

DOCKETED

Docket Number:	23-IEPR-03
Project Title:	Electricity and Gas Demand Forecast
TN #:	250232
Document Title:	SDG&E 2022 California Gas Report Redacted Workpapers
Description:	N/A
Filer:	Adam Jorge
Organization:	SDG&E
Submitter Role:	Public
Submission Date:	5/19/2023 4:49:19 PM
Docketed Date:	5/19/2023

2022 California Gas Report Workpapers

Prepared by



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2022 CALIFORNIA GAS REPORT

HISTORICAL DATA



SAN DIEGO GAS & ELECTRIC COMPANY
ANNUAL GAS SUPPLY AND SENDOUT (MMCF/DAY) RECORDED YEARS 2017-2021

Actual Deliveries by End-Use		2017	2018	2019	2020	2021
CORE	Residential	72	70	81	81	78
	Commercial	52	54	57	50	52
	Industrial	-	-	-	-	-
	<i>Subtotal - CORE</i>	124	124	138	131	130
NONCORE	Commercial	-	-	-	-	-
	Industrial	11	12	13	13	15
	Non-EOR Cogen/EG	71	51	43	84	77
	Electric Utilities	92	49	33	41	36
	<i>Subtotal - NONCORE</i>	174	112	89	138	128
WHOLESALE	All End Uses	-	-	-	-	-
	<i>Subtotal - Co Use & LUAF</i>	1	3	4	8	7
SYSTEM TOTAL THROUGHPUT		299	239	230	277	265
Actual Transport & Exchange						
CORE	Residential	1	1	1	1	-
	Commercial	13	14	14	12	11
NONCORE	Industrial	11	12	13	13	15
	Non-EOR Cogen/EG	71	51	43	84	77
	Electric Utilities	92	49	33	41	36
	<i>Subtotal - RETAIL</i>	188	127	103	151	139
WHOLESALE	All End Uses	-	-	-	-	-
TOTAL TRANSPORT & EXCHANGE		188	127	103	151	139
Storage						
	<i>Storage Injection</i>	-	-	-	-	-
	<i>Storage Withdrawal</i>	-	-	-	-	-
Actual Curtailment						
	Residential	-	-	-	-	-
	Com/Indl & Cogen	-	-	-	-	-
	Electric Generation	-	-	-	-	-
TOTAL CURTAILMENT		-	-	-	-	-
REFUSAL		-	-	-	-	-
ACTUAL DELIVERIES BY END-USE includes sales and transportation volumes						
	MMbtu/Mcf:	1.040	1.038	1.032	1.025	1.030

SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY TAKEN (MMCF/DAY) RECORDED YEARS 2017 -2021

LINE	2017	2018	2019	2020	2021	
CAPACITY AVAILABLE						
1	California Sources					
	Out of State gas					
2	California Offshore (POPCO/PIOC)					
3	El Paso Natural Gas Company					
4	Transwestern Pipeline company					
5	Kern River/Mojave Pipeline Company					
6	TransCanada GTN/PG&E					
7	Other					
8	TOTAL Output of State					
9	Underground storage withdrawal					
10	TOTAL Gas Supply available					
Gas Supply Taken						
	2017	2018	2019	2020	2021	
California Source Gas						
11	0	0	0	0	0	
12	0	0	0	0	0	
13	Total California Source Gas	0	0	0	0	
14	Purchases from Other Utilities	0	0	0	0	
Out-of-State Gas						
15	0	0	0	0	0	
16	0	0	0	0	0	
17	111	112	128	126	126	
18	188	127	103	151	139	
19	Total Out-of-State Gas	299	239	230	277	265
20	TOTAL Gas Supply Taken & Transported	299	239	230	277	265

2022 CALIFORNIA GAS REPORT

FORECAST OF REQUIREMENTS - SUMMARY



2022 CALIFORNIA GAS REPORT

AVERAGE TEMPERATURE YEAR



TABLE 1-SDGE

SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED YEARS 2022 THRU 2026

AVERAGE TEMPERATURE YEAR

LINE		2022	2023	2024	2025	2026	LINE
CAPACITY AVAILABLE ^{1/ & 2/}							
1	California Source Gas	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	3
GAS SUPPLY TAKEN							
4	California Source Gas	0	0	0	0	0	4
5	Southern Zone of SoCalGas	253	241	227	219	218	5
6	TOTAL SUPPLY TAKEN	253	241	227	219	218	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	7
8	TOTAL THROUGHPUT	253	241	227	219	218	8
REQUIREMENTS FORECAST BY END-USE ^{3/}							
9	CORE ^{4/}						
	Residential	75	75	73	72	71	9
10	Commercial	43	44	44	44	44	10
11	Industrial	4	4	4	4	4	11
12	NGV	6	6	6	6	6	12
13	Subtotal-CORE	129	129	127	126	125	13
14	NONCORE						
	Commercial	7	7	7	7	7	14
15	Industrial	7	6	6	6	6	15
16	Electric Generation (EG)	108	97	85	78	77	16
17	Subtotal-NONCORE	121	111	98	91	91	17
18	Co. Use & LUAF	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	253	241	227	219	218	19
TRANSPORTATION AND EXCHANGE							
20	CORE						
	All End Uses	12	12	12	12	12	20
21	NONCORE						
	Commercial/Industrial	14	13	13	13	13	21
22	Electric Generation (EG)	108	97	85	78	77	22
23	TOTAL TRANSPORTATION & EXCHANGE	134	123	110	103	103	23
CURTAILMENT							
24	Core	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d:	120	120	118	117	116
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TABLE 2-SDGE

SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED YEARS 2027 THRU 2035

AVERAGE TEMPERATURE YEAR

LINE		2027	2028	2029	2030	2035	LINE
CAPACITY AVAILABLE ^{1/ & 2/}							
1	California Source Gas	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	3
GAS SUPPLY TAKEN							
4	California Source Gas	0	0	0	0	0	4
5	Southern Zone of SoCalGas	215	210	209	204	198	5
6	TOTAL SUPPLY TAKEN	215	210	209	204	198	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	7
8	TOTAL THROUGHPUT	215	210	209	204	198	8
REQUIREMENTS FORECAST BY END-USE ^{3/}							
9	CORE ^{4/}						
	Residential	71	69	68	67	63	9
10	Commercial	43	43	43	43	41	10
11	Industrial	4	4	4	4	3	11
12	NGV	6	6	6	6	6	12
13	Subtotal-CORE	124	122	121	120	114	13
14	NONCORE						
	Commercial	7	7	7	7	7	14
15	Industrial	6	6	6	6	6	15
16	Electric Generation (EG)	76	73	73	70	69	16
17	Subtotal-NONCORE	90	86	86	83	82	17
18	Co. Use & LUAF	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	215	210	209	204	198	19
TRANSPORTATION AND EXCHANGE							
20	CORE						
	All End Uses	12	12	12	12	12	20
21	NONCORE						
	Commercial/Industrial	13	13	13	13	13	21
22	Electric Generation (EG)	76	73	73	70	69	22
23	TOTAL TRANSPORTATION & EXCHANGE	102	98	99	95	94	23
CURTAILMENT							
24	Core	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d: 115 113 112 111 105

2022 CALIFORNIA GAS REPORT

FORECAST OF REQUIREMENTS – DETAIL



2022 CALIFORNIA GAS REPORT

AVERAGE TEMPERATURE YEAR



SAN DIEGO GAS & ELECTRIC COMPANY
ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2022

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	310	310	270	253	219	211	216	222	225	220	259	319	253	5
6	TOTAL SUPPLY TAKEN	310	310	270	253	219	211	216	222	225	220	259	319	253	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	310	310	270	253	219	211	216	222	225	220	259	319	253	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
CORE ^{4/}															
9	Residential	121	117	97	83	59	47	43	43	43	50	81	124	75	9
10	Commercial	56	58	49	46	38	35	33	33	34	35	45	57	43	10
11	Industrial	5	5	5	5	4	4	4	4	4	4	4	5	4	11
12	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	189	187	155	139	107	92	87	85	87	95	138	192	129	13
NONCORE															
14	Commercial	7	8	7	7	7	7	7	7	7	7	7	7	7	14
15	Industrial	7	8	7	7	7	7	7	7	7	6	7	6	7	15
16	Electric Generation (EG)	105	104	99	98	96	103	114	122	122	110	106	111	108	16
17	Subtotal-NONCORE	119	120	113	112	110	117	127	135	136	123	120	124	121	17
18	Co. Use & LUAF	3	3	2	2	2	2	2	2	2	2	2	3	2	18
19	SYSTEM TOTAL THROUGHPUT	310	310	270	253	219	211	216	222	225	220	259	319	253	19
TRANSPORTATION AND EXCHANGE															
CORE															
20	All End Uses	15	15	13	13	11	11	11	11	11	11	13	15	12	20
NONCORE															
21	Commercial/Industrial	14	16	14	14	14	14	13	13	14	13	14	13	14	21
22	Electric Generation (EG)	105	104	99	98	96	103	114	122	122	110	106	111	108	22
23	TOTAL TRANSPORTATION & EXCHANGE	134	136	125	125	121	128	138	145	147	134	133	139	134	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d: 179 177 147 130 99 84 78 77 79 87 128 183 120

SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2023

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	300	300	260	242	210	201	204	207	212	210	250	305	241	5
6	TOTAL SUPPLY TAKEN	300	300	260	242	210	201	204	207	212	210	250	305	241	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	300	300	260	242	210	201	204	207	212	210	250	305	241	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	120	116	96	82	59	46	42	42	42	49	80	123	75	9
11	Commercial	57	59	50	46	38	36	33	33	34	35	46	58	44	10
12	Industrial	5	5	5	5	4	4	4	3	4	4	4	5	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	188	186	155	138	107	92	86	85	87	95	137	191	129	13
14	NONCORE														
15	Commercial	7	7	7	7	7	7	7	7	7	7	7	7	7	14
16	Industrial	6	7	6	7	6	7	6	6	6	6	6	6	6	15
17	Electric Generation (EG)	97	96	90	88	88	94	102	107	110	100	97	99	97	16
17	Subtotal-NONCORE	110	111	103	102	101	107	115	120	123	113	110	112	111	17
18	Co. Use & LUAF	2	2	2	2	2	2	2	2	2	2	2	3	2	18
19	SYSTEM TOTAL THROUGHPUT	300	300	260	242	210	201	204	207	212	210	250	305	241	19
TRANSPORTATION AND EXCHANGE															
20	CORE														
21	All End Uses	15	16	13	13	11	11	11	11	11	11	13	15	12	20
22	NONCORE														
23	Commercial/Industrial	13	14	13	13	13	13	13	13	13	13	13	13	13	21
24	Electric Generation (EG)	97	96	90	88	88	94	102	107	110	100	97	99	97	22
23	TOTAL TRANSPORTATION & EXCHANGE	125	126	116	115	112	118	127	131	134	124	124	127	123	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

178	176	146	129	98	84	78	77	79	87	128	181	120
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2024

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	284	279	245	227	196	188	192	193	197	197	236	291	227	5
6	TOTAL SUPPLY TAKEN	284	279	245	227	196	188	192	193	197	197	236	291	227	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	284	279	245	227	196	188	192	193	197	197	236	291	227	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	118	110	95	80	58	46	42	42	42	49	79	121	73	9
11	Commercial	57	57	50	46	38	36	33	33	35	35	46	58	44	10
12	Industrial	5	5	5	5	4	4	4	3	4	4	4	4	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	186	178	153	137	106	91	86	85	87	94	136	189	127	13
14	NONCORE														
15	Commercial	7	7	7	7	7	7	7	7	7	7	7	7	7	14
16	Industrial	6	7	6	6	6	6	6	6	6	6	6	6	6	15
17	Electric Generation (EG)	84	85	77	75	75	81	92	93	95	88	85	87	85	16
17	Subtotal-NONCORE	96	99	90	89	88	95	104	106	108	101	98	100	98	17
18	Co. Use & LUAF	2	2	2	2	2	2	2	2	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	284	279	245	227	196	188	192	193	197	197	236	291	227	19
TRANSPORTATION AND EXCHANGE															
20	CORE														
21	All End Uses	15	15	13	13	11	11	11	11	11	11	13	15	12	20
22	NONCORE														
23	Commercial/Industrial	13	14	13	13	13	13	13	13	13	13	13	13	13	21
24	Electric Generation (EG)	84	85	77	75	75	81	92	93	95	88	85	87	85	22
23	TOTAL TRANSPORTATION & EXCHANGE	111	114	102	101	99	105	116	117	119	112	111	115	110	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

176	168	144	128	98	83	77	76	78	86	126	179	118
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SAN DIEGO GAS & ELECTRIC COMPANY
ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2025

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	278	275	236	217	188	185	186	184	185	188	228	284	219	5
6	TOTAL SUPPLY TAKEN	278	275	236	217	188	185	186	184	185	188	228	284	219	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	278	275	236	217	188	185	186	184	185	188	228	284	219	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	116	112	93	79	57	45	41	41	42	48	78	119	72	9
11	Commercial	57	59	50	46	38	36	33	33	34	35	46	57	44	10
12	Industrial	5	5	5	5	4	4	4	3	3	4	4	4	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	183	182	151	136	105	91	85	84	86	93	134	187	126	13
14	NONCORE														
15	Commercial	7	7	7	7	7	7	7	7	7	7	7	7	7	14
16	Industrial	6	7	6	6	6	6	6	6	6	6	6	6	6	15
17	Electric Generation (EG)	80	76	70	66	69	79	86	85	84	80	78	82	78	16
17	Subtotal-NONCORE	93	90	82	80	81	93	99	98	97	93	91	95	91	17
18	Co. Use & LUAF	2	2	2	2	2	2	2	2	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	278	275	236	217	188	185	186	184	185	188	228	284	219	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	15	15	13	13	11	11	11	11	11	11	13	15	12	20
21	NONCORE Commercial/Industrial	13	14	13	13	13	13	13	13	13	13	13	13	13	21
22	Electric Generation (EG)	80	76	70	66	69	79	86	85	84	80	78	82	78	22
23	TOTAL TRANSPORTATION & EXCHANGE	107	106	95	92	92	104	110	109	108	104	104	110	103	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

174	172	143	127	97	82	76	76	78	85	125	177	117
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2026

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	272	273	236	217	184	180	184	190	189	188	224	278	218	5
6	TOTAL SUPPLY TAKEN	272	273	236	217	184	180	184	190	189	188	224	278	218	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	272	273	236	217	184	180	184	190	189	188	224	278	218	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	114	111	92	78	56	45	41	41	41	48	77	117	71	9
11	Commercial	56	59	49	46	38	36	33	33	34	35	46	57	44	10
12	Industrial	5	5	4	4	4	4	4	3	3	3	4	4	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	181	180	150	134	104	90	85	84	86	93	133	185	125	13
14	NONCORE														
15	Commercial	7	8	7	7	7	7	7	7	7	7	7	7	7	14
16	Industrial	6	7	6	6	6	6	6	6	6	6	6	6	6	15
17	Electric Generation (EG)	76	76	71	68	65	75	84	92	89	80	75	78	77	16
17	Subtotal-NONCORE	88	90	84	81	78	89	97	104	102	93	88	91	91	17
18	Co. Use & LUAF	2	2	2	2	2	2	2	2	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	272	273	236	217	184	180	184	190	189	188	224	278	218	19
TRANSPORTATION AND EXCHANGE															
20	CORE														
21	All End Uses	15	15	13	13	11	11	11	11	11	11	13	15	12	20
22	NONCORE														
23	Commercial/Industrial	13	14	13	13	13	13	13	13	13	13	13	13	13	21
24	Electric Generation (EG)	76	76	71	68	65	75	84	92	89	80	75	78	77	22
23	TOTAL TRANSPORTATION & EXCHANGE	103	106	96	94	89	100	109	115	113	104	101	106	103	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d: 172 170 141 125 96 82 76 75 77 84 124 175 116

SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2027

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	270	267	233	210	182	183	185	179	192	188	223	275	215	5
6	TOTAL SUPPLY TAKEN	270	267	233	210	182	183	185	179	192	188	223	275	215	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	270	267	233	210	182	183	185	179	192	188	223	275	215	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	112	109	91	77	56	44	41	40	41	47	76	115	71	9
11	Commercial	56	59	49	46	38	35	33	33	34	35	46	57	43	10
12	Industrial	5	4	4	4	4	4	4	3	3	3	4	4	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	179	178	148	133	103	90	84	83	85	92	132	183	124	13
14	NONCORE														14
15															15
16															16
17	Subtotal-NONCORE	88	86	83	75	77	92	99	95	105	95	89	90	90	17
18	Co. Use & LUAF	2	2	2	2	2	2	2	1	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	270	267	233	210	182	183	185	179	192	188	223	275	215	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	15	15	13	13	11	11	11	11	11	11	13	15	12	20
21															21
22	NONCORE All End Uses	88	86	83	75	77	92	99	95	105	95	89	90	90	22
23	TOTAL TRANSPORTATION & EXCHANGE	103	101	96	88	88	103	110	105	116	105	102	105	102	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

170	168	140	124	95	81	75	75	77	84	123	173	115
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2028

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	264	254	224	210	179	177	176	182	182	183	218	270	210	5
6	TOTAL SUPPLY TAKEN	264	254	224	210	179	177	176	182	182	183	218	270	210	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	264	254	224	210	179	177	176	182	182	183	218	270	210	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	111	103	89	76	55	44	40	40	40	47	75	113	69	9
11	Commercial	56	56	49	46	38	35	33	33	34	35	45	57	43	10
12	Industrial	5	4	4	4	4	4	3	3	3	3	4	4	4	11
13	NGV	6	6	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	177	170	147	132	102	89	84	83	85	91	131	181	122	13
14	NONCORE														14
15															15
16															16
17	Subtotal-NONCORE	85	82	76	76	75	87	91	97	96	90	86	87	86	17
18	Co. Use & LUAF	2	2	2	2	1	1	1	2	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	264	254	224	210	179	177	176	182	182	183	218	270	210	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	15	15	13	13	11	11	11	11	11	11	13	15	12	20
21															21
22	NONCORE All End Uses	85	82	76	76	75	87	91	97	96	90	86	87	86	22
23	TOTAL TRANSPORTATION & EXCHANGE	99	97	88	89	86	97	102	108	107	100	99	102	98	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

168	160	138	123	94	81	75	74	76	83	121	171	113
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2029

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	262	263	223	206	178	180	180	181	182	178	216	268	209	5
6	TOTAL SUPPLY TAKEN	262	263	223	206	178	180	180	181	182	178	216	268	209	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	262	263	223	206	178	180	180	181	182	178	216	268	209	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	109	105	88	75	54	43	40	39	40	46	74	111	68	9
11	Commercial	56	58	49	46	38	35	33	33	34	35	45	56	43	10
12	Industrial	5	4	4	4	4	4	3	3	3	3	4	4	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	175	174	145	130	101	88	83	82	84	91	129	178	121	13
14	NONCORE														14
15															15
16															16
17	Subtotal-NONCORE	85	87	77	74	76	90	96	98	96	86	85	88	86	17
18	Co. Use & LUAF	2	2	2	2	1	1	1	2	2	1	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	262	263	223	206	178	180	180	181	182	178	216	268	209	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	15	15	12	13	11	11	11	11	11	11	13	15	12	20
21															21
22	NONCORE All End Uses	85	87	77	74	76	90	96	98	96	86	85	88	86	22
23	TOTAL TRANSPORTATION & EXCHANGE	99	102	89	87	87	101	107	108	107	97	98	103	99	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

165	164	136	121	93	80	74	73	75	82	120	168	112
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2030

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	252	255	219	198	176	172	175	177	180	177	211	261	204	5
6	TOTAL SUPPLY TAKEN	252	255	219	198	176	172	175	177	180	177	211	261	204	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	252	255	219	198	176	172	175	177	180	177	211	261	204	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	106	103	86	73	53	42	39	39	39	45	72	109	67	9
11	Commercial	55	57	48	45	37	35	33	33	34	35	45	56	43	10
12	Industrial	4	4	4	4	3	4	3	3	3	3	4	4	4	11
13	NGV	6	7	4	6	6	6	7	7	7	7	7	6	6	12
13	Subtotal-CORE	172	171	142	129	100	87	82	81	83	90	128	175	120	13
14	NONCORE														14
15															15
16															16
17	Subtotal-NONCORE	78	81	74	68	75	83	91	95	95	86	82	83	83	17
18	Co. Use & LUAF	2	2	2	2	1	1	1	1	1	1	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	252	255	219	198	176	172	175	177	180	177	211	261	204	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	15	15	13	13	11	11	11	11	11	11	13	15	12	20
21															21
22	NONCORE All End Uses	78	81	74	68	75	83	91	95	95	86	82	83	83	22
23	TOTAL TRANSPORTATION & EXCHANGE	93	97	87	81	86	94	103	106	106	97	95	98	95	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

162	161	134	119	92	79	73	73	74	81	118	165	111
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2035

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	242	246	209	197	167	170	172	176	172	171	213	244	198	5
6	TOTAL SUPPLY TAKEN	242	246	209	197	167	170	172	176	172	171	213	244	198	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	242	246	209	197	167	170	172	176	172	171	213	244	198	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	100	96	81	69	51	41	38	37	38	43	68	102	63	9
11	Commercial	53	55	46	43	36	34	32	32	33	34	43	53	41	10
12	Industrial	4	4	4	4	3	3	3	3	3	3	3	4	3	11
13	NGV	6	7	4	6	6	6	7	7	7	6	7	6	6	12
13	Subtotal-CORE	163	162	135	122	96	84	79	78	80	86	122	165	114	13
14	NONCORE														14
15															15
16															16
17	Subtotal-NONCORE	77	82	72	73	70	85	91	96	91	84	90	76	82	17
18	Co. Use & LUAF	2	2	2	2	1	1	1	1	1	1	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	242	246	209	197	167	170	172	176	172	171	213	244	198	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	14	15	12	12	11	11	11	11	11	11	13	14	12	20
21															21
22	NONCORE All End Uses	77	82	72	73	70	85	91	96	91	84	90	76	82	22
23	TOTAL TRANSPORTATION & EXCHANGE	91	97	84	85	81	95	102	107	101	94	102	91	94	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

153	152	127	113	88	76	70	70	72	78	112	155	105
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2022 CALIFORNIA GAS REPORT

FORECAST OF REQUIREMENTS - SUMMARY



2022 CALIFORNIA GAS REPORT

COLD TEMPERATURE YEAR



TABLE 3-SDGE

SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED YEARS 2022 THRU 2026

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		2022	2023	2024	2025	2026	LINE
CAPACITY AVAILABLE ^{1/ & 2/}							
1	California Source Gas	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	3
GAS SUPPLY TAKEN							
4	California Source Gas	0	0	0	0	0	4
5	Southern Zone of SoCalGas	262	251	237	229	228	5
6	TOTAL SUPPLY TAKEN	262	251	237	229	228	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	7
8	TOTAL THROUGHPUT	262	251	237	229	228	8
REQUIREMENTS FORECAST BY END-USE ^{3/}							
9	CORE ^{4/}						
	Residential	83	82	81	80	79	9
10	Commercial	45	45	45	45	45	10
11	Industrial	4	4	4	4	4	11
12	NGV	6	6	6	6	6	12
13	Subtotal-CORE	138	138	136	135	134	13
14	NONCORE						
	Commercial	7	7	7	7	7	14
15	Industrial	7	6	6	6	6	15
16	Electric Generation (EG)	108	98	86	79	79	16
17	Subtotal-NONCORE	121	111	99	92	92	17
18	Co. Use & LUAF	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	262	251	237	229	228	19
TRANSPORTATION AND EXCHANGE							
20	CORE						
	All End Uses	13	13	13	13	13	20
21	NONCORE						
	Commercial/Industrial	14	13	13	13	13	21
22	Electric Generation (EG)	108	98	86	79	79	22
23	TOTAL TRANSPORTATION & EXCHANGE	134	124	112	105	104	23
CURTAILMENT							
24	Core	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d:	129	129	127	126	125
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TABLE 4-SDGE

SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED YEARS 2027 THRU 2035

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		2027	2028	2029	2030	2035	LINE
CAPACITY AVAILABLE ^{1/ & 2/}							
1	California Source Gas	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	3
GAS SUPPLY TAKEN							
4	California Source Gas	0	0	0	0	0	4
5	Southern Zone of SoCalGas	226	220	220	215	212	5
6	TOTAL SUPPLY TAKEN	226	220	220	215	212	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	7
8	TOTAL THROUGHPUT	226	220	220	215	212	8
REQUIREMENTS FORECAST BY END-USE ^{3/}							
9	CORE ^{4/}						
	Residential	78	77	76	74	71	9
10	Commercial	45	45	45	44	42	10
11	Industrial	4	4	4	4	4	11
12	NGV	6	6	6	6	6	12
13	Subtotal-CORE	133	131	130	129	123	13
14	NONCORE						
	Commercial	7	7	7	7	7	14
15	Industrial	6	6	6	6	6	15
16	Electric Generation (EG)	78	74	74	71	74	16
17	Subtotal-NONCORE	91	87	87	84	87	17
18	Co. Use & LUAF	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	226	220	220	215	212	19
TRANSPORTATION AND EXCHANGE							
20	CORE						
	All End Uses	13	13	13	13	12	20
21	NONCORE						
	Commercial/Industrial	13	13	13	13	13	21
22	Electric Generation (EG)	78	74	74	71	74	22
23	TOTAL TRANSPORTATION & EXCHANGE	104	100	100	97	99	23
CURTAILMENT							
24	Core	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d:	124	122	121	120	114
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2022 CALIFORNIA GAS REPORT

FORECAST OF REQUIREMENTS – DETAIL



2022 CALIFORNIA GAS REPORT

COLD TEMPERATURE YEAR



SAN DIEGO GAS & ELECTRIC COMPANY
ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2022
COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	332	332	286	263	223	212	216	222	225	222	269	342	262	5
6	TOTAL SUPPLY TAKEN	332	332	286	263	223	212	216	222	225	222	269	342	262	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	332	332	286	263	223	212	216	222	225	222	269	342	262	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
	Residential	139	135	110	91	63	47	43	43	43	52	89	144	83	9
10	Commercial	60	62	51	47	38	35	33	33	34	35	47	61	45	10
11	Industrial	5	5	5	5	4	4	4	4	4	4	4	5	4	11
12	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	211	209	171	149	111	93	87	85	88	97	147	216	138	13
14	NONCORE														
	Commercial	7	8	7	7	7	7	7	7	7	7	7	7	7	14
15	Industrial	7	8	7	7	7	7	7	7	7	6	7	6	7	15
16	Electric Generation (EG)	105	104	99	98	96	103	114	122	122	110	106	111	108	16
17	Subtotal-NONCORE	119	120	113	112	110	117	127	135	136	123	120	124	121	17
18	Co. Use & LUAF	3	3	2	2	2	2	2	2	2	2	2	3	2	18
19	SYSTEM TOTAL THROUGHPUT	332	332	286	263	223	212	216	222	225	222	269	342	262	19
TRANSPORTATION AND EXCHANGE															
20	CORE														
	All End Uses	16	16	13	13	11	11	11	11	11	11	13	16	13	20
21	NONCORE														
	Commercial/Industrial	14	16	14	14	14	14	13	13	14	13	14	13	14	21
22	Electric Generation (EG)	105	104	99	98	96	103	114	122	122	110	106	111	108	22
23	TOTAL TRANSPORTATION & EXCHANGE	135	136	126	126	121	128	138	145	147	134	133	140	134	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d:	201	198	162	140	103	85	78	77	79	89	138	206	129
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2023

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	322	321	276	252	215	203	205	210	213	212	260	330	251	5
6	TOTAL SUPPLY TAKEN	322	321	276	252	215	203	205	210	213	212	260	330	251	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	322	321	276	252	215	203	205	210	213	212	260	330	251	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	138	133	109	90	62	47	42	42	43	51	88	142	82	9
11	Commercial	60	62	52	48	39	36	33	33	34	36	47	61	45	10
12	Industrial	5	5	5	5	4	4	4	3	4	4	4	5	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	210	208	170	148	111	93	87	85	88	97	147	215	138	13
14	NONCORE														
15	Commercial	7	7	7	7	7	7	7	7	7	7	7	7	7	14
16	Industrial	6	7	6	7	6	7	6	6	6	6	6	6	6	15
17	Electric Generation (EG)	97	97	90	89	89	95	104	110	110	101	97	100	98	16
17	Subtotal-NONCORE	110	111	103	102	102	108	117	123	123	114	111	113	111	17
18	Co. Use & LUAF	3	3	2	2	2	2	2	2	2	2	2	3	2	18
19	SYSTEM TOTAL THROUGHPUT	322	321	276	252	215	203	205	210	213	212	260	330	251	19
TRANSPORTATION AND EXCHANGE															
20	CORE														
21	All End Uses	16	16	13	13	11	11	11	11	11	11	13	16	13	20
22	NONCORE														
23	Commercial/Industrial	13	14	13	13	13	13	13	13	13	13	13	13	13	21
24	Electric Generation (EG)	97	97	90	89	89	95	104	110	110	101	97	100	98	22
23	TOTAL TRANSPORTATION & EXCHANGE	126	127	117	115	113	119	128	133	134	125	124	128	124	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

200	197	161	139	103	84	78	77	79	89	137	205	129
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2024

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	307	301	260	239	202	191	194	193	196	200	247	316	237	5
6	TOTAL SUPPLY TAKEN	307	301	260	239	202	191	194	193	196	200	247	316	237	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	307	301	260	239	202	191	194	193	196	200	247	316	237	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	136	127	107	89	62	46	42	42	42	50	87	140	81	9
11	Commercial	60	60	52	48	39	36	33	33	35	36	48	61	45	10
12	Industrial	5	5	5	5	4	4	4	3	4	4	4	5	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	208	199	168	147	110	92	86	85	87	96	146	213	136	13
14	NONCORE														
15	Commercial	7	7	7	7	7	7	7	7	7	7	7	7	7	14
16	Industrial	6	7	6	6	6	6	6	6	6	6	6	6	6	15
17	Electric Generation (EG)	85	86	77	76	77	84	93	94	94	89	86	88	86	16
17	Subtotal-NONCORE	97	100	90	90	90	97	106	107	108	102	99	101	99	17
18	Co. Use & LUAF	3	3	2	2	2	2	2	2	2	2	2	3	2	18
19	SYSTEM TOTAL THROUGHPUT	307	301	260	239	202	191	194	193	196	200	247	316	237	19
TRANSPORTATION AND EXCHANGE															
20	CORE														
21	All End Uses	16	16	13	13	11	11	11	11	11	11	13	16	13	20
22	NONCORE														
23	Commercial/Industrial	13	14	13	13	13	13	13	13	13	13	13	13	13	21
24	Electric Generation (EG)	85	86	77	76	77	84	93	94	94	89	86	88	86	22
23	TOTAL TRANSPORTATION & EXCHANGE	113	115	103	103	101	108	117	117	119	113	112	117	112	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d: 198 188 160 138 102 84 77 76 78 88 136 203 127

SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2025

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	301	297	251	229	195	189	187	185	187	190	237	307	229	5
6	TOTAL SUPPLY TAKEN	301	297	251	229	195	189	187	185	187	190	237	307	229	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	301	297	251	229	195	189	187	185	187	190	237	307	229	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	134	130	106	87	61	46	41	41	42	50	86	138	80	9
11	Commercial	60	62	52	48	39	36	33	33	35	36	47	61	45	10
12	Industrial	5	5	5	5	4	4	4	3	3	4	4	5	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	205	204	167	145	109	92	85	84	86	96	144	210	135	13
14	NONCORE														
15	Commercial	7	7	7	7	7	7	7	7	7	7	7	7	7	14
16	Industrial	6	7	6	6	6	6	6	6	6	6	6	6	6	15
17	Electric Generation (EG)	81	77	70	68	71	82	88	86	86	80	78	82	79	16
17	Subtotal-NONCORE	94	91	83	81	84	96	100	99	99	93	91	95	92	17
18	Co. Use & LUAF	3	2	2	2	2	2	2	2	2	2	2	3	2	18
19	SYSTEM TOTAL THROUGHPUT	301	297	251	229	195	189	187	185	187	190	237	307	229	19
TRANSPORTATION AND EXCHANGE															
20	CORE														
21	All End Uses	16	16	13	13	11	11	11	11	11	11	13	16	13	20
22	NONCORE														
23	Commercial/Industrial	13	14	13	13	13	13	13	13	13	13	13	13	13	21
24	Electric Generation (EG)	81	77	70	68	71	82	88	86	86	80	78	82	79	22
23	TOTAL TRANSPORTATION & EXCHANGE	109	107	96	94	95	107	112	109	110	104	105	110	105	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

195	193	158	136	101	83	76	76	78	87	135	200	126
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2026

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	295	295	252	229	191	184	185	191	191	190	234	302	228	5
6	TOTAL SUPPLY TAKEN	295	295	252	229	191	184	185	191	191	190	234	302	228	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	295	295	252	229	191	184	185	191	191	190	234	302	228	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	132	128	105	86	60	45	41	41	41	49	85	136	79	9
11	Commercial	60	62	52	48	39	36	33	33	34	36	47	61	45	10
12	Industrial	5	5	5	5	4	4	4	3	3	4	4	5	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	203	202	165	144	109	91	85	84	86	95	143	208	134	13
14	NONCORE														
15	Commercial	7	8	7	7	7	7	7	7	7	7	7	7	7	14
16	Industrial	6	7	6	6	6	6	6	6	6	6	6	6	6	15
17	Electric Generation (EG)	76	77	72	69	68	78	86	92	90	81	75	78	79	16
17	Subtotal-NONCORE	89	91	84	83	81	92	99	105	103	94	89	91	92	17
18	Co. Use & LUAF	2	2	2	2	2	2	2	2	2	2	2	3	2	18
19	SYSTEM TOTAL THROUGHPUT	295	295	252	229	191	184	185	191	191	190	234	302	228	19
TRANSPORTATION AND EXCHANGE															
20	CORE														
21	All End Uses	16	16	13	13	11	11	11	11	11	11	13	16	13	20
22	NONCORE														
23	Commercial/Industrial	13	14	13	13	13	13	13	13	13	13	13	13	13	21
24	Electric Generation (EG)	76	77	72	69	68	78	86	92	90	81	75	78	79	22
23	TOTAL TRANSPORTATION & EXCHANGE	104	107	98	96	92	103	110	116	114	105	102	107	104	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

193	191	156	135	100	83	76	75	77	86	134	198	125
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2027

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	292	289	249	221	190	187	186	181	199	191	233	299	226	5
6	TOTAL SUPPLY TAKEN	292	289	249	221	190	187	186	181	199	191	233	299	226	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	292	289	249	221	190	187	186	181	199	191	233	299	226	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	131	126	103	85	59	45	41	40	41	49	84	135	78	9
11	Commercial	60	62	52	48	39	36	33	33	34	36	47	61	45	10
12	Industrial	5	5	5	5	4	4	4	3	3	3	4	5	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	201	200	164	143	108	90	84	83	85	94	142	206	133	13
14	NONCORE														14
15															15
16															16
17	Subtotal-NONCORE	88	87	84	77	81	95	100	97	112	95	89	90	91	17
18	Co. Use & LUAF	2	2	2	2	2	2	2	2	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	292	289	249	221	190	187	186	181	199	191	233	299	226	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	15	16	13	13	11	11	11	11	11	11	13	16	13	20
21															21
22	NONCORE All End Uses	88	87	84	77	81	95	100	97	112	95	89	90	91	22
23	TOTAL TRANSPORTATION & EXCHANGE	104	103	97	90	92	105	111	107	122	106	102	106	104	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

191	189	155	134	99	82	75	75	77	86	132	196	124
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2028

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	287	276	240	222	187	180	178	183	184	185	229	294	220	5
6	TOTAL SUPPLY TAKEN	287	276	240	222	187	180	178	183	184	185	229	294	220	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	287	276	240	222	187	180	178	183	184	185	229	294	220	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	129	120	102	84	59	44	40	40	40	48	83	133	77	9
11	Commercial	59	60	51	47	39	35	33	33	34	36	47	60	45	10
12	Industrial	5	5	5	4	4	4	3	3	3	3	4	4	4	11
13	NGV	6	6	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	199	191	162	142	107	90	84	83	85	93	141	204	131	13
14	NONCORE														14
15															15
16															16
17	Subtotal-NONCORE	85	83	76	79	79	89	92	99	98	90	86	88	87	17
18	Co. Use & LUAF	2	2	2	2	2	1	1	2	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	287	276	240	222	187	180	178	183	184	185	229	294	220	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	15	15	13	13	11	11	11	11	11	11	13	16	13	20
21															21
22	NONCORE All End Uses	85	83	76	79	79	89	92	99	98	90	86	88	87	22
23	TOTAL TRANSPORTATION & EXCHANGE	101	98	90	92	90	100	104	110	109	101	100	103	100	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

189	181	153	133	99	81	75	74	76	85	131	194	122
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2029

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	284	285	240	218	186	183	182	181	182	181	226	292	220	5
6	TOTAL SUPPLY TAKEN	284	285	240	218	186	183	182	181	182	181	226	292	220	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	284	285	240	218	186	183	182	181	182	181	226	292	220	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	127	123	100	83	58	44	40	39	40	48	82	131	76	9
11	Commercial	59	61	51	47	38	35	33	33	34	35	47	60	45	10
12	Industrial	5	5	4	4	4	4	3	3	3	3	4	4	4	11
13	NGV	6	7	4	6	6	6	7	6	7	6	7	6	6	12
13	Subtotal-CORE	197	195	160	140	106	89	83	82	84	93	139	201	130	13
14	NONCORE														14
15															15
16															16
17	Subtotal-NONCORE	85	88	78	76	79	93	97	98	96	87	85	88	87	17
18	Co. Use & LUAF	2	2	2	2	2	2	2	2	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	284	285	240	218	186	183	182	181	182	181	226	292	220	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	15	16	13	13	11	11	11	11	11	11	13	16	13	20
21															21
22	NONCORE All End Uses	85	88	78	76	79	93	97	98	96	87	85	88	87	22
23	TOTAL TRANSPORTATION & EXCHANGE	100	103	91	89	90	103	108	109	107	97	99	104	100	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

187	185	151	131	97	81	74	73	75	84	130	191	121
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SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2030

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	275	278	235	210	184	175	177	178	180	180	222	285	215	5
6	TOTAL SUPPLY TAKEN	275	278	235	210	184	175	177	178	180	180	222	285	215	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	275	278	235	210	184	175	177	178	180	180	222	285	215	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	124	120	98	81	57	43	39	39	39	47	80	128	74	9
11	Commercial	59	61	51	47	38	35	33	33	34	35	46	60	44	10
12	Industrial	5	5	4	4	4	4	3	3	3	3	4	4	4	11
13	NGV	6	7	4	6	6	6	7	7	7	7	7	6	6	12
13	Subtotal-CORE	194	193	158	138	105	88	82	81	83	92	137	199	129	13
14	NONCORE														14
15															15
16															16
17	Subtotal-NONCORE	79	83	75	70	78	85	93	96	96	86	83	84	84	17
18	Co. Use & LUAF	2	2	2	2	2	1	1	1	1	1	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	275	278	235	210	184	175	177	178	180	180	222	285	215	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	15	16	13	13	11	11	11	11	11	11	13	16	13	20
21															21
22	NONCORE All End Uses	79	83	75	70	78	85	93	96	96	86	83	84	84	22
23	TOTAL TRANSPORTATION & EXCHANGE	94	99	88	83	89	96	105	107	106	98	96	100	97	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d: 184 182 149 129 96 80 73 73 74 83 128 188 120

SAN DIEGO GAS & ELECTRIC COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY
ESTIMATED FOR YEAR: 2035

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
CAPACITY AVAILABLE ^{1/ & 2/}															
1	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	Southern Zone of SoCalGas ^{1/}	574	574	574	574	574	574	574	574	574	574	574	574	574	2
3	TOTAL CAPACITY AVAILABLE	574	574	574	574	574	574	574	574	574	574	574	574	574	3
GAS SUPPLY TAKEN															
4	California Source Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	Southern Zone of SoCalGas	265	269	226	208	174	172	175	194	191	183	223	269	212	5
6	TOTAL SUPPLY TAKEN	265	269	226	208	174	172	175	194	191	183	223	269	212	6
7	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	TOTAL THROUGHPUT	265	269	226	208	174	172	175	194	191	183	223	269	212	8
REQUIREMENTS FORECAST BY END-USE ^{3/}															
9	CORE ^{4/}														
10	Residential	118	114	93	78	54	41	38	37	38	45	76	121	71	9
11	Commercial	56	58	49	45	37	34	32	32	33	34	45	57	42	10
12	Industrial	4	4	4	4	3	3	3	3	3	3	4	4	4	11
13	NGV	6	7	4	6	6	6	7	7	7	6	7	6	6	12
13	Subtotal-CORE	184	183	150	132	100	85	79	78	80	88	131	189	123	13
14	NONCORE														14
15															15
16															16
17	Subtotal-NONCORE	78	83	73	74	72	86	94	114	109	93	90	78	87	17
18	Co. Use & LUAF	2	2	2	2	1	1	1	2	2	2	2	2	2	18
19	SYSTEM TOTAL THROUGHPUT	265	269	226	208	174	172	175	194	191	183	223	269	212	19
TRANSPORTATION AND EXCHANGE															
20	CORE All End Uses	15	16	13	13	11	11	11	11	11	11	13	15	12	20
21															21
22	NONCORE All End Uses	78	83	73	74	72	86	94	114	109	93	90	78	87	22
23	TOTAL TRANSPORTATION & EXCHANGE	93	99	86	86	83	97	105	124	119	104	103	93	99	23
CURTAILMENT															
24	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	24
25	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	25
26	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	26

NOTES:

1/ Nominal capacity to receive gas from the Southern Zone of SoCalGas is based on current conditions, and is an annual value based on weighting winter and non-winter season values: 574 = (595 winter) x (151/365) + (560 non-winter) x (214/365).

2/ For 2020 and after, assume capacity at same levels. Actual capacity through the CGR timeframe is subject to change.

3/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

4/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d:

175	173	142	123	92	76	70	70	72	80	122	179	114
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2022 CALIFORNIA GAS REPORT

CUSTOMER FORECAST



2022 California Gas Report (recorded data through 2021)

SDG&E Gas Meter Forecast						
YEAR	Core			Noncore		Total
	Residential	Commercial & Industrial	NGV	Commercial & Industrial	Electric Generation	
2019	861,502	30,246	37	46	99	891,930
2020	867,407	30,168	35	50	103	897,763
2021	873,304	30,163	33	51	98	903,649
2022	880,418	30,319	34	50	96	910,917
2023	888,738	30,378	37	50	96	919,299
2024	896,990	30,424	37	50	96	927,597
2025	905,216	30,467	37	50	96	935,866
2026	913,509	30,510	38	50	96	944,203
2027	921,721	30,549	38	50	96	952,454
2028	929,784	30,585	38	50	96	960,553
2029	937,768	30,619	39	50	96	968,572
2030	945,739	30,652	39	50	96	976,576
2031	953,667	30,682	39	50	96	984,534
2032	961,580	30,711	40	50	96	992,477
2033	969,577	30,740	40	50	96	1,000,503
2034	977,585	30,768	40	50	96	1,008,539
2035	985,629	30,794	41	50	96	1,016,610

2022 CALIFORNIA GAS REPORT

EUFORCASTER



Refer to the 2022 California Gas Report workpapers of Southern California Gas Company for documentation of the EUForecaster model. This model is used to forecast gas demands for the residential, core commercial and core industrial markets.

2022 CALIFORNIA GAS REPORT

RESIDENTIAL DEMAND FORECAST



I. Residential End-Use Model Description

San Diego Gas & Electric (SDG&E) utilized the End Use Forecaster model to generate annual gas demand forecasts for the residential market. The software's market segmentation and end-use modeling framework analyzes the impacts of competitive strategies (gas vs. electricity) and market scenarios on gas demand and market shares. The model separates the residential market into four building types (B-level).

