial	Health	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Heating	New	17%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Heating	New	18%	12%	6%	-2%	-3%	-4%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Heating	New	18%	12%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Heating	New	18%	12%	6%	-2%	-3%	-4%	1%	1%	1%	0%	0%	0%
SCG	Commercial	Retail	Heating	New	18%	12%	6%	4%	3%	2%	1%	1%	1%	0%	0%	0%
SCG	Commercial	School	Heating	New	18%	12%	6%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Heating	New	18%	12%	6%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Heating	New	18%	12%	6%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

CPUC Goals Update Study – Appendix H

Utility_Name	Sector_Name	Bld_Name	End_Use_Name	Vintage_Nr	Scenario: C&S (society) - base Savings relative to base year			Scenario: C&S (IOU,CC) - full Savings relative to base year			Scenario: C&S (IOU,CC) - base Savings relative to base year			Scenario: Naturally-occurring Savings relative to base year		
					Year	2020		Year	2020		Year	2020		Year	2020	
					High	Expected	Low	High	Expected	Low	High	Expected	Low	High	Expected	Low
					Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings	Savings
SCG	Commercial	Restaurant	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Cooling	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	College	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Food Store	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Health	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Large Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Lodging	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Miscellaneous	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Refrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Restaurant	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Retail	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	School	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Small Office	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Commercial	Unrefrigerated Warehouse	Com Cooking	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Boilers	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	HVAC	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Proc Heat	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Feedstocks	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Industrial	Ind Other	New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Ag	0 New	0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Construction	0 New	0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	Mining	0 New	0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCG	Industrial	TCU	0 New	0 New	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%