The residential market is segmented into the following 4 groups:

- Single Family (SF);
- Multi-Family (MF);
- Master Metered (MM);
- Sub-Metered (SM).

The residential model consists of eight (8) end uses (N-level segmentation). The following end uses are drivers of natural gas demand:

- Space heating
- Water heating
- Cooking
- Drying
- Pool Heating
- Spa heating
- Fireplace
- Barbeque

The model assumes two fuel choices (F-level) for the eight end uses:

- Natural gas;
- Electricity.

The model assumes up to four efficiency levels (E-levels) for the end uses. The efficiency levels are:

- Stock;
- Standard;

- High efficiency;
- Premium efficiency;

The baseline forecast was adjusted for three factors:

- Energy Efficiency;
- Fuel Substitution (AAFS- Scenario 2);
- Climate Change.

These are out of model adjustments to the baseline forecast.

San Diego Gas & Electric

Figure 1: Number of Efficiency Levels by End Use and Customer Segment

	Space Heating		Water Heating		Cooking		Drying		Pool		Spa	
	Gas	Electric	Gas	Electric	Gas	Electric	Gas	Electric	Gas	Electric	Gas	Electric
Single Family	4	4	4	4	2	2	2	2	1	1	1	1
Multi Family												
Master Meter	4	4	4	4	2	2	2	2	0	0	0	0
Sub Meter	4	4	4	4	2	2	2	2	0	0	0	0

San Diego Gas & Electric

Figure 1: Number of Efficiency Levels by End Use and Customer Segment

	Fireplace		BBQ	
	Gas	Electric	Gas	Electric
Single Family	1	1	1	1
Multi Family	0	0	1	1
Master Meter	0	0	1	1
Sub Meter				

ResAvg

San Diego Gas & Electric
 RESIDENTIAL GAS DEMAND
 FIGURE 2: AVERAGE YEAR FORECAST (IN MDTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2021	3930.30	3436.39	3154.12	2586.90	1914.75	1454.63	1379.98	1372.86	1339.25	1611.79	2546.59	4033.00	28760.57
2022	3870.68	3384.24	3107.96	2551.31	1890.39	1438.07	1364.82	1357.80	1324.52	1592.56	2511.47	3970.99	28364.80
2023	3818.01	3338.15	3067.36	2520.29	1869.40	1424.06	1352.09	1345.17	1312.14	1576.17	2480.84	3916.10	28019.78
2024	3759.18	3286.69	3021.83	2485.21	1845.41	1407.77	1337.18	1330.38	1297.66	1557.25	2446.21	3854.90	27629.69
2025	3697.45	3232.69	2973.96	2448.22	1819.99	1390.40	1321.25	1314.57	1282.18	1537.14	2409.70	3790.73	27218.30
2026	3645.06	3186.86	2933.59	2417.38	1799.12	1376.48	1308.59	1302.01	1269.88	1520.84	2379.24	3736.14	26875.19
2027	3590.81	3139.39	2891.72	2385.29	1777.34	1361.86	1295.27	1288.78	1256.93	1503.78	2347.56	3679.63	26518.36
2028	3535.37	3090.89	2848.89	2352.42	1754.96	1346.79	1281.52	1275.14	1243.57	1486.21	2315.11	3621.91	26152.79
2029	3466.05	3030.25	2794.92	2310.41	1725.82	1326.57	1262.89	1256.64	1225.47	1462.95	2273.66	3549.95	25685.58
2030	3391.25	2964.82	2736.56	2264.80	1694.01	1304.32	1242.33	1236.22	1205.50	1437.44	2228.66	3472.38	25178.28
2031	3313.68	2896.97	2675.96	2217.34	1660.84	1281.04	1220.78	1214.82	1184.57	1410.78	2181.85	3391.95	24650.58
2032	3276.72	2864.63	2647.96	2196.62	1647.44	1272.77	1213.49	1207.60	1177.47	1400.76	2161.36	3353.20	24420.03
2033	3245.07	2836.93	2624.21	2179.38	1636.62	1266.47	1208.05	1202.22	1172.17	1392.92	2144.30	3319.90	24228.25
2034	3215.94	2811.43	2602.48	2163.80	1627.03	1261.09	1203.49	1197.72	1167.73	1386.10	2128.86	3289.19	24054.84
2035	3182.71	2782.34	2577.46	2145.51	1615.43	1254.18	1197.48	1191.77	1161.88	1377.59	2110.76	3254.27	23851.38

San Diego Gas & Electric
 RESIDENTIAL GAS DEMAND
 FIGURE 3: COLD YEAR FORECAST (IN MDTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2021	4509.62	3943.95	3560.19	2840.19	2033.05	1476.44	1381.32	1372.98	1341.20	1666.49	2799.28	4656.79	31581.50
2022	4449.56	3891.42	3513.72	2804.41	2008.60	1459.86	1366.16	1357.93	1326.47	1647.22	2763.96	4594.31	31183.62
2023	4396.46	3844.95	3472.83	2773.20	1987.52	1445.84	1353.42	1345.29	1314.09	1630.80	2733.14	4538.95	30836.49
2024	4337.20	3793.11	3426.99	2737.94	1963.44	1429.53	1338.52	1330.50	1299.61	1611.84	2698.33	4477.29	30444.29
2025	4275.04	3738.73	3378.82	2700.76	1937.94	1412.14	1322.59	1314.69	1284.13	1591.68	2661.63	4412.65	30030.79
2026	4222.22	3692.52	3338.14	2669.72	1916.98	1398.20	1309.93	1302.13	1271.82	1575.34	2630.98	4357.59	29685.57
2027	4167.53	3644.67	3295.97	2637.45	1895.10	1383.57	1296.60	1288.91	1258.87	1558.23	2599.11	4300.62	29326.62
2028	4111.65	3595.79	3252.84	2604.39	1872.64	1368.48	1282.85	1275.26	1245.51	1540.63	2566.47	4242.43	28958.94
2029	4041.90	3534.77	3198.56	2562.19	1843.42	1348.25	1264.22	1256.76	1227.41	1517.33	2524.83	4170.01	28489.63
2030	3966.67	3468.96	3139.89	2516.38	1811.51	1325.98	1243.66	1236.34	1207.43	1491.77	2479.64	4091.96	27980.21
2031	3888.66	3400.73	3079.00	2468.74	1778.25	1302.68	1222.11	1214.94	1186.50	1465.07	2432.65	4011.07	27450.40
2032	3851.27	3368.01	3050.69	2447.83	1764.77	1294.40	1214.82	1207.72	1179.40	1455.02	2411.96	3971.86	27217.74
2033	3819.19	3339.93	3026.64	2430.40	1753.86	1288.08	1209.38	1202.34	1174.11	1447.13	2394.71	3938.09	27023.85
2034	3789.62	3314.05	3004.60	2414.62	1744.18	1282.68	1204.81	1197.84	1169.66	1440.27	2379.08	3906.91	26848.33
2035	3755.96	3284.58	2979.28	2396.15	1732.49	1275.76	1198.80	1191.89	1163.81	1431.72	2360.80	3871.52	26642.77

ResHot

San Diego Gas & Electric
 RESIDENTIAL GAS DEMAND
 FIGURE 4: HOT YEAR FORECAST (IN MDTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2021	3350.98	2928.84	2748.05	2333.60	1796.45	1432.83	1378.64	1372.73	1337.31	1557.09	2293.91	3409.21	25939.64
2022	3291.80	2877.06	2702.19	2298.21	1772.17	1416.28	1363.48	1357.68	1322.57	1537.90	2258.98	3347.67	25545.98
2023	3239.56	2831.36	2661.90	2267.38	1751.27	1402.29	1350.75	1345.05	1310.20	1521.55	2228.53	3293.25	25203.08
2024	3181.16	2780.27	2616.67	2232.49	1727.37	1386.01	1335.85	1330.26	1295.72	1502.67	2194.10	3232.52	24815.09
2025	3119.87	2726.65	2569.11	2195.69	1702.05	1368.66	1319.92	1314.44	1280.24	1482.60	2157.78	3168.81	24405.81
2026	3067.91	2681.20	2529.04	2165.03	1681.26	1354.75	1307.26	1301.88	1267.94	1466.35	2127.50	3114.69	24064.81
2027	3014.09	2634.11	2487.47	2133.14	1659.57	1340.15	1293.93	1288.66	1254.99	1449.32	2096.02	3058.65	23710.09
2028	2959.08	2585.99	2444.95	2100.46	1637.28	1325.09	1280.19	1275.02	1241.63	1431.80	2063.75	3001.39	23346.63
2029	2890.20	2525.73	2391.28	2058.64	1608.23	1304.89	1261.56	1256.52	1223.53	1408.58	2022.49	2929.90	22881.54
2030	2815.84	2460.68	2333.22	2013.21	1576.51	1282.66	1241.00	1236.10	1203.56	1383.10	1977.68	2852.79	22376.34
2031	2738.70	2393.21	2272.93	1965.95	1543.42	1259.39	1219.45	1214.70	1182.63	1356.48	1931.06	2772.83	21850.75
2032	2702.17	2361.25	2245.23	1945.41	1530.11	1251.15	1212.16	1207.48	1175.54	1346.51	1910.76	2734.55	21622.31
2033	2670.96	2333.92	2221.79	1928.36	1519.39	1244.86	1206.72	1202.10	1170.24	1338.71	1893.88	2701.72	21432.65
2034	2642.26	2308.80	2200.36	1912.97	1509.88	1239.49	1202.16	1197.59	1165.80	1331.93	1878.63	2671.47	21261.35
2035	2609.46	2280.10	2175.65	1894.87	1498.37	1232.60	1196.15	1191.65	1159.95	1323.46	1860.73	2637.02	21060.00

ResBas

San Diego Gas & Electric
 RESIDENTIAL GAS DEMAND
 FIGURE 5: HOT YEAR FORECAST (IN MDTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2021	1118.47	1046.31	1118.47	1082.39	1118.47	1082.39	1118.47	1118.47	1082.39	1118.47	1082.39	1118.47	13205.16
2022	1099.58	1028.64	1099.58	1064.11	1099.58	1064.11	1099.58	1099.58	1064.11	1099.58	1064.11	1099.58	12982.10
2023	1084.96	1014.96	1084.96	1049.96	1084.96	1049.96	1084.96	1084.96	1049.96	1084.96	1049.96	1084.96	12809.56
2024	1066.51	997.70	1066.51	1032.11	1066.51	1032.11	1066.51	1066.51	1032.11	1066.51	1032.11	1066.51	12591.69
2025	1046.23	978.73	1046.23	1012.48	1046.23	1012.48	1046.23	1046.23	1012.48	1046.23	1012.48	1046.23	12352.29
2026	1031.72	965.16	1031.72	998.44	1031.72	998.44	1031.72	1031.72	998.44	1031.72	998.44	1031.72	12180.93
2027	1016.02	950.47	1016.02	983.25	1016.02	983.25	1016.02	1016.02	983.25	1016.02	983.25	1016.02	11995.61
2028	999.56	935.08	999.56	967.32	999.56	967.32	999.56	999.56	967.32	999.56	967.32	999.56	11801.30
2029	974.48	911.61	974.48	943.04	974.48	943.04	974.48	974.48	943.04	974.48	943.04	974.48	11505.12
2030	945.97	884.94	945.97	915.46	945.97	915.46	945.97	945.97	915.46	945.97	915.46	945.97	11168.60
2031	915.72	856.64	915.72	886.18	915.72	886.18	915.72	915.72	886.18	915.72	886.18	915.72	10811.44
2032	910.62	851.87	910.62	881.25	910.62	881.25	910.62	910.62	881.25	910.62	881.25	910.62	10751.20
2033	908.78	850.15	908.78	879.47	908.78	879.47	908.78	908.78	879.47	908.78	879.47	908.78	10729.48
2034	908.48	849.87	908.48	879.17	908.48	879.17	908.48	908.48	879.17	908.48	879.17	908.48	10725.89
2035	905.61	847.18	905.61	876.39	905.61	876.39	905.61	905.61	876.39	905.61	876.39	905.61	10692.01

San Diego Gas & Electric
RESIDENTIAL GAS DEMAND
FIGURE 6: FUEL SUBSTITUTION (AAFS SCENARIO 2)

SOURCE	YEAR	AAFS (Mdt)
Residential	2021	0.00
Residential	2022	7.41
Residential	2023	50.96
Residential	2024	113.39
Residential	2025	185.11
Residential	2026	263.34
Residential	2027	349.70
Residential	2028	442.58
Residential	2029	636.69
Residential	2030	865.31
Residential	2031	1106.03
Residential	2032	1356.76
Residential	2033	1599.48
Residential	2034	1831.14
Residential	2035	2034.29

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL BASE YEAR HISTORICAL DATA: YEAR 2021
 AT AVERAGE YEAR WEATHER**

Segment	2021 Therm Sales	2021 Meter Count	2021 Meter Count pre-78 customers	2021 Meter Count post-78 till "new" customers	2021 Meter Count New Customers	Average Annual Consumption pre-78 customers	Average Annual Consumption post-78 till "new" customers	Average Annual Consumption New Customers	Price Elasticity
Single_Family	211,568,025	658,858	542,570	112,118	4,170	307	388	303	-0.105
MULTI FAMILY	-	-	-	-	-	-	-	-	-
MM_Master_Meter	42,825,271	193,076	137,449	54,833	794	218	231	204	-0.071
r	26,854,154	11,437	10,997	438	2	2,183	6,496	3,192	-0.069
SM_Sub_Meter	6,358,247	414	411	3	1	15,322	20,249	1	-0.105

SAN DIEGO GAS & ELECTRIC
RESIDENTIAL MARKET
INCREMENTAL METER GROWTH BY MARKET SEGMENT

Year	SF Meters	MF2 Meters	MF3 Meters	MM Meters	SM Meters
2022	5,534	-	1,580	-	-
2023	6,472	-	1,848	-	-
2024	6,419	-	1,833	-	-
2025	6,399	-	1,827	-	-
2026	6,451	-	1,842	-	-
2027	6,388	-	1,824	-	-
2028	6,272	-	1,791	-	-
2029	6,211	-	1,773	-	-
2030	6,201	-	1,770	-	-
2031	6,167	-	1,761	-	-
2032	6,156	-	1,757	-	-
2033	6,221	-	1,776	-	-
2034	6,230	-	1,778	-	-
2035	6,258	-	1,786	-	-

SAN DIEGO GAS & ELECTRIC RESIDENTIAL MARKET AVERAGE GAS PRICES (\$/THERM)

Year	K SF Average Price	K MPZ Average Price	K MPJ Average Price	K MIM Average Price	K SIM Average Price
2021	1.7999	0.0000	1.8233	1.8395	1.8307
2022	1.9298	0.0000	1.9864	2.0256	2.0044
2023	1.9791	0.0000	2.0256	2.0579	2.0404
2024	1.9469	0.0000	1.9811	2.0048	1.9920
2025	1.9700	0.0000	2.0024	2.0247	2.0126
2026	2.0105	0.0000	2.0436	2.0665	2.0541
2027	2.0490	0.0000	2.0821	2.1049	2.0926
2028	2.0916	0.0000	2.1251	2.1482	2.1357
2029	2.1409	0.0000	2.1756	2.1996	2.1866
2030	2.1943	0.0000	2.2309	2.2562	2.2425
2031	2.2509	0.0000	2.2897	2.3165	2.3020
2032	2.3111	0.0000	2.3525	2.3813	2.3657
2033	2.3665	0.0000	2.4095	2.4393	2.4232
2034	2.4234	0.0000	2.4679	2.4988	2.4821
2035	2.4861	0.0000	2.5331	2.5656	2.5480

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET
 MARGINAL GAS PRICES**

Year	K SF Marginal Price	K MRZ Marginal Price	K MRS Marginal Price	K MIM Marginal Price	K SIM Marginal Price
2021	1.7058	0.0000	1.7058	1.7058	1.7058
2022	1.7947	0.0000	1.7947	1.7947	1.7947
2023	1.8116	0.0000	1.8116	1.8116	1.8116
2024	1.8421	0.0000	1.8421	1.8421	1.8421
2025	1.8794	0.0000	1.8794	1.8794	1.8794
2026	1.9182	0.0000	1.9182	1.9182	1.9182
2027	1.9592	0.0000	1.9592	1.9592	1.9592
2028	2.0034	0.0000	2.0034	2.0034	2.0034
2029	2.0496	0.0000	2.0496	2.0496	2.0496
2030	2.0974	0.0000	2.0974	2.0974	2.0974
2031	2.1469	0.0000	2.1469	2.1469	2.1469
2032	2.1963	0.0000	2.1963	2.1963	2.1963
2033	2.2471	0.0000	2.2471	2.2471	2.2471
2034	2.3000	0.0000	2.3000	2.3000	2.3000
2035	2.4032	0.0000	2.4032	2.4032	2.4032

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL AVERAGE ELECTRIC PRICES (CENTS/KWH)**

Year	K SF Average Price	K MF3 Average Price	K MM Average Price	K SM Average Price
2021	38.37	38.87	39.21	39.03
2022	34.38	35.39	36.09	35.71
2023	38.02	38.92	39.54	39.20
2024	39.64	40.34	40.82	40.56
2025	41.64	42.32	42.80	42.54
2026	42.92	43.62	44.11	43.85
2027	44.26	44.98	45.47	45.20
2028	45.94	46.68	47.18	46.91
2029	47.55	48.32	48.86	48.57
2030	49.09	49.91	50.47	50.17
2031	50.53	51.40	52.00	51.67
2032	52.00	52.94	53.58	53.23
2033	53.61	54.59	55.26	54.90
2034	55.29	56.31	57.01	56.63
2035	56.96	58.03	58.78	58.38

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARGINAL ELECTRIC PRICES (CENTS/KWH)**

Year	K SF	K MF3	K MM	K SM
	Marginal Price	Marginal Price	Marginal Price	Marginal Price
2021	58.06	58.82	40.55	43.92
2022	52.03	53.56	37.32	40.19
2023	57.53	58.89	40.88	44.11
2024	59.99	61.04	42.21	45.65
2025	63.01	64.04	44.25	47.87
2026	64.94	66.01	45.62	49.35
2027	66.98	68.06	47.02	50.87
2028	69.52	70.63	48.79	52.79
2029	71.96	73.12	50.52	54.66
2030	74.28	75.52	52.19	56.46
2031	76.46	77.78	53.77	58.15
2032	78.69	80.10	55.41	59.90
2033	81.13	82.60	57.14	61.78
2034	83.67	85.21	58.95	63.73
2035	86.19	87.82	60.78	65.69

SDG SATURATIONS

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL SATURATIONS**

bname	nname	VINT	SAT
MF2_2_TO_4_Units	Barbecue	-2.00	0.2932800000
MF2_2_TO_4_Units	Barbecue	-1.00	0.2830800000
MF2_2_TO_4_Units	Barbecue	0.00	0.3078300000
MF2_2_TO_4_Units	Cooking	-2.00	1.0000000000
MF2_2_TO_4_Units	Cooking	-1.00	1.0000000000
MF2_2_TO_4_Units	Cooking	0.00	1.0000000000
MF2_2_TO_4_Units	Drying	-2.00	0.6229600000
MF2_2_TO_4_Units	Drying	-1.00	0.7607000000
MF2_2_TO_4_Units	Drying	0.00	0.9199800000
MF2_2_TO_4_Units	Other	-2.00	1.0000000000
MF2_2_TO_4_Units	Other	-1.00	1.0000000000
MF2_2_TO_4_Units	Other	0.00	1.0000000000
MF2_2_TO_4_Units	Space_Heat	-2.00	1.0000000000
MF2_2_TO_4_Units	Space_Heat	-1.00	1.0000000000
MF2_2_TO_4_Units	Space_Heat	0.00	1.0000000000
MF2_2_TO_4_Units	Water_Heat	-2.00	1.0000000000
MF2_2_TO_4_Units	Water_Heat	-1.00	1.0000000000
MF2_2_TO_4_Units	Water_Heat	0.00	1.0000000000
MF3_GE_5_Units	Barbecue	-2.00	0.1832700000
MF3_GE_5_Units	Barbecue	-1.00	0.1618900000
MF3_GE_5_Units	Barbecue	0.00	0.2695400000
MF3_GE_5_Units	Cooking	-2.00	0.9963300000
MF3_GE_5_Units	Cooking	-1.00	1.0000000000
MF3_GE_5_Units	Cooking	0.00	1.0000000000
MF3_GE_5_Units	Drying	-2.00	0.3787200000
MF3_GE_5_Units	Drying	-1.00	0.6090200000
MF3_GE_5_Units	Drying	0.00	0.7511000000
MF3_GE_5_Units	Other	-2.00	1.0000000000
MF3_GE_5_Units	Other	-1.00	1.0000000000
MF3_GE_5_Units	Other	0.00	1.0000000000
MF3_GE_5_Units	Space_Heat	-2.00	1.0000000000
MF3_GE_5_Units	Space_Heat	-1.00	1.0000000000
MF3_GE_5_Units	Space_Heat	0.00	1.0000000000
MF3_GE_5_Units	Water_Heat	-2.00	1.0000000000
MF3_GE_5_Units	Water_Heat	-1.00	1.0000000000
MF3_GE_5_Units	Water_Heat	0.00	1.0000000000
MM_Master_Meter	Barbecue	-2.00	0.0742400000
MM_Master_Meter	Barbecue	-1.00	0.1017900000
MM_Master_Meter	Barbecue	0.00	0.1619800000
MM_Master_Meter	Cooking	-2.00	1.0000000000
MM_Master_Meter	Cooking	-1.00	1.0000000000
MM_Master_Meter	Cooking	0.00	1.0000000000
MM_Master_Meter	Drying	-2.00	0.4715800000
MM_Master_Meter	Drying	-1.00	0.5718200000
MM_Master_Meter	Drying	0.00	0.7476800000
MM_Master_Meter	Other	-2.00	1.0000000000
MM_Master_Meter	Other	-1.00	1.0000000000
MM_Master_Meter	Other	0.00	1.0000000000
MM_Master_Meter	Space_Heat	-2.00	1.0000000000

SDG_SATURATIONS

MM_Master_Meter	Space_Heat	-1.00	1.0000000000
MM_Master_Meter	Space_Heat	0.00	1.0000000000
MM_Master_Meter	Water_Heat	-2.00	1.0000000000
MM_Master_Meter	Water_Heat	-1.00	1.0000000000
MM_Master_Meter	Water_Heat	0.00	1.0000000000
Single_Family	Barbecue	-2.00	0.3836800000
Single_Family	Barbecue	-1.00	0.4409800000
Single_Family	Barbecue	0.00	0.5252000000
Single_Family	Cooking	-2.00	1.0000000000
Single_Family	Cooking	-1.00	1.0000000000
Single_Family	Cooking	0.00	1.0000000000
Single_Family	Drying	-2.00	0.8552100000
Single_Family	Drying	-1.00	0.8828100000
Single_Family	Drying	0.00	0.8738400000
Single_Family	Fireplace	-2.00	0.1387300000
Single_Family	Fireplace	-1.00	0.1799800000
Single_Family	Fireplace	0.00	0.1849700000
Single_Family	Other	-2.00	1.0000000000
Single_Family	Other	-1.00	1.0000000000
Single_Family	Other	0.00	1.0000000000
Single_Family	Pool	-2.00	0.1004800000
Single_Family	Pool	-1.00	0.1282500000
Single_Family	Pool	0.00	0.0866200000
Single_Family	Spa	-2.00	0.1089100000
Single_Family	Spa	-1.00	0.1689500000
Single_Family	Spa	0.00	0.1417100000
Single_Family	Space_Heat	-2.00	1.0000000000
Single_Family	Space_Heat	-1.00	1.0000000000
Single_Family	Space_Heat	0.00	1.0000000000
Single_Family	Water_Heat	-2.00	1.0000000000
Single_Family	Water_Heat	-1.00	1.0000000000
Single_Family	Water_Heat	0.00	1.0000000000
SM_Sub_Meter	Barbecue	-2.00	0.0742400000
SM_Sub_Meter	Barbecue	-1.00	0.1017900000
SM_Sub_Meter	Barbecue	0.00	0.0000000000
SM_Sub_Meter	Cooking	-2.00	1.0000000000
SM_Sub_Meter	Cooking	-1.00	1.0000000000
SM_Sub_Meter	Cooking	0.00	0.0000000000
SM_Sub_Meter	Drying	-2.00	0.4715800000
SM_Sub_Meter	Drying	-1.00	0.5718200000
SM_Sub_Meter	Drying	0.00	0.0000000000
SM_Sub_Meter	Other	-2.00	1.0000000000
SM_Sub_Meter	Other	-1.00	1.0000000000
SM_Sub_Meter	Other	0.00	0.0000000000
SM_Sub_Meter	Space_Heat	-2.00	1.0000000000
SM_Sub_Meter	Space_Heat	-1.00	1.0000000000
SM_Sub_Meter	Space_Heat	0.00	0.0000000000
SM_Sub_Meter	Water_Heat	-2.00	1.0000000000
SM_Sub_Meter	Water_Heat	-1.00	1.0000000000
SM_Sub_Meter	Water_Heat	0.00	0.0000000000

E-SHARES INITIAL

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	baseAvgEShare	baseMargEShareExisting
Natural_Gas	Stock	001	001	001	1	1	0.06	0.06
Natural_Gas	Standard	001	001	001	1	2	0.78	0.78
Natural_Gas	High	001	001	001	1	3	0.14	0.14
Natural_Gas	Premium	001	001	001	1	4	0.02	0.02
Electric	Stock	001	001	001	2	1	1	1
Natural_Gas	Stock	001	001	002	1	1	0	0
Natural_Gas	Standard	001	001	002	1	2	0.64	0.64
Natural_Gas	High	001	001	002	1	3	0.34	0.34
Natural_Gas	Premium	001	001	002	1	4	0.02	0.02
Electric	Stock	001	001	002	2	1	0.1	0.1
Electric	Standard	001	001	002	2	2	0.68	0.68
Electric	High	001	001	002	2	3	0.21	0.21
Electric	Premium	001	001	002	2	4	0.01	0.01
Natural_Gas	Stock	001	001	003	1	1	0.17	0.17
Natural_Gas	Standard	001	001	003	1	2	0.83	0.83
Electric	Stock	001	001	003	2	1	0.9	0.9
Electric	Standard	001	001	003	2	2	0.1	0.1
Natural_Gas	Stock	001	001	004	1	1	0.07	0.07
Natural_Gas	Standard	001	001	004	1	2	0.93	0.93
Electric	Stock	001	001	004	2	1	0.75	0.75
Electric	Standard	001	001	004	2	2	0.25	0.25
Natural_Gas	Stock	001	001	005	1	1	1	1
Electric	Stock	001	001	005	2	1	1	1
Natural_Gas	Stock	001	001	006	1	1	1	1
Electric	Stock	001	001	006	2	1	1	1
Natural_Gas	Stock	001	001	007	1	1	1	1
Electric	Stock	001	001	007	2	1	1	1
Natural_Gas	Stock	001	001	008	1	1	1	1
Electric	Stock	001	001	008	2	1	1	1
Natural_Gas	Stock	001	001	009	1	1	1	1

E-SHARES INITIAL

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	baseAvgEShare	baseMargEShareExisting
Natural_Gas	Stock	001	002	001	1	1	0.02	0.02
Natural_Gas	Standard	001	002	001	1	2	0.83	0.83
Natural_Gas	High	001	002	001	1	3	0.12	0.12
Natural_Gas	Premium	001	002	001	1	4	0.03	0.03
Electric	Stock	001	002	001	2	1	1	1
Natural_Gas	Stock	001	002	002	1	1	0	0
Natural_Gas	Standard	001	002	002	1	2	0.55	0.55
Natural_Gas	High	001	002	002	1	3	0.44	0.44
Natural_Gas	Premium	001	002	002	1	4	0.01	0.01
Electric	Stock	001	002	002	2	1	0.22	0.22
Electric	Standard	001	002	002	2	2	0.61	0.61
Electric	High	001	002	002	2	3	0.16	0.16
Electric	Premium	001	002	002	2	4	0.01	0.01
Natural_Gas	Stock	001	002	003	1	1	0.16	0.16
Natural_Gas	Standard	001	002	003	1	2	0.84	0.84
Electric	Stock	001	002	003	2	1	0.95	0.95
Electric	Standard	001	002	003	2	2	0.05	0.05
Natural_Gas	Stock	001	002	004	1	1	0.06	0.06
Natural_Gas	Standard	001	002	004	1	2	0.94	0.94
Electric	Stock	001	002	004	2	1	0.75	0.75
Electric	Standard	001	002	004	2	2	0.25	0.25
Natural_Gas	Stock	001	002	008	1	1	1	1
Electric	Stock	001	002	008	2	1	1	1
Natural_Gas	Stock	001	002	009	1	1	1	1
Natural_Gas	Stock	001	003	001	1	1	0.41	0.41
Natural_Gas	Standard	001	003	001	1	2	0.46	0.46
Natural_Gas	High	001	003	001	1	3	0.008	0.008
Natural_Gas	Premium	001	003	001	1	4	0.04	0.04
Electric	Stock	001	003	001	2	1	1	1
Natural_Gas	Stock	001	003	002	1	1	0	0

E-SHARES INITIAL

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	baseAvgEShare	baseMargEShareExisting
Natural_Gas	Standard	001	003	002	1	2	0.61	0.61
Natural_Gas	High	001	003	002	1	3	0.37	0.37
Natural_Gas	Premium	001	003	002	1	4	0.02	0.02
Electric	Stock	001	003	002	2	1	0.13	0.13
Electric	Standard	001	003	002	2	2	0.76	0.76
Electric	High	001	003	002	2	3	0.1	0.1
Electric	Premium	001	003	002	2	4	0.01	0.01
Natural_Gas	Stock	001	003	003	1	1	0.18	0.18
Natural_Gas	Standard	001	003	003	1	2	0.82	0.82
Electric	Stock	001	003	003	2	1	0.95	0.95
Electric	Standard	001	003	003	2	2	0.05	0.05
Natural_Gas	Stock	001	003	004	1	1	0.06	0.06
Natural_Gas	Standard	001	003	004	1	2	0.94	0.94
Electric	Stock	001	003	004	2	1	0.75	0.75
Electric	Standard	001	003	004	2	2	0.25	0.25
Natural_Gas	Stock	001	003	008	1	1	1	1
Electric	Stock	001	003	008	2	1	1	1
Natural_Gas	Stock	001	003	009	1	1	1	1
Natural_Gas	Stock	001	004	001	1	1	0.17	0.17
Natural_Gas	Standard	001	004	001	1	2	0.69	0.69
Natural_Gas	High	001	004	001	1	3	0.11	0.11
Natural_Gas	Premium	001	004	001	1	4	0.03	0.03
Electric	Stock	001	004	001	2	1	1	1
Natural_Gas	Stock	001	004	002	1	1	0	0
Natural_Gas	Standard	001	004	002	1	2	0.59	0.59
Natural_Gas	High	001	004	002	1	3	0.39	0.39
Natural_Gas	Premium	001	004	002	1	4	0.02	0.02
Electric	Stock	001	004	002	2	1	0.13	0.13
Electric	Standard	001	004	002	2	2	0.76	0.76
Electric	High	001	004	002	2	3	0.1	0.1

E-SHARES INITIAL

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	baseAvgEShare	baseMargEShareExisting
Electric	Premium	001	004	002	2	4	0.01	0.01
Natural_Gas	Stock	001	004	003	1	1	0.17	0.17
Natural_Gas	Standard	001	004	003	1	2	0.83	0.83
Electric	Stock	001	004	003	2	1	0.95	0.95
Electric	Standard	001	004	003	2	2	0.05	0.05
Natural_Gas	Stock	001	004	004	1	1	0.06	0.06
Natural_Gas	Standard	001	004	004	1	2	0.94	0.94
Electric	Stock	001	004	004	2	1	0.75	0.75
Electric	Standard	001	004	004	2	2	0.25	0.25
Natural_Gas	Stock	001	004	008	1	1	1	1
Electric	Stock	001	004	008	2	1	1	1
Natural_Gas	Stock	001	004	009	1	1	1	1
Natural_Gas	Stock	001	005	001	1	1	0.06	0.06
Natural_Gas	Standard	001	005	001	1	2	0.78	0.78
Natural_Gas	High	001	005	001	1	3	0.14	0.14
Natural_Gas	Premium	001	005	001	1	4	0.02	0.02
Electric	Stock	001	005	001	2	1	1	1
Natural_Gas	Stock	001	005	002	1	1	0	0
Natural_Gas	Standard	001	005	002	1	2	0.64	0.64
Natural_Gas	High	001	005	002	1	3	0.34	0.34
Natural_Gas	Premium	001	005	002	1	4	0.02	0.02
Electric	Stock	001	005	002	2	1	0.1	0.1
Electric	Standard	001	005	002	2	2	0.68	0.68
Electric	High	001	005	002	2	3	0.21	0.21
Electric	Premium	001	005	002	2	4	0.01	0.01
Natural_Gas	Stock	001	005	003	1	1	0.17	0.17
Natural_Gas	Standard	001	005	003	1	2	0.83	0.83
Electric	Stock	001	005	003	2	1	0.95	0.95
Electric	Standard	001	005	003	2	2	0.05	0.05
Natural_Gas	Stock	001	005	004	1	1	0.07	0.07

E-SHARES INITIAL

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	baseAvgEShare	baseMargEShare	Existing
Natural_Gas	Standard	001	005	004	1	2	0.93		0.93
Electric	Stock	001	005	004	2	1	0.75		0.75
Electric	Standard	001	005	004	2	2	0.25		0.25
Natural_Gas	Stock	001	005	008	1	1	1		1
Electric	Stock	001	005	008	2	1	1		1
Natural_Gas	Stock	001	005	009	1	1	1		1

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	baseMargEShareConversion	baseMargEShareNew
Natural_Gas	Stock	001	001	001	1	1	0.06	0.06
Natural_Gas	Standard	001	001	001	1	2	0.78	0.78
Natural_Gas	High	001	001	001	1	3	0.14	0.14
Natural_Gas	Premium	001	001	001	1	4	0.02	0.02
Electric	Stock	001	001	001	2	1	1	1
Natural_Gas	Stock	001	001	002	1	1	0	0
Natural_Gas	Standard	001	001	002	1	2	0.64	0.64
Natural_Gas	High	001	001	002	1	3	0.34	0.34
Natural_Gas	Premium	001	001	002	1	4	0.02	0.02
Electric	Stock	001	001	002	2	1	0.1	0.1
Electric	Standard	001	001	002	2	2	0.68	0.68
Electric	High	001	001	002	2	3	0.21	0.21
Electric	Premium	001	001	002	2	4	0.01	0.01
Natural_Gas	Stock	001	001	003	1	1	0.17	0.17
Natural_Gas	Standard	001	001	003	1	2	0.83	0.83
Electric	Stock	001	001	003	2	1	0.9	0.9
Electric	Standard	001	001	003	2	2	0.1	0.1
Natural_Gas	Stock	001	001	004	1	1	0.07	0.07
Natural_Gas	Standard	001	001	004	1	2	0.93	0.93
Electric	Stock	001	001	004	2	1	0.75	0.75
Electric	Standard	001	001	004	2	2	0.25	0.25
Natural_Gas	Stock	001	001	005	1	1	1	1
Electric	Stock	001	001	005	2	1	1	1
Natural_Gas	Stock	001	001	006	1	1	1	1
Electric	Stock	001	001	006	2	1	1	1
Natural_Gas	Stock	001	001	007	1	1	1	1
Electric	Stock	001	001	007	2	1	1	1
Natural_Gas	Stock	001	001	008	1	1	1	1
Electric	Stock	001	001	008	2	1	1	1
Natural_Gas	Stock	001	001	009	1	1	1	1

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	baseMargEShareConversion	baseMargEShareNew
Natural_Gas	Stock	001	002	001	1	1	0.02	0.02
Natural_Gas	Standard	001	002	001	1	2	0.83	0.83
Natural_Gas	High	001	002	001	1	3	0.12	0.12
Natural_Gas	Premium	001	002	001	1	4	0.03	0.03
Electric	Stock	001	002	001	2	1	1	1
Natural_Gas	Stock	001	002	002	1	1	0	0
Natural_Gas	Standard	001	002	002	1	2	0.55	0.55
Natural_Gas	High	001	002	002	1	3	0.44	0.44
Natural_Gas	Premium	001	002	002	1	4	0.01	0.01
Electric	Stock	001	002	002	2	1	0.22	0.22
Electric	Standard	001	002	002	2	2	0.61	0.61
Electric	High	001	002	002	2	3	0.16	0.16
Electric	Premium	001	002	002	2	4	0.01	0.01
Natural_Gas	Stock	001	002	003	1	1	0.16	0.16
Natural_Gas	Standard	001	002	003	1	2	0.84	0.84
Electric	Stock	001	002	003	2	1	0.95	0.95
Electric	Standard	001	002	003	2	2	0.05	0.05
Natural_Gas	Stock	001	002	004	1	1	0.06	0.06
Natural_Gas	Standard	001	002	004	1	2	0.94	0.94
Electric	Stock	001	002	004	2	1	0.75	0.75
Electric	Standard	001	002	004	2	2	0.25	0.25
Natural_Gas	Stock	001	002	008	1	1	1	1
Electric	Stock	001	002	008	2	1	1	1
Natural_Gas	Stock	001	002	009	1	1	1	1
Natural_Gas	Stock	001	003	001	1	1	0.41	0.41
Natural_Gas	Standard	001	003	001	1	2	0.46	0.46
Natural_Gas	High	001	003	001	1	3	0.008	0.008
Natural_Gas	Premium	001	003	001	1	4	0.04	0.04
Electric	Stock	001	003	001	2	1	1	1
Natural_Gas	Stock	001	003	002	1	1	0	0

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	baseMargEShareConversion	baseMargEShareNew
Natural_Gas	Standard	001	003	002	1	2	0.61	0.61
Natural_Gas	High	001	003	002	1	3	0.37	0.37
Natural_Gas	Premium	001	003	002	1	4	0.02	0.02
Electric	Stock	001	003	002	2	1	0.13	0.13
Electric	Standard	001	003	002	2	2	0.76	0.76
Electric	High	001	003	002	2	3	0.1	0.1
Electric	Premium	001	003	002	2	4	0.01	0.01
Natural_Gas	Stock	001	003	003	1	1	0.18	0.18
Natural_Gas	Standard	001	003	003	1	2	0.82	0.82
Electric	Stock	001	003	003	2	1	0.95	0.95
Electric	Standard	001	003	003	2	2	0.05	0.05
Natural_Gas	Stock	001	003	004	1	1	0.06	0.06
Natural_Gas	Standard	001	003	004	1	2	0.94	0.94
Electric	Stock	001	003	004	2	1	0.75	0.75
Electric	Standard	001	003	004	2	2	0.25	0.25
Natural_Gas	Stock	001	003	008	1	1	1	1
Electric	Stock	001	003	008	2	1	1	1
Natural_Gas	Stock	001	003	009	1	1	1	1
Natural_Gas	Stock	001	004	001	1	1	0.17	0.17
Natural_Gas	Standard	001	004	001	1	2	0.69	0.69
Natural_Gas	High	001	004	001	1	3	0.11	0.11
Natural_Gas	Premium	001	004	001	1	4	0.03	0.03
Electric	Stock	001	004	001	2	1	1	1
Natural_Gas	Stock	001	004	002	1	1	0	0
Natural_Gas	Standard	001	004	002	1	2	0.59	0.59
Natural_Gas	High	001	004	002	1	3	0.39	0.39
Natural_Gas	Premium	001	004	002	1	4	0.02	0.02
Electric	Stock	001	004	002	2	1	0.13	0.13
Electric	Standard	001	004	002	2	2	0.76	0.76
Electric	High	001	004	002	2	3	0.1	0.1

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	baseMargEShareConversion	baseMargEShareNew
Electric	Premium	001	004	002	2	4	0.01	0.01
Natural_Gas	Stock	001	004	003	1	1	0.17	0.17
Natural_Gas	Standard	001	004	003	1	2	0.83	0.83
Electric	Stock	001	004	003	2	1	0.95	0.95
Electric	Standard	001	004	003	2	2	0.05	0.05
Natural_Gas	Stock	001	004	004	1	1	0.06	0.06
Natural_Gas	Standard	001	004	004	1	2	0.94	0.94
Electric	Stock	001	004	004	2	1	0.75	0.75
Electric	Standard	001	004	004	2	2	0.25	0.25
Natural_Gas	Stock	001	004	008	1	1	1	1
Electric	Stock	001	004	008	2	1	1	1
Natural_Gas	Stock	001	004	009	1	1	1	1
Natural_Gas	Stock	001	005	001	1	1	0.06	0.06
Natural_Gas	Standard	001	005	001	1	2	0.78	0.78
Natural_Gas	High	001	005	001	1	3	0.14	0.14
Natural_Gas	Premium	001	005	001	1	4	0.02	0.02
Electric	Stock	001	005	001	2	1	1	1
Natural_Gas	Stock	001	005	002	1	1	0	0
Natural_Gas	Standard	001	005	002	1	2	0.64	0.64
Natural_Gas	High	001	005	002	1	3	0.34	0.34
Natural_Gas	Premium	001	005	002	1	4	0.02	0.02
Electric	Stock	001	005	002	2	1	0.1	0.1
Electric	Standard	001	005	002	2	2	0.68	0.68
Electric	High	001	005	002	2	3	0.21	0.21
Electric	Premium	001	005	002	2	4	0.01	0.01
Natural_Gas	Stock	001	005	003	1	1	0.17	0.17
Natural_Gas	Standard	001	005	003	1	2	0.83	0.83
Electric	Stock	001	005	003	2	1	0.95	0.95
Electric	Standard	001	005	003	2	2	0.05	0.05
Natural_Gas	Stock	001	005	004	1	1	0.07	0.07

E-SHARES INITIAL

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	baseMargEShareConversion	baseMargEShareNew
Natural_Gas	Standard	001	005	004	1	2	0.93	0.93
Electric	Stock	001	005	004	2	1	0.75	0.75
Electric	Standard	001	005	004	2	2	0.25	0.25
Natural_Gas	Stock	001	005	008	1	1	1	1
Electric	Stock	001	005	008	2	1	1	1
Natural_Gas	Stock	001	005	009	1	1	1	1

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	peakDayLoadFactor
Natural_Gas	Stock	001	001	001	1	1	0.002739726
Natural_Gas	Standard	001	001	001	1	2	0.002739726
Natural_Gas	High	001	001	001	1	3	0.002739726
Natural_Gas	Premium	001	001	001	1	4	0.002739726
Electric	Stock	001	001	001	2	1	0.002739726
Natural_Gas	Stock	001	001	002	1	1	0.002739726
Natural_Gas	Standard	001	001	002	1	2	0.002739726
Natural_Gas	High	001	001	002	1	3	0.002739726
Natural_Gas	Premium	001	001	002	1	4	0.002739726
Electric	Stock	001	001	002	2	1	0.002739726
Electric	Standard	001	001	002	2	2	0.002739726
Electric	High	001	001	002	2	3	0.002739726
Electric	Premium	001	001	002	2	4	0.002739726
Natural_Gas	Stock	001	001	003	1	1	0.002739726
Natural_Gas	Standard	001	001	003	1	2	0.002739726
Electric	Stock	001	001	003	2	1	0.002739726
Electric	Standard	001	001	003	2	2	0.002739726
Natural_Gas	Stock	001	001	004	1	1	0.002739726
Natural_Gas	Standard	001	001	004	1	2	0.002739726
Electric	Stock	001	001	004	2	1	0.002739726
Electric	Standard	001	001	004	2	2	0.002739726
Natural_Gas	Stock	001	001	005	1	1	0.002739726
Electric	Stock	001	001	005	2	1	0.002739726
Natural_Gas	Stock	001	001	006	1	1	0.002739726
Electric	Stock	001	001	006	2	1	0.002739726
Natural_Gas	Stock	001	001	007	1	1	0.002739726
Electric	Stock	001	001	007	2	1	0.002739726
Natural_Gas	Stock	001	001	008	1	1	0.002739726
Electric	Stock	001	001	008	2	1	0.002739726
Natural_Gas	Stock	001	001	009	1	1	0.002739726

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	peakDayLoadFactor
Natural_Gas	Stock	001	002	001	1	1	0.002739726
Natural_Gas	Standard	001	002	001	1	2	0.002739726
Natural_Gas	High	001	002	001	1	3	0.002739726
Natural_Gas	Premium	001	002	001	1	4	0.002739726
Electric	Stock	001	002	001	2	1	0.002739726
Natural_Gas	Stock	001	002	002	1	1	0.002739726
Natural_Gas	Standard	001	002	002	1	2	0.002739726
Natural_Gas	High	001	002	002	1	3	0.002739726
Natural_Gas	Premium	001	002	002	1	4	0.002739726
Electric	Stock	001	002	002	2	1	0.002739726
Electric	Standard	001	002	002	2	2	0.002739726
Electric	High	001	002	002	2	3	0.002739726
Electric	Premium	001	002	002	2	4	0.002739726
Natural_Gas	Stock	001	002	003	1	1	0.002739726
Natural_Gas	Standard	001	002	003	1	2	0.002739726
Electric	Stock	001	002	003	2	1	0.002739726
Electric	Standard	001	002	003	2	2	0.002739726
Natural_Gas	Stock	001	002	004	1	1	0.002739726
Natural_Gas	Standard	001	002	004	1	2	0.002739726
Electric	Stock	001	002	004	2	1	0.002739726
Electric	Standard	001	002	004	2	2	0.002739726
Natural_Gas	Stock	001	002	008	1	1	0.002739726
Electric	Stock	001	002	008	2	1	0.002739726
Natural_Gas	Stock	001	002	009	1	1	0.002739726
Natural_Gas	Stock	001	003	001	1	1	0.002739726
Natural_Gas	Standard	001	003	001	1	2	0.002739726
Natural_Gas	High	001	003	001	1	3	0.002739726
Natural_Gas	Premium	001	003	001	1	4	0.002739726
Electric	Stock	001	003	001	2	1	0.002739726
Natural_Gas	Stock	001	003	002	1	1	0.002739726

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	peakDayLoadFactor
Natural_Gas	Standard	001	003	002	1	2	0.002739726
Natural_Gas	High	001	003	002	1	3	0.002739726
Natural_Gas	Premium	001	003	002	1	4	0.002739726
Electric	Stock	001	003	002	2	1	0.002739726
Electric	Standard	001	003	002	2	2	0.002739726
Electric	High	001	003	002	2	3	0.002739726
Electric	Premium	001	003	002	2	4	0.002739726
Natural_Gas	Stock	001	003	003	1	1	0.002739726
Natural_Gas	Standard	001	003	003	1	2	0.002739726
Electric	Stock	001	003	003	2	1	0.002739726
Electric	Standard	001	003	003	2	2	0.002739726
Natural_Gas	Stock	001	003	004	1	1	0.002739726
Natural_Gas	Standard	001	003	004	1	2	0.002739726
Electric	Stock	001	003	004	2	1	0.002739726
Electric	Standard	001	003	004	2	2	0.002739726
Natural_Gas	Stock	001	003	008	1	1	0.002739726
Electric	Stock	001	003	008	2	1	0.002739726
Natural_Gas	Stock	001	003	009	1	1	0.002739726
Natural_Gas	Stock	001	004	001	1	1	0.002739726
Natural_Gas	Standard	001	004	001	1	2	0.002739726
Natural_Gas	High	001	004	001	1	3	0.002739726
Natural_Gas	Premium	001	004	001	1	4	0.002739726
Electric	Stock	001	004	001	2	1	0.002739726
Natural_Gas	Stock	001	004	002	1	1	0.002739726
Natural_Gas	Standard	001	004	002	1	2	0.002739726
Natural_Gas	High	001	004	002	1	3	0.002739726
Natural_Gas	Premium	001	004	002	1	4	0.002739726
Electric	Stock	001	004	002	2	1	0.002739726
Electric	Standard	001	004	002	2	2	0.002739726
Electric	High	001	004	002	2	3	0.002739726

**SAN DIEGO GAS & ELECTRIC
 E-SHARES INITIAL**

fName	eName	z	b	n	f	e	peakDayLoadFactor
Electric	Premium	001	004	002	2	4	0.002739726
Natural_Gas	Stock	001	004	003	1	1	0.002739726
Natural_Gas	Standard	001	004	003	1	2	0.002739726
Electric	Stock	001	004	003	2	1	0.002739726
Electric	Standard	001	004	003	2	2	0.002739726
Natural_Gas	Stock	001	004	004	1	1	0.002739726
Natural_Gas	Standard	001	004	004	1	2	0.002739726
Electric	Stock	001	004	004	2	1	0.002739726
Electric	Standard	001	004	004	2	2	0.002739726
Natural_Gas	Stock	001	004	008	1	1	0.002739726
Electric	Stock	001	004	008	2	1	0.002739726
Natural_Gas	Stock	001	004	009	1	1	0.002739726
Natural_Gas	Stock	001	005	001	1	1	0.002739726
Natural_Gas	Standard	001	005	001	1	2	0.002739726
Natural_Gas	High	001	005	001	1	3	0.002739726
Natural_Gas	Premium	001	005	001	1	4	0.002739726
Electric	Stock	001	005	001	2	1	0.002739726
Natural_Gas	Stock	001	005	002	1	1	0.002739726
Natural_Gas	Standard	001	005	002	1	2	0.002739726
Natural_Gas	High	001	005	002	1	3	0.002739726
Natural_Gas	Premium	001	005	002	1	4	0.002739726
Electric	Stock	001	005	002	2	1	0.002739726
Electric	Standard	001	005	002	2	2	0.002739726
Electric	High	001	005	002	2	3	0.002739726
Electric	Premium	001	005	002	2	4	0.002739726
Natural_Gas	Stock	001	005	003	1	1	0.002739726
Natural_Gas	Standard	001	005	003	1	2	0.002739726
Electric	Stock	001	005	003	2	1	0.002739726
Electric	Standard	001	005	003	2	2	0.002739726
Natural_Gas	Stock	001	005	004	1	1	0.002739726

**SAN DIEGO GAS & ELECTRIC
E-SHARES INITIAL**

fName	eName	z	b	n	f	e	peakDayLoadFactor
Natural_Gas	Standard	001	005	004	1	2	0.002739726
Electric	Stock	001	005	004	2	1	0.002739726
Electric	Standard	001	005	004	2	2	0.002739726
Natural_Gas	Stock	001	005	008	1	1	0.002739726
Electric	Stock	001	005	008	2	1	0.002739726
Natural_Gas	Stock	001	005	009	1	1	0.002739726

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET F-SHARES INITIAL**

zName	bName	nName	fName	z	b	n	f	baseAvgFShare	baseMargFShareExisting
Residential Single_Family	Space_Heat	Natural_Gas	001	001	001	001	1	0.97607	0.922753357
Residential Single_Family	Space_Heat	Electric	001	001	001	001	2	0.02393	0.077246643
Residential Single_Family	Water_Heat	Natural_Gas	001	001	001	002	1	0.99743	0.958312924
Residential Single_Family	Water_Heat	Electric	001	001	001	002	2	0.00257	0.041687076
Residential Single_Family	Cooking	Natural_Gas	001	001	001	003	1	0.73715	0.723421156
Residential Single_Family	Cooking	Electric	001	001	001	003	2	0.26285	0.276578844
Residential Single_Family	Drying	Natural_Gas	001	001	001	004	1	0.74407	0.760039071
Residential Single_Family	Drying	Electric	001	001	001	004	2	0.25593	0.239960929
Residential Single_Family	Pool	Natural_Gas	001	001	001	005	1	0.21802	0.808709672
Residential Single_Family	Pool	Electric	001	001	001	005	2	0.78198	0.191290328
Residential Single_Family	Spa	Natural_Gas	001	001	001	006	1	0.39471	0.535153293
Residential Single_Family	Spa	Electric	001	001	001	006	2	0.60529	0.464846707
Residential Single_Family	Fireplace	Natural_Gas	001	001	001	007	1	0.34917	0.581563136
Residential Single_Family	Fireplace	Electric	001	001	001	007	2	0.65083	0.418436864
Residential Single_Family	Barbecue	Natural_Gas	001	001	001	008	1	0.248	0.233711209
Residential Single_Family	Barbecue	Electric	001	001	001	008	2	0.752	0.766288791
Residential Single_Family	Other	Natural_Gas	001	001	001	009	1	1	1
Residential MF2_2_TO_4_Units	Space_Heat	Natural_Gas	001	002	002	001	1	0.93456	0.916761865
Residential MF2_2_TO_4_Units	Space_Heat	Electric	001	002	002	001	2	0.06544	0.083238135
Residential MF2_2_TO_4_Units	Water_Heat	Natural_Gas	001	002	002	002	1	0.95	0.963744862
Residential MF2_2_TO_4_Units	Water_Heat	Electric	001	002	002	002	2	0.05	0.036255138
Residential MF2_2_TO_4_Units	Cooking	Natural_Gas	001	002	002	003	1	0.49159	0.768358086
Residential MF2_2_TO_4_Units	Cooking	Electric	001	002	002	003	2	0.50841	0.231641914
Residential MF2_2_TO_4_Units	Drying	Natural_Gas	001	002	002	004	1	0.55931	0.722859745
Residential MF2_2_TO_4_Units	Drying	Electric	001	002	002	004	2	0.44069	0.277140255
Residential MF2_2_TO_4_Units	Barbecue	Natural_Gas	001	002	002	008	1	0.16951	0.20207569
Residential MF2_2_TO_4_Units	Barbecue	Electric	001	002	002	008	2	0.83049	0.79792431
Residential MF2_2_TO_4_Units	Other	Natural_Gas	001	002	002	009	1	1	1
Residential MF3_GE_5_Units	Space_Heat	Natural_Gas	001	003	003	001	1	0.87178	0.850991428

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET F-SHARES INITIAL**

zName	bName	nName	fName	z	b	n	f	baseAvgFShare	baseMargFShareExisting
Residential MF3_GE_5_Units	Space_Heat	Electric	001	003	001	2	0.12822	0.149008572	
Residential MF3_GE_5_Units	Water_Heat	Natural_Gas	001	003	002	1	0.75963	0.902447158	
Residential MF3_GE_5_Units	Water_Heat	Electric	001	003	002	2	0.24037	0.097552842	
Residential MF3_GE_5_Units	Cooking	Natural_Gas	001	003	003	1	0.62866	0.860093177	
Residential MF3_GE_5_Units	Cooking	Electric	001	003	003	2	0.37134	0.139906823	
Residential MF3_GE_5_Units	Drying	Natural_Gas	001	003	004	1	0.37218	0.664849831	
Residential MF3_GE_5_Units	Drying	Electric	001	003	004	2	0.62782	0.335150169	
Residential MF3_GE_5_Units	Barbecue	Natural_Gas	001	003	008	1	0.31362	0.141486694	
Residential MF3_GE_5_Units	Barbecue	Electric	001	003	008	2	0.68638	0.858513306	
Residential MF3_GE_5_Units	Other	Natural_Gas	001	003	009	1	1	1	
Residential MM_Master_Meter	Space_Heat	Natural_Gas	001	004	001	1	0.92461	0.96097894	
Residential MM_Master_Meter	Space_Heat	Electric	001	004	001	2	0.07539	0.03902106	
Residential MM_Master_Meter	Water_Heat	Natural_Gas	001	004	002	1	0.92997	0.961358896	
Residential MM_Master_Meter	Water_Heat	Electric	001	004	002	2	0.07003	0.038641104	
Residential MM_Master_Meter	Cooking	Natural_Gas	001	004	003	1	0.81058	0.874390507	
Residential MM_Master_Meter	Cooking	Electric	001	004	003	2	0.18942	0.125609493	
Residential MM_Master_Meter	Drying	Natural_Gas	001	004	004	1	0.703062484	0.718982088	
Residential MM_Master_Meter	Drying	Electric	001	004	004	2	0.296937516	0.281017912	
Residential MM_Master_Meter	Barbecue	Natural_Gas	001	004	008	1	0.892335374	0.022999709	
Residential MM_Master_Meter	Barbecue	Electric	001	004	008	2	0.107664626	0.977000291	
Residential MM_Master_Meter	Other	Natural_Gas	001	004	009	1	1	1	
Residential SM_Sub_Meter	Space_Heat	Natural_Gas	001	005	001	1	0.92461	0.96097894	
Residential SM_Sub_Meter	Space_Heat	Electric	001	005	001	2	0.07539	0.03902106	
Residential SM_Sub_Meter	Water_Heat	Natural_Gas	001	005	002	1	0.92997	0.961358896	
Residential SM_Sub_Meter	Water_Heat	Electric	001	005	002	2	0.07003	0.038641104	
Residential SM_Sub_Meter	Cooking	Natural_Gas	001	005	003	1	0.81058	0.874390507	
Residential SM_Sub_Meter	Cooking	Electric	001	005	003	2	0.18942	0.125609493	
Residential SM_Sub_Meter	Drying	Natural_Gas	001	005	004	1	0.703062484	0.718982088	
Residential SM_Sub_Meter	Drying	Electric	001	005	004	2	0.296937516	0.281017912	

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET F-SHARES INITIAL**

zName	bName	nName	fName	z	b	n	f	baseAvgFShare	baseMargFShareExisting
Residential SM_Sub_Meter	Barbecue	Natural_Gas	001	005	008	1		0.892335374	0.022999709
Residential SM_Sub_Meter	Barbecue	Electric	001	005	008	2		0.107664626	0.977000291
Residential SM_Sub_Meter	Other	Natural_Gas	001	005	009	1		1	1

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET F-SHARES INITIAL**

zName	bName	nName	fName	z	b	n	f	baseMargFShareConversion
Residential Single_Family	Space_Heat	Natural_Gas	001	001	001	001	1	0.922753357
Residential Single_Family	Space_Heat	Electric	001	001	001	001	2	0.077246643
Residential Single_Family	Water_Heat	Natural_Gas	001	001	001	002	1	1
Residential Single_Family	Water_Heat	Electric	001	001	001	002	2	0
Residential Single_Family	Cooking	Natural_Gas	001	001	001	003	1	0.723421156
Residential Single_Family	Cooking	Electric	001	001	001	003	2	0.276578844
Residential Single_Family	Drying	Natural_Gas	001	001	001	004	1	0.760039071
Residential Single_Family	Drying	Electric	001	001	001	004	2	0.239960929
Residential Single_Family	Pool	Natural_Gas	001	001	001	005	1	0.808709672
Residential Single_Family	Pool	Electric	001	001	001	005	2	0.191290328
Residential Single_Family	Spa	Natural_Gas	001	001	001	006	1	0.535153293
Residential Single_Family	Spa	Electric	001	001	001	006	2	0.464846707
Residential Single_Family	Fireplace	Natural_Gas	001	001	001	007	1	0.581563136
Residential Single_Family	Fireplace	Electric	001	001	001	007	2	0.418436864
Residential Single_Family	Barbecue	Natural_Gas	001	001	001	008	1	0.233711209
Residential Single_Family	Barbecue	Electric	001	001	001	008	2	0.766288791
Residential Single_Family	Other	Natural_Gas	001	001	001	009	1	1
Residential MF2_2_TO_4_Units	Space_Heat	Natural_Gas	001	002	002	001	1	0.916761865
Residential MF2_2_TO_4_Units	Space_Heat	Electric	001	002	002	001	2	0.083238135
Residential MF2_2_TO_4_Units	Water_Heat	Natural_Gas	001	002	002	002	1	1
Residential MF2_2_TO_4_Units	Water_Heat	Electric	001	002	002	002	2	0
Residential MF2_2_TO_4_Units	Cooking	Natural_Gas	001	002	002	003	1	0.768358086
Residential MF2_2_TO_4_Units	Cooking	Electric	001	002	002	003	2	0.231641914
Residential MF2_2_TO_4_Units	Drying	Natural_Gas	001	002	002	004	1	0.722859745
Residential MF2_2_TO_4_Units	Drying	Electric	001	002	002	004	2	0.277140255
Residential MF2_2_TO_4_Units	Barbecue	Natural_Gas	001	002	002	008	1	0.20207569
Residential MF2_2_TO_4_Units	Barbecue	Electric	001	002	002	008	2	0.79792431
Residential MF2_2_TO_4_Units	Other	Natural_Gas	001	002	002	009	1	1
Residential MF3_GE_5_Unit	Space_Heat	Natural_Gas	001	003	003	001	1	0.850991428

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET F-SHARES INITIAL**

zName	bName	nName	fName	z	b	n	f	baseMargFShareConversion
Residential MF3_GE_5_Units	Space_Heat	Electric	001	003	001	2		0.149008572
Residential MF3_GE_5_Units	Water_Heat	Natural_Gas	001	003	002	1		1
Residential MF3_GE_5_Units	Water_Heat	Electric	001	003	002	2		0
Residential MF3_GE_5_Units	Cooking	Natural_Gas	001	003	003	1		0.860093177
Residential MF3_GE_5_Units	Cooking	Electric	001	003	003	2		0.139906823
Residential MF3_GE_5_Units	Drying	Natural_Gas	001	003	004	1		0.664849831
Residential MF3_GE_5_Units	Drying	Electric	001	003	004	2		0.335150169
Residential MF3_GE_5_Units	Barbecue	Natural_Gas	001	003	008	1		0.141486694
Residential MF3_GE_5_Units	Barbecue	Electric	001	003	008	2		0.858513306
Residential MF3_GE_5_Units	Other	Natural_Gas	001	003	009	1		1
Residential MM_Master_Meter	Space_Heat	Natural_Gas	001	004	001	1		0.96097894
Residential MM_Master_Meter	Space_Heat	Electric	001	004	001	2		0.03902106
Residential MM_Master_Meter	Water_Heat	Natural_Gas	001	004	002	1		1
Residential MM_Master_Meter	Water_Heat	Electric	001	004	002	2		0
Residential MM_Master_Meter	Cooking	Natural_Gas	001	004	003	1		0.874390507
Residential MM_Master_Meter	Cooking	Electric	001	004	003	2		0.125609493
Residential MM_Master_Meter	Drying	Natural_Gas	001	004	004	1		0.718982088
Residential MM_Master_Meter	Drying	Electric	001	004	004	2		0.281017912
Residential MM_Master_Meter	Barbecue	Natural_Gas	001	004	008	1		0.022999709
Residential MM_Master_Meter	Barbecue	Electric	001	004	008	2		0.977000291
Residential MM_Master_Meter	Other	Natural_Gas	001	004	009	1		1
Residential SM_Sub_Meter	Space_Heat	Natural_Gas	001	005	001	1		0.96097894
Residential SM_Sub_Meter	Space_Heat	Electric	001	005	001	2		0.03902106
Residential SM_Sub_Meter	Water_Heat	Natural_Gas	001	005	002	1		1
Residential SM_Sub_Meter	Water_Heat	Electric	001	005	002	2		0
Residential SM_Sub_Meter	Cooking	Natural_Gas	001	005	003	1		0.874390507
Residential SM_Sub_Meter	Cooking	Electric	001	005	003	2		0.125609493
Residential SM_Sub_Meter	Drying	Natural_Gas	001	005	004	1		0.718982088
Residential SM_Sub_Meter	Drying	Electric	001	005	004	2		0.281017912

**SAN DIEGO GAS & ELECTRIC
RESIDENTIAL MARKET F-SHARES INITIAL**

zName	bName	nName	fName	z	b	n	f	baseMargFShareConversion
Residential SM_Sub_Meter	Barbecue	Natural_Gas	001	005	008	1		0.022999709
Residential SM_Sub_Meter	Barbecue	Electric	001	005	008	2		0.977000291
Residential SM_Sub_Meter	Other	Natural_Gas	001	005	009	1		1

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET F-SHARES INITIAL**

zName	bName	nName	fName	z	b	n	f	baseMargFShareNew
Residential Single_Family	Space_Heat	Natural_Gas	001	001	001	001	1	0.98629
Residential Single_Family	Space_Heat	Electric	001	001	001	001	2	0.01371
Residential Single_Family	Water_Heat	Natural_Gas	001	001	001	002	1	1
Residential Single_Family	Water_Heat	Electric	001	001	001	002	2	0
Residential Single_Family	Cooking	Natural_Gas	001	001	001	003	1	0.86323
Residential Single_Family	Cooking	Electric	001	001	001	003	2	0.13677
Residential Single_Family	Drying	Natural_Gas	001	001	001	004	1	0.83394
Residential Single_Family	Drying	Electric	001	001	001	004	2	0.16606
Residential Single_Family	Pool	Natural_Gas	001	001	001	005	1	0.40316
Residential Single_Family	Pool	Electric	001	001	001	005	2	0.59684
Residential Single_Family	Spa	Natural_Gas	001	001	001	006	1	0.55333
Residential Single_Family	Spa	Electric	001	001	001	006	2	0.44667
Residential Single_Family	Fireplace	Natural_Gas	001	001	001	007	1	0.87654
Residential Single_Family	Fireplace	Electric	001	001	001	007	2	0.12346
Residential Single_Family	Barbecue	Natural_Gas	001	001	001	008	1	0.52829
Residential Single_Family	Barbecue	Electric	001	001	001	008	2	0.47171
Residential Single_Family	Other	Natural_Gas	001	001	001	009	1	1
Residential MF2_2_TO_4_Units	Space_Heat	Natural_Gas	001	001	002	001	1	0.94964
Residential MF2_2_TO_4_Units	Space_Heat	Electric	001	001	002	001	2	0.05036
Residential MF2_2_TO_4_Units	Water_Heat	Natural_Gas	001	001	002	002	1	1
Residential MF2_2_TO_4_Units	Water_Heat	Electric	001	001	002	002	2	0
Residential MF2_2_TO_4_Units	Cooking	Natural_Gas	001	001	002	003	1	0.94927
Residential MF2_2_TO_4_Units	Cooking	Electric	001	001	002	003	2	0.05073
Residential MF2_2_TO_4_Units	Drying	Natural_Gas	001	001	002	004	1	0.55931
Residential MF2_2_TO_4_Units	Drying	Electric	001	001	002	004	2	0.44069
Residential MF2_2_TO_4_Units	Barbecue	Natural_Gas	001	001	002	008	1	0.30133
Residential MF2_2_TO_4_Units	Barbecue	Electric	001	001	002	008	2	0.69867
Residential MF2_2_TO_4_Units	Other	Natural_Gas	001	001	002	009	1	1
Residential MF3_GE_5_Units	Space_Heat	Natural_Gas	001	001	003	001	1	0.90941

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET F-SHARES INITIAL**

zName	bName	nName	fName	z	b	n	f	baseMargFShareNew
Residential MF3_GE_5_Units	Space_Heat	Electric	001	003	001	2	0.09059	
Residential MF3_GE_5_Units	Water_Heat	Natural_Gas	001	003	002	1	0.88611	
Residential MF3_GE_5_Units	Water_Heat	Electric	001	003	002	2	0.11389	
Residential MF3_GE_5_Units	Cooking	Natural_Gas	001	003	003	1	0.74596	
Residential MF3_GE_5_Units	Cooking	Electric	001	003	003	2	0.25404	
Residential MF3_GE_5_Units	Drying	Natural_Gas	001	003	004	1	0.65911	
Residential MF3_GE_5_Units	Drying	Electric	001	003	004	2	0.34089	
Residential MF3_GE_5_Units	Barbecue	Natural_Gas	001	003	008	1	0.2059	
Residential MF3_GE_5_Units	Barbecue	Electric	001	003	008	2	0.7941	
Residential MF3_GE_5_Units	Other	Natural_Gas	001	003	009	1	1	
Residential MM_Master_Meter	Space_Heat	Natural_Gas	001	004	001	1	0.6	
Residential MM_Master_Meter	Space_Heat	Electric	001	004	001	2	0.4	
Residential MM_Master_Meter	Water_Heat	Natural_Gas	001	004	002	1	1	
Residential MM_Master_Meter	Water_Heat	Electric	001	004	002	2	0	
Residential MM_Master_Meter	Cooking	Natural_Gas	001	004	003	1	0.6	
Residential MM_Master_Meter	Cooking	Electric	001	004	003	2	0.4	
Residential MM_Master_Meter	Drying	Natural_Gas	001	004	004	1	0.6	
Residential MM_Master_Meter	Drying	Electric	001	004	004	2	0.4	
Residential MM_Master_Meter	Barbecue	Natural_Gas	001	004	008	1	0	
Residential MM_Master_Meter	Barbecue	Electric	001	004	008	2	1	
Residential MM_Master_Meter	Other	Natural_Gas	001	004	009	1	1	
Residential SM_Sub_Meter	Space_Heat	Natural_Gas	001	005	001	1	1	
Residential SM_Sub_Meter	Space_Heat	Electric	001	005	001	2	0	
Residential SM_Sub_Meter	Water_Heat	Natural_Gas	001	005	002	1	1	
Residential SM_Sub_Meter	Water_Heat	Electric	001	005	002	2	0	
Residential SM_Sub_Meter	Cooking	Natural_Gas	001	005	003	1	1	
Residential SM_Sub_Meter	Cooking	Electric	001	005	003	2	0	
Residential SM_Sub_Meter	Drying	Natural_Gas	001	005	004	1	0	
Residential SM_Sub_Meter	Drying	Electric	001	005	004	2	1	

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET F-SHARES INITIAL**

zName	bName	nName	fName	z	b	n	f	baseMargFShareNew
Residential SM_Sub_Meter		Barbecue	Natural_Gas	001	005	008	1	0
Residential SM_Sub_Meter		Barbecue	Electric	001	005	008	2	1
Residential SM_Sub_Meter		Other	Natural_Gas	001	005	009	1	1

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET EQUIPMENT AGE**

zName	bName	nName	vintage	equipmentMaxAge	equipmentMeanAge	z	b	n	hvints
Residential Single_Family	Space_Heat	Space_Heat	-2	17	17	001	001	001	3
Residential Single_Family	Space_Heat	Space_Heat	-1	17	10	001	001	001	3
Residential Single_Family	Space_Heat	Space_Heat	0	17	3	001	001	001	3
Residential Single_Family	Water_Heat	Water_Heat	-2	7	7	001	001	002	3
Residential Single_Family	Water_Heat	Water_Heat	-1	7	7	001	001	002	3
Residential Single_Family	Water_Heat	Water_Heat	0	7	3	001	001	002	3
Residential Single_Family	Cooking	Cooking	-2	12	12	001	001	003	3
Residential Single_Family	Cooking	Cooking	-1	12	10	001	001	003	3
Residential Single_Family	Cooking	Cooking	0	12	2	001	001	003	3
Residential Single_Family	Drying	Drying	-2	8	8	001	001	004	3
Residential Single_Family	Drying	Drying	-1	8	8	001	001	004	3
Residential Single_Family	Drying	Drying	0	8	6	001	001	004	3
Residential Single_Family	Pool	Pool	-2	13	13	001	001	005	3
Residential Single_Family	Pool	Pool	-1	13	9	001	001	005	3
Residential Single_Family	Pool	Pool	0	13	3	001	001	005	3
Residential Single_Family	Spa	Spa	-2	11	11	001	001	006	3
Residential Single_Family	Spa	Spa	-1	11	8	001	001	006	3
Residential Single_Family	Spa	Spa	0	11	3	001	001	006	3
Residential Single_Family	Fireplace	Fireplace	-2	15	15	001	001	007	3
Residential Single_Family	Fireplace	Fireplace	-1	15	15	001	001	007	3
Residential Single_Family	Fireplace	Fireplace	0	15	15	001	001	007	3
Residential Single_Family	Barbecue	Barbecue	-2	7	7	001	001	008	3
Residential Single_Family	Barbecue	Barbecue	-1	7	7	001	001	008	3
Residential Single_Family	Barbecue	Barbecue	0	7	5	001	001	008	3
Residential Single_Family	Other	Other	-2	15	15	001	001	009	3
Residential Single_Family	Other	Other	-1	15	15	001	001	009	3
Residential Single_Family	Other	Other	0	15	15	001	001	009	3
Residential MF2_2_TO_4_Units	Space_Heat	Space_Heat	-2	15	15	001	002	001	3
Residential MF2_2_TO_4_Units	Space_Heat	Space_Heat	-1	15	12	001	002	001	3
Residential MF2_2_TO_4_Units	Space_Heat	Space_Heat	0	15	4	001	002	001	3

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET EQUIPMENT AGE**

zName	bName	nName	vintage	equipmentMaxAge	equipmentMeanAge	z	b	n	hvints
Residential MF2_2_TO_4_Units	Water_Heat	-2	8	7	001	002	002	3	
Residential MF2_2_TO_4_Units	Water_Heat	-1	8	8	001	002	002	3	
Residential MF2_2_TO_4_Units	Water_Heat	0	8	2	001	002	002	3	
Residential MF2_2_TO_4_Units	Cooking	-2	10	10	001	002	003	3	
Residential MF2_2_TO_4_Units	Cooking	-1	10	9	001	002	003	3	
Residential MF2_2_TO_4_Units	Cooking	0	10	2	001	002	003	3	
Residential MF2_2_TO_4_Units	Drying	-2	9	7	001	002	004	3	
Residential MF2_2_TO_4_Units	Drying	-1	9	9	001	002	004	3	
Residential MF2_2_TO_4_Units	Drying	0	9	3	001	002	004	3	
Residential MF2_2_TO_4_Units	Barbecue	-2	6	5	001	002	008	3	
Residential MF2_2_TO_4_Units	Barbecue	-1	6	6	001	002	008	3	
Residential MF2_2_TO_4_Units	Barbecue	0	6	3	001	002	008	3	
Residential MF2_2_TO_4_Units	Other	-2	15	15	001	002	009	3	
Residential MF2_2_TO_4_Units	Other	-1	15	15	001	002	009	3	
Residential MF2_2_TO_4_Units	Other	0	15	15	001	002	009	3	
Residential MF3_GE_5_Units	Space_Heat	-2	15	15	001	003	001	3	
Residential MF3_GE_5_Units	Space_Heat	-1	15	11	001	003	001	3	
Residential MF3_GE_5_Units	Space_Heat	0	15	4	001	003	001	3	
Residential MF3_GE_5_Units	Water_Heat	-2	8	6	001	003	002	3	
Residential MF3_GE_5_Units	Water_Heat	-1	8	8	001	003	002	3	
Residential MF3_GE_5_Units	Water_Heat	0	8	4	001	003	002	3	
Residential MF3_GE_5_Units	Cooking	-2	11	10	001	003	003	3	
Residential MF3_GE_5_Units	Cooking	-1	11	11	001	003	003	3	
Residential MF3_GE_5_Units	Cooking	0	11	4	001	003	003	3	
Residential MF3_GE_5_Units	Drying	-2	8	6	001	003	004	3	
Residential MF3_GE_5_Units	Drying	-1	8	8	001	003	004	3	
Residential MF3_GE_5_Units	Drying	0	8	3	001	003	004	3	
Residential MF3_GE_5_Units	Barbecue	-2	5	5	001	003	008	3	
Residential MF3_GE_5_Units	Barbecue	-1	5	5	001	003	008	3	
Residential MF3_GE_5_Units	Barbecue	0	5	5	001	003	008	3	

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET EQUIPMENT AGE**

zName	bName	nName	vintage	equipmentMaxAge	equipmentMeanAge	z	b	n	hvints
Residential MF3_GE_5_Units	Other	Other	-2	15	15	001	003	009	3
Residential MF3_GE_5_Units	Other	Other	-1	15	15	001	003	009	3
Residential MF3_GE_5_Units	Other	Other	0	15	15	001	003	009	3
Residential MM_Master_Meter	Space_Heat	Space_Heat	-2	16	16	001	004	001	3
Residential MM_Master_Meter	Space_Heat	Space_Heat	-1	16	11	001	004	001	3
Residential MM_Master_Meter	Space_Heat	Space_Heat	0	16	4	001	004	001	3
Residential MM_Master_Meter	Water_Heat	Water_Heat	-2	8	6	001	004	002	3
Residential MM_Master_Meter	Water_Heat	Water_Heat	-1	8	8	001	004	002	3
Residential MM_Master_Meter	Water_Heat	Water_Heat	0	8	4	001	004	002	3
Residential MM_Master_Meter	Cooking	Cooking	-2	14	14	001	004	003	3
Residential MM_Master_Meter	Cooking	Cooking	-1	14	11	001	004	003	3
Residential MM_Master_Meter	Cooking	Cooking	0	14	3	001	004	003	3
Residential MM_Master_Meter	Drying	Drying	-2	8	8	001	004	004	3
Residential MM_Master_Meter	Drying	Drying	-1	8	8	001	004	004	3
Residential MM_Master_Meter	Drying	Drying	0	8	4	001	004	004	3
Residential MM_Master_Meter	Barbecue	Barbecue	-2	9	5	001	004	008	3
Residential MM_Master_Meter	Barbecue	Barbecue	-1	9	9	001	004	008	3
Residential MM_Master_Meter	Barbecue	Barbecue	0	9	2	001	004	008	3
Residential MM_Master_Meter	Other	Other	-2	15	15	001	004	009	3
Residential MM_Master_Meter	Other	Other	-1	15	15	001	004	009	3
Residential MM_Master_Meter	Other	Other	0	15	15	001	004	009	3
Residential SM_Sub_Meter	Space_Heat	Space_Heat	-2	16	16	001	005	001	3
Residential SM_Sub_Meter	Space_Heat	Space_Heat	-1	16	11	001	005	001	3
Residential SM_Sub_Meter	Space_Heat	Space_Heat	0	16	4	001	005	001	3
Residential SM_Sub_Meter	Water_Heat	Water_Heat	-2	8	6	001	005	002	3
Residential SM_Sub_Meter	Water_Heat	Water_Heat	-1	8	8	001	005	002	3
Residential SM_Sub_Meter	Water_Heat	Water_Heat	0	8	4	001	005	002	3
Residential SM_Sub_Meter	Cooking	Cooking	-2	14	14	001	005	003	3
Residential SM_Sub_Meter	Cooking	Cooking	-1	14	11	001	005	003	3
Residential SM_Sub_Meter	Cooking	Cooking	0	14	3	001	005	003	3

**SAN DIEGO GAS & ELECTRIC
 RESIDENTIAL MARKET EQUIPMENT AGE**

zName	bName	nName	vintage	equipmentMaxAge	equipmentMeanAge	z	b	n	hvints
Residential SM_Sub_Meter		Drying	-2	8	8	001	005	004	3
Residential SM_Sub_Meter		Drying	-1	8	8	001	005	004	3
Residential SM_Sub_Meter		Drying	0	8	4	001	005	004	3
Residential SM_Sub_Meter		Barbecue	-2	9	5	001	005	008	3
Residential SM_Sub_Meter		Barbecue	-1	9	9	001	005	008	3
Residential SM_Sub_Meter		Barbecue	0	9	2	001	005	008	3
Residential SM_Sub_Meter		Other	-2	15	15	001	005	009	3
Residential SM_Sub_Meter		Other	-1	15	15	001	005	009	3
Residential SM_Sub_Meter		Other	0	15	15	001	005	009	3

**DOCUMENTATION ABOUT
ADDITIONAL ACHIEVABLE FUEL SUBSTITUTION (AAFS)**

**REFERENCE PREPARED BY
THE CALIFORNIA ENERGY COMMISSION**

Additional Achievable Fuel Substitution (2021 AAFS)

***- IEPR Volume IV (p33-49 & Appendix A)
“CA Energy Demand Forecast”***

<https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2021-integrated-energy-policy-report>





Used AAEE as a template for **AAFS**

- *For 2021 we developed Additional Achievable Fuel Substitution (AAFS) as an hourly load modifier to the baseline demand forecast.*
- We used a manner similar to the one which was developed for AAEE for AAFS; ie. a “template”
- **AAFS was conceptualized as separate from AAEE**



2021 Additions and Enhancements

Removed Fuel Substitution

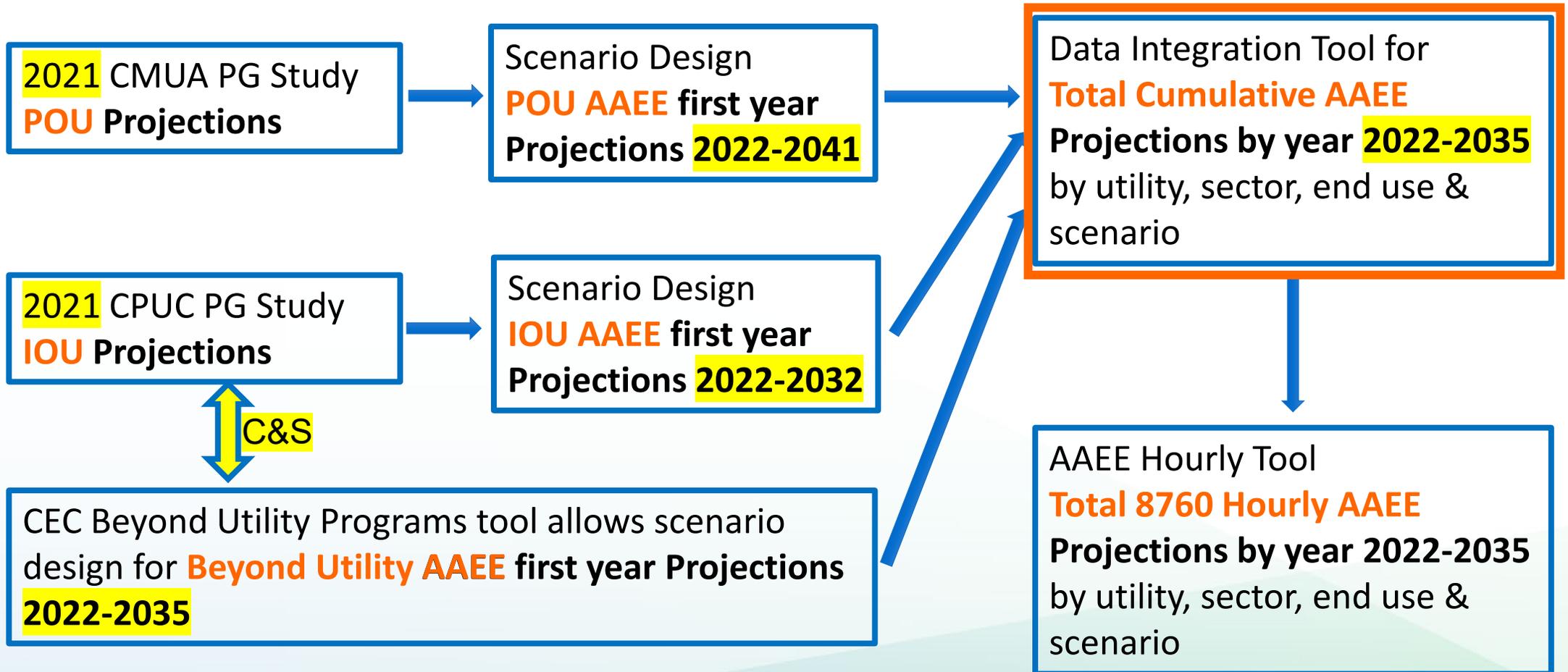
- Supplanted by Additional Achievable Fuel Substitution (AAFS)

ADDED new workbooks

- CCA and REN Program Savings (not yet modeled in PG Study)
- T24 Res & Com New Construction Fuel Sub
- Clean Energy Optimization Program (CEOP)
- IOU Low Income Fuel Sub
- POU Fuel Sub
- SGIP HPWH Incentives
- TECH-BUILD
(SB 1477 Low Emissions Buildings and Sources of Heat Energy))
- Food Processing Investment Program (FPIP)



Additional Achievable Energy Efficiency (AAEE) 2021 Process Flow Overview





Scenario Development for 2021 AAE

Lever	Mid - Very Low (Scenario 1)	Mid - Low (Scenario 2)	Mid - Mid (Scenario 3)	Mid - High (Scenario 4)	Mid - Very High (Scenario 5)	Mid - High Plus (Scenario 6)
Building Stock	2019 IEPR Mid-Case					
Retail Prices						

IOU Potential Program Savings

POU Potential Program Savings

Codes and Standards Savings

Beyond Utility Program Savings



Development of 2021 AAFS



Scenario Development for 2021 AAFS

		<i>actually more conservative planing scenarios ></i>				
		<i>less FS penetration</i>	<i>reference BAU</i>	<i>more FS penetration</i>	<i>meet AB 3232 goals ?</i>	<i>meet mid-century goals ?</i>
Lever		Mid - Low (Scenario 2)	Mid - Mid (Scenario 3)	Mid - Mid Plus (Scenario 4)	Mid - High (Scenario 5)	Mid - High Plus (Scenario 6)
Building Stock	2019 IEPR Mid-Case					
Retail Prices						

IOU Potential Program Impacts

POU Potential Program Impacts

Codes and Standards Impacts

Beyond Utility Program Impacts



2021 IOU AAFS Scenario Design

Lever	Mid - Low (Scenario 2)	Mid - Mid (Scenario 3)	Mid - Mid Plus (Scenario 4)	Mid - High (Scenario 5)	Mid - High Plus (Scenario 6)
Building Stock	2019 IEPR Mid-Case				
Retail Prices					
AIMS	Reference	Reference	Average of Reference & Aggressive		Aggressive
Incentive Levels	capped at 25% of incremental cost	capped at 50% of incremental cost	capped at 50% of incremental cost		capped at 75% of incremental cost
C-E Measure Screening Threshold (TRC using 2020 ACC for 2022-2023; 2021 ACC for 2024-2032)	1	0.85	0.85		0.75
Marketing & Outreach = Rebate Program Engagement Assumptions	Default calibrated value	Default calibrated value = Reference	Increased marketing strength		
Financing Programs	No modeled impacts	No modeled impacts	IOU financing programs broadly available to Res and Com customers		
FS program cost adjustments	20% more than existing levels	no change		20% less than existing levels	
FS equipment cost adjustments	20% more than existing levels	no change		20% less than existing levels	
DR co-benefits: on vs. off	off			on	
IOU Low Income Fuel Substitution Program Contributions	low FS impacts	reference FS impacts		aggressive FS impacts	



2021 C&S AAFS Scenario Design

Lever	Mid - Low (Scenario 2)	Mid - Mid (Scenario 3)	Mid - Mid Plus (Scenario 4)	Mid - High (Scenario 5)	Mid - High Plus (Scenario 6)
Building Stock	2019 IEPR Mid-Case				
Retail Prices					
Title 24				adding potential updates in the 2028 Standards at a compliance rate reduction and low uptake rate	adding potential updates in the 2028 Standards at the reference compliance rate and high uptake rate
			adding potential updates in the 2025 Standards at a compliance rate reduction and low uptake rate	adding potential updates in the 2025 Standards at a compliance rate reduction and low uptake rate	adding potential updates in the 2025 Standards at the reference compliance rate and high uptake rate
		adding the building electrification encouraged by the 2022 Standards at a 20% compliance rate reduction and low uptake rate	adding the building electrification encouraged by the 2022 Standards at the reference compliance rate and reference uptake rate	adding the building electrification encouraged by the 2022 Standards at at a 20% compliance rate enhancement and high uptake rate	



2021 Beyond Utility AAFS Scenario Design

Lever	Mid - Low (Scenario 2)	Mid - Mid (Scenario 3)	Mid - Mid Plus (Scenario 4)	Mid - High (Scenario 5)	Mid - High Plus (Scenario 6)			
Building Stock	2019 IEPR Mid-Case							
Retail Prices	2019 IEPR Mid-Case							
CCA RENs 2021 New	none	low FS impacts	reference FS impacts		aggressive FS impacts			
LGO 2021		none	low FS impacts	reference FS impacts		aggressive FS impacts		
CEOP 2021 New			none	low FS impacts	reference FS impacts		aggressive FS impacts	
TECH-BUILD 2021 New				none	low FS impacts	reference FS impacts		aggressive FS impacts
SGIP HPWH 2021 New					low FS impacts	reference FS impacts		aggressive FS impacts
FPIP 2021 New		none	conservative FS impacts	reference FS impacts	aggressive FS impacts			
Industrial 2021		none	conservative FS impacts	reference FS impacts	aggressive FS impacts			
Ag 2021	none	conservative FS impacts	reference FS impacts	aggressive FS impacts				

- Programmatic FS may not be of the magnitude needed to meet various policy goals
- Programmatic FS can be input to the FSSAT to determine what remaining gas displacement remains

Speculative FSSAT Contribution	% NC	none	none	additional "what if" substitution added to meet minimum AB 3232 goals	additional "what if" substitution added to meet mid-century GHG goals
	% ROB				
	% RET				

2022 CALIFORNIA GAS REPORT

CORE COMMERCIAL AND INDUSTRIAL DEMAND FORECAST



Core Commercial Segment

The core commercial model was estimated with the EU Forecaster tool.

The level of employment in each business sector is used as a measure of economic activity in the core commercial and core industrial sectors (GN-3 rate classification). The employment data series matches the NAICS categories used to develop the historical consumption data. The employment data was compiled and totaled for the SDG&E service territory. The forecast data comes from Global Insight.

Building and Equipment Decay Rates

Building decay rates are based on the building lifetimes, whereas the lifetime is defined as the length of the time it takes for either a demolition or a major renovation where major systems are replaced. For existing core building and facilities, an exponential rate of decay of 11% per year was assumed. This is consistent with an average remaining life for existing buildings of 100 years. A building decay rate concept is not relevant to large gas transport (noncore) customers. In both the commercial and industrial noncore models, the existing building decay rate was set to zero.

Similarly, all new construction decay rates were assumed to be zero over the forecast horizon. The assumption was required because the growth of new buildings and facilities was tied directly to the econometric models.

End Use Life Cycles:

Commercial

Space Heating: 25 years

Water Heating: 15 years

AC/Compressors: 20 years

All other commercial end uses: 15 years

Industrial

Fire Tube Boiler: 25 years

Water Tube Boiler: 25 years

Engine (motors): 25 years

All other industrial end uses: 20 years

Equipment Saturations, Fuel Shares and Efficiency Shares

EU Forecaster defines saturation as the percentage of customers in any segment that has a particular end use, independent of fuel shares. The commercial models developed saturation and fuel share estimates from our other models. EU Forecaster adjusted core commercial fuel shares according to a set of fuel-choice equations over the forecast horizon.

End use saturations in the industrial model were initially set equal to 100%. Industrial end use gas fuel shares were initially approximated. An iterative procedure was used to further adjust industrial saturation and fuel shares such that the EU Forecaster sales totals matched the SDG&E industrial sales figures. Finally, all commercial and industrial fuel shares were held constant over the forecast horizon.

Energy efficiency varies within the major gas end uses and processes, including all boilers, space heaters and water heaters. Four levels of efficiency were assigned to gas equipment: low, medium (standard), high and premium exist for the core

commercial sectors. There are three efficiency levels assigned to the core industrial market. These are low, standard and high.

California state and the U.S. federal standards have effectively eliminated the lowest efficiency alternatives for several gas end uses from being purchased as new or replacement equipment. The lowest efficiency alternative for these end uses is, therefore, allowed to exist in the base year stock, but the customer must purchase either standard, high or premium efficiency equipment as the units decay. The low efficiency share in the existing equipment stock was set equal to 50%.

Gas Price Data

Average and marginal gas prices (\$/therm) were calculated from forecasts of the GN-3 rate components. We used underlying detailed consumption data to separate monthly consumption for customers by each commercial business type into the respective GN-3 consumption tiers. (The most recent 12-month calendar period, January through December 2021, of this detailed consumption data was used.)

For a given business type, the average gas commodity rate for the 12-month period was calculated for each year. The average commodity rate in each forecast year was developed using the same monthly consumption pattern, but with the forecasts of rates for each GN-3 rate tier. The average gas price each year was then calculated by including the non-volumetric customer charges with the year's average gas commodity rate.

Each respective business type's marginal gas commodity rate (for each month) was calculated by "pricing" the entire month's consumption at the GN-3 rate's tier that was the last tier with non-zero consumption, the marginal consumption tier, for the customers of the given business type. The marginal gas price was then calculated as the simple average of the 12 monthly marginal commodity rates. The forecasts for each year used the same monthly consumption pattern, but used the projected GN-3 price of the marginal consumption tier.

Electric Price Data:

Both average prices (cents/kWh) and marginal prices (cents/kWh) were developed as electricity price inputs. Forecasts for the SDG&E commercial customer class were developed based on the California Energy Commission's December 2021 forecast rates for California energy demand (forecast for the SDG&E planning area, under "Mid-Case" demand for electricity) for the SDG&E service area through our forecast time horizon

The electricity prices for SDG&E's GN-3 Commercial customers were estimated at 112% of the CEC's projected commercial electricity prices. These were the average electricity prices for the GN-3 core commercial market, overall.

The marginal prices were calculated by multiplying each year's respective average price by a ratio. This ratio, 1.000, was used and is the same as the ratio used for the SoCalGas core commercial G-10 end-use model.

To impute, in each year, average and marginal electricity prices to each core commercial business type, we simply calculated the ratio of the average (or marginal) gas price to the overall core commercial gas price for each business type, then multiplied by the overall average (or marginal) electricity price.

Energy Efficiency Forecast

The end use gas demand forecast developed with the EUF Forecaster does not capture the effects of SDG&E's EE programs. Energy savings goals from the CPUC's mandated energy efficiency/energy conservation programs for the core commercial and industrial models were estimated by SDG&E's EE group. The EE savings were subtracted from the baseline forecast to generate a final forecast.

Fuel Substitution

The AAFS Scenario 2 energy savings were subtracted from the baseline forecast to generate a final forecast for the GN3 segment.

Climate Change

Climate change was incorporated in the forecast. To account for the less cold weather over time, the average year weather design was adjusted by 6 Hdd fewer each year into the forecast horizon.

GN-3 Core Commercial Data Tables

SAN DIEGO GAS AND ELECTRIC
 CORE COMMERCIAL HISTORICAL DATA: BASE YEAR INPUTS

Segment	2021 Therm Sales	2021 Meter Count,		2021 Meter Count New Customers	Avg Use Per Meter Existing Customers	Avg Use Per Meter New Customers	Price Elasticity
		2021 Meter Count	Existing/Old customers				
Office	32,939,953	6,103.0	6,088.0	15.0	5,401.1	3,890.5	-0.072000
Restaurant	33,129,542	5,630	5,610	20	5,879.2	7,364.6	-0.001000
Retail	10,648,621	2,570	2,557	13	4,150.9	2,681.0	-0.032000
Laundry	4,872,389	377	377	1	12,924.1	1.0	-0.026000
Warehouse	3,115,517	553	550	3	5,645.0	3,595.9	-0.142000
School	3,106,170	843	839	4	3,689.6	2,653.6	-0.103000
College	5,192,869	334	332	2	15,597.6	7,238.7	-0.090000
Health	12,393,085	691	689	2	17,918.9	23,491.7	-0.052000
Lodging	12,817,785	792	789	3	16,146.2	26,146.7	-0.013000
Misc	14,270,395	5,326	5,076	250	2,673.1	2,807.0	-0.030000
Government	13,879,029	724	723	1	19,176.9	14,104.0	-0.060000
TCU	6,610,571	1,360	1,358	2	4,866.9	662.2	-0.162000
Construction	1,294,854	629	624	5	2,044.3	3,842.4	-0.179000
Agriculture	2,612,692	90	89	1	29,342.2	1,232.6	-0.059000
	156,883,473	26,022	25,701	322			

**SAN DIEGO GAS AND ELECTRIC
 CORE COMMERCIAL FORECAST
 DEMAND FORECAST: AVERAGE YEAR FOECAST**

YEAR	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	TOTAL
2021	1731.81	1630.16	1513.41	1366.19	1164.30	1047.26	1013.95	1011.95	1014.80	1079.15	1354.80	1760.57	15688.35
2022	1790.07	1685.20	1564.86	1413.26	1204.95	1084.29	1049.91	1047.85	1050.79	1117.13	1401.47	1819.60	16229.36
2023	1809.55	1703.74	1582.44	1429.75	1219.53	1097.87	1063.16	1061.09	1064.05	1130.95	1417.81	1839.22	16419.16
2024	1809.64	1704.03	1583.06	1430.93	1221.08	1099.73	1065.07	1062.99	1065.96	1132.69	1418.98	1839.12	16433.28
2025	1805.94	1700.76	1580.39	1429.14	1220.08	1099.30	1064.76	1062.69	1065.64	1132.07	1417.19	1835.17	16413.12
2026	1799.14	1694.56	1574.98	1424.88	1216.99	1096.98	1062.62	1060.57	1063.50	1129.50	1412.96	1828.06	16364.73
2027	1791.44	1687.53	1568.81	1419.93	1213.30	1094.12	1059.97	1057.92	1060.84	1126.38	1408.04	1820.05	16308.34
2028	1783.38	1680.14	1562.31	1414.68	1209.36	1091.05	1057.09	1055.06	1057.96	1123.03	1402.83	1811.66	16248.56
2029	1775.36	1672.80	1555.85	1409.47	1205.45	1087.99	1054.25	1052.23	1055.11	1119.71	1397.65	1803.31	16189.16
2030	1758.42	1657.06	1541.60	1397.22	1195.55	1079.55	1046.18	1044.18	1047.03	1110.83	1385.50	1785.90	16049.01
2031	1739.01	1639.00	1525.18	1383.02	1183.98	1069.60	1036.66	1034.69	1037.50	1100.41	1371.41	1765.98	15886.44
2032	1726.00	1626.96	1514.36	1373.87	1176.72	1063.53	1030.89	1028.94	1031.72	1093.98	1362.33	1752.57	15781.87
2033	1709.64	1611.76	1500.61	1362.07	1167.20	1055.43	1023.15	1021.22	1023.98	1085.46	1350.62	1735.74	15646.88
2034	1691.47	1594.87	1485.28	1348.86	1156.47	1046.24	1014.36	1012.45	1015.17	1075.81	1337.50	1717.08	15495.55
2035	1682.42	1586.55	1477.92	1342.83	1151.86	1042.56	1010.91	1009.01	1011.71	1071.84	1331.52	1707.69	15426.83

**SAN DIEGO GAS AND ELECTRIC
 CORE COMMERCIAL FORECAST
 DEMAND FORECAST: COLD YEAR FOECAST**

YEAR	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	TOTAL
2021	1843.08	1727.64	1591.40	1414.84	1187.02	1051.45	1014.20	1011.98	1015.17	1089.66	1403.33	1880.38	16230.15
2022	1901.31	1782.66	1642.84	1461.90	1227.66	1088.48	1050.16	1047.87	1051.16	1127.64	1449.99	1939.38	16771.05
2023	1920.77	1801.18	1660.40	1478.37	1242.24	1102.06	1063.42	1061.11	1064.43	1141.46	1466.32	1958.97	16960.74
2024	1920.83	1801.46	1661.01	1479.55	1243.79	1103.91	1065.33	1063.02	1066.33	1143.19	1467.48	1958.85	16974.74
2025	1917.12	1798.17	1658.31	1477.74	1242.78	1103.48	1065.01	1062.71	1066.02	1142.56	1465.68	1954.88	16954.47
2026	1910.29	1791.94	1652.89	1473.48	1239.69	1101.16	1062.88	1060.59	1063.87	1140.00	1461.44	1947.74	16905.97
2027	1902.57	1784.89	1646.71	1468.52	1236.00	1098.31	1060.22	1057.95	1061.21	1136.88	1456.51	1939.71	16849.47
2028	1894.48	1777.48	1640.19	1463.26	1232.05	1095.23	1057.35	1055.09	1058.34	1133.53	1451.29	1931.29	16789.58
2029	1886.44	1770.12	1633.71	1458.03	1228.14	1092.17	1054.50	1052.25	1055.48	1130.20	1446.10	1922.92	16730.06
2030	1869.48	1754.36	1619.44	1445.78	1218.23	1083.73	1046.43	1044.20	1047.40	1121.32	1433.94	1905.49	16589.81
2031	1850.05	1736.28	1603.01	1431.57	1206.66	1073.78	1036.92	1034.71	1037.87	1110.90	1419.84	1885.54	16427.12
2032	1837.01	1724.22	1592.18	1422.41	1199.39	1067.71	1031.15	1028.96	1032.10	1104.46	1410.75	1872.10	16322.44
2033	1820.63	1709.00	1578.41	1410.60	1189.86	1059.61	1023.41	1021.25	1024.35	1095.94	1399.03	1855.25	16187.33
2034	1802.44	1692.09	1563.06	1397.37	1179.13	1050.42	1014.62	1012.48	1015.55	1086.28	1385.90	1836.57	16035.89
2035	1793.37	1683.76	1555.68	1391.34	1174.52	1046.74	1011.16	1009.04	1012.09	1082.32	1379.91	1827.15	15967.06

**SAN DIEGO GAS AND ELECTRIC
 CORE COMMERCIAL FORECAST
 DEMAND FORECAST: HOT YEAR FOECAST**

YEAR	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	TOTAL
2021	1620.55	1532.67	1435.41	1317.54	1141.58	1043.07	1013.69	1011.93	1014.43	1068.65	1306.27	1640.77	15146.55
2022	1678.82	1587.73	1486.89	1364.62	1182.23	1080.10	1049.65	1047.82	1050.41	1106.63	1352.95	1699.82	15687.68
2023	1698.33	1606.30	1504.48	1381.12	1196.82	1093.69	1062.91	1061.06	1063.68	1120.45	1369.30	1719.46	15877.59
2024	1698.44	1606.61	1505.12	1382.31	1198.37	1095.54	1064.81	1062.97	1065.58	1122.19	1370.48	1719.38	15891.81
2025	1694.77	1603.36	1502.46	1380.53	1197.38	1095.11	1064.50	1062.67	1065.27	1121.57	1368.70	1715.46	15871.77
2026	1687.98	1597.18	1497.07	1376.28	1194.29	1092.79	1062.36	1060.54	1063.13	1119.01	1364.48	1708.38	15823.49
2027	1680.32	1590.16	1490.92	1371.34	1190.61	1089.94	1059.71	1057.90	1060.47	1115.89	1359.57	1700.39	15767.21
2028	1672.27	1582.80	1484.43	1366.10	1186.68	1086.86	1056.84	1055.04	1057.59	1112.54	1354.37	1692.02	15707.55
2029	1664.27	1575.47	1477.99	1360.90	1182.77	1083.81	1053.99	1052.20	1054.73	1109.22	1349.20	1683.70	15648.26
2030	1647.36	1559.76	1463.75	1348.66	1172.87	1075.37	1045.92	1044.16	1046.66	1100.35	1337.06	1666.32	15508.22
2031	1627.97	1541.71	1447.35	1334.47	1161.31	1065.42	1036.40	1034.66	1037.13	1089.93	1322.98	1646.42	15345.76
2032	1614.99	1529.70	1436.55	1325.33	1154.05	1059.35	1030.63	1028.91	1031.35	1083.50	1313.91	1633.03	15241.30
2033	1598.65	1514.52	1422.81	1313.55	1144.54	1051.25	1022.90	1021.20	1023.60	1074.97	1302.21	1616.23	15106.42
2034	1580.50	1497.64	1407.50	1300.34	1133.81	1042.06	1014.10	1012.43	1014.80	1065.33	1289.10	1597.60	14955.21
2035	1571.48	1489.35	1400.15	1294.32	1129.21	1038.38	1010.65	1008.99	1011.34	1061.36	1283.13	1588.23	14886.60

**SAN DIEGO GAS AND ELECTRIC
 CORE COMMERCIAL FORECAST
 DEMAND FORECAST: BASE YEAR FOECAST**

YEAR	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	TOTAL
2021	1075.74	1006.34	1075.74	1041.04	1075.74	1041.04	1075.74	1075.74	1041.04	1075.74	1041.04	1075.74	12700.71
2022	1124.24	1051.71	1124.24	1087.98	1124.24	1087.98	1124.24	1124.24	1087.98	1124.24	1087.98	1124.24	13273.30
2023	1142.99	1069.25	1142.99	1106.12	1142.99	1106.12	1142.99	1142.99	1106.12	1142.99	1106.12	1142.99	13494.65
2024	1146.86	1072.87	1146.86	1109.86	1146.86	1109.86	1146.86	1146.86	1109.86	1146.86	1109.86	1146.86	13540.32
2025	1147.82	1073.77	1147.82	1110.79	1147.82	1110.79	1147.82	1147.82	1110.79	1147.82	1110.79	1147.82	13551.69
2026	1146.39	1072.43	1146.39	1109.41	1146.39	1109.41	1146.39	1146.39	1109.41	1146.39	1109.41	1146.39	13534.83
2027	1144.28	1070.46	1144.28	1107.37	1144.28	1107.37	1144.28	1144.28	1107.37	1144.28	1107.37	1144.28	13509.94
2028	1141.89	1068.22	1141.89	1105.05	1141.89	1105.05	1141.89	1141.89	1105.05	1141.89	1105.05	1141.89	13481.66
2029	1139.52	1066.01	1139.52	1102.77	1139.52	1102.77	1139.52	1139.52	1102.77	1139.52	1102.77	1139.52	13453.74
2030	1130.32	1057.40	1130.32	1093.86	1130.32	1093.86	1130.32	1130.32	1093.86	1130.32	1093.86	1130.32	13345.06
2031	1119.21	1047.01	1119.21	1083.11	1119.21	1083.11	1119.21	1119.21	1083.11	1119.21	1083.11	1119.21	13213.94
2032	1113.02	1041.21	1113.02	1077.12	1113.02	1077.12	1113.02	1113.02	1077.12	1113.02	1077.12	1113.02	13140.82
2033	1104.25	1033.01	1104.25	1068.63	1104.25	1068.63	1104.25	1104.25	1068.63	1104.25	1068.63	1104.25	13037.25
2034	1094.09	1023.51	1094.09	1058.80	1094.09	1058.80	1094.09	1094.09	1058.80	1094.09	1058.80	1094.09	12917.34
2035	1090.93	1020.55	1090.93	1055.74	1090.93	1055.74	1090.93	1090.93	1055.74	1090.93	1055.74	1090.93	12880.02

**SAN DIEGO GAS AND ELECTRIC
CORE COMMERCIAL AAFS SCENARIO 2 FORECAST**

SOURCE	YEAR	AAFS (Mdt)
GN3Commercia	2021	0
GN3Commercia	2022	0.574798988
GN3Commercia	2023	6.042735121
GN3Commercia	2024	14.58038245
GN3Commercia	2025	23.06338897
GN3Commercia	2026	32.59051134
GN3Commercia	2027	42.85940538
GN3Commercia	2028	53.30772045
GN3Commercia	2029	64.01703542
GN3Commercia	2030	74.99261259
GN3Commercia	2031	86.1113629
GN3Commercia	2032	97.35138605
GN3Commercia	2033	108.0369626
GN3Commercia	2034	117.9298017
GN3Commercia	2035	126.8332038

**SAN DIEGO GAS AND ELECTRIC
 CORE COMMERCIAL MARKET
 EMPLOYMENT BY SECTOR (IN MILLIONS)**

YEAR	Office	Restaurant	Retail	Laundry	Warehouse	School	College	Health	Lodging	Misc
2022	0.3445753	0.1315769	0.13567559	0.0183957	0.04380058	0.0890237	0.0432383	0.19363222	0.024109	0.058238008
2023	0.3535887	0.14797336	0.12998449	0.0190238	0.04576595	0.0892798	0.0433532	0.1941272	0.0271194	0.060400236
2024	0.3591265	0.15351151	0.12495708	0.0192813	0.04739524	0.0907428	0.0440729	0.19733563	0.0281206	0.061173736
2025	0.3649946	0.15536001	0.12094457	0.0196021	0.04917766	0.0922393	0.0447973	0.20058027	0.0284559	0.062197264
2026	0.370542	0.15656254	0.11953934	0.0199016	0.05061722	0.0938216	0.0455666	0.20402541	0.0286755	0.063150373
2027	0.375189	0.15761091	0.11785757	0.0202208	0.05123203	0.0952095	0.0462382	0.20703933	0.0288672	0.064162501
2028	0.3794943	0.15910367	0.11701592	0.0205033	0.05112702	0.0963444	0.046788	0.20950531	0.0291414	0.06506261
2029	0.3827492	0.16097788	0.11636747	0.0207059	0.0509572	0.0972159	0.0472099	0.21139753	0.029485	0.065712546
2030	0.3852125	0.16301811	0.11658151	0.0208647	0.05068646	0.0977179	0.0474519	0.21247966	0.0298585	0.066214199
2031	0.3848363	0.16375617	0.11728841	0.0210103	0.05063168	0.0989289	0.0480464	0.21513223	0.0299912	0.066679452
2032	0.3844961	0.16382603	0.11860811	0.0210735	0.05041457	0.1001621	0.048642	0.21780565	0.0300045	0.066888344
2033	0.3860058	0.16406739	0.12039829	0.0211232	0.05011399	0.1010798	0.0490875	0.21980227	0.0300482	0.06704238
2034	0.3878723	0.16366539	0.12197911	0.0212069	0.04977212	0.1020007	0.0495342	0.22180388	0.0299742	0.06730735
2035	0.3897422	0.16352392	0.12377932	0.0212731	0.04950055	0.1025554	0.0498008	0.22300507	0.0299486	0.067517585

YEAR	Government	TCU	Construction	Agriculture
2022	0.137519357	0.05487841	0.08865229	0.0091107
2023	0.139593616	0.05619499	0.08848979	0.0090652
2024	0.140652711	0.0586015	0.087314122	0.0090198
2025	0.141800834	0.06063713	0.086447363	0.0089747
2026	0.142908802	0.06182179	0.085580596	0.0089299
2027	0.143738443	0.0618101	0.085612293	0.0088852
2028	0.144289673	0.06150261	0.086035061	0.0088408
2029	0.144827979	0.06110791	0.086933903	0.0087966
2030	0.146091722	0.06064859	0.087694625	0.0087526
2031	0.145930516	0.06042429	0.087940659	0.0087088
2032	0.146446178	0.06034428	0.088514254	0.0086653
2033	0.146965126	0.05996203	0.089718516	0.008622
2034	0.147467946	0.05952864	0.090960692	0.0085789
2035	0.148001065	0.05918396	0.092411301	0.008536

SAN DIEGO GAS & ELECTRIC AVERAGE GAS PRICES UNITS: \$/THERM								
Year	C Agriculture Average Price	C College Average Price	C Construction Average Price	C Government Average Price	C Health Average Price	C Laundry Average Price	C Lodging Average Price	
2021	0.9646	1.0952	1.0235	1.0097	0.9660	1.0678	0.9182	
2022	1.2387	1.3648	1.2957	1.2819	1.2400	1.3387	1.1935	
2023	1.2107	1.3449	1.2711	1.2573	1.2121	1.3164	1.1633	
2024	1.1267	1.2639	1.1883	1.1745	1.1282	1.2345	1.0785	
2025	1.1280	1.2685	1.1910	1.1772	1.1296	1.2382	1.0790	
2026	1.1545	1.2985	1.2190	1.2052	1.1561	1.2672	1.1044	
2027	1.1794	1.3272	1.2454	1.2316	1.1810	1.2948	1.1282	
2028	1.2137	1.3656	1.2814	1.2676	1.2154	1.3319	1.1614	
2029	1.2630	1.4191	1.3325	1.3186	1.2648	1.3842	1.2095	
2030	1.3271	1.4876	1.3984	1.3846	1.3289	1.4514	1.2724	
2031	1.4089	1.5739	1.4821	1.4683	1.4109	1.5364	1.3530	
2032	1.5154	1.6850	1.5906	1.5767	1.5174	1.6462	1.4582	
2033	1.6432	1.8175	1.7203	1.7064	1.6453	1.7773	1.5847	
2034	1.8167	1.9958	1.8958	1.8819	1.8188	1.9543	1.7568	
2035	2.0664	2.2506	2.1477	2.1338	2.0687	2.2076	2.0052	

Year	C Misc Average Price	C Office Average Price	C Restaurant Average Price	C Retail Average Price	C School Average Price	C TCU Average Price	C Warehouse Average Price
2021	0.9125	0.9614	0.8895	1.0400	0.8872	0.8853	1.0453
2022	1.1881	1.2352	1.1657	1.3121	1.1636	1.1621	1.3174
2023	1.1574	1.2077	1.1340	1.2876	1.1314	1.1292	1.2930
2024	1.0725	1.1238	1.0487	1.2049	1.0459	1.0435	1.2103
2025	1.0729	1.1254	1.0486	1.2077	1.0456	1.0429	1.2130
2026	1.0982	1.1520	1.0734	1.2357	1.0702	1.0672	1.2411
2027	1.1218	1.1771	1.0965	1.2622	1.0931	1.0898	1.2676
2028	1.1548	1.2116	1.1290	1.2983	1.1254	1.1217	1.3036
2029	1.2028	1.2611	1.1764	1.3494	1.1725	1.1684	1.3548
2030	1.2655	1.3255	1.2385	1.4154	1.2343	1.2299	1.4208
2031	1.3459	1.4075	1.3183	1.4992	1.3139	1.3091	1.5046
2032	1.4509	1.5143	1.4227	1.6077	1.4180	1.4128	1.6131
2033	1.5771	1.6423	1.5483	1.7374	1.5433	1.5377	1.7429
2034	1.7491	1.8160	1.7196	1.9131	1.7143	1.7083	1.9185
2035	1.9973	2.0661	1.9672	2.1650	1.9615	1.9551	2.1705

SAN DIEGO GAS & ELECTRIC
 MARGINAL GAS PRICES
 UNITS: \$/THERM

Year	C Agriculture Marginal Price	C College Marginal Price	C Construction Marginal Price	C Government Marginal Price	C Health Marginal Price	C Laundry Marginal Price	C Lodging Marginal Price
2021	0.8915	1.0245	0.9283	0.9235	0.8917	0.9807	0.8646
2022	1.1676	1.2959	1.2031	1.1984	1.1677	1.2536	1.1416
2023	1.1360	1.2728	1.1739	1.1689	1.1362	1.2277	1.1083
2024	1.0507	1.1905	1.0894	1.0843	1.0509	1.1445	1.0224
2025	1.0507	1.1938	1.0903	1.0851	1.0509	1.1466	1.0217
2026	1.0756	1.2224	1.1162	1.1109	1.0758	1.1740	1.0458
2027	1.0988	1.2496	1.1405	1.1350	1.0989	1.1999	1.0682
2028	1.1313	1.2863	1.1742	1.1685	1.1315	1.2352	1.0999
2029	1.1787	1.3381	1.2229	1.2170	1.1789	1.2856	1.1464
2030	1.2409	1.4049	1.2863	1.2803	1.2411	1.3508	1.2077
2031	1.3208	1.4894	1.3675	1.3613	1.3210	1.4338	1.2867
2032	1.4253	1.5987	1.4733	1.4669	1.4255	1.5415	1.3902
2033	1.5510	1.7292	1.6003	1.5938	1.5512	1.6705	1.5149
2034	1.7224	1.9057	1.7731	1.7664	1.7226	1.8453	1.6852
2035	1.9700	2.1584	2.0221	2.0152	1.9702	2.0963	1.9318

Year	C Misc Marginal Price	C Office Marginal Price	C Restaurant Marginal Price	C Retail Marginal Price	C School Marginal Price	C TCU Marginal Price	C Warehouse Marginal Price
2021	0.8547	0.8895	0.9471	0.8410	0.8346	0.9488	0.8296
2022	1.1321	1.1657	1.2212	1.1188	1.1126	1.2228	1.1078
2023	1.0982	1.1340	1.1932	1.0841	1.0775	1.1949	1.0723
2024	1.0121	1.0487	1.1092	0.9976	0.9909	1.1109	0.9857
2025	1.0111	1.0486	1.1105	0.9963	0.9894	1.1123	0.9841
2026	1.0350	1.0734	1.1370	1.0198	1.0127	1.1388	1.0072
2027	1.0570	1.0965	1.1618	1.0415	1.0342	1.1637	1.0285
2028	1.0884	1.1290	1.1961	1.0724	1.0650	1.1980	1.0591
2029	1.1346	1.1764	1.2454	1.1182	1.1105	1.2473	1.1045
2030	1.1956	1.2385	1.3095	1.1787	1.1708	1.3115	1.1646
2031	1.2742	1.3183	1.3913	1.2568	1.2487	1.3934	1.2423
2032	1.3773	1.4227	1.4978	1.3595	1.3511	1.4999	1.3446
2033	1.5017	1.5483	1.6255	1.4833	1.4747	1.6277	1.4680
2034	1.6716	1.7196	1.7990	1.6527	1.6439	1.8013	1.6370
2035	1.9178	1.9672	2.0488	1.8984	1.8893	2.0511	1.8822

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL AVERAGE ELECTRIC PRICES (CENTS/KWH)										
Year	C Agriculture Average Price	C College Average Price	C Construction Average Price	C Government Average Price	C Health Average Price	C Laundry Average Price	C Lodging Average Price	C Misc Average Price		
2021	26.91	30.55	28.55	28.17	26.95	29.79	25.61	25.46		
2022	26.02	28.67	27.22	26.93	26.05	28.12	25.07	24.96		
2023	26.93	29.92	28.27	27.97	26.96	29.28	25.88	25.75		
2024	27.96	31.36	29.49	29.14	27.99	30.63	26.76	26.61		
2025	29.42	33.08	31.06	30.70	29.46	32.29	28.14	27.98		
2026	30.35	34.13	32.04	31.68	30.39	33.31	29.03	28.87		
2027	31.32	35.24	33.07	32.70	31.36	34.38	29.96	29.79		
2028	32.67	36.75	34.49	34.12	32.71	35.85	31.26	31.08		
2029	34.00	38.20	35.87	35.50	34.05	37.26	32.56	32.38		
2030	35.30	39.57	37.20	36.83	35.35	38.61	33.85	33.66		
2031	36.57	40.85	38.47	38.11	36.62	39.88	35.12	34.93		
2032	37.86	42.10	39.74	39.39	37.91	41.13	36.43	36.25		
2033	39.26	43.42	41.10	40.77	39.31	42.46	37.86	37.68		
2034	40.73	44.74	42.50	42.19	40.77	43.81	39.38	39.21		
2035	42.25	46.02	43.92	43.63	42.30	45.14	41.00	40.84		

Year	C Office Average Price	C Restaurant Average Price	C Retail Average Price	C School Average Price	C TCU Average Price	C Warehouse Average Price
2021	26.82	29.01	24.75	24.70	29.16	24.63
2022	25.95	27.56	24.44	24.41	27.67	24.36
2023	26.86	28.64	25.17	25.12	28.76	25.07
2024	27.89	29.90	25.95	25.89	30.03	25.84
2025	29.35	31.49	27.27	27.20	31.63	27.15
2026	30.28	32.48	28.13	28.05	32.62	28.02
2027	31.25	33.51	29.02	28.94	33.66	28.90
2028	32.61	34.94	30.29	30.19	35.09	30.16
2029	33.95	36.32	31.56	31.45	36.47	31.43
2030	35.26	37.65	32.83	32.72	37.79	32.71
2031	36.53	38.91	34.10	33.98	39.05	33.97
2032	37.83	40.16	35.43	35.30	40.30	35.30
2033	39.24	41.51	36.87	36.74	41.64	36.75
2034	40.71	42.89	38.43	38.30	43.01	38.32
2035	42.25	44.27	40.11	39.98	44.38	40.00

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL MARGINAL ELECTRIC PRICES (CENTS/KWH)										
Year	C Agriculture Marginal Price	C College Marginal Price	C Construction Marginal Price	C Government Marginal Price	C Health Marginal Price	C Laundry Marginal Price	C Lodging Marginal Price	C Misc Marginal Price		
2021	26.85	30.86	27.96	27.82	26.86	29.54	26.04	25.75		
2022	25.98	28.84	26.78	26.67	25.99	27.90	25.41	25.19		
2023	26.89	30.13	27.79	27.67	26.89	29.06	26.23	25.99		
2024	27.91	31.62	28.94	28.80	27.91	30.40	27.16	26.88		
2025	29.37	33.37	30.47	30.33	29.37	32.05	28.56	28.26		
2026	30.30	34.43	31.44	31.29	30.30	33.07	29.46	29.15		
2027	31.26	35.55	32.45	32.29	31.27	34.14	30.39	30.07		
2028	32.61	37.08	33.85	33.68	32.61	35.61	31.70	31.37		
2029	33.94	38.53	35.21	35.04	33.95	37.02	33.01	32.67		
2030	35.24	39.90	36.53	36.36	35.25	38.37	34.30	33.96		
2031	36.51	41.17	37.80	37.63	36.52	39.63	35.57	35.22		
2032	37.81	42.40	39.08	38.91	37.81	40.89	36.87	36.53		
2033	39.21	43.71	40.45	40.29	39.21	42.23	38.29	37.96		
2034	40.68	45.01	41.88	41.72	40.68	43.58	39.80	39.48		
2035	42.21	46.25	43.33	43.18	42.22	44.92	41.39	41.09		

Year	C Office Marginal Price	C Restaurant Marginal Price	C Retail Marginal Price	C School Marginal Price	C TCU Marginal Price	C Warehouse Marginal Price
2021	26.79	28.53	25.33	25.14	28.58	24.99
2022	25.94	27.18	24.90	24.76	27.21	24.66
2023	26.84	28.24	25.66	25.50	28.28	25.38
2024	27.85	29.46	26.50	26.32	29.51	26.18
2025	29.31	31.04	27.85	27.65	31.09	27.50
2026	30.24	32.03	28.73	28.53	32.08	28.37
2027	31.20	33.06	29.63	29.42	33.11	29.26
2028	32.54	34.48	30.91	30.70	34.53	30.53
2029	33.87	35.86	32.20	31.98	35.92	31.80
2030	35.18	37.19	33.48	33.25	37.25	33.08
2031	36.44	38.46	34.74	34.52	38.52	34.34
2032	37.74	39.73	36.06	35.84	39.79	35.67
2033	39.14	41.09	37.49	37.28	41.15	37.11
2034	40.61	42.49	39.03	38.83	42.54	38.66
2035	42.15	43.90	40.68	40.48	43.95	40.33

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL SATURATIONS

zname	bname	nname	SAT	SOURCE
Commercial	Agriculture	Drying	1.0000	Assumed
Commercial	Agriculture	Engine	0.5000	Assumed
Commercial	Agriculture	Other	1.0000	DEFAULT
Commercial	Agriculture	Space_Heat	0.7200	CI_1996_STUDY
Commercial	Agriculture	Water_Heat	0.6900	CI_1996_STUDY
Commercial	College	AC_Compressor	0.8850	CBECS
Commercial	College	Cook_top	0.1470	CBECS
Commercial	College	Fryer	0.1470	CBECS
Commercial	College	Griddle	0.1470	CBECS
Commercial	College	Other	1.0000	DEFAULT
Commercial	College	Other_Cooking	0.1470	CBECS
Commercial	College	Space_Heat	0.7630	SDGE_EUI_STUDY
Commercial	College	Water_Heat	0.9550	SDGE_EUI_STUDY
Commercial	Construction	Other	1.0000	DEFAULT
Commercial	Construction	Space_Heat	0.7200	CI_1996_STUDY
Commercial	Construction	Water_Heat	0.6900	CI_1996_STUDY
Commercial	Government	AC_Compressor	0.8880	CBECS
Commercial	Government	Cook_top	0.1960	CBECS
Commercial	Government	Fryer	0.1960	CBECS
Commercial	Government	Griddle	0.1960	CBECS
Commercial	Government	Other	1.0000	DEFAULT
Commercial	Government	Other_Cooking	0.1960	CBECS
Commercial	Government	Space_Heat	0.8720	SDGE_EUI_STUDY
Commercial	Government	Water_Heat	0.7000	CI_1996_STUDY
Commercial	Grocery	AC_Compressor	0.8560	CBECS
Commercial	Grocery	Cook_top	0.2450	CBECS
Commercial	Grocery	Fryer	0.2450	CBECS
Commercial	Grocery	Griddle	0.2450	CBECS
Commercial	Grocery	Other	1.0000	DEFAULT
Commercial	Grocery	Other_Cooking	0.2450	CBECS
Commercial	Grocery	Space_Heat	0.6470	SDGE_EUI_STUDY
Commercial	Grocery	Water_Heat	0.9300	CI_1996_STUDY
Commercial	Health	AC_Compressor	0.7920	CBECS
Commercial	Health	Cook_top	0.1020	CBECS
Commercial	Health	Drying	0.8200	CI_1996_STUDY
Commercial	Health	Fryer	0.1020	CBECS
Commercial	Health	Griddle	0.1020	CBECS
Commercial	Health	Other	1.0000	DEFAULT
Commercial	Health	Other_Cooking	0.1020	CBECS
Commercial	Health	Space_Heat	0.9360	SDGE_EUI_STUDY
Commercial	Health	Water_Heat	1.0000	CI_1996_STUDY
Commercial	Laundry	Drying	1.0000	CI_1996_STUDY
Commercial	Laundry	Other	1.0000	CI_1996_STUDY
Commercial	Laundry	Space_Heat	0.7200	CI_1996_STUDY
Commercial	Laundry	Water_Heat	1.0000	CI_1996_STUDY
Commercial	Lodging	AC_Compressor	0.7950	CBECS
Commercial	Lodging	Cook_top	0.0840	CBECS

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL SATURATIONS

zname	bname	nname	SAT	SOURCE
Commercial	Lodging	Drying	0.8200	CI_1996_STUDY
Commercial	Lodging	Fryer	0.0840	CBECS
Commercial	Lodging	Griddle	0.0840	CBECS
Commercial	Lodging	Other	1.0000	CI_1996_STUDY
Commercial	Lodging	Other_Cooking	0.0840	CBECS
Commercial	Lodging	Space_Heat	0.8950	SDGE_EUI_STUDY
Commercial	Lodging	Water_Heat	1.0000	CI_1996_STUDY
Commercial	Misc	AC_Compressor	0.7310	CBECS
Commercial	Misc	Cook_top	0.0210	CBECS
Commercial	Misc	Fryer	0.0210	CBECS
Commercial	Misc	Griddle	0.0210	CBECS
Commercial	Misc	Other	1.0000	CI_1996_STUDY
Commercial	Misc	Other_Cooking	0.0210	CBECS
Commercial	Misc	Space_Heat	0.6950	SDGE_EUI_STUDY
Commercial	Misc	Water_Heat	0.6900	CI_1996_STUDY
Commercial	Office	AC_Compressor	0.9310	CBECS
Commercial	Office	Cooking	0.0820	CBECS
Commercial	Office	Other	1.0000	CI_1996_STUDY
Commercial	Office	Space_Heat	0.8720	SDGE_EUI_STUDY
Commercial	Office	Water_Heat	0.7000	CI_1996_STUDY
Commercial	Restaurant	AC_Compressor	0.8710	CBECS
Commercial	Restaurant	Cook_top	0.7500	SCG_COOKING_STUDY
Commercial	Restaurant	Fryer	0.7290	SCG_COOKING_STUDY
Commercial	Restaurant	Griddle	0.5740	SCG_COOKING_STUDY
Commercial	Restaurant	Other	1.0000	CI_1996_STUDY
Commercial	Restaurant	Other_Cooking	0.9000	CI_1996_STUDY
Commercial	Restaurant	Space_Heat	0.8180	SDGE_EUI_STUDY
Commercial	Restaurant	Water_Heat	0.9600	CI_1996_STUDY
Commercial	Retail	Cooking	0.2450	CBECS
Commercial	Retail	Other	1.0000	CI_1996_STUDY
Commercial	Retail	Space_Heat	0.7710	SDGE_EUI_STUDY
Commercial	Retail	Water_Heat	0.6200	CI_1996_STUDY
Commercial	School	AC_Compressor	0.8850	CBECS
Commercial	School	Cook_top	0.1470	CBECS
Commercial	School	Fryer	0.1470	CBECS
Commercial	School	Griddle	0.1470	CBECS
Commercial	School	Other	1.0000	CI_1996_STUDY
Commercial	School	Other_Cooking	0.1470	CBECS
Commercial	School	Space_Heat	0.9670	SDGE_EUI_STUDY
Commercial	School	Water_Heat	0.9000	CI_1996_STUDY
Commercial	TCU	Engine	0.5000	Assumed
Commercial	TCU	Other	1.0000	CI_1996_STUDY
Commercial	TCU	Space_Heat	0.7200	CI_1996_STUDY
Commercial	TCU	Water_Heat	0.6900	CI_1996_STUDY
Commercial	Warehouse	Engine	0.2500	Assumed
Commercial	Warehouse	Other	1.0000	DEFAULT
Commercial	Warehouse	Space_Heat	0.2310	SDGE_EUI_STUDY

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL SATURATIONS

zname	bname	nname	SAT	SOURCE
Commercial	Warehouse	Water_Heat	0.8800	SDGE_EUI_STUDY

**SAN DIEGO GAS & ELECTRIC
 CORE COMMERCIAL USE PER METER (NEW)**

Sector	Space Heater	Water Heater	Cooktop	Griddle	Fryer	Other Cooking Equipment	Kitchen Equipment	AC	Dryer	Engine	Other	Total Building
Office	713	2368	93	483	0	193	36	0	0	0	4	3891
Restaurant	1351	4482	177	914	1	365	67	1	1	1	8	7365
Retail	492	1632	64	333	0	133	25	0	0	0	3	2681
Laundry	0	1	0	0	0	0	0	0	0	0	0	1
Warehouse	659	2188	86	446	0	178	33	0	0	0	4	3596
School	487	1615	64	329	0	132	24	0	0	0	3	2654
College	1328	4405	174	898	1	359	66	1	1	1	8	7239
Health	4308	14297	565	2916	2	1166	215	2	2	2	26	23492
Lodging	4795	15913	628	3245	3	1297	240	3	3	3	28	26147
Misc	515	1708	67	348	0	139	26	0	0	0	3	2807
Government	2587	8584	339	1751	1	700	129	1	1	1	15	14104
TCU	121	403	16	82	0	33	6	0	0	0	1	662
Construction	705	2338	92	477	0	191	35	0	0	0	4	3842
Agriculture	226	750	30	153	0	61	11	0	0	0	1	1233

**SAN DIEGO GAS & ELECTRIC
 USE PER METER (EXISTING)
 THERMS**

Sector	Space Heater	Water Heater	Cooktop	Griddle	Fryer	Other Cooking Equipment	Kitchen Equipment	AC	Dryer	Engine	Other	Total Building	
Office	2048	850	104	34	26	107		23	35	102	29	2042	5401
Restaurant	413	799	1333	548	1053	1165		284	16	7	0	262	5879
Retail	951	578	210	35	234	404		250	55	107	9	1318	4151
Laundry	40	631	5	1	1	7		0	1	6337	0	5901	12924
Warehouse	1033	300	43	12	103	118		151	117	343	102	3323	5645
School	1997	673	114	8	26	209		21	25	4	27	585	3690
College	6410	3166	309	91	159	381		88	401	97	136	4360	15598
Health	5747	3601	577	112	157	444		251	104	791	59	6076	17919
Lodging	2357	4814	664	162	208	809		398	39	1254	1	5441	16146
Misc	969	592	120	24	39	98		31	100	38	7	654	2673
Government	8276	4811	423	208	124	348		189	221	112	1222	3243	19177
TCU	1027	369	33	8	15	28		19	50	3	1611	1703	4867
Construction	669	209	17	0	2	9		6	20	125	0	987	2044
Agriculture	4200	1018	173	29	359	799		727	10	1059	6945	14023	29342

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial Office	Space_Heat	Natural_Gas	Stock	001	001	001	1	1	1	0.65
Commercial Office	Space_Heat	Natural_Gas	Standard	001	001	001	1	2	2	0.3
Commercial Office	Space_Heat	Natural_Gas	High	001	001	001	1	3	3	0.04
Commercial Office	Space_Heat	Natural_Gas	Premium	001	001	001	1	4	4	0.01
Commercial Office	Space_Heat	Electric	Stock	001	001	001	2	1	1	1
Commercial Office	Water_Heat	Natural_Gas	Stock	001	001	002	1	1	1	0.4
Commercial Office	Water_Heat	Natural_Gas	Standard	001	001	002	1	2	2	0.5
Commercial Office	Water_Heat	Natural_Gas	High	001	001	002	1	3	3	0.08
Commercial Office	Water_Heat	Natural_Gas	Premium	001	001	002	1	4	4	0.02
Commercial Office	Water_Heat	Electric	Stock	001	001	002	2	1	1	0.4
Commercial Office	Water_Heat	Electric	Standard	001	001	002	2	2	2	0.5
Commercial Office	Water_Heat	Electric	High	001	001	002	2	3	3	0.08
Commercial Office	Water_Heat	Electric	Premium	001	001	002	2	4	4	0.02
Commercial Office	Cooking	Natural_Gas	Stock	001	001	003	1	1	1	0.65
Commercial Office	Cooking	Natural_Gas	Standard	001	001	003	1	2	2	0.35
Commercial Office	Cooking	Electric	Stock	001	001	003	2	1	1	0.65
Commercial Office	Cooking	Electric	Standard	001	001	003	2	2	2	0.35
Commercial Office	AC_Compressor	Natural_Gas	Stock	001	001	010	1	1	1	0.65
Commercial Office	AC_Compressor	Natural_Gas	Standard	001	001	010	1	2	2	0.35
Commercial Office	AC_Compressor	Electric	Stock	001	001	010	2	1	1	0.65
Commercial Office	AC_Compressor	Electric	Standard	001	001	010	2	2	2	0.35
Commercial Office	Other	Natural_Gas	Stock	001	001	011	1	1	1	1
Commercial Restaurant	Space_Heat	Natural_Gas	Stock	001	002	001	1	1	1	0.65
Commercial Restaurant	Space_Heat	Natural_Gas	Standard	001	002	001	1	2	2	0.3
Commercial Restaurant	Space_Heat	Natural_Gas	High	001	002	001	1	3	3	0.04
Commercial Restaurant	Space_Heat	Natural_Gas	Premium	001	002	001	1	4	4	0.01
Commercial Restaurant	Space_Heat	Electric	Stock	001	002	001	2	1	1	1
Commercial Restaurant	Water_Heat	Natural_Gas	Stock	001	002	002	1	1	1	0.4
Commercial Restaurant	Water_Heat	Natural_Gas	Standard	001	002	002	1	2	2	0.5
Commercial Restaurant	Water_Heat	Natural_Gas	High	001	002	002	1	3	3	0.08

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial	Restaurant	Water_Heat	Natural_Gas	Premium	001	002	002	1	4	0.02
Commercial	Restaurant	Water_Heat	Electric	Stock	001	002	002	2	1	0.4
Commercial	Restaurant	Water_Heat	Electric	Standard	001	002	002	2	2	0.5
Commercial	Restaurant	Water_Heat	Electric	High	001	002	002	2	3	0.08
Commercial	Restaurant	Water_Heat	Electric	Premium	001	002	002	2	4	0.02
Commercial	Restaurant	Cook_top	Natural_Gas	Stock	001	002	004	1	1	0.65
Commercial	Restaurant	Cook_top	Natural_Gas	Standard	001	002	004	1	2	0.35
Commercial	Restaurant	Cook_top	Electric	Stock	001	002	004	2	1	0.65
Commercial	Restaurant	Cook_top	Electric	Standard	001	002	004	2	2	0.35
Commercial	Restaurant	Fryer	Natural_Gas	Stock	001	002	005	1	1	0.65
Commercial	Restaurant	Fryer	Natural_Gas	Standard	001	002	005	1	2	0.35
Commercial	Restaurant	Fryer	Electric	Stock	001	002	005	2	1	0.65
Commercial	Restaurant	Fryer	Electric	Standard	001	002	005	2	2	0.35
Commercial	Restaurant	Griddle	Natural_Gas	Stock	001	002	006	1	1	0.65
Commercial	Restaurant	Griddle	Natural_Gas	Standard	001	002	006	1	2	0.35
Commercial	Restaurant	Griddle	Electric	Stock	001	002	006	2	1	0.65
Commercial	Restaurant	Griddle	Electric	Standard	001	002	006	2	2	0.35
Commercial	Restaurant	Other_Cooking	Natural_Gas	Stock	001	002	007	1	1	0.65
Commercial	Restaurant	Other_Cooking	Natural_Gas	Standard	001	002	007	1	2	0.35
Commercial	Restaurant	Other_Cooking	Electric	Stock	001	002	007	2	1	0.65
Commercial	Restaurant	Other_Cooking	Electric	Standard	001	002	007	2	2	0.35
Commercial	Restaurant	AC_Compressor	Natural_Gas	Stock	001	002	010	1	1	0.65
Commercial	Restaurant	AC_Compressor	Natural_Gas	Standard	001	002	010	1	2	0.35
Commercial	Restaurant	AC_Compressor	Electric	Stock	001	002	010	2	1	0.65
Commercial	Restaurant	AC_Compressor	Electric	Standard	001	002	010	2	2	0.35
Commercial	Restaurant	Other	Natural_Gas	Stock	001	002	011	1	1	1
Commercial	Retail	Space_Heat	Natural_Gas	Stock	001	003	001	1	1	0.65
Commercial	Retail	Space_Heat	Natural_Gas	Standard	001	003	001	1	2	0.3
Commercial	Retail	Space_Heat	Natural_Gas	High	001	003	001	1	3	0.04
Commercial	Retail	Space_Heat	Natural_Gas	Premium	001	003	001	1	4	0.01

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial Retail	Space_Heat	Electric	Stock	001	003	001	2	1	1	1
Commercial Retail	Water_Heat	Natural_Gas	Stock	001	003	002	1	1	1	0.4
Commercial Retail	Water_Heat	Natural_Gas	Standard	001	003	002	1	2	2	0.5
Commercial Retail	Water_Heat	Natural_Gas	High	001	003	002	1	3	3	0.08
Commercial Retail	Water_Heat	Natural_Gas	Premium	001	003	002	1	4	4	0.02
Commercial Retail	Water_Heat	Electric	Stock	001	003	002	2	1	1	0.4
Commercial Retail	Water_Heat	Electric	Standard	001	003	002	2	2	2	0.5
Commercial Retail	Water_Heat	Electric	High	001	003	002	2	3	3	0.08
Commercial Retail	Water_Heat	Electric	Premium	001	003	002	2	4	4	0.02
Commercial Retail	Cooking	Natural_Gas	Stock	001	003	003	1	1	1	0.65
Commercial Retail	Cooking	Natural_Gas	Standard	001	003	003	1	2	2	0.35
Commercial Retail	Cooking	Electric	Stock	001	003	003	2	1	1	0.65
Commercial Retail	Cooking	Electric	Standard	001	003	003	2	2	2	0.35
Commercial Retail	Other	Natural_Gas	Stock	001	003	011	1	1	1	1
Commercial Laundry	Space_Heat	Natural_Gas	Stock	001	004	001	1	1	1	0.65
Commercial Laundry	Space_Heat	Natural_Gas	Standard	001	004	001	1	2	2	0.3
Commercial Laundry	Space_Heat	Natural_Gas	High	001	004	001	1	3	3	0.04
Commercial Laundry	Space_Heat	Natural_Gas	Premium	001	004	001	1	4	4	0.01
Commercial Laundry	Space_Heat	Electric	Stock	001	004	001	2	1	1	1
Commercial Laundry	Water_Heat	Natural_Gas	Stock	001	004	002	1	1	1	0.4
Commercial Laundry	Water_Heat	Natural_Gas	Standard	001	004	002	1	2	2	0.5
Commercial Laundry	Water_Heat	Natural_Gas	High	001	004	002	1	3	3	0.08
Commercial Laundry	Water_Heat	Natural_Gas	Premium	001	004	002	1	4	4	0.02
Commercial Laundry	Water_Heat	Electric	Stock	001	004	002	2	1	1	0.4
Commercial Laundry	Water_Heat	Electric	Standard	001	004	002	2	2	2	0.5
Commercial Laundry	Water_Heat	Electric	High	001	004	002	2	3	3	0.08
Commercial Laundry	Water_Heat	Electric	Premium	001	004	002	2	4	4	0.02
Commercial Laundry	Drying	Natural_Gas	Stock	001	004	008	1	1	1	0.65
Commercial Laundry	Drying	Natural_Gas	Standard	001	004	008	1	2	2	0.35
Commercial Laundry	Drying	Electric	Stock	001	004	008	2	1	1	0.65

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseAvgFShare
Commercial Office	Space_Heat	Natural_Gas	Natural_Gas	001	001	001	1	0.855504587
Commercial Office	Space_Heat	Electric	Electric	001	001	001	2	0.144495413
Commercial Office	Water_Heat	Natural_Gas	Natural_Gas	001	001	002	1	0.165813715
Commercial Office	Water_Heat	Electric	Electric	001	001	002	2	0.834186285
Commercial Office	Cooking	Natural_Gas	Natural_Gas	001	001	003	1	0.020689655
Commercial Office	Cooking	Electric	Electric	001	001	003	2	0.979310345
Commercial Office	AC_Compressor	Natural_Gas	Natural_Gas	001	001	010	1	0.06
Commercial Office	AC_Compressor	Electric	Electric	001	001	010	2	0.94
Commercial Office	Other	Natural_Gas	Natural_Gas	001	001	011	1	1
Commercial Restaurant	Space_Heat	Natural_Gas	Natural_Gas	001	002	001	1	0.590464548
Commercial Restaurant	Space_Heat	Electric	Electric	001	002	001	2	0.409535452
Commercial Restaurant	Water_Heat	Natural_Gas	Natural_Gas	001	002	002	1	0.902040816
Commercial Restaurant	Water_Heat	Electric	Electric	001	002	002	2	0.097959184
Commercial Restaurant	Cook_top	Natural_Gas	Natural_Gas	001	002	004	1	0.977333333
Commercial Restaurant	Cook_top	Electric	Electric	001	002	004	2	0.022666667
Commercial Restaurant	Fryer	Natural_Gas	Natural_Gas	001	002	005	1	0.905349794
Commercial Restaurant	Fryer	Electric	Electric	001	002	005	2	0.094650206
Commercial Restaurant	Griddle	Natural_Gas	Natural_Gas	001	002	006	1	0.970383275
Commercial Restaurant	Griddle	Electric	Electric	001	002	006	2	0.029616725
Commercial Restaurant	Other_Cooking	Natural_Gas	Natural_Gas	001	002	007	1	0.66
Commercial Restaurant	Other_Cooking	Electric	Electric	001	002	007	2	0.34
Commercial Restaurant	AC_Compressor	Natural_Gas	Natural_Gas	001	002	010	1	0.06
Commercial Restaurant	AC_Compressor	Electric	Electric	001	002	010	2	0.94
Commercial Restaurant	Other	Natural_Gas	Natural_Gas	001	002	011	1	1
Commercial Retail	Space_Heat	Natural_Gas	Natural_Gas	001	003	001	1	0.517509728
Commercial Retail	Space_Heat	Electric	Electric	001	003	001	2	0.482490272
Commercial Retail	Water_Heat	Natural_Gas	Natural_Gas	001	003	002	1	0.310077519

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseAvgFShare
Commercial Retail		Water_Heat	Electric	001	003	002	2	0.689922481
Commercial Retail		Cooking	Natural_Gas	001	003	003	1	0.093670886
Commercial Retail		Cooking	Electric	001	003	003	2	0.906329114
Commercial Retail		Other	Natural_Gas	001	003	011	1	1
Commercial Laundry		Space_Heat	Natural_Gas	001	004	001	1	0.576923077
Commercial Laundry		Space_Heat	Electric	001	004	001	2	0.423076923
Commercial Laundry		Water_Heat	Natural_Gas	001	004	002	1	0.676470588
Commercial Laundry		Water_Heat	Electric	001	004	002	2	0.323529412
Commercial Laundry		Drying	Natural_Gas	001	004	008	1	0.6
Commercial Laundry		Drying	Electric	001	004	008	2	0.4
Commercial Laundry		Other	Natural_Gas	001	004	011	1	1
Commercial Warehouse		Space_Heat	Natural_Gas	001	005	001	1	0.437229437
Commercial Warehouse		Space_Heat	Electric	001	005	001	2	0.562770563
Commercial Warehouse		Water_Heat	Natural_Gas	001	005	002	1	0.071590909
Commercial Warehouse		Water_Heat	Electric	001	005	002	2	0.928409091
Commercial Warehouse		Engine	Natural_Gas	001	005	009	1	0.06
Commercial Warehouse		Engine	Electric	001	005	009	2	0.94
Commercial Warehouse		Other	Natural_Gas	001	005	011	1	1
Commercial School		Space_Heat	Natural_Gas	001	006	001	1	0.752843847
Commercial School		Space_Heat	Electric	001	006	001	2	0.247156153
Commercial School		Water_Heat	Natural_Gas	001	006	002	1	0.758433079
Commercial School		Water_Heat	Electric	001	006	002	2	0.241566921
Commercial School		Cook_top	Natural_Gas	001	006	004	1	0.428571429
Commercial School		Cook_top	Electric	001	006	004	2	0.571428571
Commercial School		Fryer	Natural_Gas	001	006	005	1	0.428571429
Commercial School		Fryer	Electric	001	006	005	2	0.571428571
Commercial School		Griddle	Natural_Gas	001	006	006	1	0.428571429

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseAvgFShare
Commercial School		Griddle	Electric	001	006	006	2	0.571428571
Commercial School		Other_Cooking	Natural_Gas	001	006	007	1	0.428571429
Commercial School		Other_Cooking	Electric	001	006	007	2	0.571428571
Commercial School		AC_Compressor	Natural_Gas	001	006	010	1	0.06
Commercial School		AC_Compressor	Electric	001	006	010	2	0.94
Commercial School		Other	Natural_Gas	001	006	011	1	1
Commercial College		Space_Heat	Natural_Gas	001	007	001	1	0.330275229
Commercial College		Space_Heat	Electric	001	007	001	2	0.669724771
Commercial College		Water_Heat	Natural_Gas	001	007	002	1	0.816753927
Commercial College		Water_Heat	Electric	001	007	002	2	0.183246073
Commercial College		Cook_top	Natural_Gas	001	007	004	1	0.048010974
Commercial College		Cook_top	Electric	001	007	004	2	0.951989026
Commercial College		Fryer	Natural_Gas	001	007	005	1	0.048010974
Commercial College		Fryer	Electric	001	007	005	2	0.951989026
Commercial College		Griddle	Natural_Gas	001	007	006	1	0.048010974
Commercial College		Griddle	Electric	001	007	006	2	0.951989026
Commercial College		Other_Cooking	Natural_Gas	001	007	007	1	0.048010974
Commercial College		Other_Cooking	Electric	001	007	007	2	0.951989026
Commercial College		AC_Compressor	Natural_Gas	001	007	010	1	0.06
Commercial College		AC_Compressor	Electric	001	007	010	2	0.94
Commercial College		Other	Natural_Gas	001	007	011	1	1
Commercial Health		Space_Heat	Natural_Gas	001	008	001	1	0.66025641
Commercial Health		Space_Heat	Electric	001	008	001	2	0.33974359
Commercial Health		Water_Heat	Natural_Gas	001	008	002	1	0.824200913
Commercial Health		Water_Heat	Electric	001	008	002	2	0.175799087
Commercial Health		Cook_top	Natural_Gas	001	008	004	1	0.094874591
Commercial Health		Cook_top	Electric	001	008	004	2	0.905125409

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseAvgFShare
Commercial	Health	Fryer	Natural_Gas	001	008	005	1	0.094874591
Commercial	Health	Fryer	Electric	001	008	005	2	0.905125409
Commercial	Health	Griddle	Natural_Gas	001	008	006	1	0.094874591
Commercial	Health	Griddle	Electric	001	008	006	2	0.905125409
Commercial	Health	Other_Cooking	Natural_Gas	001	008	007	1	0.66
Commercial	Health	Other_Cooking	Electric	001	008	007	2	0.34
Commercial	Health	Drying	Natural_Gas	001	008	008	1	0.6
Commercial	Health	Drying	Electric	001	008	008	2	0.4
Commercial	Health	AC_Compressor	Natural_Gas	001	008	010	1	0.06
Commercial	Health	AC_Compressor	Electric	001	008	010	2	0.94
Commercial	Health	Other	Natural_Gas	001	008	011	1	1
Commercial	Lodging	Space_Heat	Natural_Gas	001	009	001	1	0.27150838
Commercial	Lodging	Space_Heat	Electric	001	009	001	2	0.72849162
Commercial	Lodging	Water_Heat	Natural_Gas	001	009	002	1	0.989484753
Commercial	Lodging	Water_Heat	Electric	001	009	002	2	0.010515247
Commercial	Lodging	Cook_top	Natural_Gas	001	009	004	1	0.449579832
Commercial	Lodging	Cook_top	Electric	001	009	004	2	0.550420168
Commercial	Lodging	Fryer	Natural_Gas	001	009	005	1	0.449579832
Commercial	Lodging	Fryer	Electric	001	009	005	2	0.550420168
Commercial	Lodging	Griddle	Natural_Gas	001	009	006	1	0.449579832
Commercial	Lodging	Griddle	Electric	001	009	006	2	0.550420168
Commercial	Lodging	Other_Cooking	Natural_Gas	001	009	007	1	0.449579832
Commercial	Lodging	Other_Cooking	Electric	001	009	007	2	0.550420168
Commercial	Lodging	Drying	Natural_Gas	001	009	008	1	0.6
Commercial	Lodging	Drying	Electric	001	009	008	2	0.4
Commercial	Lodging	AC_Compressor	Natural_Gas	001	009	010	1	0.06
Commercial	Lodging	AC_Compressor	Electric	001	009	010	2	0.94

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseAvgFShare
Commercial Lodging	Other	Natural_Gas	001	009	011	1		1
Commercial Misc	Space_Heat	Natural_Gas	001	010	001	1		0.549640288
Commercial Misc	Space_Heat	Electric	001	010	001	2		0.450359712
Commercial Misc	Water_Heat	Natural_Gas	001	010	002	1		0.556906077
Commercial Misc	Water_Heat	Electric	001	010	002	2		0.443093923
Commercial Misc	Cook_top	Natural_Gas	001	010	004	1		0.977333333
Commercial Misc	Cook_top	Electric	001	010	004	2		0.022666667
Commercial Misc	Fryer	Natural_Gas	001	010	005	1		0.905349794
Commercial Misc	Fryer	Electric	001	010	005	2		0.094650206
Commercial Misc	Griddle	Natural_Gas	001	010	006	1		0.970383275
Commercial Misc	Griddle	Electric	001	010	006	2		0.029616725
Commercial Misc	Other_Cooking	Natural_Gas	001	010	007	1		0.66
Commercial Misc	Other_Cooking	Electric	001	010	007	2		0.34
Commercial Misc	AC_Compressor	Natural_Gas	001	010	010	1		0.06
Commercial Misc	AC_Compressor	Electric	001	010	010	2		0.94
Commercial Misc	Other	Natural_Gas	001	010	011	1		1
Commercial Governme	Space_Heat	Natural_Gas	001	011	001	1		0.855504587
Commercial Governme	Space_Heat	Electric	001	011	001	2		0.144495413
Commercial Governme	Water_Heat	Natural_Gas	001	011	002	1		0.165813715
Commercial Governme	Water_Heat	Electric	001	011	002	2		0.834186285
Commercial Governme	Cook_top	Natural_Gas	001	011	004	1		0.977333333
Commercial Governme	Cook_top	Electric	001	011	004	2		0.022666667
Commercial Governme	Fryer	Natural_Gas	001	011	005	1		0.905349794
Commercial Governme	Fryer	Electric	001	011	005	2		0.094650206
Commercial Governme	Griddle	Natural_Gas	001	011	006	1		0.970383275
Commercial Governme	Griddle	Electric	001	011	006	2		0.029616725
Commercial Governme	Other_Cooking	Natural_Gas	001	011	007	1		0.66

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseAvgFShare
Commercial	Government	Other_Cooking	Electric	001	011	007	2	0.34
Commercial	Government	AC_Compressor	Natural_Gas	001	011	010	1	0.06
Commercial	Government	AC_Compressor	Electric	001	011	010	2	0.94
Commercial	Government	Other	Natural_Gas	001	011	011	1	1
Commercial	TCU	Space_Heat	Natural_Gas	001	012	001	1	0.576923077
Commercial	TCU	Space_Heat	Electric	001	012	001	2	0.423076923
Commercial	TCU	Water_Heat	Natural_Gas	001	012	002	1	0.676470588
Commercial	TCU	Water_Heat	Electric	001	012	002	2	0.323529412
Commercial	TCU	Engine	Natural_Gas	001	012	009	1	0.06
Commercial	TCU	Engine	Electric	001	012	009	2	0.94
Commercial	TCU	Other	Natural_Gas	001	012	011	1	1
Commercial	Constructic	Space_Heat	Natural_Gas	001	013	001	1	0.576923077
Commercial	Constructic	Space_Heat	Electric	001	013	001	2	0.423076923
Commercial	Constructic	Water_Heat	Natural_Gas	001	013	002	1	0.676470588
Commercial	Constructic	Water_Heat	Electric	001	013	002	2	0.323529412
Commercial	Constructic	Other	Natural_Gas	001	013	011	1	1
Commercial	Agriculture	Space_Heat	Natural_Gas	001	014	001	1	0.576923077
Commercial	Agriculture	Space_Heat	Electric	001	014	001	2	0.423076923
Commercial	Agriculture	Water_Heat	Natural_Gas	001	014	002	1	0.676470588
Commercial	Agriculture	Water_Heat	Electric	001	014	002	2	0.323529412
Commercial	Agriculture	Drying	Natural_Gas	001	014	008	1	1
Commercial	Agriculture	Drying	Electric	001	014	008	2	0
Commercial	Agriculture	Engine	Natural_Gas	001	014	009	1	0.06
Commercial	Agriculture	Engine	Electric	001	014	009	2	0.94
Commercial	Agriculture	Other	Natural_Gas	001	014	011	1	1

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareExisting
Commercial Office	Space_Heat	Natural_Gas	Natural_Gas	001	001	001	1	0.855504587
Commercial Office	Space_Heat	Electric	Electric	001	001	001	2	0.144495413
Commercial Office	Water_Heat	Natural_Gas	Natural_Gas	001	001	002	1	0.165813715
Commercial Office	Water_Heat	Electric	Electric	001	001	002	2	0.834186285
Commercial Office	Cooking	Natural_Gas	Natural_Gas	001	001	003	1	0.020689655
Commercial Office	Cooking	Electric	Electric	001	001	003	2	0.979310345
Commercial Office	AC_Compressor	Natural_Gas	Natural_Gas	001	001	010	1	0.06
Commercial Office	AC_Compressor	Electric	Electric	001	001	010	2	0.94
Commercial Office	Other	Natural_Gas	Natural_Gas	001	001	011	1	1
Commercial Restaurant	Space_Heat	Natural_Gas	Natural_Gas	001	002	001	1	0.590464548
Commercial Restaurant	Space_Heat	Electric	Electric	001	002	001	2	0.409535452
Commercial Restaurant	Water_Heat	Natural_Gas	Natural_Gas	001	002	002	1	0.902040816
Commercial Restaurant	Water_Heat	Electric	Electric	001	002	002	2	0.097959184
Commercial Restaurant	Cook_top	Natural_Gas	Natural_Gas	001	002	004	1	0.977333333
Commercial Restaurant	Cook_top	Electric	Electric	001	002	004	2	0.022666667
Commercial Restaurant	Fryer	Natural_Gas	Natural_Gas	001	002	005	1	0.905349794
Commercial Restaurant	Fryer	Electric	Electric	001	002	005	2	0.094650206
Commercial Restaurant	Griddle	Natural_Gas	Natural_Gas	001	002	006	1	0.970383275
Commercial Restaurant	Griddle	Electric	Electric	001	002	006	2	0.029616725
Commercial Restaurant	Other_Cooking	Natural_Gas	Natural_Gas	001	002	007	1	0.66
Commercial Restaurant	Other_Cooking	Electric	Electric	001	002	007	2	0.34
Commercial Restaurant	AC_Compressor	Natural_Gas	Natural_Gas	001	002	010	1	0.06
Commercial Restaurant	AC_Compressor	Electric	Electric	001	002	010	2	0.94
Commercial Restaurant	Other	Natural_Gas	Natural_Gas	001	002	011	1	1
Commercial Retail	Space_Heat	Natural_Gas	Natural_Gas	001	003	001	1	0.517509728
Commercial Retail	Space_Heat	Electric	Electric	001	003	001	2	0.482490272
Commercial Retail	Water_Heat	Natural_Gas	Natural_Gas	001	003	002	1	0.310077519

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareExisting
Commercial Retail		Water_Heat	Electric	001	003	002	2	0.689922481
Commercial Retail		Cooking	Natural_Gas	001	003	003	1	0.093670886
Commercial Retail		Cooking	Electric	001	003	003	2	0.906329114
Commercial Retail		Other	Natural_Gas	001	003	011	1	1
Commercial Laundry		Space_Heat	Natural_Gas	001	004	001	1	0.576923077
Commercial Laundry		Space_Heat	Electric	001	004	001	2	0.423076923
Commercial Laundry		Water_Heat	Natural_Gas	001	004	002	1	0.676470588
Commercial Laundry		Water_Heat	Electric	001	004	002	2	0.323529412
Commercial Laundry		Drying	Natural_Gas	001	004	008	1	0.6
Commercial Laundry		Drying	Electric	001	004	008	2	0.4
Commercial Laundry		Other	Natural_Gas	001	004	011	1	1
Commercial Warehouse		Space_Heat	Natural_Gas	001	005	001	1	0.437229437
Commercial Warehouse		Space_Heat	Electric	001	005	001	2	0.562770563
Commercial Warehouse		Water_Heat	Natural_Gas	001	005	002	1	0.071590909
Commercial Warehouse		Water_Heat	Electric	001	005	002	2	0.928409091
Commercial Warehouse		Engine	Natural_Gas	001	005	009	1	0.06
Commercial Warehouse		Engine	Electric	001	005	009	2	0.94
Commercial Warehouse		Other	Natural_Gas	001	005	011	1	1
Commercial School		Space_Heat	Natural_Gas	001	006	001	1	0.752843847
Commercial School		Space_Heat	Electric	001	006	001	2	0.247156153
Commercial School		Water_Heat	Natural_Gas	001	006	002	1	0.758433079
Commercial School		Water_Heat	Electric	001	006	002	2	0.241566921
Commercial School		Cook_top	Natural_Gas	001	006	004	1	0.428571429
Commercial School		Cook_top	Electric	001	006	004	2	0.571428571
Commercial School		Fryer	Natural_Gas	001	006	005	1	0.428571429
Commercial School		Fryer	Electric	001	006	005	2	0.571428571
Commercial School		Griddle	Natural_Gas	001	006	006	1	0.428571429

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareExisting
Commercial School	Griddle	Electric	001	006	006	2		0.571428571
Commercial School	Other_Cooking	Natural_Gas	001	006	007	1		0.428571429
Commercial School	Other_Cooking	Electric	001	006	007	2		0.571428571
Commercial School	AC_Compressor	Natural_Gas	001	006	010	1		0.06
Commercial School	AC_Compressor	Electric	001	006	010	2		0.94
Commercial School	Other	Natural_Gas	001	006	011	1		1
Commercial College	Space_Heat	Natural_Gas	001	007	001	1		0.330275229
Commercial College	Space_Heat	Electric	001	007	001	2		0.669724771
Commercial College	Water_Heat	Natural_Gas	001	007	002	1		0.816753927
Commercial College	Water_Heat	Electric	001	007	002	2		0.183246073
Commercial College	Cook_top	Natural_Gas	001	007	004	1		0.048010974
Commercial College	Cook_top	Electric	001	007	004	2		0.951989026
Commercial College	Fryer	Natural_Gas	001	007	005	1		0.048010974
Commercial College	Fryer	Electric	001	007	005	2		0.951989026
Commercial College	Griddle	Natural_Gas	001	007	006	1		0.048010974
Commercial College	Griddle	Electric	001	007	006	2		0.951989026
Commercial College	Other_Cooking	Natural_Gas	001	007	007	1		0.048010974
Commercial College	Other_Cooking	Electric	001	007	007	2		0.951989026
Commercial College	AC_Compressor	Natural_Gas	001	007	010	1		0.06
Commercial College	AC_Compressor	Electric	001	007	010	2		0.94
Commercial College	Other	Natural_Gas	001	007	011	1		1
Commercial Health	Space_Heat	Natural_Gas	001	008	001	1		0.66025641
Commercial Health	Space_Heat	Electric	001	008	001	2		0.33974359
Commercial Health	Water_Heat	Natural_Gas	001	008	002	1		0.824200913
Commercial Health	Water_Heat	Electric	001	008	002	2		0.175799087
Commercial Health	Cook_top	Natural_Gas	001	008	004	1		0.094874591
Commercial Health	Cook_top	Electric	001	008	004	2		0.905125409

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareExisting
Commercial	Health	Fryer	Natural_Gas	001	008	005	1	0.094874591
Commercial	Health	Fryer	Electric	001	008	005	2	0.905125409
Commercial	Health	Griddle	Natural_Gas	001	008	006	1	0.094874591
Commercial	Health	Griddle	Electric	001	008	006	2	0.905125409
Commercial	Health	Other_Cooking	Natural_Gas	001	008	007	1	0.66
Commercial	Health	Other_Cooking	Electric	001	008	007	2	0.34
Commercial	Health	Drying	Natural_Gas	001	008	008	1	0.6
Commercial	Health	Drying	Electric	001	008	008	2	0.4
Commercial	Health	AC_Compressor	Natural_Gas	001	008	010	1	0.06
Commercial	Health	AC_Compressor	Electric	001	008	010	2	0.94
Commercial	Health	Other	Natural_Gas	001	008	011	1	1
Commercial	Lodging	Space_Heat	Natural_Gas	001	009	001	1	0.27150838
Commercial	Lodging	Space_Heat	Electric	001	009	001	2	0.72849162
Commercial	Lodging	Water_Heat	Natural_Gas	001	009	002	1	0.989484753
Commercial	Lodging	Water_Heat	Electric	001	009	002	2	0.010515247
Commercial	Lodging	Cook_top	Natural_Gas	001	009	004	1	0.449579832
Commercial	Lodging	Cook_top	Electric	001	009	004	2	0.550420168
Commercial	Lodging	Fryer	Natural_Gas	001	009	005	1	0.449579832
Commercial	Lodging	Fryer	Electric	001	009	005	2	0.550420168
Commercial	Lodging	Griddle	Natural_Gas	001	009	006	1	0.449579832
Commercial	Lodging	Griddle	Electric	001	009	006	2	0.550420168
Commercial	Lodging	Other_Cooking	Natural_Gas	001	009	007	1	0.449579832
Commercial	Lodging	Other_Cooking	Electric	001	009	007	2	0.550420168
Commercial	Lodging	Drying	Natural_Gas	001	009	008	1	0.6
Commercial	Lodging	Drying	Electric	001	009	008	2	0.4
Commercial	Lodging	AC_Compressor	Natural_Gas	001	009	010	1	0.06
Commercial	Lodging	AC_Compressor	Electric	001	009	010	2	0.94

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareExisting
Commercial Lodging	Other		Natural_Gas	001	009	011	1	1
Commercial Misc	Space_Heat		Natural_Gas	001	010	001	1	0.549640288
Commercial Misc	Space_Heat		Electric	001	010	001	2	0.450359712
Commercial Misc	Water_Heat		Natural_Gas	001	010	002	1	0.556906077
Commercial Misc	Water_Heat		Electric	001	010	002	2	0.443093923
Commercial Misc	Cook_top		Natural_Gas	001	010	004	1	0.977333333
Commercial Misc	Cook_top		Electric	001	010	004	2	0.022666667
Commercial Misc	Fryer		Natural_Gas	001	010	005	1	0.905349794
Commercial Misc	Fryer		Electric	001	010	005	2	0.094650206
Commercial Misc	Griddle		Natural_Gas	001	010	006	1	0.970383275
Commercial Misc	Griddle		Electric	001	010	006	2	0.029616725
Commercial Misc	Other_Cooking		Natural_Gas	001	010	007	1	0.66
Commercial Misc	Other_Cooking		Electric	001	010	007	2	0.34
Commercial Misc	AC_Compressor		Natural_Gas	001	010	010	1	0.06
Commercial Misc	AC_Compressor		Electric	001	010	010	2	0.94
Commercial Misc	Other		Natural_Gas	001	010	011	1	1
Commercial Governme	Space_Heat		Natural_Gas	001	011	001	1	0.855504587
Commercial Governme	Space_Heat		Electric	001	011	001	2	0.144495413
Commercial Governme	Water_Heat		Natural_Gas	001	011	002	1	0.165813715
Commercial Governme	Water_Heat		Electric	001	011	002	2	0.834186285
Commercial Governme	Cook_top		Natural_Gas	001	011	004	1	0.977333333
Commercial Governme	Cook_top		Electric	001	011	004	2	0.022666667
Commercial Governme	Fryer		Natural_Gas	001	011	005	1	0.905349794
Commercial Governme	Fryer		Electric	001	011	005	2	0.094650206
Commercial Governme	Griddle		Natural_Gas	001	011	006	1	0.970383275
Commercial Governme	Griddle		Electric	001	011	006	2	0.029616725
Commercial Governme	Other_Cooking		Natural_Gas	001	011	007	1	0.66

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareExisting
Commercial	Government	Other_Cooking	Electric	001	011	007	2	0.34
Commercial	Government	AC_Compressor	Natural_Gas	001	011	010	1	0.06
Commercial	Government	AC_Compressor	Electric	001	011	010	2	0.94
Commercial	Government	Other	Natural_Gas	001	011	011	1	1
Commercial	TCU	Space_Heat	Natural_Gas	001	012	001	1	0.576923077
Commercial	TCU	Space_Heat	Electric	001	012	001	2	0.423076923
Commercial	TCU	Water_Heat	Natural_Gas	001	012	002	1	0.676470588
Commercial	TCU	Water_Heat	Electric	001	012	002	2	0.323529412
Commercial	TCU	Engine	Natural_Gas	001	012	009	1	0.06
Commercial	TCU	Engine	Electric	001	012	009	2	0.94
Commercial	TCU	Other	Natural_Gas	001	012	011	1	1
Commercial	Constructic	Space_Heat	Natural_Gas	001	013	001	1	0.576923077
Commercial	Constructic	Space_Heat	Electric	001	013	001	2	0.423076923
Commercial	Constructic	Water_Heat	Natural_Gas	001	013	002	1	0.676470588
Commercial	Constructic	Water_Heat	Electric	001	013	002	2	0.323529412
Commercial	Constructic	Other	Natural_Gas	001	013	011	1	1
Commercial	Agriculture	Space_Heat	Natural_Gas	001	014	001	1	0.576923077
Commercial	Agriculture	Space_Heat	Electric	001	014	001	2	0.423076923
Commercial	Agriculture	Water_Heat	Natural_Gas	001	014	002	1	0.676470588
Commercial	Agriculture	Water_Heat	Electric	001	014	002	2	0.323529412
Commercial	Agriculture	Drying	Natural_Gas	001	014	008	1	1
Commercial	Agriculture	Drying	Electric	001	014	008	2	0
Commercial	Agriculture	Engine	Natural_Gas	001	014	009	1	0.06
Commercial	Agriculture	Engine	Electric	001	014	009	2	0.94
Commercial	Agriculture	Other	Natural_Gas	001	014	011	1	1

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareConversion
Commercial Office	Space_Heat	Natural_Gas	Natural_Gas	001	001	001	1	0.855504587
Commercial Office	Space_Heat	Electric	Electric	001	001	001	2	0.144495413
Commercial Office	Water_Heat	Natural_Gas	Natural_Gas	001	001	002	1	0.165813715
Commercial Office	Water_Heat	Electric	Electric	001	001	002	2	0.834186285
Commercial Office	Cooking	Natural_Gas	Natural_Gas	001	001	003	1	0.020689655
Commercial Office	Cooking	Electric	Electric	001	001	003	2	0.979310345
Commercial Office	AC_Compressor	Natural_Gas	Natural_Gas	001	001	010	1	0.06
Commercial Office	AC_Compressor	Electric	Electric	001	001	010	2	0.94
Commercial Office	Other	Natural_Gas	Natural_Gas	001	001	011	1	1
Commercial Restaurant	Space_Heat	Natural_Gas	Natural_Gas	001	002	001	1	0.590464548
Commercial Restaurant	Space_Heat	Electric	Electric	001	002	001	2	0.409535452
Commercial Restaurant	Water_Heat	Natural_Gas	Natural_Gas	001	002	002	1	0.902040816
Commercial Restaurant	Water_Heat	Electric	Electric	001	002	002	2	0.097959184
Commercial Restaurant	Cook_top	Natural_Gas	Natural_Gas	001	002	004	1	0.977333333
Commercial Restaurant	Cook_top	Electric	Electric	001	002	004	2	0.022666667
Commercial Restaurant	Fryer	Natural_Gas	Natural_Gas	001	002	005	1	0.905349794
Commercial Restaurant	Fryer	Electric	Electric	001	002	005	2	0.094650206
Commercial Restaurant	Griddle	Natural_Gas	Natural_Gas	001	002	006	1	0.970383275
Commercial Restaurant	Griddle	Electric	Electric	001	002	006	2	0.029616725
Commercial Restaurant	Other_Cooking	Natural_Gas	Natural_Gas	001	002	007	1	0.66
Commercial Restaurant	Other_Cooking	Electric	Electric	001	002	007	2	0.34
Commercial Restaurant	AC_Compressor	Natural_Gas	Natural_Gas	001	002	010	1	0.06
Commercial Restaurant	AC_Compressor	Electric	Electric	001	002	010	2	0.94
Commercial Restaurant	Other	Natural_Gas	Natural_Gas	001	002	011	1	1
Commercial Retail	Space_Heat	Natural_Gas	Natural_Gas	001	003	001	1	0.517509728
Commercial Retail	Space_Heat	Electric	Electric	001	003	001	2	0.482490272
Commercial Retail	Water_Heat	Natural_Gas	Natural_Gas	001	003	002	1	0.310077519

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareConversion
Commercial Retail		Water_Heat	Electric	001	003	002	2	0.689922481
Commercial Retail		Cooking	Natural_Gas	001	003	003	1	0.093670886
Commercial Retail		Cooking	Electric	001	003	003	2	0.906329114
Commercial Retail		Other	Natural_Gas	001	003	011	1	1
Commercial Laundry		Space_Heat	Natural_Gas	001	004	001	1	0.576923077
Commercial Laundry		Space_Heat	Electric	001	004	001	2	0.423076923
Commercial Laundry		Water_Heat	Natural_Gas	001	004	002	1	0.676470588
Commercial Laundry		Water_Heat	Electric	001	004	002	2	0.323529412
Commercial Laundry		Drying	Natural_Gas	001	004	008	1	0.6
Commercial Laundry		Drying	Electric	001	004	008	2	0.4
Commercial Laundry		Other	Natural_Gas	001	004	011	1	1
Commercial Warehouse		Space_Heat	Natural_Gas	001	005	001	1	0.437229437
Commercial Warehouse		Space_Heat	Electric	001	005	001	2	0.562770563
Commercial Warehouse		Water_Heat	Natural_Gas	001	005	002	1	0.071590909
Commercial Warehouse		Water_Heat	Electric	001	005	002	2	0.928409091
Commercial Warehouse		Engine	Natural_Gas	001	005	009	1	0.06
Commercial Warehouse		Engine	Electric	001	005	009	2	0.94
Commercial Warehouse		Other	Natural_Gas	001	005	011	1	1
Commercial School		Space_Heat	Natural_Gas	001	006	001	1	0.752843847
Commercial School		Space_Heat	Electric	001	006	001	2	0.247156153
Commercial School		Water_Heat	Natural_Gas	001	006	002	1	0.758433079
Commercial School		Water_Heat	Electric	001	006	002	2	0.241566921
Commercial School		Cook_top	Natural_Gas	001	006	004	1	0.428571429
Commercial School		Cook_top	Electric	001	006	004	2	0.571428571
Commercial School		Fryer	Natural_Gas	001	006	005	1	0.428571429
Commercial School		Fryer	Electric	001	006	005	2	0.571428571
Commercial School		Griddle	Natural_Gas	001	006	006	1	0.428571429

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareConversion
Commercial	School	Griddle	Electric	001	006	006	2	0.571428571
Commercial	School	Other_Cooking	Natural_Gas	001	006	007	1	0.428571429
Commercial	School	Other_Cooking	Electric	001	006	007	2	0.571428571
Commercial	School	AC_Compressor	Natural_Gas	001	006	010	1	0.06
Commercial	School	AC_Compressor	Electric	001	006	010	2	0.94
Commercial	School	Other	Natural_Gas	001	006	011	1	1
Commercial	College	Space_Heat	Natural_Gas	001	007	001	1	0.330275229
Commercial	College	Space_Heat	Electric	001	007	001	2	0.669724771
Commercial	College	Water_Heat	Natural_Gas	001	007	002	1	0.816753927
Commercial	College	Water_Heat	Electric	001	007	002	2	0.183246073
Commercial	College	Cook_top	Natural_Gas	001	007	004	1	0.048010974
Commercial	College	Cook_top	Electric	001	007	004	2	0.951989026
Commercial	College	Fryer	Natural_Gas	001	007	005	1	0.048010974
Commercial	College	Fryer	Electric	001	007	005	2	0.951989026
Commercial	College	Griddle	Natural_Gas	001	007	006	1	0.048010974
Commercial	College	Griddle	Electric	001	007	006	2	0.951989026
Commercial	College	Other_Cooking	Natural_Gas	001	007	007	1	0.048010974
Commercial	College	Other_Cooking	Electric	001	007	007	2	0.951989026
Commercial	College	AC_Compressor	Natural_Gas	001	007	010	1	0.06
Commercial	College	AC_Compressor	Electric	001	007	010	2	0.94
Commercial	College	Other	Natural_Gas	001	007	011	1	1
Commercial	Health	Space_Heat	Natural_Gas	001	008	001	1	0.66025641
Commercial	Health	Space_Heat	Electric	001	008	001	2	0.33974359
Commercial	Health	Water_Heat	Natural_Gas	001	008	002	1	0.824200913
Commercial	Health	Water_Heat	Electric	001	008	002	2	0.175799087
Commercial	Health	Cook_top	Natural_Gas	001	008	004	1	0.094874591
Commercial	Health	Cook_top	Electric	001	008	004	2	0.905125409

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareConversion
Commercial	Health	Fryer	Natural_Gas	001	008	005	1	0.094874591
Commercial	Health	Fryer	Electric	001	008	005	2	0.905125409
Commercial	Health	Griddle	Natural_Gas	001	008	006	1	0.094874591
Commercial	Health	Griddle	Electric	001	008	006	2	0.905125409
Commercial	Health	Other_Cooking	Natural_Gas	001	008	007	1	0.66
Commercial	Health	Other_Cooking	Electric	001	008	007	2	0.34
Commercial	Health	Drying	Natural_Gas	001	008	008	1	0.6
Commercial	Health	Drying	Electric	001	008	008	2	0.4
Commercial	Health	AC_Compressor	Natural_Gas	001	008	010	1	0.06
Commercial	Health	AC_Compressor	Electric	001	008	010	2	0.94
Commercial	Health	Other	Natural_Gas	001	008	011	1	1
Commercial	Lodging	Space_Heat	Natural_Gas	001	009	001	1	0.27150838
Commercial	Lodging	Space_Heat	Electric	001	009	001	2	0.72849162
Commercial	Lodging	Water_Heat	Natural_Gas	001	009	002	1	0.989484753
Commercial	Lodging	Water_Heat	Electric	001	009	002	2	0.010515247
Commercial	Lodging	Cook_top	Natural_Gas	001	009	004	1	0.449579832
Commercial	Lodging	Cook_top	Electric	001	009	004	2	0.550420168
Commercial	Lodging	Fryer	Natural_Gas	001	009	005	1	0.449579832
Commercial	Lodging	Fryer	Electric	001	009	005	2	0.550420168
Commercial	Lodging	Griddle	Natural_Gas	001	009	006	1	0.449579832
Commercial	Lodging	Griddle	Electric	001	009	006	2	0.550420168
Commercial	Lodging	Other_Cooking	Natural_Gas	001	009	007	1	0.449579832
Commercial	Lodging	Other_Cooking	Electric	001	009	007	2	0.550420168
Commercial	Lodging	Drying	Natural_Gas	001	009	008	1	0.6
Commercial	Lodging	Drying	Electric	001	009	008	2	0.4
Commercial	Lodging	AC_Compressor	Natural_Gas	001	009	010	1	0.06
Commercial	Lodging	AC_Compressor	Electric	001	009	010	2	0.94

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareConversion
Commercial Lodging	Other	Natural_Gas	001	009	011	1	1	
Commercial Misc	Space_Heat	Natural_Gas	001	010	001	1	0.549640288	
Commercial Misc	Space_Heat	Electric	001	010	001	2	0.450359712	
Commercial Misc	Water_Heat	Natural_Gas	001	010	002	1	0.556906077	
Commercial Misc	Water_Heat	Electric	001	010	002	2	0.443093923	
Commercial Misc	Cook_top	Natural_Gas	001	010	004	1	0.977333333	
Commercial Misc	Cook_top	Electric	001	010	004	2	0.022666667	
Commercial Misc	Fryer	Natural_Gas	001	010	005	1	0.905349794	
Commercial Misc	Fryer	Electric	001	010	005	2	0.094650206	
Commercial Misc	Griddle	Natural_Gas	001	010	006	1	0.970383275	
Commercial Misc	Griddle	Electric	001	010	006	2	0.029616725	
Commercial Misc	Other_Cooking	Natural_Gas	001	010	007	1	0.66	
Commercial Misc	Other_Cooking	Electric	001	010	007	2	0.34	
Commercial Misc	AC_Compressor	Natural_Gas	001	010	010	1	0.06	
Commercial Misc	AC_Compressor	Electric	001	010	010	2	0.94	
Commercial Misc	Other	Natural_Gas	001	010	011	1	1	
Commercial Governme	Space_Heat	Natural_Gas	001	011	001	1	0.855504587	
Commercial Governme	Space_Heat	Electric	001	011	001	2	0.144495413	
Commercial Governme	Water_Heat	Natural_Gas	001	011	002	1	0.165813715	
Commercial Governme	Water_Heat	Electric	001	011	002	2	0.834186285	
Commercial Governme	Cook_top	Natural_Gas	001	011	004	1	0.977333333	
Commercial Governme	Cook_top	Electric	001	011	004	2	0.022666667	
Commercial Governme	Fryer	Natural_Gas	001	011	005	1	0.905349794	
Commercial Governme	Fryer	Electric	001	011	005	2	0.094650206	
Commercial Governme	Griddle	Natural_Gas	001	011	006	1	0.970383275	
Commercial Governme	Griddle	Electric	001	011	006	2	0.029616725	
Commercial Governme	Other_Cooking	Natural_Gas	001	011	007	1	0.66	

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareConversion
Commercial Governme	Other_Cooking	Electric	001	011	007	2		0.34
Commercial Governme	AC_Compressor	Natural_Gas	001	011	010	1		0.06
Commercial Governme	AC_Compressor	Electric	001	011	010	2		0.94
Commercial Governme	Other	Natural_Gas	001	011	011	1		1
Commercial TCU	Space_Heat	Natural_Gas	001	012	001	1		0.576923077
Commercial TCU	Space_Heat	Electric	001	012	001	2		0.423076923
Commercial TCU	Water_Heat	Natural_Gas	001	012	002	1		0.676470588
Commercial TCU	Water_Heat	Electric	001	012	002	2		0.323529412
Commercial TCU	Engine	Natural_Gas	001	012	009	1		0.06
Commercial TCU	Engine	Electric	001	012	009	2		0.94
Commercial TCU	Other	Natural_Gas	001	012	011	1		1
Commercial Constructio	Space_Heat	Natural_Gas	001	013	001	1		0.576923077
Commercial Constructio	Space_Heat	Electric	001	013	001	2		0.423076923
Commercial Constructio	Water_Heat	Natural_Gas	001	013	002	1		0.676470588
Commercial Constructio	Water_Heat	Electric	001	013	002	2		0.323529412
Commercial Constructio	Other	Natural_Gas	001	013	011	1		1
Commercial Agriculture	Space_Heat	Natural_Gas	001	014	001	1		0.576923077
Commercial Agriculture	Space_Heat	Electric	001	014	001	2		0.423076923
Commercial Agriculture	Water_Heat	Natural_Gas	001	014	002	1		0.676470588
Commercial Agriculture	Water_Heat	Electric	001	014	002	2		0.323529412
Commercial Agriculture	Drying	Natural_Gas	001	014	008	1		1
Commercial Agriculture	Drying	Electric	001	014	008	2		0
Commercial Agriculture	Engine	Natural_Gas	001	014	009	1		0.06
Commercial Agriculture	Engine	Electric	001	014	009	2		0.94
Commercial Agriculture	Other	Natural_Gas	001	014	011	1		1

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareNew
Commercial Office	Space_Heat	Natural_Gas	001	001	001	1		0.855504587
Commercial Office	Space_Heat	Electric	001	001	001	2		0.144495413
Commercial Office	Water_Heat	Natural_Gas	001	001	002	1		0.165813715
Commercial Office	Water_Heat	Electric	001	001	002	2		0.834186285
Commercial Office	Cooking	Natural_Gas	001	001	003	1		0.020689655
Commercial Office	Cooking	Electric	001	001	003	2		0.979310345
Commercial Office	AC_Compressor	Natural_Gas	001	001	010	1		0.06
Commercial Office	AC_Compressor	Electric	001	001	010	2		0.94
Commercial Office	Other	Natural_Gas	001	001	011	1		1
Commercial Restaurant	Space_Heat	Natural_Gas	001	002	001	1		0.590464548
Commercial Restaurant	Space_Heat	Electric	001	002	001	2		0.409535452
Commercial Restaurant	Water_Heat	Natural_Gas	001	002	002	1		0.902040816
Commercial Restaurant	Water_Heat	Electric	001	002	002	2		0.097959184
Commercial Restaurant	Cook_top	Natural_Gas	001	002	004	1		0.977333333
Commercial Restaurant	Cook_top	Electric	001	002	004	2		0.022666667
Commercial Restaurant	Fryer	Natural_Gas	001	002	005	1		0.905349794
Commercial Restaurant	Fryer	Electric	001	002	005	2		0.094650206
Commercial Restaurant	Griddle	Natural_Gas	001	002	006	1		0.970383275
Commercial Restaurant	Griddle	Electric	001	002	006	2		0.029616725
Commercial Restaurant	Other_Cooking	Natural_Gas	001	002	007	1		0.66
Commercial Restaurant	Other_Cooking	Electric	001	002	007	2		0.34
Commercial Restaurant	AC_Compressor	Natural_Gas	001	002	010	1		0.06
Commercial Restaurant	AC_Compressor	Electric	001	002	010	2		0.94
Commercial Restaurant	Other	Natural_Gas	001	002	011	1		1
Commercial Retail	Space_Heat	Natural_Gas	001	003	001	1		0.517509728
Commercial Retail	Space_Heat	Electric	001	003	001	2		0.482490272
Commercial Retail	Water_Heat	Natural_Gas	001	003	002	1		0.310077519

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareNew
Commercial Retail		Water_Heat	Electric	001	003	002	2	0.689922481
Commercial Retail		Cooking	Natural_Gas	001	003	003	1	0.093670886
Commercial Retail		Cooking	Electric	001	003	003	2	0.906329114
Commercial Retail		Other	Natural_Gas	001	003	011	1	1
Commercial Laundry		Space_Heat	Natural_Gas	001	004	001	1	0.576923077
Commercial Laundry		Space_Heat	Electric	001	004	001	2	0.423076923
Commercial Laundry		Water_Heat	Natural_Gas	001	004	002	1	0.676470588
Commercial Laundry		Water_Heat	Electric	001	004	002	2	0.323529412
Commercial Laundry		Drying	Natural_Gas	001	004	008	1	0.6
Commercial Laundry		Drying	Electric	001	004	008	2	0.4
Commercial Laundry		Other	Natural_Gas	001	004	011	1	1
Commercial Warehouse		Space_Heat	Natural_Gas	001	005	001	1	0.437229437
Commercial Warehouse		Space_Heat	Electric	001	005	001	2	0.562770563
Commercial Warehouse		Water_Heat	Natural_Gas	001	005	002	1	0.071590909
Commercial Warehouse		Water_Heat	Electric	001	005	002	2	0.928409091
Commercial Warehouse		Engine	Natural_Gas	001	005	009	1	0.06
Commercial Warehouse		Engine	Electric	001	005	009	2	0.94
Commercial Warehouse		Other	Natural_Gas	001	005	011	1	1
Commercial School		Space_Heat	Natural_Gas	001	006	001	1	0.752843847
Commercial School		Space_Heat	Electric	001	006	001	2	0.247156153
Commercial School		Water_Heat	Natural_Gas	001	006	002	1	0.758433079
Commercial School		Water_Heat	Electric	001	006	002	2	0.241566921
Commercial School		Cook_top	Natural_Gas	001	006	004	1	0.428571429
Commercial School		Cook_top	Electric	001	006	004	2	0.571428571
Commercial School		Fryer	Natural_Gas	001	006	005	1	0.428571429
Commercial School		Fryer	Electric	001	006	005	2	0.571428571
Commercial School		Griddle	Natural_Gas	001	006	006	1	0.428571429

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareNew
Commercial School	Griddle	Electric	001	006	006	2		0.571428571
Commercial School	Other_Cooking	Natural_Gas	001	006	007	1		0.428571429
Commercial School	Other_Cooking	Electric	001	006	007	2		0.571428571
Commercial School	AC_Compressor	Natural_Gas	001	006	010	1		0.06
Commercial School	AC_Compressor	Electric	001	006	010	2		0.94
Commercial School	Other	Natural_Gas	001	006	011	1		1
Commercial College	Space_Heat	Natural_Gas	001	007	001	1		0.330275229
Commercial College	Space_Heat	Electric	001	007	001	2		0.669724771
Commercial College	Water_Heat	Natural_Gas	001	007	002	1		0.816753927
Commercial College	Water_Heat	Electric	001	007	002	2		0.183246073
Commercial College	Cook_top	Natural_Gas	001	007	004	1		0.048010974
Commercial College	Cook_top	Electric	001	007	004	2		0.951989026
Commercial College	Fryer	Natural_Gas	001	007	005	1		0.048010974
Commercial College	Fryer	Electric	001	007	005	2		0.951989026
Commercial College	Griddle	Natural_Gas	001	007	006	1		0.048010974
Commercial College	Griddle	Electric	001	007	006	2		0.951989026
Commercial College	Other_Cooking	Natural_Gas	001	007	007	1		0.048010974
Commercial College	Other_Cooking	Electric	001	007	007	2		0.951989026
Commercial College	AC_Compressor	Natural_Gas	001	007	010	1		0.06
Commercial College	AC_Compressor	Electric	001	007	010	2		0.94
Commercial College	Other	Natural_Gas	001	007	011	1		1
Commercial Health	Space_Heat	Natural_Gas	001	008	001	1		0.66025641
Commercial Health	Space_Heat	Electric	001	008	001	2		0.33974359
Commercial Health	Water_Heat	Natural_Gas	001	008	002	1		0.824200913
Commercial Health	Water_Heat	Electric	001	008	002	2		0.175799087
Commercial Health	Cook_top	Natural_Gas	001	008	004	1		0.094874591
Commercial Health	Cook_top	Electric	001	008	004	2		0.905125409

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareNew
Commercial	Health	Fryer	Natural_Gas	001	008	005	1	0.094874591
Commercial	Health	Fryer	Electric	001	008	005	2	0.905125409
Commercial	Health	Griddle	Natural_Gas	001	008	006	1	0.094874591
Commercial	Health	Griddle	Electric	001	008	006	2	0.905125409
Commercial	Health	Other_Cooking	Natural_Gas	001	008	007	1	0.66
Commercial	Health	Other_Cooking	Electric	001	008	007	2	0.34
Commercial	Health	Drying	Natural_Gas	001	008	008	1	0.6
Commercial	Health	Drying	Electric	001	008	008	2	0.4
Commercial	Health	AC_Compressor	Natural_Gas	001	008	010	1	0.06
Commercial	Health	AC_Compressor	Electric	001	008	010	2	0.94
Commercial	Health	Other	Natural_Gas	001	008	011	1	1
Commercial	Lodging	Space_Heat	Natural_Gas	001	009	001	1	0.27150838
Commercial	Lodging	Space_Heat	Electric	001	009	001	2	0.72849162
Commercial	Lodging	Water_Heat	Natural_Gas	001	009	002	1	0.989484753
Commercial	Lodging	Water_Heat	Electric	001	009	002	2	0.010515247
Commercial	Lodging	Cook_top	Natural_Gas	001	009	004	1	0.449579832
Commercial	Lodging	Cook_top	Electric	001	009	004	2	0.550420168
Commercial	Lodging	Fryer	Natural_Gas	001	009	005	1	0.449579832
Commercial	Lodging	Fryer	Electric	001	009	005	2	0.550420168
Commercial	Lodging	Griddle	Natural_Gas	001	009	006	1	0.449579832
Commercial	Lodging	Griddle	Electric	001	009	006	2	0.550420168
Commercial	Lodging	Other_Cooking	Natural_Gas	001	009	007	1	0.449579832
Commercial	Lodging	Other_Cooking	Electric	001	009	007	2	0.550420168
Commercial	Lodging	Drying	Natural_Gas	001	009	008	1	0.6
Commercial	Lodging	Drying	Electric	001	009	008	2	0.4
Commercial	Lodging	AC_Compressor	Natural_Gas	001	009	010	1	0.06
Commercial	Lodging	AC_Compressor	Electric	001	009	010	2	0.94

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareNew
Commercial Lodging	Other	Natural_Gas	Natural_Gas	001	009	011	1	1
Commercial Misc	Space_Heat	Natural_Gas	Natural_Gas	001	010	001	1	0.549640288
Commercial Misc	Space_Heat	Electric	Electric	001	010	001	2	0.450359712
Commercial Misc	Water_Heat	Natural_Gas	Natural_Gas	001	010	002	1	0.556906077
Commercial Misc	Water_Heat	Electric	Electric	001	010	002	2	0.443093923
Commercial Misc	Cook_top	Natural_Gas	Natural_Gas	001	010	004	1	0.977333333
Commercial Misc	Cook_top	Electric	Electric	001	010	004	2	0.022666667
Commercial Misc	Fryer	Natural_Gas	Natural_Gas	001	010	005	1	0.905349794
Commercial Misc	Fryer	Electric	Electric	001	010	005	2	0.094650206
Commercial Misc	Griddle	Natural_Gas	Natural_Gas	001	010	006	1	0.970383275
Commercial Misc	Griddle	Electric	Electric	001	010	006	2	0.029616725
Commercial Misc	Other_Cooking	Natural_Gas	Natural_Gas	001	010	007	1	0.66
Commercial Misc	Other_Cooking	Electric	Electric	001	010	007	2	0.34
Commercial Misc	AC_Compressor	Natural_Gas	Natural_Gas	001	010	010	1	0.06
Commercial Misc	AC_Compressor	Electric	Electric	001	010	010	2	0.94
Commercial Misc	Other	Natural_Gas	Natural_Gas	001	010	011	1	1
Commercial Governme	Space_Heat	Natural_Gas	Natural_Gas	001	011	001	1	0.855504587
Commercial Governme	Space_Heat	Electric	Electric	001	011	001	2	0.144495413
Commercial Governme	Water_Heat	Natural_Gas	Natural_Gas	001	011	002	1	0.165813715
Commercial Governme	Water_Heat	Electric	Electric	001	011	002	2	0.834186285
Commercial Governme	Cook_top	Natural_Gas	Natural_Gas	001	011	004	1	0.977333333
Commercial Governme	Cook_top	Electric	Electric	001	011	004	2	0.022666667
Commercial Governme	Fryer	Natural_Gas	Natural_Gas	001	011	005	1	0.905349794
Commercial Governme	Fryer	Electric	Electric	001	011	005	2	0.094650206
Commercial Governme	Griddle	Natural_Gas	Natural_Gas	001	011	006	1	0.970383275
Commercial Governme	Griddle	Electric	Electric	001	011	006	2	0.029616725
Commercial Governme	Other_Cooking	Natural_Gas	Natural_Gas	001	011	007	1	0.66

SAN DIEGO GAS & ELECTRIC COMPANY CORE COMMERCIAL: F-SHARES

zName	bName	nName	fName	z	b	n	f	baseMargFShareNew
Commercial	Government	Other_Cooking	Electric	001	011	007	2	0.34
Commercial	Government	AC_Compressor	Natural_Gas	001	011	010	1	0.06
Commercial	Government	AC_Compressor	Electric	001	011	010	2	0.94
Commercial	Government	Other	Natural_Gas	001	011	011	1	1
Commercial	TCU	Space_Heat	Natural_Gas	001	012	001	1	0.576923077
Commercial	TCU	Space_Heat	Electric	001	012	001	2	0.423076923
Commercial	TCU	Water_Heat	Natural_Gas	001	012	002	1	0.676470588
Commercial	TCU	Water_Heat	Electric	001	012	002	2	0.323529412
Commercial	TCU	Engine	Natural_Gas	001	012	009	1	0.06
Commercial	TCU	Engine	Electric	001	012	009	2	0.94
Commercial	TCU	Other	Natural_Gas	001	012	011	1	1
Commercial	Constructic	Space_Heat	Natural_Gas	001	013	001	1	0.576923077
Commercial	Constructic	Space_Heat	Electric	001	013	001	2	0.423076923
Commercial	Constructic	Water_Heat	Natural_Gas	001	013	002	1	0.676470588
Commercial	Constructic	Water_Heat	Electric	001	013	002	2	0.323529412
Commercial	Constructic	Other	Natural_Gas	001	013	011	1	1
Commercial	Agriculture	Space_Heat	Natural_Gas	001	014	001	1	0.576923077
Commercial	Agriculture	Space_Heat	Electric	001	014	001	2	0.423076923
Commercial	Agriculture	Water_Heat	Natural_Gas	001	014	002	1	0.676470588
Commercial	Agriculture	Water_Heat	Electric	001	014	002	2	0.323529412
Commercial	Agriculture	Drying	Natural_Gas	001	014	008	1	1
Commercial	Agriculture	Drying	Electric	001	014	008	2	0
Commercial	Agriculture	Engine	Natural_Gas	001	014	009	1	0.06
Commercial	Agriculture	Engine	Electric	001	014	009	2	0.94
Commercial	Agriculture	Other	Natural_Gas	001	014	011	1	1

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial Laundry	Drying	Electric	Standard	001	004	008	2	2		0.35
Commercial Laundry	Other	Natural_Gas	Stock	001	004	011	1	1		1
Commercial Warehouse	Space_Heat	Natural_Gas	Stock	001	005	001	1	1		0.65
Commercial Warehouse	Space_Heat	Natural_Gas	Standard	001	005	001	1	2		0.3
Commercial Warehouse	Space_Heat	Natural_Gas	High	001	005	001	1	3		0.04
Commercial Warehouse	Space_Heat	Natural_Gas	Premium	001	005	001	1	4		0.01
Commercial Warehouse	Space_Heat	Electric	Stock	001	005	001	2	1		1
Commercial Warehouse	Water_Heat	Natural_Gas	Stock	001	005	002	1	1		0.4
Commercial Warehouse	Water_Heat	Natural_Gas	Standard	001	005	002	1	2		0.5
Commercial Warehouse	Water_Heat	Natural_Gas	High	001	005	002	1	3		0.08
Commercial Warehouse	Water_Heat	Natural_Gas	Premium	001	005	002	1	4		0.02
Commercial Warehouse	Water_Heat	Electric	Stock	001	005	002	2	1		0.4
Commercial Warehouse	Water_Heat	Electric	Standard	001	005	002	2	2		0.5
Commercial Warehouse	Water_Heat	Electric	High	001	005	002	2	3		0.08
Commercial Warehouse	Water_Heat	Electric	Premium	001	005	002	2	4		0.02
Commercial Warehouse	Engine	Natural_Gas	Stock	001	005	009	1	1		0.65
Commercial Warehouse	Engine	Natural_Gas	Standard	001	005	009	1	2		0.35
Commercial Warehouse	Engine	Electric	Stock	001	005	009	2	1		0.65
Commercial Warehouse	Engine	Electric	Standard	001	005	009	2	2		0.35
Commercial Warehouse	Other	Natural_Gas	Stock	001	005	011	1	1		1
Commercial School	Space_Heat	Natural_Gas	Stock	001	006	001	1	1		0.65
Commercial School	Space_Heat	Natural_Gas	Standard	001	006	001	1	2		0.3
Commercial School	Space_Heat	Natural_Gas	High	001	006	001	1	3		0.04
Commercial School	Space_Heat	Natural_Gas	Premium	001	006	001	1	4		0.01
Commercial School	Space_Heat	Electric	Stock	001	006	001	2	1		1
Commercial School	Water_Heat	Natural_Gas	Stock	001	006	002	1	1		0.4
Commercial School	Water_Heat	Natural_Gas	Standard	001	006	002	1	2		0.5
Commercial School	Water_Heat	Natural_Gas	High	001	006	002	1	3		0.08
Commercial School	Water_Heat	Natural_Gas	Premium	001	006	002	1	4		0.02
Commercial School	Water_Heat	Electric	Stock	001	006	002	2	1		0.4

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial School	Water_Heat	Electric	Standard	001	006	002	2	2	2	0.5
Commercial School	Water_Heat	Electric	High	001	006	002	2	3	3	0.08
Commercial School	Water_Heat	Electric	Premium	001	006	002	2	4	4	0.02
Commercial School	Cook_top	Natural_Gas	Stock	001	006	004	1	1	1	0.65
Commercial School	Cook_top	Natural_Gas	Standard	001	006	004	1	2	2	0.35
Commercial School	Cook_top	Electric	Stock	001	006	004	2	1	1	0.65
Commercial School	Cook_top	Electric	Standard	001	006	004	2	2	2	0.35
Commercial School	Fryer	Natural_Gas	Stock	001	006	005	1	1	1	0.65
Commercial School	Fryer	Natural_Gas	Standard	001	006	005	1	2	2	0.35
Commercial School	Fryer	Electric	Stock	001	006	005	2	1	1	0.65
Commercial School	Fryer	Electric	Standard	001	006	005	2	2	2	0.35
Commercial School	Griddle	Natural_Gas	Stock	001	006	006	1	1	1	0.65
Commercial School	Griddle	Natural_Gas	Standard	001	006	006	1	2	2	0.35
Commercial School	Griddle	Electric	Stock	001	006	006	2	1	1	0.65
Commercial School	Griddle	Electric	Standard	001	006	006	2	2	2	0.35
Commercial School	Other_Cooking	Natural_Gas	Stock	001	006	007	1	1	1	0.65
Commercial School	Other_Cooking	Natural_Gas	Standard	001	006	007	1	2	2	0.35
Commercial School	Other_Cooking	Electric	Stock	001	006	007	2	1	1	0.65
Commercial School	Other_Cooking	Electric	Standard	001	006	007	2	2	2	0.35
Commercial School	AC_Compressor	Natural_Gas	Stock	001	006	010	1	1	1	0.65
Commercial School	AC_Compressor	Natural_Gas	Standard	001	006	010	1	2	2	0.35
Commercial School	AC_Compressor	Electric	Stock	001	006	010	2	1	1	0.65
Commercial School	AC_Compressor	Electric	Standard	001	006	010	2	2	2	0.35
Commercial School	Other	Natural_Gas	Stock	001	006	011	1	1	1	1
Commercial College	Space_Heat	Natural_Gas	Stock	001	007	001	1	1	1	0.65
Commercial College	Space_Heat	Natural_Gas	Standard	001	007	001	1	2	2	0.3
Commercial College	Space_Heat	Natural_Gas	High	001	007	001	1	3	3	0.04
Commercial College	Space_Heat	Natural_Gas	Premium	001	007	001	1	4	4	0.01
Commercial College	Space_Heat	Electric	Stock	001	007	001	2	1	1	1
Commercial College	Water_Heat	Natural_Gas	Stock	001	007	002	1	1	1	0.4

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial	College	Water_Heat	Natural_Gas	Standard	001	007	002	1	2	0.5
Commercial	College	Water_Heat	Natural_Gas	High	001	007	002	1	3	0.08
Commercial	College	Water_Heat	Natural_Gas	Premium	001	007	002	1	4	0.02
Commercial	College	Water_Heat	Electric	Stock	001	007	002	2	1	0.4
Commercial	College	Water_Heat	Electric	Standard	001	007	002	2	2	0.5
Commercial	College	Water_Heat	Electric	High	001	007	002	2	3	0.08
Commercial	College	Water_Heat	Electric	Premium	001	007	002	2	4	0.02
Commercial	College	Cook_top	Natural_Gas	Stock	001	007	004	1	1	0.65
Commercial	College	Cook_top	Natural_Gas	Standard	001	007	004	1	2	0.35
Commercial	College	Cook_top	Electric	Stock	001	007	004	2	1	0.65
Commercial	College	Cook_top	Electric	Standard	001	007	004	2	2	0.35
Commercial	College	Fryer	Natural_Gas	Stock	001	007	005	1	1	0.65
Commercial	College	Fryer	Natural_Gas	Standard	001	007	005	1	2	0.35
Commercial	College	Fryer	Electric	Stock	001	007	005	2	1	0.65
Commercial	College	Fryer	Electric	Standard	001	007	005	2	2	0.35
Commercial	College	Griddle	Natural_Gas	Stock	001	007	006	1	1	0.65
Commercial	College	Griddle	Natural_Gas	Standard	001	007	006	1	2	0.35
Commercial	College	Griddle	Electric	Stock	001	007	006	2	1	0.65
Commercial	College	Griddle	Electric	Standard	001	007	006	2	2	0.35
Commercial	College	Other_Cooking	Natural_Gas	Stock	001	007	007	1	1	0.65
Commercial	College	Other_Cooking	Natural_Gas	Standard	001	007	007	1	2	0.35
Commercial	College	Other_Cooking	Electric	Stock	001	007	007	2	1	0.65
Commercial	College	Other_Cooking	Electric	Standard	001	007	007	2	2	0.35
Commercial	College	AC_Compressor	Natural_Gas	Stock	001	007	010	1	1	0.65
Commercial	College	AC_Compressor	Natural_Gas	Standard	001	007	010	1	2	0.35
Commercial	College	AC_Compressor	Electric	Stock	001	007	010	2	1	0.65
Commercial	College	AC_Compressor	Electric	Standard	001	007	010	2	2	0.35
Commercial	College	Other	Natural_Gas	Stock	001	007	011	1	1	1
Commercial	Health	Space_Heat	Natural_Gas	Stock	001	008	001	1	1	0.65
Commercial	Health	Space_Heat	Natural_Gas	Standard	001	008	001	1	2	0.3

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial	Health	Space_Heat	Natural_Gas	High	001	008	001	1	3	0.04
Commercial	Health	Space_Heat	Natural_Gas	Premium	001	008	001	1	4	0.01
Commercial	Health	Space_Heat	Electric	Stock	001	008	001	2	1	1
Commercial	Health	Water_Heat	Natural_Gas	Stock	001	008	002	1	1	0.4
Commercial	Health	Water_Heat	Natural_Gas	Standard	001	008	002	1	2	0.5
Commercial	Health	Water_Heat	Natural_Gas	High	001	008	002	1	3	0.08
Commercial	Health	Water_Heat	Natural_Gas	Premium	001	008	002	1	4	0.02
Commercial	Health	Water_Heat	Electric	Stock	001	008	002	2	1	0.4
Commercial	Health	Water_Heat	Electric	Standard	001	008	002	2	2	0.5
Commercial	Health	Water_Heat	Electric	High	001	008	002	2	3	0.08
Commercial	Health	Water_Heat	Electric	Premium	001	008	002	2	4	0.02
Commercial	Health	Cook_top	Natural_Gas	Stock	001	008	004	1	1	0.65
Commercial	Health	Cook_top	Natural_Gas	Standard	001	008	004	1	2	0.35
Commercial	Health	Cook_top	Electric	Stock	001	008	004	2	1	0.65
Commercial	Health	Cook_top	Electric	Standard	001	008	004	2	2	0.35
Commercial	Health	Fryer	Natural_Gas	Stock	001	008	005	1	1	0.65
Commercial	Health	Fryer	Natural_Gas	Standard	001	008	005	1	2	0.35
Commercial	Health	Fryer	Electric	Stock	001	008	005	2	1	0.65
Commercial	Health	Fryer	Electric	Standard	001	008	005	2	2	0.35
Commercial	Health	Griddle	Natural_Gas	Stock	001	008	006	1	1	0.65
Commercial	Health	Griddle	Natural_Gas	Standard	001	008	006	1	2	0.35
Commercial	Health	Griddle	Electric	Stock	001	008	006	2	1	0.65
Commercial	Health	Griddle	Electric	Standard	001	008	006	2	2	0.35
Commercial	Health	Other_Cooking	Natural_Gas	Stock	001	008	007	1	1	0.65
Commercial	Health	Other_Cooking	Natural_Gas	Standard	001	008	007	1	2	0.35
Commercial	Health	Other_Cooking	Electric	Stock	001	008	007	2	1	0.65
Commercial	Health	Other_Cooking	Electric	Standard	001	008	007	2	2	0.35
Commercial	Health	Drying	Natural_Gas	Stock	001	008	008	1	1	0.65
Commercial	Health	Drying	Natural_Gas	Standard	001	008	008	1	2	0.35
Commercial	Health	Drying	Electric	Stock	001	008	008	2	1	0.65

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial	Health	Drying	Electric	Standard	001	008	008	2	2	0.35
Commercial	Health	AC_Compressor	Natural_Gas	Stock	001	008	010	1	1	0.65
Commercial	Health	AC_Compressor	Natural_Gas	Standard	001	008	010	1	2	0.35
Commercial	Health	AC_Compressor	Electric	Stock	001	008	010	2	1	0.65
Commercial	Health	AC_Compressor	Electric	Standard	001	008	010	2	2	0.35
Commercial	Health	Other	Natural_Gas	Stock	001	008	011	1	1	1
Commercial	Lodging	Space_Heat	Natural_Gas	Stock	001	009	001	1	1	0.65
Commercial	Lodging	Space_Heat	Natural_Gas	Standard	001	009	001	1	2	0.3
Commercial	Lodging	Space_Heat	Natural_Gas	High	001	009	001	1	3	0.04
Commercial	Lodging	Space_Heat	Natural_Gas	Premium	001	009	001	1	4	0.01
Commercial	Lodging	Space_Heat	Electric	Stock	001	009	001	2	1	1
Commercial	Lodging	Water_Heat	Natural_Gas	Stock	001	009	002	1	1	0.4
Commercial	Lodging	Water_Heat	Natural_Gas	Standard	001	009	002	1	2	0.5
Commercial	Lodging	Water_Heat	Natural_Gas	High	001	009	002	1	3	0.08
Commercial	Lodging	Water_Heat	Natural_Gas	Premium	001	009	002	1	4	0.02
Commercial	Lodging	Water_Heat	Electric	Stock	001	009	002	2	1	0.4
Commercial	Lodging	Water_Heat	Electric	Standard	001	009	002	2	2	0.5
Commercial	Lodging	Water_Heat	Electric	High	001	009	002	2	3	0.08
Commercial	Lodging	Water_Heat	Electric	Premium	001	009	002	2	4	0.02
Commercial	Lodging	Cook_top	Natural_Gas	Stock	001	009	004	1	1	0.65
Commercial	Lodging	Cook_top	Natural_Gas	Standard	001	009	004	1	2	0.35
Commercial	Lodging	Cook_top	Electric	Stock	001	009	004	2	1	0.65
Commercial	Lodging	Cook_top	Electric	Standard	001	009	004	2	2	0.35
Commercial	Lodging	Fryer	Natural_Gas	Stock	001	009	005	1	1	0.65
Commercial	Lodging	Fryer	Natural_Gas	Standard	001	009	005	1	2	0.35
Commercial	Lodging	Fryer	Electric	Stock	001	009	005	2	1	0.65
Commercial	Lodging	Fryer	Electric	Standard	001	009	005	2	2	0.35
Commercial	Lodging	Griddle	Natural_Gas	Stock	001	009	006	1	1	0.65
Commercial	Lodging	Griddle	Natural_Gas	Standard	001	009	006	1	2	0.35
Commercial	Lodging	Griddle	Electric	Stock	001	009	006	2	1	0.65

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial Lodging	Griddle	Electric	Standard	001	009	006	2	2	2	0.35
Commercial Lodging	Other_Cooking	Natural_Gas	Stock	001	009	007	1	1	1	0.65
Commercial Lodging	Other_Cooking	Natural_Gas	Standard	001	009	007	1	2	2	0.35
Commercial Lodging	Other_Cooking	Electric	Stock	001	009	007	2	1	1	0.65
Commercial Lodging	Other_Cooking	Electric	Standard	001	009	007	2	2	2	0.35
Commercial Lodging	Drying	Natural_Gas	Stock	001	009	008	1	1	1	0.65
Commercial Lodging	Drying	Natural_Gas	Standard	001	009	008	1	2	2	0.35
Commercial Lodging	Drying	Electric	Stock	001	009	008	2	1	1	0.65
Commercial Lodging	Drying	Electric	Standard	001	009	008	2	2	2	0.35
Commercial Lodging	AC_Compressor	Natural_Gas	Stock	001	009	010	1	1	1	0.65
Commercial Lodging	AC_Compressor	Natural_Gas	Standard	001	009	010	1	2	2	0.35
Commercial Lodging	AC_Compressor	Electric	Stock	001	009	010	2	1	1	0.65
Commercial Lodging	AC_Compressor	Electric	Standard	001	009	010	2	2	2	0.35
Commercial Lodging	Other	Natural_Gas	Stock	001	009	011	1	1	1	1
Commercial Misc	Space_Heat	Natural_Gas	Stock	001	010	001	1	1	1	0.65
Commercial Misc	Space_Heat	Natural_Gas	Standard	001	010	001	1	2	2	0.3
Commercial Misc	Space_Heat	Natural_Gas	High	001	010	001	1	3	3	0.04
Commercial Misc	Space_Heat	Natural_Gas	Premium	001	010	001	1	4	4	0.01
Commercial Misc	Space_Heat	Electric	Stock	001	010	001	2	1	1	1
Commercial Misc	Water_Heat	Natural_Gas	Stock	001	010	002	1	1	1	0.4
Commercial Misc	Water_Heat	Natural_Gas	Standard	001	010	002	1	2	2	0.5
Commercial Misc	Water_Heat	Natural_Gas	High	001	010	002	1	3	3	0.08
Commercial Misc	Water_Heat	Natural_Gas	Premium	001	010	002	1	4	4	0.02
Commercial Misc	Water_Heat	Electric	Stock	001	010	002	2	1	1	0.4
Commercial Misc	Water_Heat	Electric	Standard	001	010	002	2	2	2	0.5
Commercial Misc	Water_Heat	Electric	High	001	010	002	2	3	3	0.08
Commercial Misc	Water_Heat	Electric	Premium	001	010	002	2	4	4	0.02
Commercial Misc	Cook_top	Natural_Gas	Stock	001	010	004	1	1	1	0.65
Commercial Misc	Cook_top	Natural_Gas	Standard	001	010	004	1	2	2	0.35
Commercial Misc	Cook_top	Electric	Stock	001	010	004	2	1	1	0.65

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial Misc		Cook_top	Electric	Standard	001	010	004	2	2	0.35
Commercial Misc		Fryer	Natural_Gas	Stock	001	010	005	1	1	0.65
Commercial Misc		Fryer	Natural_Gas	Standard	001	010	005	1	2	0.35
Commercial Misc		Fryer	Electric	Stock	001	010	005	2	1	0.65
Commercial Misc		Fryer	Electric	Standard	001	010	005	2	2	0.35
Commercial Misc		Griddle	Natural_Gas	Stock	001	010	006	1	1	0.65
Commercial Misc		Griddle	Natural_Gas	Standard	001	010	006	1	2	0.35
Commercial Misc		Griddle	Electric	Stock	001	010	006	2	1	0.65
Commercial Misc		Griddle	Electric	Standard	001	010	006	2	2	0.35
Commercial Misc		Other_Cooking	Natural_Gas	Stock	001	010	007	1	1	0.65
Commercial Misc		Other_Cooking	Natural_Gas	Standard	001	010	007	1	2	0.35
Commercial Misc		Other_Cooking	Electric	Stock	001	010	007	2	1	0.65
Commercial Misc		Other_Cooking	Electric	Standard	001	010	007	2	2	0.35
Commercial Misc		AC_Compressor	Natural_Gas	Stock	001	010	010	1	1	0.65
Commercial Misc		AC_Compressor	Natural_Gas	Standard	001	010	010	1	2	0.35
Commercial Misc		AC_Compressor	Electric	Stock	001	010	010	2	1	0.65
Commercial Misc		AC_Compressor	Electric	Standard	001	010	010	2	2	0.35
Commercial Misc		Other	Natural_Gas	Stock	001	010	011	1	1	1
Commercial Governme		Space_Heat	Natural_Gas	Stock	001	011	001	1	1	0.65
Commercial Governme		Space_Heat	Natural_Gas	Standard	001	011	001	1	2	0.3
Commercial Governme		Space_Heat	Natural_Gas	High	001	011	001	1	3	0.04
Commercial Governme		Space_Heat	Natural_Gas	Premium	001	011	001	1	4	0.01
Commercial Governme		Space_Heat	Electric	Stock	001	011	001	2	1	1
Commercial Governme		Water_Heat	Natural_Gas	Stock	001	011	002	1	1	0.4
Commercial Governme		Water_Heat	Natural_Gas	Standard	001	011	002	1	2	0.5
Commercial Governme		Water_Heat	Natural_Gas	High	001	011	002	1	3	0.08
Commercial Governme		Water_Heat	Natural_Gas	Premium	001	011	002	1	4	0.02
Commercial Governme		Water_Heat	Electric	Stock	001	011	002	2	1	0.4
Commercial Governme		Water_Heat	Electric	Standard	001	011	002	2	2	0.5
Commercial Governme		Water_Heat	Electric	High	001	011	002	2	3	0.08

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial	Government	Water_Heat	Electric	Premium	001	011	002	2	4	0.02
Commercial	Government	Cook_top	Natural_Gas	Stock	001	011	004	1	1	0.65
Commercial	Government	Cook_top	Natural_Gas	Standard	001	011	004	1	2	0.35
Commercial	Government	Cook_top	Electric	Stock	001	011	004	2	1	0.65
Commercial	Government	Cook_top	Electric	Standard	001	011	004	2	2	0.35
Commercial	Government	Fryer	Natural_Gas	Stock	001	011	005	1	1	0.65
Commercial	Government	Fryer	Natural_Gas	Standard	001	011	005	1	2	0.35
Commercial	Government	Fryer	Electric	Stock	001	011	005	2	1	0.65
Commercial	Government	Fryer	Electric	Standard	001	011	005	2	2	0.35
Commercial	Government	Griddle	Natural_Gas	Stock	001	011	006	1	1	0.65
Commercial	Government	Griddle	Natural_Gas	Standard	001	011	006	1	2	0.35
Commercial	Government	Griddle	Electric	Stock	001	011	006	2	1	0.65
Commercial	Government	Griddle	Electric	Standard	001	011	006	2	2	0.35
Commercial	Government	Other_Cooking	Natural_Gas	Stock	001	011	007	1	1	0.65
Commercial	Government	Other_Cooking	Natural_Gas	Standard	001	011	007	1	2	0.35
Commercial	Government	Other_Cooking	Electric	Stock	001	011	007	2	1	0.65
Commercial	Government	Other_Cooking	Electric	Standard	001	011	007	2	2	0.35
Commercial	Government	AC_Compressor	Natural_Gas	Stock	001	011	010	1	1	0.65
Commercial	Government	AC_Compressor	Natural_Gas	Standard	001	011	010	1	2	0.35
Commercial	Government	AC_Compressor	Electric	Stock	001	011	010	2	1	0.65
Commercial	Government	AC_Compressor	Electric	Standard	001	011	010	2	2	0.35
Commercial	Government	Other	Natural_Gas	Stock	001	011	011	1	1	1
Commercial	TCU	Space_Heat	Natural_Gas	Stock	001	012	001	1	1	0.65
Commercial	TCU	Space_Heat	Natural_Gas	Standard	001	012	001	1	2	0.3
Commercial	TCU	Space_Heat	Natural_Gas	High	001	012	001	1	3	0.04
Commercial	TCU	Space_Heat	Natural_Gas	Premium	001	012	001	1	4	0.01
Commercial	TCU	Space_Heat	Electric	Stock	001	012	001	2	1	1
Commercial	TCU	Water_Heat	Natural_Gas	Stock	001	012	002	1	1	0.4
Commercial	TCU	Water_Heat	Natural_Gas	Standard	001	012	002	1	2	0.5
Commercial	TCU	Water_Heat	Natural_Gas	High	001	012	002	1	3	0.08

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial	TCU	Water_Heat	Natural_Gas	Premium	001	012	002	1	4	0.02
Commercial	TCU	Water_Heat	Electric	Stock	001	012	002	2	1	0.4
Commercial	TCU	Water_Heat	Electric	Standard	001	012	002	2	2	0.5
Commercial	TCU	Water_Heat	Electric	High	001	012	002	2	3	0.08
Commercial	TCU	Water_Heat	Electric	Premium	001	012	002	2	4	0.02
Commercial	TCU	Engine	Natural_Gas	Stock	001	012	009	1	1	0.65
Commercial	TCU	Engine	Natural_Gas	Standard	001	012	009	1	2	0.35
Commercial	TCU	Engine	Electric	Stock	001	012	009	2	1	0.65
Commercial	TCU	Engine	Electric	Standard	001	012	009	2	2	0.35
Commercial	TCU	Other	Natural_Gas	Stock	001	012	011	1	1	1
Commercial	Constructic	Space_Heat	Natural_Gas	Stock	001	013	001	1	1	0.65
Commercial	Constructic	Space_Heat	Natural_Gas	Standard	001	013	001	1	2	0.3
Commercial	Constructic	Space_Heat	Natural_Gas	High	001	013	001	1	3	0.04
Commercial	Constructic	Space_Heat	Natural_Gas	Premium	001	013	001	1	4	0.01
Commercial	Constructic	Space_Heat	Electric	Stock	001	013	001	2	1	1
Commercial	Constructic	Water_Heat	Natural_Gas	Stock	001	013	002	1	1	0.4
Commercial	Constructic	Water_Heat	Natural_Gas	Standard	001	013	002	1	2	0.5
Commercial	Constructic	Water_Heat	Natural_Gas	High	001	013	002	1	3	0.08
Commercial	Constructic	Water_Heat	Natural_Gas	Premium	001	013	002	1	4	0.02
Commercial	Constructic	Water_Heat	Electric	Stock	001	013	002	2	1	0.4
Commercial	Constructic	Water_Heat	Electric	Standard	001	013	002	2	2	0.5
Commercial	Constructic	Water_Heat	Electric	High	001	013	002	2	3	0.08
Commercial	Constructic	Water_Heat	Electric	Premium	001	013	002	2	4	0.02
Commercial	Constructic	Other	Natural_Gas	Stock	001	013	011	1	1	1
Commercial	Agriculture	Space_Heat	Natural_Gas	Stock	001	014	001	1	1	0.65
Commercial	Agriculture	Space_Heat	Natural_Gas	Standard	001	014	001	1	2	0.3
Commercial	Agriculture	Space_Heat	Natural_Gas	High	001	014	001	1	3	0.04
Commercial	Agriculture	Space_Heat	Natural_Gas	Premium	001	014	001	1	4	0.01
Commercial	Agriculture	Space_Heat	Electric	Stock	001	014	001	2	1	1
Commercial	Agriculture	Water_Heat	Natural_Gas	Stock	001	014	002	1	1	0.4

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseAvgEShare
Commercial Agriculture Water_Heat	Natural_Gas	Standard	001	014	002	1	2			0.5
Commercial Agriculture Water_Heat	Natural_Gas	High	001	014	002	1	3			0.08
Commercial Agriculture Water_Heat	Natural_Gas	Premium	001	014	002	1	4			0.02
Commercial Agriculture Water_Heat	Electric	Stock	001	014	002	2	1			0.4
Commercial Agriculture Water_Heat	Electric	Standard	001	014	002	2	2			0.5
Commercial Agriculture Water_Heat	Electric	High	001	014	002	2	3			0.08
Commercial Agriculture Water_Heat	Electric	Premium	001	014	002	2	4			0.02
Commercial Agriculture Drying	Natural_Gas	Stock	001	014	008	1	1			0.65
Commercial Agriculture Drying	Natural_Gas	Standard	001	014	008	1	2			0.35
Commercial Agriculture Drying	Electric	Stock	001	014	008	2	1			0.65
Commercial Agriculture Drying	Electric	Standard	001	014	008	2	2			0.35
Commercial Agriculture Engine	Natural_Gas	Stock	001	014	009	1	1			0.65
Commercial Agriculture Engine	Natural_Gas	Standard	001	014	009	1	2			0.35
Commercial Agriculture Engine	Electric	Stock	001	014	009	2	1			0.65
Commercial Agriculture Engine	Electric	Standard	001	014	009	2	2			0.35
Commercial Agriculture Other	Natural_Gas	Stock	001	014	011	1	1			1

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial Office	Space_Heat	Natural_Gas	Stock	001	001	001	1	1	1	0.65
Commercial Office	Space_Heat	Natural_Gas	Standard	001	001	001	1	2	2	0.3
Commercial Office	Space_Heat	Natural_Gas	High	001	001	001	1	3	3	0.04
Commercial Office	Space_Heat	Natural_Gas	Premium	001	001	001	1	4	4	0.01
Commercial Office	Space_Heat	Electric	Stock	001	001	001	2	1	1	1
Commercial Office	Water_Heat	Natural_Gas	Stock	001	001	002	1	1	1	0.4
Commercial Office	Water_Heat	Natural_Gas	Standard	001	001	002	1	2	2	0.5
Commercial Office	Water_Heat	Natural_Gas	High	001	001	002	1	3	3	0.08
Commercial Office	Water_Heat	Natural_Gas	Premium	001	001	002	1	4	4	0.02
Commercial Office	Water_Heat	Electric	Stock	001	001	002	2	1	1	0.4
Commercial Office	Water_Heat	Electric	Standard	001	001	002	2	2	2	0.5
Commercial Office	Water_Heat	Electric	High	001	001	002	2	3	3	0.08
Commercial Office	Water_Heat	Electric	Premium	001	001	002	2	4	4	0.02
Commercial Office	Cooking	Natural_Gas	Stock	001	001	003	1	1	1	0.65
Commercial Office	Cooking	Natural_Gas	Standard	001	001	003	1	2	2	0.35
Commercial Office	Cooking	Electric	Stock	001	001	003	2	1	1	0.65
Commercial Office	Cooking	Electric	Standard	001	001	003	2	2	2	0.35
Commercial Office	AC_Compressor	Natural_Gas	Stock	001	001	010	1	1	1	0.65
Commercial Office	AC_Compressor	Natural_Gas	Standard	001	001	010	1	2	2	0.35
Commercial Office	AC_Compressor	Electric	Stock	001	001	010	2	1	1	0.65
Commercial Office	AC_Compressor	Electric	Standard	001	001	010	2	2	2	0.35
Commercial Office	Other	Natural_Gas	Stock	001	001	011	1	1	1	1
Commercial Restaurant	Space_Heat	Natural_Gas	Stock	001	002	001	1	1	1	0.65
Commercial Restaurant	Space_Heat	Natural_Gas	Standard	001	002	001	1	2	2	0.3
Commercial Restaurant	Space_Heat	Natural_Gas	High	001	002	001	1	3	3	0.04
Commercial Restaurant	Space_Heat	Natural_Gas	Premium	001	002	001	1	4	4	0.01
Commercial Restaurant	Space_Heat	Electric	Stock	001	002	001	2	1	1	1
Commercial Restaurant	Water_Heat	Natural_Gas	Stock	001	002	002	1	1	1	0.4
Commercial Restaurant	Water_Heat	Natural_Gas	Standard	001	002	002	1	2	2	0.5
Commercial Restaurant	Water_Heat	Natural_Gas	High	001	002	002	1	3	3	0.08

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial	Restaurant	Water_Heat	Natural_Gas	Premium	001	002	002	1	4	0.02
Commercial	Restaurant	Water_Heat	Electric	Stock	001	002	002	2	1	0.4
Commercial	Restaurant	Water_Heat	Electric	Standard	001	002	002	2	2	0.5
Commercial	Restaurant	Water_Heat	Electric	High	001	002	002	2	3	0.08
Commercial	Restaurant	Water_Heat	Electric	Premium	001	002	002	2	4	0.02
Commercial	Restaurant	Cook_top	Natural_Gas	Stock	001	002	004	1	1	0.65
Commercial	Restaurant	Cook_top	Natural_Gas	Standard	001	002	004	1	2	0.35
Commercial	Restaurant	Cook_top	Electric	Stock	001	002	004	2	1	0.65
Commercial	Restaurant	Cook_top	Electric	Standard	001	002	004	2	2	0.35
Commercial	Restaurant	Fryer	Natural_Gas	Stock	001	002	005	1	1	0.65
Commercial	Restaurant	Fryer	Natural_Gas	Standard	001	002	005	1	2	0.35
Commercial	Restaurant	Fryer	Electric	Stock	001	002	005	2	1	0.65
Commercial	Restaurant	Fryer	Electric	Standard	001	002	005	2	2	0.35
Commercial	Restaurant	Griddle	Natural_Gas	Stock	001	002	006	1	1	0.65
Commercial	Restaurant	Griddle	Natural_Gas	Standard	001	002	006	1	2	0.35
Commercial	Restaurant	Griddle	Electric	Stock	001	002	006	2	1	0.65
Commercial	Restaurant	Griddle	Electric	Standard	001	002	006	2	2	0.35
Commercial	Restaurant	Other_Cooking	Natural_Gas	Stock	001	002	007	1	1	0.65
Commercial	Restaurant	Other_Cooking	Natural_Gas	Standard	001	002	007	1	2	0.35
Commercial	Restaurant	Other_Cooking	Electric	Stock	001	002	007	2	1	0.65
Commercial	Restaurant	Other_Cooking	Electric	Standard	001	002	007	2	2	0.35
Commercial	Restaurant	AC_Compressor	Natural_Gas	Stock	001	002	010	1	1	0.65
Commercial	Restaurant	AC_Compressor	Natural_Gas	Standard	001	002	010	1	2	0.35
Commercial	Restaurant	AC_Compressor	Electric	Stock	001	002	010	2	1	0.65
Commercial	Restaurant	AC_Compressor	Electric	Standard	001	002	010	2	2	0.35
Commercial	Restaurant	Other	Natural_Gas	Stock	001	002	011	1	1	1
Commercial	Retail	Space_Heat	Natural_Gas	Stock	001	003	001	1	1	0.65
Commercial	Retail	Space_Heat	Natural_Gas	Standard	001	003	001	1	2	0.3
Commercial	Retail	Space_Heat	Natural_Gas	High	001	003	001	1	3	0.04
Commercial	Retail	Space_Heat	Natural_Gas	Premium	001	003	001	1	4	0.01

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial Retail	Space_Heat	Electric	Stock	001	003	001	2	1	1	1
Commercial Retail	Water_Heat	Natural_Gas	Stock	001	003	002	1	1	1	0.4
Commercial Retail	Water_Heat	Natural_Gas	Standard	001	003	002	1	2	2	0.5
Commercial Retail	Water_Heat	Natural_Gas	High	001	003	002	1	3	3	0.08
Commercial Retail	Water_Heat	Natural_Gas	Premium	001	003	002	1	4	4	0.02
Commercial Retail	Water_Heat	Electric	Stock	001	003	002	2	1	1	0.4
Commercial Retail	Water_Heat	Electric	Standard	001	003	002	2	2	2	0.5
Commercial Retail	Water_Heat	Electric	High	001	003	002	2	3	3	0.08
Commercial Retail	Water_Heat	Electric	Premium	001	003	002	2	4	4	0.02
Commercial Retail	Cooking	Natural_Gas	Stock	001	003	003	1	1	1	0.65
Commercial Retail	Cooking	Natural_Gas	Standard	001	003	003	1	2	2	0.35
Commercial Retail	Cooking	Electric	Stock	001	003	003	2	1	1	0.65
Commercial Retail	Cooking	Electric	Standard	001	003	003	2	2	2	0.35
Commercial Retail	Other	Natural_Gas	Stock	001	003	011	1	1	1	1
Commercial Laundry	Space_Heat	Natural_Gas	Stock	001	004	001	1	1	1	0.65
Commercial Laundry	Space_Heat	Natural_Gas	Standard	001	004	001	1	2	2	0.3
Commercial Laundry	Space_Heat	Natural_Gas	High	001	004	001	1	3	3	0.04
Commercial Laundry	Space_Heat	Natural_Gas	Premium	001	004	001	1	4	4	0.01
Commercial Laundry	Space_Heat	Electric	Stock	001	004	001	2	1	1	1
Commercial Laundry	Water_Heat	Natural_Gas	Stock	001	004	002	1	1	1	0.4
Commercial Laundry	Water_Heat	Natural_Gas	Standard	001	004	002	1	2	2	0.5
Commercial Laundry	Water_Heat	Natural_Gas	High	001	004	002	1	3	3	0.08
Commercial Laundry	Water_Heat	Natural_Gas	Premium	001	004	002	1	4	4	0.02
Commercial Laundry	Water_Heat	Electric	Stock	001	004	002	2	1	1	0.4
Commercial Laundry	Water_Heat	Electric	Standard	001	004	002	2	2	2	0.5
Commercial Laundry	Water_Heat	Electric	High	001	004	002	2	3	3	0.08
Commercial Laundry	Water_Heat	Electric	Premium	001	004	002	2	4	4	0.02
Commercial Laundry	Drying	Natural_Gas	Stock	001	004	008	1	1	1	0.65
Commercial Laundry	Drying	Natural_Gas	Standard	001	004	008	1	2	2	0.35
Commercial Laundry	Drying	Electric	Stock	001	004	008	2	1	1	0.65

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial Laundry	Drying	Electric	Standard	001	004	008	2	2		0.35
Commercial Laundry	Other	Natural_Gas	Stock	001	004	011	1	1		1
Commercial Warehouse	Space_Heat	Natural_Gas	Stock	001	005	001	1	1		0.65
Commercial Warehouse	Space_Heat	Natural_Gas	Standard	001	005	001	1	2		0.3
Commercial Warehouse	Space_Heat	Natural_Gas	High	001	005	001	1	3		0.04
Commercial Warehouse	Space_Heat	Natural_Gas	Premium	001	005	001	1	4		0.01
Commercial Warehouse	Space_Heat	Electric	Stock	001	005	001	2	1		1
Commercial Warehouse	Water_Heat	Natural_Gas	Stock	001	005	002	1	1		0.4
Commercial Warehouse	Water_Heat	Natural_Gas	Standard	001	005	002	1	2		0.5
Commercial Warehouse	Water_Heat	Natural_Gas	High	001	005	002	1	3		0.08
Commercial Warehouse	Water_Heat	Natural_Gas	Premium	001	005	002	1	4		0.02
Commercial Warehouse	Water_Heat	Electric	Stock	001	005	002	2	1		0.4
Commercial Warehouse	Water_Heat	Electric	Standard	001	005	002	2	2		0.5
Commercial Warehouse	Water_Heat	Electric	High	001	005	002	2	3		0.08
Commercial Warehouse	Water_Heat	Electric	Premium	001	005	002	2	4		0.02
Commercial Warehouse	Engine	Natural_Gas	Stock	001	005	009	1	1		0.65
Commercial Warehouse	Engine	Natural_Gas	Standard	001	005	009	1	2		0.35
Commercial Warehouse	Engine	Electric	Stock	001	005	009	2	1		0.65
Commercial Warehouse	Engine	Electric	Standard	001	005	009	2	2		0.35
Commercial Warehouse	Other	Natural_Gas	Stock	001	005	011	1	1		1
Commercial School	Space_Heat	Natural_Gas	Stock	001	006	001	1	1		0.65
Commercial School	Space_Heat	Natural_Gas	Standard	001	006	001	1	2		0.3
Commercial School	Space_Heat	Natural_Gas	High	001	006	001	1	3		0.04
Commercial School	Space_Heat	Natural_Gas	Premium	001	006	001	1	4		0.01
Commercial School	Space_Heat	Electric	Stock	001	006	001	2	1		1
Commercial School	Water_Heat	Natural_Gas	Stock	001	006	002	1	1		0.4
Commercial School	Water_Heat	Natural_Gas	Standard	001	006	002	1	2		0.5
Commercial School	Water_Heat	Natural_Gas	High	001	006	002	1	3		0.08
Commercial School	Water_Heat	Natural_Gas	Premium	001	006	002	1	4		0.02
Commercial School	Water_Heat	Electric	Stock	001	006	002	2	1		0.4

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial	School	Water_Heat	Electric	Standard	001	006	002	2	2	0.5
Commercial	School	Water_Heat	Electric	High	001	006	002	2	3	0.08
Commercial	School	Water_Heat	Electric	Premium	001	006	002	2	4	0.02
Commercial	School	Cook_top	Natural_Gas	Stock	001	006	004	1	1	0.65
Commercial	School	Cook_top	Natural_Gas	Standard	001	006	004	1	2	0.35
Commercial	School	Cook_top	Electric	Stock	001	006	004	2	1	0.65
Commercial	School	Cook_top	Electric	Standard	001	006	004	2	2	0.35
Commercial	School	Fryer	Natural_Gas	Stock	001	006	005	1	1	0.65
Commercial	School	Fryer	Natural_Gas	Standard	001	006	005	1	2	0.35
Commercial	School	Fryer	Electric	Stock	001	006	005	2	1	0.65
Commercial	School	Fryer	Electric	Standard	001	006	005	2	2	0.35
Commercial	School	Griddle	Natural_Gas	Stock	001	006	006	1	1	0.65
Commercial	School	Griddle	Natural_Gas	Standard	001	006	006	1	2	0.35
Commercial	School	Griddle	Electric	Stock	001	006	006	2	1	0.65
Commercial	School	Griddle	Electric	Standard	001	006	006	2	2	0.35
Commercial	School	Other_Cooking	Natural_Gas	Stock	001	006	007	1	1	0.65
Commercial	School	Other_Cooking	Natural_Gas	Standard	001	006	007	1	2	0.35
Commercial	School	Other_Cooking	Electric	Stock	001	006	007	2	1	0.65
Commercial	School	Other_Cooking	Electric	Standard	001	006	007	2	2	0.35
Commercial	School	AC_Compressor	Natural_Gas	Stock	001	006	010	1	1	0.65
Commercial	School	AC_Compressor	Natural_Gas	Standard	001	006	010	1	2	0.35
Commercial	School	AC_Compressor	Electric	Stock	001	006	010	2	1	0.65
Commercial	School	AC_Compressor	Electric	Standard	001	006	010	2	2	0.35
Commercial	School	Other	Natural_Gas	Stock	001	006	011	1	1	1
Commercial	College	Space_Heat	Natural_Gas	Stock	001	007	001	1	1	0.65
Commercial	College	Space_Heat	Natural_Gas	Standard	001	007	001	1	2	0.3
Commercial	College	Space_Heat	Natural_Gas	High	001	007	001	1	3	0.04
Commercial	College	Space_Heat	Natural_Gas	Premium	001	007	001	1	4	0.01
Commercial	College	Space_Heat	Electric	Stock	001	007	001	2	1	1
Commercial	College	Water_Heat	Natural_Gas	Stock	001	007	002	1	1	0.4

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial	College	Water_Heat	Natural_Gas	Standard	001	007	002	1	2	0.5
Commercial	College	Water_Heat	Natural_Gas	High	001	007	002	1	3	0.08
Commercial	College	Water_Heat	Natural_Gas	Premium	001	007	002	1	4	0.02
Commercial	College	Water_Heat	Electric	Stock	001	007	002	2	1	0.4
Commercial	College	Water_Heat	Electric	Standard	001	007	002	2	2	0.5
Commercial	College	Water_Heat	Electric	High	001	007	002	2	3	0.08
Commercial	College	Water_Heat	Electric	Premium	001	007	002	2	4	0.02
Commercial	College	Cook_top	Natural_Gas	Stock	001	007	004	1	1	0.65
Commercial	College	Cook_top	Natural_Gas	Standard	001	007	004	1	2	0.35
Commercial	College	Cook_top	Electric	Stock	001	007	004	2	1	0.65
Commercial	College	Cook_top	Electric	Standard	001	007	004	2	2	0.35
Commercial	College	Fryer	Natural_Gas	Stock	001	007	005	1	1	0.65
Commercial	College	Fryer	Natural_Gas	Standard	001	007	005	1	2	0.35
Commercial	College	Fryer	Electric	Stock	001	007	005	2	1	0.65
Commercial	College	Fryer	Electric	Standard	001	007	005	2	2	0.35
Commercial	College	Griddle	Natural_Gas	Stock	001	007	006	1	1	0.65
Commercial	College	Griddle	Natural_Gas	Standard	001	007	006	1	2	0.35
Commercial	College	Griddle	Electric	Stock	001	007	006	2	1	0.65
Commercial	College	Griddle	Electric	Standard	001	007	006	2	2	0.35
Commercial	College	Other_Cooking	Natural_Gas	Stock	001	007	007	1	1	0.65
Commercial	College	Other_Cooking	Natural_Gas	Standard	001	007	007	1	2	0.35
Commercial	College	Other_Cooking	Electric	Stock	001	007	007	2	1	0.65
Commercial	College	Other_Cooking	Electric	Standard	001	007	007	2	2	0.35
Commercial	College	AC_Compressor	Natural_Gas	Stock	001	007	010	1	1	0.65
Commercial	College	AC_Compressor	Natural_Gas	Standard	001	007	010	1	2	0.35
Commercial	College	AC_Compressor	Electric	Stock	001	007	010	2	1	0.65
Commercial	College	AC_Compressor	Electric	Standard	001	007	010	2	2	0.35
Commercial	College	Other	Natural_Gas	Stock	001	007	011	1	1	1
Commercial	Health	Space_Heat	Natural_Gas	Stock	001	008	001	1	1	0.65
Commercial	Health	Space_Heat	Natural_Gas	Standard	001	008	001	1	2	0.3

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial	Health	Space_Heat	Natural_Gas	High	001	008	001	1	3	0.04
Commercial	Health	Space_Heat	Natural_Gas	Premium	001	008	001	1	4	0.01
Commercial	Health	Space_Heat	Electric	Stock	001	008	001	2	1	1
Commercial	Health	Water_Heat	Natural_Gas	Stock	001	008	002	1	1	0.4
Commercial	Health	Water_Heat	Natural_Gas	Standard	001	008	002	1	2	0.5
Commercial	Health	Water_Heat	Natural_Gas	High	001	008	002	1	3	0.08
Commercial	Health	Water_Heat	Natural_Gas	Premium	001	008	002	1	4	0.02
Commercial	Health	Water_Heat	Electric	Stock	001	008	002	2	1	0.4
Commercial	Health	Water_Heat	Electric	Standard	001	008	002	2	2	0.5
Commercial	Health	Water_Heat	Electric	High	001	008	002	2	3	0.08
Commercial	Health	Water_Heat	Electric	Premium	001	008	002	2	4	0.02
Commercial	Health	Cook_top	Natural_Gas	Stock	001	008	004	1	1	0.65
Commercial	Health	Cook_top	Natural_Gas	Standard	001	008	004	1	2	0.35
Commercial	Health	Cook_top	Electric	Stock	001	008	004	2	1	0.65
Commercial	Health	Cook_top	Electric	Standard	001	008	004	2	2	0.35
Commercial	Health	Fryer	Natural_Gas	Stock	001	008	005	1	1	0.65
Commercial	Health	Fryer	Natural_Gas	Standard	001	008	005	1	2	0.35
Commercial	Health	Fryer	Electric	Stock	001	008	005	2	1	0.65
Commercial	Health	Fryer	Electric	Standard	001	008	005	2	2	0.35
Commercial	Health	Griddle	Natural_Gas	Stock	001	008	006	1	1	0.65
Commercial	Health	Griddle	Natural_Gas	Standard	001	008	006	1	2	0.35
Commercial	Health	Griddle	Electric	Stock	001	008	006	2	1	0.65
Commercial	Health	Griddle	Electric	Standard	001	008	006	2	2	0.35
Commercial	Health	Other_Cooking	Natural_Gas	Stock	001	008	007	1	1	0.65
Commercial	Health	Other_Cooking	Natural_Gas	Standard	001	008	007	1	2	0.35
Commercial	Health	Other_Cooking	Electric	Stock	001	008	007	2	1	0.65
Commercial	Health	Other_Cooking	Electric	Standard	001	008	007	2	2	0.35
Commercial	Health	Drying	Natural_Gas	Stock	001	008	008	1	1	0.65
Commercial	Health	Drying	Natural_Gas	Standard	001	008	008	1	2	0.35
Commercial	Health	Drying	Electric	Stock	001	008	008	2	1	0.65

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial	Health	Drying	Electric	Standard	001	008	008	2	2	0.35
Commercial	Health	AC_Compressor	Natural_Gas	Stock	001	008	010	1	1	0.65
Commercial	Health	AC_Compressor	Natural_Gas	Standard	001	008	010	1	2	0.35
Commercial	Health	AC_Compressor	Electric	Stock	001	008	010	2	1	0.65
Commercial	Health	AC_Compressor	Electric	Standard	001	008	010	2	2	0.35
Commercial	Health	Other	Natural_Gas	Stock	001	008	011	1	1	1
Commercial	Lodging	Space_Heat	Natural_Gas	Stock	001	009	001	1	1	0.65
Commercial	Lodging	Space_Heat	Natural_Gas	Standard	001	009	001	1	2	0.3
Commercial	Lodging	Space_Heat	Natural_Gas	High	001	009	001	1	3	0.04
Commercial	Lodging	Space_Heat	Natural_Gas	Premium	001	009	001	1	4	0.01
Commercial	Lodging	Space_Heat	Electric	Stock	001	009	001	2	1	1
Commercial	Lodging	Water_Heat	Natural_Gas	Stock	001	009	002	1	1	0.4
Commercial	Lodging	Water_Heat	Natural_Gas	Standard	001	009	002	1	2	0.5
Commercial	Lodging	Water_Heat	Natural_Gas	High	001	009	002	1	3	0.08
Commercial	Lodging	Water_Heat	Natural_Gas	Premium	001	009	002	1	4	0.02
Commercial	Lodging	Water_Heat	Electric	Stock	001	009	002	2	1	0.4
Commercial	Lodging	Water_Heat	Electric	Standard	001	009	002	2	2	0.5
Commercial	Lodging	Water_Heat	Electric	High	001	009	002	2	3	0.08
Commercial	Lodging	Water_Heat	Electric	Premium	001	009	002	2	4	0.02
Commercial	Lodging	Cook_top	Natural_Gas	Stock	001	009	004	1	1	0.65
Commercial	Lodging	Cook_top	Natural_Gas	Standard	001	009	004	1	2	0.35
Commercial	Lodging	Cook_top	Electric	Stock	001	009	004	2	1	0.65
Commercial	Lodging	Cook_top	Electric	Standard	001	009	004	2	2	0.35
Commercial	Lodging	Fryer	Natural_Gas	Stock	001	009	005	1	1	0.65
Commercial	Lodging	Fryer	Natural_Gas	Standard	001	009	005	1	2	0.35
Commercial	Lodging	Fryer	Electric	Stock	001	009	005	2	1	0.65
Commercial	Lodging	Fryer	Electric	Standard	001	009	005	2	2	0.35
Commercial	Lodging	Griddle	Natural_Gas	Stock	001	009	006	1	1	0.65
Commercial	Lodging	Griddle	Natural_Gas	Standard	001	009	006	1	2	0.35
Commercial	Lodging	Griddle	Electric	Stock	001	009	006	2	1	0.65

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial Lodging	Griddle	Electric	Standard	001	009	006	2	2	0.35	
Commercial Lodging	Other_Cooking	Natural_Gas	Stock	001	009	007	1	1	0.65	
Commercial Lodging	Other_Cooking	Natural_Gas	Standard	001	009	007	1	2	0.35	
Commercial Lodging	Other_Cooking	Electric	Stock	001	009	007	2	1	0.65	
Commercial Lodging	Other_Cooking	Electric	Standard	001	009	007	2	2	0.35	
Commercial Lodging	Drying	Natural_Gas	Stock	001	009	008	1	1	0.65	
Commercial Lodging	Drying	Natural_Gas	Standard	001	009	008	1	2	0.35	
Commercial Lodging	Drying	Electric	Stock	001	009	008	2	1	0.65	
Commercial Lodging	Drying	Electric	Standard	001	009	008	2	2	0.35	
Commercial Lodging	AC_Compressor	Natural_Gas	Stock	001	009	010	1	1	0.65	
Commercial Lodging	AC_Compressor	Natural_Gas	Standard	001	009	010	1	2	0.35	
Commercial Lodging	AC_Compressor	Electric	Stock	001	009	010	2	1	0.65	
Commercial Lodging	AC_Compressor	Electric	Standard	001	009	010	2	2	0.35	
Commercial Lodging	Other	Natural_Gas	Stock	001	009	011	1	1	1	
Commercial Misc	Space_Heat	Natural_Gas	Stock	001	010	001	1	1	0.65	
Commercial Misc	Space_Heat	Natural_Gas	Standard	001	010	001	1	2	0.3	
Commercial Misc	Space_Heat	Natural_Gas	High	001	010	001	1	3	0.04	
Commercial Misc	Space_Heat	Natural_Gas	Premium	001	010	001	1	4	0.01	
Commercial Misc	Space_Heat	Electric	Stock	001	010	001	2	1	1	
Commercial Misc	Water_Heat	Natural_Gas	Stock	001	010	002	1	1	0.4	
Commercial Misc	Water_Heat	Natural_Gas	Standard	001	010	002	1	2	0.5	
Commercial Misc	Water_Heat	Natural_Gas	High	001	010	002	1	3	0.08	
Commercial Misc	Water_Heat	Natural_Gas	Premium	001	010	002	1	4	0.02	
Commercial Misc	Water_Heat	Electric	Stock	001	010	002	2	1	0.4	
Commercial Misc	Water_Heat	Electric	Standard	001	010	002	2	2	0.5	
Commercial Misc	Water_Heat	Electric	High	001	010	002	2	3	0.08	
Commercial Misc	Water_Heat	Electric	Premium	001	010	002	2	4	0.02	
Commercial Misc	Cook_top	Natural_Gas	Stock	001	010	004	1	1	0.65	
Commercial Misc	Cook_top	Natural_Gas	Standard	001	010	004	1	2	0.35	
Commercial Misc	Cook_top	Electric	Stock	001	010	004	2	1	0.65	

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial Misc		Cook_top	Electric	Standard	001	010	004	2	2	0.35
Commercial Misc		Fryer	Natural_Gas	Stock	001	010	005	1	1	0.65
Commercial Misc		Fryer	Natural_Gas	Standard	001	010	005	1	2	0.35
Commercial Misc		Fryer	Electric	Stock	001	010	005	2	1	0.65
Commercial Misc		Fryer	Electric	Standard	001	010	005	2	2	0.35
Commercial Misc		Griddle	Natural_Gas	Stock	001	010	006	1	1	0.65
Commercial Misc		Griddle	Natural_Gas	Standard	001	010	006	1	2	0.35
Commercial Misc		Griddle	Electric	Stock	001	010	006	2	1	0.65
Commercial Misc		Griddle	Electric	Standard	001	010	006	2	2	0.35
Commercial Misc		Other_Cooking	Natural_Gas	Stock	001	010	007	1	1	0.65
Commercial Misc		Other_Cooking	Natural_Gas	Standard	001	010	007	1	2	0.35
Commercial Misc		Other_Cooking	Electric	Stock	001	010	007	2	1	0.65
Commercial Misc		Other_Cooking	Electric	Standard	001	010	007	2	2	0.35
Commercial Misc		AC_Compressor	Natural_Gas	Stock	001	010	010	1	1	0.65
Commercial Misc		AC_Compressor	Natural_Gas	Standard	001	010	010	1	2	0.35
Commercial Misc		AC_Compressor	Electric	Stock	001	010	010	2	1	0.65
Commercial Misc		AC_Compressor	Electric	Standard	001	010	010	2	2	0.35
Commercial Misc		Other	Natural_Gas	Stock	001	010	011	1	1	1
Commercial Governme		Space_Heat	Natural_Gas	Stock	001	011	001	1	1	0.65
Commercial Governme		Space_Heat	Natural_Gas	Standard	001	011	001	1	2	0.3
Commercial Governme		Space_Heat	Natural_Gas	High	001	011	001	1	3	0.04
Commercial Governme		Space_Heat	Natural_Gas	Premium	001	011	001	1	4	0.01
Commercial Governme		Space_Heat	Electric	Stock	001	011	001	2	1	1
Commercial Governme		Water_Heat	Natural_Gas	Stock	001	011	002	1	1	0.4
Commercial Governme		Water_Heat	Natural_Gas	Standard	001	011	002	1	2	0.5
Commercial Governme		Water_Heat	Natural_Gas	High	001	011	002	1	3	0.08
Commercial Governme		Water_Heat	Natural_Gas	Premium	001	011	002	1	4	0.02
Commercial Governme		Water_Heat	Electric	Stock	001	011	002	2	1	0.4
Commercial Governme		Water_Heat	Electric	Standard	001	011	002	2	2	0.5
Commercial Governme		Water_Heat	Electric	High	001	011	002	2	3	0.08

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial	Government	Water_Heat	Electric	Premium	001	011	002	2	4	0.02
Commercial	Government	Cook_top	Natural_Gas	Stock	001	011	004	1	1	0.65
Commercial	Government	Cook_top	Natural_Gas	Standard	001	011	004	1	2	0.35
Commercial	Government	Cook_top	Electric	Stock	001	011	004	2	1	0.65
Commercial	Government	Cook_top	Electric	Standard	001	011	004	2	2	0.35
Commercial	Government	Fryer	Natural_Gas	Stock	001	011	005	1	1	0.65
Commercial	Government	Fryer	Natural_Gas	Standard	001	011	005	1	2	0.35
Commercial	Government	Fryer	Electric	Stock	001	011	005	2	1	0.65
Commercial	Government	Fryer	Electric	Standard	001	011	005	2	2	0.35
Commercial	Government	Griddle	Natural_Gas	Stock	001	011	006	1	1	0.65
Commercial	Government	Griddle	Natural_Gas	Standard	001	011	006	1	2	0.35
Commercial	Government	Griddle	Electric	Stock	001	011	006	2	1	0.65
Commercial	Government	Griddle	Electric	Standard	001	011	006	2	2	0.35
Commercial	Government	Other_Cooking	Natural_Gas	Stock	001	011	007	1	1	0.65
Commercial	Government	Other_Cooking	Natural_Gas	Standard	001	011	007	1	2	0.35
Commercial	Government	Other_Cooking	Electric	Stock	001	011	007	2	1	0.65
Commercial	Government	Other_Cooking	Electric	Standard	001	011	007	2	2	0.35
Commercial	Government	AC_Compressor	Natural_Gas	Stock	001	011	010	1	1	0.65
Commercial	Government	AC_Compressor	Natural_Gas	Standard	001	011	010	1	2	0.35
Commercial	Government	AC_Compressor	Electric	Stock	001	011	010	2	1	0.65
Commercial	Government	AC_Compressor	Electric	Standard	001	011	010	2	2	0.35
Commercial	Government	Other	Natural_Gas	Stock	001	011	011	1	1	1
Commercial	TCU	Space_Heat	Natural_Gas	Stock	001	012	001	1	1	0.65
Commercial	TCU	Space_Heat	Natural_Gas	Standard	001	012	001	1	2	0.3
Commercial	TCU	Space_Heat	Natural_Gas	High	001	012	001	1	3	0.04
Commercial	TCU	Space_Heat	Natural_Gas	Premium	001	012	001	1	4	0.01
Commercial	TCU	Space_Heat	Electric	Stock	001	012	001	2	1	1
Commercial	TCU	Water_Heat	Natural_Gas	Stock	001	012	002	1	1	0.4
Commercial	TCU	Water_Heat	Natural_Gas	Standard	001	012	002	1	2	0.5
Commercial	TCU	Water_Heat	Natural_Gas	High	001	012	002	1	3	0.08

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial	TCU	Water_Heat	Natural_Gas	Premium	001	012	002	1	4	0.02
Commercial	TCU	Water_Heat	Electric	Stock	001	012	002	2	1	0.4
Commercial	TCU	Water_Heat	Electric	Standard	001	012	002	2	2	0.5
Commercial	TCU	Water_Heat	Electric	High	001	012	002	2	3	0.08
Commercial	TCU	Water_Heat	Electric	Premium	001	012	002	2	4	0.02
Commercial	TCU	Engine	Natural_Gas	Stock	001	012	009	1	1	0.65
Commercial	TCU	Engine	Natural_Gas	Standard	001	012	009	1	2	0.35
Commercial	TCU	Engine	Electric	Stock	001	012	009	2	1	0.65
Commercial	TCU	Engine	Electric	Standard	001	012	009	2	2	0.35
Commercial	TCU	Other	Natural_Gas	Stock	001	012	011	1	1	1
Commercial	Constructic	Space_Heat	Natural_Gas	Stock	001	013	001	1	1	0.65
Commercial	Constructic	Space_Heat	Natural_Gas	Standard	001	013	001	1	2	0.3
Commercial	Constructic	Space_Heat	Natural_Gas	High	001	013	001	1	3	0.04
Commercial	Constructic	Space_Heat	Natural_Gas	Premium	001	013	001	1	4	0.01
Commercial	Constructic	Space_Heat	Electric	Stock	001	013	001	2	1	1
Commercial	Constructic	Water_Heat	Natural_Gas	Stock	001	013	002	1	1	0.4
Commercial	Constructic	Water_Heat	Natural_Gas	Standard	001	013	002	1	2	0.5
Commercial	Constructic	Water_Heat	Natural_Gas	High	001	013	002	1	3	0.08
Commercial	Constructic	Water_Heat	Natural_Gas	Premium	001	013	002	1	4	0.02
Commercial	Constructic	Water_Heat	Electric	Stock	001	013	002	2	1	0.4
Commercial	Constructic	Water_Heat	Electric	Standard	001	013	002	2	2	0.5
Commercial	Constructic	Water_Heat	Electric	High	001	013	002	2	3	0.08
Commercial	Constructic	Water_Heat	Electric	Premium	001	013	002	2	4	0.02
Commercial	Constructic	Other	Natural_Gas	Stock	001	013	011	1	1	1
Commercial	Agriculture	Space_Heat	Natural_Gas	Stock	001	014	001	1	1	0.65
Commercial	Agriculture	Space_Heat	Natural_Gas	Standard	001	014	001	1	2	0.3
Commercial	Agriculture	Space_Heat	Natural_Gas	High	001	014	001	1	3	0.04
Commercial	Agriculture	Space_Heat	Natural_Gas	Premium	001	014	001	1	4	0.01
Commercial	Agriculture	Space_Heat	Electric	Stock	001	014	001	2	1	1
Commercial	Agriculture	Water_Heat	Natural_Gas	Stock	001	014	002	1	1	0.4

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareExisting
Commercial Agriculture Water_Heat	Natural_Gas	Standard	001	014	002	1	2			0.5
Commercial Agriculture Water_Heat	Natural_Gas	High	001	014	002	1	3			0.08
Commercial Agriculture Water_Heat	Natural_Gas	Premium	001	014	002	1	4			0.02
Commercial Agriculture Water_Heat	Electric	Stock	001	014	002	2	1			0.4
Commercial Agriculture Water_Heat	Electric	Standard	001	014	002	2	2			0.5
Commercial Agriculture Water_Heat	Electric	High	001	014	002	2	3			0.08
Commercial Agriculture Water_Heat	Electric	Premium	001	014	002	2	4			0.02
Commercial Agriculture Drying	Natural_Gas	Stock	001	014	008	1	1			0.65
Commercial Agriculture Drying	Natural_Gas	Standard	001	014	008	1	2			0.35
Commercial Agriculture Drying	Electric	Stock	001	014	008	2	1			0.65
Commercial Agriculture Drying	Electric	Standard	001	014	008	2	2			0.35
Commercial Agriculture Engine	Natural_Gas	Stock	001	014	009	1	1			0.65
Commercial Agriculture Engine	Natural_Gas	Standard	001	014	009	1	2			0.35
Commercial Agriculture Engine	Electric	Stock	001	014	009	2	1			0.65
Commercial Agriculture Engine	Electric	Standard	001	014	009	2	2			0.35
Commercial Agriculture Other	Natural_Gas	Stock	001	014	011	1	1			1

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial Office	Space_Heat	Natural_Gas	Stock	001	001	001	1	1	1	0.65
Commercial Office	Space_Heat	Natural_Gas	Standard	001	001	001	1	2	2	0.3
Commercial Office	Space_Heat	Natural_Gas	High	001	001	001	1	3	3	0.04
Commercial Office	Space_Heat	Natural_Gas	Premium	001	001	001	1	4	4	0.01
Commercial Office	Space_Heat	Electric	Stock	001	001	001	2	1	1	1
Commercial Office	Water_Heat	Natural_Gas	Stock	001	001	002	1	1	1	0.4
Commercial Office	Water_Heat	Natural_Gas	Standard	001	001	002	1	2	2	0.5
Commercial Office	Water_Heat	Natural_Gas	High	001	001	002	1	3	3	0.08
Commercial Office	Water_Heat	Natural_Gas	Premium	001	001	002	1	4	4	0.02
Commercial Office	Water_Heat	Electric	Stock	001	001	002	2	1	1	0.4
Commercial Office	Water_Heat	Electric	Standard	001	001	002	2	2	2	0.5
Commercial Office	Water_Heat	Electric	High	001	001	002	2	3	3	0.08
Commercial Office	Water_Heat	Electric	Premium	001	001	002	2	4	4	0.02
Commercial Office	Cooking	Natural_Gas	Stock	001	001	003	1	1	1	0.65
Commercial Office	Cooking	Natural_Gas	Standard	001	001	003	1	2	2	0.35
Commercial Office	Cooking	Electric	Stock	001	001	003	2	1	1	0.65
Commercial Office	Cooking	Electric	Standard	001	001	003	2	2	2	0.35
Commercial Office	AC_Compressor	Natural_Gas	Stock	001	001	010	1	1	1	0.65
Commercial Office	AC_Compressor	Natural_Gas	Standard	001	001	010	1	2	2	0.35
Commercial Office	AC_Compressor	Electric	Stock	001	001	010	2	1	1	0.65
Commercial Office	AC_Compressor	Electric	Standard	001	001	010	2	2	2	0.35
Commercial Office	Other	Natural_Gas	Stock	001	001	011	1	1	1	1
Commercial Restaurant	Space_Heat	Natural_Gas	Stock	001	002	001	1	1	1	0.65
Commercial Restaurant	Space_Heat	Natural_Gas	Standard	001	002	001	1	2	2	0.3
Commercial Restaurant	Space_Heat	Natural_Gas	High	001	002	001	1	3	3	0.04
Commercial Restaurant	Space_Heat	Natural_Gas	Premium	001	002	001	1	4	4	0.01
Commercial Restaurant	Space_Heat	Electric	Stock	001	002	001	2	1	1	1
Commercial Restaurant	Water_Heat	Natural_Gas	Stock	001	002	002	1	1	1	0.4
Commercial Restaurant	Water_Heat	Natural_Gas	Standard	001	002	002	1	2	2	0.5
Commercial Restaurant	Water_Heat	Natural_Gas	High	001	002	002	1	3	3	0.08

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial Restaurant Water_Heat	Natural_Gas	Premium	001	002	002	1	4			0.02
Commercial Restaurant Water_Heat	Electric	Stock	001	002	002	2	1			0.4
Commercial Restaurant Water_Heat	Electric	Standard	001	002	002	2	2			0.5
Commercial Restaurant Water_Heat	Electric	High	001	002	002	2	3			0.08
Commercial Restaurant Water_Heat	Electric	Premium	001	002	002	2	4			0.02
Commercial Restaurant Cook_top	Natural_Gas	Stock	001	002	004	1	1			0.65
Commercial Restaurant Cook_top	Natural_Gas	Standard	001	002	004	1	2			0.35
Commercial Restaurant Cook_top	Electric	Stock	001	002	004	2	1			0.65
Commercial Restaurant Cook_top	Electric	Standard	001	002	004	2	2			0.35
Commercial Restaurant Fryer	Natural_Gas	Stock	001	002	005	1	1			0.65
Commercial Restaurant Fryer	Natural_Gas	Standard	001	002	005	1	2			0.35
Commercial Restaurant Fryer	Electric	Stock	001	002	005	2	1			0.65
Commercial Restaurant Fryer	Electric	Standard	001	002	005	2	2			0.35
Commercial Restaurant Griddle	Natural_Gas	Stock	001	002	006	1	1			0.65
Commercial Restaurant Griddle	Natural_Gas	Standard	001	002	006	1	2			0.35
Commercial Restaurant Griddle	Electric	Stock	001	002	006	2	1			0.65
Commercial Restaurant Griddle	Electric	Standard	001	002	006	2	2			0.35
Commercial Restaurant Other_Cooking	Natural_Gas	Stock	001	002	007	1	1			0.65
Commercial Restaurant Other_Cooking	Natural_Gas	Standard	001	002	007	1	2			0.35
Commercial Restaurant Other_Cooking	Electric	Stock	001	002	007	2	1			0.65
Commercial Restaurant Other_Cooking	Electric	Standard	001	002	007	2	2			0.35
Commercial Restaurant AC_Compressor	Natural_Gas	Stock	001	002	010	1	1			0.65
Commercial Restaurant AC_Compressor	Natural_Gas	Standard	001	002	010	1	2			0.35
Commercial Restaurant AC_Compressor	Electric	Stock	001	002	010	2	1			0.65
Commercial Restaurant AC_Compressor	Electric	Standard	001	002	010	2	2			0.35
Commercial Restaurant Other	Natural_Gas	Stock	001	002	011	1	1			1
Commercial Retail	Space_Heat	Natural_Gas	Stock	001	003	001	1	1		0.65
Commercial Retail	Space_Heat	Natural_Gas	Standard	001	003	001	1	2		0.3
Commercial Retail	Space_Heat	Natural_Gas	High	001	003	001	1	3		0.04
Commercial Retail	Space_Heat	Natural_Gas	Premium	001	003	001	1	4		0.01

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial Retail	Space_Heat	Electric	Stock	001	003	001	2	1	1	1
Commercial Retail	Water_Heat	Natural_Gas	Stock	001	003	002	1	1	1	0.4
Commercial Retail	Water_Heat	Natural_Gas	Standard	001	003	002	1	2	2	0.5
Commercial Retail	Water_Heat	Natural_Gas	High	001	003	002	1	3	3	0.08
Commercial Retail	Water_Heat	Natural_Gas	Premium	001	003	002	1	4	4	0.02
Commercial Retail	Water_Heat	Electric	Stock	001	003	002	2	1	1	0.4
Commercial Retail	Water_Heat	Electric	Standard	001	003	002	2	2	2	0.5
Commercial Retail	Water_Heat	Electric	High	001	003	002	2	3	3	0.08
Commercial Retail	Water_Heat	Electric	Premium	001	003	002	2	4	4	0.02
Commercial Retail	Cooking	Natural_Gas	Stock	001	003	003	1	1	1	0.65
Commercial Retail	Cooking	Natural_Gas	Standard	001	003	003	1	2	2	0.35
Commercial Retail	Cooking	Electric	Stock	001	003	003	2	1	1	0.65
Commercial Retail	Cooking	Electric	Standard	001	003	003	2	2	2	0.35
Commercial Retail	Other	Natural_Gas	Stock	001	003	011	1	1	1	1
Commercial Laundry	Space_Heat	Natural_Gas	Stock	001	004	001	1	1	1	0.65
Commercial Laundry	Space_Heat	Natural_Gas	Standard	001	004	001	1	2	2	0.3
Commercial Laundry	Space_Heat	Natural_Gas	High	001	004	001	1	3	3	0.04
Commercial Laundry	Space_Heat	Natural_Gas	Premium	001	004	001	1	4	4	0.01
Commercial Laundry	Space_Heat	Electric	Stock	001	004	001	2	1	1	1
Commercial Laundry	Water_Heat	Natural_Gas	Stock	001	004	002	1	1	1	0.4
Commercial Laundry	Water_Heat	Natural_Gas	Standard	001	004	002	1	2	2	0.5
Commercial Laundry	Water_Heat	Natural_Gas	High	001	004	002	1	3	3	0.08
Commercial Laundry	Water_Heat	Natural_Gas	Premium	001	004	002	1	4	4	0.02
Commercial Laundry	Water_Heat	Electric	Stock	001	004	002	2	1	1	0.4
Commercial Laundry	Water_Heat	Electric	Standard	001	004	002	2	2	2	0.5
Commercial Laundry	Water_Heat	Electric	High	001	004	002	2	3	3	0.08
Commercial Laundry	Water_Heat	Electric	Premium	001	004	002	2	4	4	0.02
Commercial Laundry	Drying	Natural_Gas	Stock	001	004	008	1	1	1	0.65
Commercial Laundry	Drying	Natural_Gas	Standard	001	004	008	1	2	2	0.35
Commercial Laundry	Drying	Electric	Stock	001	004	008	2	1	1	0.65

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial Laundry	Drying	Electric	Standard	001	004	008	2	2	0.35	
Commercial Laundry	Other	Natural_Gas	Stock	001	004	011	1	1	1	
Commercial Warehouse	Space_Heat	Natural_Gas	Stock	001	005	001	1	1	0.65	
Commercial Warehouse	Space_Heat	Natural_Gas	Standard	001	005	001	1	2	0.3	
Commercial Warehouse	Space_Heat	Natural_Gas	High	001	005	001	1	3	0.04	
Commercial Warehouse	Space_Heat	Natural_Gas	Premium	001	005	001	1	4	0.01	
Commercial Warehouse	Space_Heat	Electric	Stock	001	005	001	2	1	1	
Commercial Warehouse	Water_Heat	Natural_Gas	Stock	001	005	002	1	1	0.4	
Commercial Warehouse	Water_Heat	Natural_Gas	Standard	001	005	002	1	2	0.5	
Commercial Warehouse	Water_Heat	Natural_Gas	High	001	005	002	1	3	0.08	
Commercial Warehouse	Water_Heat	Natural_Gas	Premium	001	005	002	1	4	0.02	
Commercial Warehouse	Water_Heat	Electric	Stock	001	005	002	2	1	0.4	
Commercial Warehouse	Water_Heat	Electric	Standard	001	005	002	2	2	0.5	
Commercial Warehouse	Water_Heat	Electric	High	001	005	002	2	3	0.08	
Commercial Warehouse	Water_Heat	Electric	Premium	001	005	002	2	4	0.02	
Commercial Warehouse	Engine	Natural_Gas	Stock	001	005	009	1	1	0.65	
Commercial Warehouse	Engine	Natural_Gas	Standard	001	005	009	1	2	0.35	
Commercial Warehouse	Engine	Electric	Stock	001	005	009	2	1	0.65	
Commercial Warehouse	Engine	Electric	Standard	001	005	009	2	2	0.35	
Commercial Warehouse	Other	Natural_Gas	Stock	001	005	011	1	1	1	
Commercial School	Space_Heat	Natural_Gas	Stock	001	006	001	1	1	0.65	
Commercial School	Space_Heat	Natural_Gas	Standard	001	006	001	1	2	0.3	
Commercial School	Space_Heat	Natural_Gas	High	001	006	001	1	3	0.04	
Commercial School	Space_Heat	Natural_Gas	Premium	001	006	001	1	4	0.01	
Commercial School	Space_Heat	Electric	Stock	001	006	001	2	1	1	
Commercial School	Water_Heat	Natural_Gas	Stock	001	006	002	1	1	0.4	
Commercial School	Water_Heat	Natural_Gas	Standard	001	006	002	1	2	0.5	
Commercial School	Water_Heat	Natural_Gas	High	001	006	002	1	3	0.08	
Commercial School	Water_Heat	Natural_Gas	Premium	001	006	002	1	4	0.02	
Commercial School	Water_Heat	Electric	Stock	001	006	002	2	1	0.4	

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial	School	Water_Heat	Electric	Standard	001	006	002	2	2	0.5
Commercial	School	Water_Heat	Electric	High	001	006	002	2	3	0.08
Commercial	School	Water_Heat	Electric	Premium	001	006	002	2	4	0.02
Commercial	School	Cook_top	Natural_Gas	Stock	001	006	004	1	1	0.65
Commercial	School	Cook_top	Natural_Gas	Standard	001	006	004	1	2	0.35
Commercial	School	Cook_top	Electric	Stock	001	006	004	2	1	0.65
Commercial	School	Cook_top	Electric	Standard	001	006	004	2	2	0.35
Commercial	School	Fryer	Natural_Gas	Stock	001	006	005	1	1	0.65
Commercial	School	Fryer	Natural_Gas	Standard	001	006	005	1	2	0.35
Commercial	School	Fryer	Electric	Stock	001	006	005	2	1	0.65
Commercial	School	Fryer	Electric	Standard	001	006	005	2	2	0.35
Commercial	School	Griddle	Natural_Gas	Stock	001	006	006	1	1	0.65
Commercial	School	Griddle	Natural_Gas	Standard	001	006	006	1	2	0.35
Commercial	School	Griddle	Electric	Stock	001	006	006	2	1	0.65
Commercial	School	Griddle	Electric	Standard	001	006	006	2	2	0.35
Commercial	School	Other_Cooking	Natural_Gas	Stock	001	006	007	1	1	0.65
Commercial	School	Other_Cooking	Natural_Gas	Standard	001	006	007	1	2	0.35
Commercial	School	Other_Cooking	Electric	Stock	001	006	007	2	1	0.65
Commercial	School	Other_Cooking	Electric	Standard	001	006	007	2	2	0.35
Commercial	School	AC_Compressor	Natural_Gas	Stock	001	006	010	1	1	0.65
Commercial	School	AC_Compressor	Natural_Gas	Standard	001	006	010	1	2	0.35
Commercial	School	AC_Compressor	Electric	Stock	001	006	010	2	1	0.65
Commercial	School	AC_Compressor	Electric	Standard	001	006	010	2	2	0.35
Commercial	School	Other	Natural_Gas	Stock	001	006	011	1	1	1
Commercial	College	Space_Heat	Natural_Gas	Stock	001	007	001	1	1	0.65
Commercial	College	Space_Heat	Natural_Gas	Standard	001	007	001	1	2	0.3
Commercial	College	Space_Heat	Natural_Gas	High	001	007	001	1	3	0.04
Commercial	College	Space_Heat	Natural_Gas	Premium	001	007	001	1	4	0.01
Commercial	College	Space_Heat	Electric	Stock	001	007	001	2	1	1
Commercial	College	Water_Heat	Natural_Gas	Stock	001	007	002	1	1	0.4

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial College	Water_Heat	Natural_Gas	Standard	001	007	002	1	2	0.5	
Commercial College	Water_Heat	Natural_Gas	High	001	007	002	1	3	0.08	
Commercial College	Water_Heat	Natural_Gas	Premium	001	007	002	1	4	0.02	
Commercial College	Water_Heat	Electric	Stock	001	007	002	2	1	0.4	
Commercial College	Water_Heat	Electric	Standard	001	007	002	2	2	0.5	
Commercial College	Water_Heat	Electric	High	001	007	002	2	3	0.08	
Commercial College	Water_Heat	Electric	Premium	001	007	002	2	4	0.02	
Commercial College	Cook_top	Natural_Gas	Stock	001	007	004	1	1	0.65	
Commercial College	Cook_top	Natural_Gas	Standard	001	007	004	1	2	0.35	
Commercial College	Cook_top	Electric	Stock	001	007	004	2	1	0.65	
Commercial College	Cook_top	Electric	Standard	001	007	004	2	2	0.35	
Commercial College	Fryer	Natural_Gas	Stock	001	007	005	1	1	0.65	
Commercial College	Fryer	Natural_Gas	Standard	001	007	005	1	2	0.35	
Commercial College	Fryer	Electric	Stock	001	007	005	2	1	0.65	
Commercial College	Fryer	Electric	Standard	001	007	005	2	2	0.35	
Commercial College	Griddle	Natural_Gas	Stock	001	007	006	1	1	0.65	
Commercial College	Griddle	Natural_Gas	Standard	001	007	006	1	2	0.35	
Commercial College	Griddle	Electric	Stock	001	007	006	2	1	0.65	
Commercial College	Griddle	Electric	Standard	001	007	006	2	2	0.35	
Commercial College	Other_Cooking	Natural_Gas	Stock	001	007	007	1	1	0.65	
Commercial College	Other_Cooking	Natural_Gas	Standard	001	007	007	1	2	0.35	
Commercial College	Other_Cooking	Electric	Stock	001	007	007	2	1	0.65	
Commercial College	Other_Cooking	Electric	Standard	001	007	007	2	2	0.35	
Commercial College	AC_Compressor	Natural_Gas	Stock	001	007	010	1	1	0.65	
Commercial College	AC_Compressor	Natural_Gas	Standard	001	007	010	1	2	0.35	
Commercial College	AC_Compressor	Electric	Stock	001	007	010	2	1	0.65	
Commercial College	AC_Compressor	Electric	Standard	001	007	010	2	2	0.35	
Commercial College	Other	Natural_Gas	Stock	001	007	011	1	1	1	
Commercial Health	Space_Heat	Natural_Gas	Stock	001	008	001	1	1	0.65	
Commercial Health	Space_Heat	Natural_Gas	Standard	001	008	001	1	2	0.3	

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial	Health	Space_Heat	Natural_Gas	High	001	008	001	1	3	0.04
Commercial	Health	Space_Heat	Natural_Gas	Premium	001	008	001	1	4	0.01
Commercial	Health	Space_Heat	Electric	Stock	001	008	001	2	1	1
Commercial	Health	Water_Heat	Natural_Gas	Stock	001	008	002	1	1	0.4
Commercial	Health	Water_Heat	Natural_Gas	Standard	001	008	002	1	2	0.5
Commercial	Health	Water_Heat	Natural_Gas	High	001	008	002	1	3	0.08
Commercial	Health	Water_Heat	Natural_Gas	Premium	001	008	002	1	4	0.02
Commercial	Health	Water_Heat	Electric	Stock	001	008	002	2	1	0.4
Commercial	Health	Water_Heat	Electric	Standard	001	008	002	2	2	0.5
Commercial	Health	Water_Heat	Electric	High	001	008	002	2	3	0.08
Commercial	Health	Water_Heat	Electric	Premium	001	008	002	2	4	0.02
Commercial	Health	Cook_top	Natural_Gas	Stock	001	008	004	1	1	0.65
Commercial	Health	Cook_top	Natural_Gas	Standard	001	008	004	1	2	0.35
Commercial	Health	Cook_top	Electric	Stock	001	008	004	2	1	0.65
Commercial	Health	Cook_top	Electric	Standard	001	008	004	2	2	0.35
Commercial	Health	Fryer	Natural_Gas	Stock	001	008	005	1	1	0.65
Commercial	Health	Fryer	Natural_Gas	Standard	001	008	005	1	2	0.35
Commercial	Health	Fryer	Electric	Stock	001	008	005	2	1	0.65
Commercial	Health	Fryer	Electric	Standard	001	008	005	2	2	0.35
Commercial	Health	Griddle	Natural_Gas	Stock	001	008	006	1	1	0.65
Commercial	Health	Griddle	Natural_Gas	Standard	001	008	006	1	2	0.35
Commercial	Health	Griddle	Electric	Stock	001	008	006	2	1	0.65
Commercial	Health	Griddle	Electric	Standard	001	008	006	2	2	0.35
Commercial	Health	Other_Cooking	Natural_Gas	Stock	001	008	007	1	1	0.65
Commercial	Health	Other_Cooking	Natural_Gas	Standard	001	008	007	1	2	0.35
Commercial	Health	Other_Cooking	Electric	Stock	001	008	007	2	1	0.65
Commercial	Health	Other_Cooking	Electric	Standard	001	008	007	2	2	0.35
Commercial	Health	Drying	Natural_Gas	Stock	001	008	008	1	1	0.65
Commercial	Health	Drying	Natural_Gas	Standard	001	008	008	1	2	0.35
Commercial	Health	Drying	Electric	Stock	001	008	008	2	1	0.65

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial	Health	Drying	Electric	Standard	001	008	008	2	2	0.35
Commercial	Health	AC_Compressor	Natural_Gas	Stock	001	008	010	1	1	0.65
Commercial	Health	AC_Compressor	Natural_Gas	Standard	001	008	010	1	2	0.35
Commercial	Health	AC_Compressor	Electric	Stock	001	008	010	2	1	0.65
Commercial	Health	AC_Compressor	Electric	Standard	001	008	010	2	2	0.35
Commercial	Health	Other	Natural_Gas	Stock	001	008	011	1	1	1
Commercial	Lodging	Space_Heat	Natural_Gas	Stock	001	009	001	1	1	0.65
Commercial	Lodging	Space_Heat	Natural_Gas	Standard	001	009	001	1	2	0.3
Commercial	Lodging	Space_Heat	Natural_Gas	High	001	009	001	1	3	0.04
Commercial	Lodging	Space_Heat	Natural_Gas	Premium	001	009	001	1	4	0.01
Commercial	Lodging	Space_Heat	Electric	Stock	001	009	001	2	1	1
Commercial	Lodging	Water_Heat	Natural_Gas	Stock	001	009	002	1	1	0.4
Commercial	Lodging	Water_Heat	Natural_Gas	Standard	001	009	002	1	2	0.5
Commercial	Lodging	Water_Heat	Natural_Gas	High	001	009	002	1	3	0.08
Commercial	Lodging	Water_Heat	Natural_Gas	Premium	001	009	002	1	4	0.02
Commercial	Lodging	Water_Heat	Electric	Stock	001	009	002	2	1	0.4
Commercial	Lodging	Water_Heat	Electric	Standard	001	009	002	2	2	0.5
Commercial	Lodging	Water_Heat	Electric	High	001	009	002	2	3	0.08
Commercial	Lodging	Water_Heat	Electric	Premium	001	009	002	2	4	0.02
Commercial	Lodging	Cook_top	Natural_Gas	Stock	001	009	004	1	1	0.65
Commercial	Lodging	Cook_top	Natural_Gas	Standard	001	009	004	1	2	0.35
Commercial	Lodging	Cook_top	Electric	Stock	001	009	004	2	1	0.65
Commercial	Lodging	Cook_top	Electric	Standard	001	009	004	2	2	0.35
Commercial	Lodging	Fryer	Natural_Gas	Stock	001	009	005	1	1	0.65
Commercial	Lodging	Fryer	Natural_Gas	Standard	001	009	005	1	2	0.35
Commercial	Lodging	Fryer	Electric	Stock	001	009	005	2	1	0.65
Commercial	Lodging	Fryer	Electric	Standard	001	009	005	2	2	0.35
Commercial	Lodging	Griddle	Natural_Gas	Stock	001	009	006	1	1	0.65
Commercial	Lodging	Griddle	Natural_Gas	Standard	001	009	006	1	2	0.35
Commercial	Lodging	Griddle	Electric	Stock	001	009	006	2	1	0.65

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial Lodging	Griddle	Electric	Standard	001	009	006	2	2	0.35	
Commercial Lodging	Other_Cooking	Natural_Gas	Stock	001	009	007	1	1	0.65	
Commercial Lodging	Other_Cooking	Natural_Gas	Standard	001	009	007	1	2	0.35	
Commercial Lodging	Other_Cooking	Electric	Stock	001	009	007	2	1	0.65	
Commercial Lodging	Other_Cooking	Electric	Standard	001	009	007	2	2	0.35	
Commercial Lodging	Drying	Natural_Gas	Stock	001	009	008	1	1	0.65	
Commercial Lodging	Drying	Natural_Gas	Standard	001	009	008	1	2	0.35	
Commercial Lodging	Drying	Electric	Stock	001	009	008	2	1	0.65	
Commercial Lodging	Drying	Electric	Standard	001	009	008	2	2	0.35	
Commercial Lodging	AC_Compressor	Natural_Gas	Stock	001	009	010	1	1	0.65	
Commercial Lodging	AC_Compressor	Natural_Gas	Standard	001	009	010	1	2	0.35	
Commercial Lodging	AC_Compressor	Electric	Stock	001	009	010	2	1	0.65	
Commercial Lodging	AC_Compressor	Electric	Standard	001	009	010	2	2	0.35	
Commercial Lodging	Other	Natural_Gas	Stock	001	009	011	1	1	1	
Commercial Misc	Space_Heat	Natural_Gas	Stock	001	010	001	1	1	0.65	
Commercial Misc	Space_Heat	Natural_Gas	Standard	001	010	001	1	2	0.3	
Commercial Misc	Space_Heat	Natural_Gas	High	001	010	001	1	3	0.04	
Commercial Misc	Space_Heat	Natural_Gas	Premium	001	010	001	1	4	0.01	
Commercial Misc	Space_Heat	Electric	Stock	001	010	001	2	1	1	
Commercial Misc	Water_Heat	Natural_Gas	Stock	001	010	002	1	1	0.4	
Commercial Misc	Water_Heat	Natural_Gas	Standard	001	010	002	1	2	0.5	
Commercial Misc	Water_Heat	Natural_Gas	High	001	010	002	1	3	0.08	
Commercial Misc	Water_Heat	Natural_Gas	Premium	001	010	002	1	4	0.02	
Commercial Misc	Water_Heat	Electric	Stock	001	010	002	2	1	0.4	
Commercial Misc	Water_Heat	Electric	Standard	001	010	002	2	2	0.5	
Commercial Misc	Water_Heat	Electric	High	001	010	002	2	3	0.08	
Commercial Misc	Water_Heat	Electric	Premium	001	010	002	2	4	0.02	
Commercial Misc	Cook_top	Natural_Gas	Stock	001	010	004	1	1	0.65	
Commercial Misc	Cook_top	Natural_Gas	Standard	001	010	004	1	2	0.35	
Commercial Misc	Cook_top	Electric	Stock	001	010	004	2	1	0.65	

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial Misc	Cook_top	Electric	Standard	001	010	004	2	2	0.35	
Commercial Misc	Fryer	Natural_Gas	Stock	001	010	005	1	1	0.65	
Commercial Misc	Fryer	Natural_Gas	Standard	001	010	005	1	2	0.35	
Commercial Misc	Fryer	Electric	Stock	001	010	005	2	1	0.65	
Commercial Misc	Fryer	Electric	Standard	001	010	005	2	2	0.35	
Commercial Misc	Griddle	Natural_Gas	Stock	001	010	006	1	1	0.65	
Commercial Misc	Griddle	Natural_Gas	Standard	001	010	006	1	2	0.35	
Commercial Misc	Griddle	Electric	Stock	001	010	006	2	1	0.65	
Commercial Misc	Griddle	Electric	Standard	001	010	006	2	2	0.35	
Commercial Misc	Other_Cooking	Natural_Gas	Stock	001	010	007	1	1	0.65	
Commercial Misc	Other_Cooking	Natural_Gas	Standard	001	010	007	1	2	0.35	
Commercial Misc	Other_Cooking	Electric	Stock	001	010	007	2	1	0.65	
Commercial Misc	Other_Cooking	Electric	Standard	001	010	007	2	2	0.35	
Commercial Misc	AC_Compressor	Natural_Gas	Stock	001	010	010	1	1	0.65	
Commercial Misc	AC_Compressor	Natural_Gas	Standard	001	010	010	1	2	0.35	
Commercial Misc	AC_Compressor	Electric	Stock	001	010	010	2	1	0.65	
Commercial Misc	AC_Compressor	Electric	Standard	001	010	010	2	2	0.35	
Commercial Misc	Other	Natural_Gas	Stock	001	010	011	1	1	1	
Commercial Governme	Space_Heat	Natural_Gas	Stock	001	011	001	1	1	0.65	
Commercial Governme	Space_Heat	Natural_Gas	Standard	001	011	001	1	2	0.3	
Commercial Governme	Space_Heat	Natural_Gas	High	001	011	001	1	3	0.04	
Commercial Governme	Space_Heat	Natural_Gas	Premium	001	011	001	1	4	0.01	
Commercial Governme	Space_Heat	Electric	Stock	001	011	001	2	1	1	
Commercial Governme	Water_Heat	Natural_Gas	Stock	001	011	002	1	1	0.4	
Commercial Governme	Water_Heat	Natural_Gas	Standard	001	011	002	1	2	0.5	
Commercial Governme	Water_Heat	Natural_Gas	High	001	011	002	1	3	0.08	
Commercial Governme	Water_Heat	Natural_Gas	Premium	001	011	002	1	4	0.02	
Commercial Governme	Water_Heat	Electric	Stock	001	011	002	2	1	0.4	
Commercial Governme	Water_Heat	Electric	Standard	001	011	002	2	2	0.5	
Commercial Governme	Water_Heat	Electric	High	001	011	002	2	3	0.08	

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial Governme	Water_Heat	Electric	Premium	001	011	002	2	4	0.02	
Commercial Governme	Cook_top	Natural_Gas	Stock	001	011	004	1	1	0.65	
Commercial Governme	Cook_top	Natural_Gas	Standard	001	011	004	1	2	0.35	
Commercial Governme	Cook_top	Electric	Stock	001	011	004	2	1	0.65	
Commercial Governme	Cook_top	Electric	Standard	001	011	004	2	2	0.35	
Commercial Governme	Fryer	Natural_Gas	Stock	001	011	005	1	1	0.65	
Commercial Governme	Fryer	Natural_Gas	Standard	001	011	005	1	2	0.35	
Commercial Governme	Fryer	Electric	Stock	001	011	005	2	1	0.65	
Commercial Governme	Fryer	Electric	Standard	001	011	005	2	2	0.35	
Commercial Governme	Griddle	Natural_Gas	Stock	001	011	006	1	1	0.65	
Commercial Governme	Griddle	Natural_Gas	Standard	001	011	006	1	2	0.35	
Commercial Governme	Griddle	Electric	Stock	001	011	006	2	1	0.65	
Commercial Governme	Griddle	Electric	Standard	001	011	006	2	2	0.35	
Commercial Governme	Other_Cooking	Natural_Gas	Stock	001	011	007	1	1	0.65	
Commercial Governme	Other_Cooking	Natural_Gas	Standard	001	011	007	1	2	0.35	
Commercial Governme	Other_Cooking	Electric	Stock	001	011	007	2	1	0.65	
Commercial Governme	Other_Cooking	Electric	Standard	001	011	007	2	2	0.35	
Commercial Governme	AC_Compressor	Natural_Gas	Stock	001	011	010	1	1	0.65	
Commercial Governme	AC_Compressor	Natural_Gas	Standard	001	011	010	1	2	0.35	
Commercial Governme	AC_Compressor	Electric	Stock	001	011	010	2	1	0.65	
Commercial Governme	AC_Compressor	Electric	Standard	001	011	010	2	2	0.35	
Commercial Governme	Other	Natural_Gas	Stock	001	011	011	1	1	1	
Commercial TCU	Space_Heat	Natural_Gas	Stock	001	012	001	1	1	0.65	
Commercial TCU	Space_Heat	Natural_Gas	Standard	001	012	001	1	2	0.3	
Commercial TCU	Space_Heat	Natural_Gas	High	001	012	001	1	3	0.04	
Commercial TCU	Space_Heat	Natural_Gas	Premium	001	012	001	1	4	0.01	
Commercial TCU	Space_Heat	Electric	Stock	001	012	001	2	1	1	
Commercial TCU	Water_Heat	Natural_Gas	Stock	001	012	002	1	1	0.4	
Commercial TCU	Water_Heat	Natural_Gas	Standard	001	012	002	1	2	0.5	
Commercial TCU	Water_Heat	Natural_Gas	High	001	012	002	1	3	0.08	

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial	TCU	Water_Heat	Natural_Gas	Premium	001	012	002	1	4	0.02
Commercial	TCU	Water_Heat	Electric	Stock	001	012	002	2	1	0.4
Commercial	TCU	Water_Heat	Electric	Standard	001	012	002	2	2	0.5
Commercial	TCU	Water_Heat	Electric	High	001	012	002	2	3	0.08
Commercial	TCU	Water_Heat	Electric	Premium	001	012	002	2	4	0.02
Commercial	TCU	Engine	Natural_Gas	Stock	001	012	009	1	1	0.65
Commercial	TCU	Engine	Natural_Gas	Standard	001	012	009	1	2	0.35
Commercial	TCU	Engine	Electric	Stock	001	012	009	2	1	0.65
Commercial	TCU	Engine	Electric	Standard	001	012	009	2	2	0.35
Commercial	TCU	Other	Natural_Gas	Stock	001	012	011	1	1	1
Commercial	Constructic	Space_Heat	Natural_Gas	Stock	001	013	001	1	1	0.65
Commercial	Constructic	Space_Heat	Natural_Gas	Standard	001	013	001	1	2	0.3
Commercial	Constructic	Space_Heat	Natural_Gas	High	001	013	001	1	3	0.04
Commercial	Constructic	Space_Heat	Natural_Gas	Premium	001	013	001	1	4	0.01
Commercial	Constructic	Space_Heat	Electric	Stock	001	013	001	2	1	1
Commercial	Constructic	Water_Heat	Natural_Gas	Stock	001	013	002	1	1	0.4
Commercial	Constructic	Water_Heat	Natural_Gas	Standard	001	013	002	1	2	0.5
Commercial	Constructic	Water_Heat	Natural_Gas	High	001	013	002	1	3	0.08
Commercial	Constructic	Water_Heat	Natural_Gas	Premium	001	013	002	1	4	0.02
Commercial	Constructic	Water_Heat	Electric	Stock	001	013	002	2	1	0.4
Commercial	Constructic	Water_Heat	Electric	Standard	001	013	002	2	2	0.5
Commercial	Constructic	Water_Heat	Electric	High	001	013	002	2	3	0.08
Commercial	Constructic	Water_Heat	Electric	Premium	001	013	002	2	4	0.02
Commercial	Constructic	Other	Natural_Gas	Stock	001	013	011	1	1	1
Commercial	Agriculture	Space_Heat	Natural_Gas	Stock	001	014	001	1	1	0.65
Commercial	Agriculture	Space_Heat	Natural_Gas	Standard	001	014	001	1	2	0.3
Commercial	Agriculture	Space_Heat	Natural_Gas	High	001	014	001	1	3	0.04
Commercial	Agriculture	Space_Heat	Natural_Gas	Premium	001	014	001	1	4	0.01
Commercial	Agriculture	Space_Heat	Electric	Stock	001	014	001	2	1	1
Commercial	Agriculture	Water_Heat	Natural_Gas	Stock	001	014	002	1	1	0.4

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareConversion
Commercial Agriculture Water_Heat	Natural_Gas	Standard	001	014	002	1	2			0.5
Commercial Agriculture Water_Heat	Natural_Gas	High	001	014	002	1	3			0.08
Commercial Agriculture Water_Heat	Natural_Gas	Premium	001	014	002	1	4			0.02
Commercial Agriculture Water_Heat	Electric	Stock	001	014	002	2	1			0.4
Commercial Agriculture Water_Heat	Electric	Standard	001	014	002	2	2			0.5
Commercial Agriculture Water_Heat	Electric	High	001	014	002	2	3			0.08
Commercial Agriculture Water_Heat	Electric	Premium	001	014	002	2	4			0.02
Commercial Agriculture Drying	Natural_Gas	Stock	001	014	008	1	1			0.65
Commercial Agriculture Drying	Natural_Gas	Standard	001	014	008	1	2			0.35
Commercial Agriculture Drying	Electric	Stock	001	014	008	2	1			0.65
Commercial Agriculture Drying	Electric	Standard	001	014	008	2	2			0.35
Commercial Agriculture Engine	Natural_Gas	Stock	001	014	009	1	1			0.65
Commercial Agriculture Engine	Natural_Gas	Standard	001	014	009	1	2			0.35
Commercial Agriculture Engine	Electric	Stock	001	014	009	2	1			0.65
Commercial Agriculture Engine	Electric	Standard	001	014	009	2	2			0.35
Commercial Agriculture Other	Natural_Gas	Stock	001	014	011	1	1			1

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial Office	Space_Heat	Natural_Gas	Stock	001	001	001	1	1	1	0.65
Commercial Office	Space_Heat	Natural_Gas	Standard	001	001	001	1	2	2	0.3
Commercial Office	Space_Heat	Natural_Gas	High	001	001	001	1	3	3	0.04
Commercial Office	Space_Heat	Natural_Gas	Premium	001	001	001	1	4	4	0.01
Commercial Office	Space_Heat	Electric	Stock	001	001	001	2	1	1	1
Commercial Office	Water_Heat	Natural_Gas	Stock	001	001	002	1	1	1	0.4
Commercial Office	Water_Heat	Natural_Gas	Standard	001	001	002	1	2	2	0.5
Commercial Office	Water_Heat	Natural_Gas	High	001	001	002	1	3	3	0.08
Commercial Office	Water_Heat	Natural_Gas	Premium	001	001	002	1	4	4	0.02
Commercial Office	Water_Heat	Electric	Stock	001	001	002	2	1	1	0.4
Commercial Office	Water_Heat	Electric	Standard	001	001	002	2	2	2	0.5
Commercial Office	Water_Heat	Electric	High	001	001	002	2	3	3	0.08
Commercial Office	Water_Heat	Electric	Premium	001	001	002	2	4	4	0.02
Commercial Office	Cooking	Natural_Gas	Stock	001	001	003	1	1	1	0.65
Commercial Office	Cooking	Natural_Gas	Standard	001	001	003	1	2	2	0.35
Commercial Office	Cooking	Electric	Stock	001	001	003	2	1	1	0.65
Commercial Office	Cooking	Electric	Standard	001	001	003	2	2	2	0.35
Commercial Office	AC_Compressor	Natural_Gas	Stock	001	001	010	1	1	1	0.65
Commercial Office	AC_Compressor	Natural_Gas	Standard	001	001	010	1	2	2	0.35
Commercial Office	AC_Compressor	Electric	Stock	001	001	010	2	1	1	0.65
Commercial Office	AC_Compressor	Electric	Standard	001	001	010	2	2	2	0.35
Commercial Office	Other	Natural_Gas	Stock	001	001	011	1	1	1	1
Commercial Restaurant	Space_Heat	Natural_Gas	Stock	001	002	001	1	1	1	0.65
Commercial Restaurant	Space_Heat	Natural_Gas	Standard	001	002	001	1	2	2	0.3
Commercial Restaurant	Space_Heat	Natural_Gas	High	001	002	001	1	3	3	0.04
Commercial Restaurant	Space_Heat	Natural_Gas	Premium	001	002	001	1	4	4	0.01
Commercial Restaurant	Space_Heat	Electric	Stock	001	002	001	2	1	1	1
Commercial Restaurant	Water_Heat	Natural_Gas	Stock	001	002	002	1	1	1	0.4
Commercial Restaurant	Water_Heat	Natural_Gas	Standard	001	002	002	1	2	2	0.5
Commercial Restaurant	Water_Heat	Natural_Gas	High	001	002	002	1	3	3	0.08

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial Restaurant Water_Heat	Natural_Gas	Premium	001	002	002	1	4			0.02
Commercial Restaurant Water_Heat	Electric	Stock	001	002	002	2	1			0.4
Commercial Restaurant Water_Heat	Electric	Standard	001	002	002	2	2			0.5
Commercial Restaurant Water_Heat	Electric	High	001	002	002	2	3			0.08
Commercial Restaurant Water_Heat	Electric	Premium	001	002	002	2	4			0.02
Commercial Restaurant Cook_top	Natural_Gas	Stock	001	002	004	1	1			0.65
Commercial Restaurant Cook_top	Natural_Gas	Standard	001	002	004	1	2			0.35
Commercial Restaurant Cook_top	Electric	Stock	001	002	004	2	1			0.65
Commercial Restaurant Cook_top	Electric	Standard	001	002	004	2	2			0.35
Commercial Restaurant Fryer	Natural_Gas	Stock	001	002	005	1	1			0.65
Commercial Restaurant Fryer	Natural_Gas	Standard	001	002	005	1	2			0.35
Commercial Restaurant Fryer	Electric	Stock	001	002	005	2	1			0.65
Commercial Restaurant Fryer	Electric	Standard	001	002	005	2	2			0.35
Commercial Restaurant Griddle	Natural_Gas	Stock	001	002	006	1	1			0.65
Commercial Restaurant Griddle	Natural_Gas	Standard	001	002	006	1	2			0.35
Commercial Restaurant Griddle	Electric	Stock	001	002	006	2	1			0.65
Commercial Restaurant Griddle	Electric	Standard	001	002	006	2	2			0.35
Commercial Restaurant Other_Cooking	Natural_Gas	Stock	001	002	007	1	1			0.65
Commercial Restaurant Other_Cooking	Natural_Gas	Standard	001	002	007	1	2			0.35
Commercial Restaurant Other_Cooking	Electric	Stock	001	002	007	2	1			0.65
Commercial Restaurant Other_Cooking	Electric	Standard	001	002	007	2	2			0.35
Commercial Restaurant AC_Compressor	Natural_Gas	Stock	001	002	010	1	1			0.65
Commercial Restaurant AC_Compressor	Natural_Gas	Standard	001	002	010	1	2			0.35
Commercial Restaurant AC_Compressor	Electric	Stock	001	002	010	2	1			0.65
Commercial Restaurant AC_Compressor	Electric	Standard	001	002	010	2	2			0.35
Commercial Restaurant Other	Natural_Gas	Stock	001	002	011	1	1			1
Commercial Retail	Space_Heat	Natural_Gas	Stock	001	003	001	1	1		0.65
Commercial Retail	Space_Heat	Natural_Gas	Standard	001	003	001	1	2		0.3
Commercial Retail	Space_Heat	Natural_Gas	High	001	003	001	1	3		0.04
Commercial Retail	Space_Heat	Natural_Gas	Premium	001	003	001	1	4		0.01

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial Retail	Space_Heat	Electric	Stock	001	003	001	2	1	1	1
Commercial Retail	Water_Heat	Natural_Gas	Stock	001	003	002	1	1	1	0.4
Commercial Retail	Water_Heat	Natural_Gas	Standard	001	003	002	1	2	2	0.5
Commercial Retail	Water_Heat	Natural_Gas	High	001	003	002	1	3	3	0.08
Commercial Retail	Water_Heat	Natural_Gas	Premium	001	003	002	1	4	4	0.02
Commercial Retail	Water_Heat	Electric	Stock	001	003	002	2	1	1	0.4
Commercial Retail	Water_Heat	Electric	Standard	001	003	002	2	2	2	0.5
Commercial Retail	Water_Heat	Electric	High	001	003	002	2	3	3	0.08
Commercial Retail	Water_Heat	Electric	Premium	001	003	002	2	4	4	0.02
Commercial Retail	Cooking	Natural_Gas	Stock	001	003	003	1	1	1	0.65
Commercial Retail	Cooking	Natural_Gas	Standard	001	003	003	1	2	2	0.35
Commercial Retail	Cooking	Electric	Stock	001	003	003	2	1	1	0.65
Commercial Retail	Cooking	Electric	Standard	001	003	003	2	2	2	0.35
Commercial Retail	Other	Natural_Gas	Stock	001	003	011	1	1	1	1
Commercial Laundry	Space_Heat	Natural_Gas	Stock	001	004	001	1	1	1	0.65
Commercial Laundry	Space_Heat	Natural_Gas	Standard	001	004	001	1	2	2	0.3
Commercial Laundry	Space_Heat	Natural_Gas	High	001	004	001	1	3	3	0.04
Commercial Laundry	Space_Heat	Natural_Gas	Premium	001	004	001	1	4	4	0.01
Commercial Laundry	Space_Heat	Electric	Stock	001	004	001	2	1	1	1
Commercial Laundry	Water_Heat	Natural_Gas	Stock	001	004	002	1	1	1	0.4
Commercial Laundry	Water_Heat	Natural_Gas	Standard	001	004	002	1	2	2	0.5
Commercial Laundry	Water_Heat	Natural_Gas	High	001	004	002	1	3	3	0.08
Commercial Laundry	Water_Heat	Natural_Gas	Premium	001	004	002	1	4	4	0.02
Commercial Laundry	Water_Heat	Electric	Stock	001	004	002	2	1	1	0.4
Commercial Laundry	Water_Heat	Electric	Standard	001	004	002	2	2	2	0.5
Commercial Laundry	Water_Heat	Electric	High	001	004	002	2	3	3	0.08
Commercial Laundry	Water_Heat	Electric	Premium	001	004	002	2	4	4	0.02
Commercial Laundry	Drying	Natural_Gas	Stock	001	004	008	1	1	1	0.65
Commercial Laundry	Drying	Natural_Gas	Standard	001	004	008	1	2	2	0.35
Commercial Laundry	Drying	Electric	Stock	001	004	008	2	1	1	0.65

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial Laundry	Drying	Electric	Standard	001	004	008	2	2		0.35
Commercial Laundry	Other	Natural_Gas	Stock	001	004	011	1	1		1
Commercial Warehouse	Space_Heat	Natural_Gas	Stock	001	005	001	1	1		0.65
Commercial Warehouse	Space_Heat	Natural_Gas	Standard	001	005	001	1	2		0.3
Commercial Warehouse	Space_Heat	Natural_Gas	High	001	005	001	1	3		0.04
Commercial Warehouse	Space_Heat	Natural_Gas	Premium	001	005	001	1	4		0.01
Commercial Warehouse	Space_Heat	Electric	Stock	001	005	001	2	1		1
Commercial Warehouse	Water_Heat	Natural_Gas	Stock	001	005	002	1	1		0.4
Commercial Warehouse	Water_Heat	Natural_Gas	Standard	001	005	002	1	2		0.5
Commercial Warehouse	Water_Heat	Natural_Gas	High	001	005	002	1	3		0.08
Commercial Warehouse	Water_Heat	Natural_Gas	Premium	001	005	002	1	4		0.02
Commercial Warehouse	Water_Heat	Electric	Stock	001	005	002	2	1		0.4
Commercial Warehouse	Water_Heat	Electric	Standard	001	005	002	2	2		0.5
Commercial Warehouse	Water_Heat	Electric	High	001	005	002	2	3		0.08
Commercial Warehouse	Water_Heat	Electric	Premium	001	005	002	2	4		0.02
Commercial Warehouse	Engine	Natural_Gas	Stock	001	005	009	1	1		0.65
Commercial Warehouse	Engine	Natural_Gas	Standard	001	005	009	1	2		0.35
Commercial Warehouse	Engine	Electric	Stock	001	005	009	2	1		0.65
Commercial Warehouse	Engine	Electric	Standard	001	005	009	2	2		0.35
Commercial Warehouse	Other	Natural_Gas	Stock	001	005	011	1	1		1
Commercial School	Space_Heat	Natural_Gas	Stock	001	006	001	1	1		0.65
Commercial School	Space_Heat	Natural_Gas	Standard	001	006	001	1	2		0.3
Commercial School	Space_Heat	Natural_Gas	High	001	006	001	1	3		0.04
Commercial School	Space_Heat	Natural_Gas	Premium	001	006	001	1	4		0.01
Commercial School	Space_Heat	Electric	Stock	001	006	001	2	1		1
Commercial School	Water_Heat	Natural_Gas	Stock	001	006	002	1	1		0.4
Commercial School	Water_Heat	Natural_Gas	Standard	001	006	002	1	2		0.5
Commercial School	Water_Heat	Natural_Gas	High	001	006	002	1	3		0.08
Commercial School	Water_Heat	Natural_Gas	Premium	001	006	002	1	4		0.02
Commercial School	Water_Heat	Electric	Stock	001	006	002	2	1		0.4

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial School	Water_Heat	Electric	Standard	001	006	002	2	2	2	0.5
Commercial School	Water_Heat	Electric	High	001	006	002	2	3	3	0.08
Commercial School	Water_Heat	Electric	Premium	001	006	002	2	4	4	0.02
Commercial School	Cook_top	Natural_Gas	Stock	001	006	004	1	1	1	0.65
Commercial School	Cook_top	Natural_Gas	Standard	001	006	004	1	2	2	0.35
Commercial School	Cook_top	Electric	Stock	001	006	004	2	1	1	0.65
Commercial School	Cook_top	Electric	Standard	001	006	004	2	2	2	0.35
Commercial School	Fryer	Natural_Gas	Stock	001	006	005	1	1	1	0.65
Commercial School	Fryer	Natural_Gas	Standard	001	006	005	1	2	2	0.35
Commercial School	Fryer	Electric	Stock	001	006	005	2	1	1	0.65
Commercial School	Fryer	Electric	Standard	001	006	005	2	2	2	0.35
Commercial School	Griddle	Natural_Gas	Stock	001	006	006	1	1	1	0.65
Commercial School	Griddle	Natural_Gas	Standard	001	006	006	1	2	2	0.35
Commercial School	Griddle	Electric	Stock	001	006	006	2	1	1	0.65
Commercial School	Griddle	Electric	Standard	001	006	006	2	2	2	0.35
Commercial School	Other_Cooking	Natural_Gas	Stock	001	006	007	1	1	1	0.65
Commercial School	Other_Cooking	Natural_Gas	Standard	001	006	007	1	2	2	0.35
Commercial School	Other_Cooking	Electric	Stock	001	006	007	2	1	1	0.65
Commercial School	Other_Cooking	Electric	Standard	001	006	007	2	2	2	0.35
Commercial School	AC_Compressor	Natural_Gas	Stock	001	006	010	1	1	1	0.65
Commercial School	AC_Compressor	Natural_Gas	Standard	001	006	010	1	2	2	0.35
Commercial School	AC_Compressor	Electric	Stock	001	006	010	2	1	1	0.65
Commercial School	AC_Compressor	Electric	Standard	001	006	010	2	2	2	0.35
Commercial School	Other	Natural_Gas	Stock	001	006	011	1	1	1	1
Commercial College	Space_Heat	Natural_Gas	Stock	001	007	001	1	1	1	0.65
Commercial College	Space_Heat	Natural_Gas	Standard	001	007	001	1	2	2	0.3
Commercial College	Space_Heat	Natural_Gas	High	001	007	001	1	3	3	0.04
Commercial College	Space_Heat	Natural_Gas	Premium	001	007	001	1	4	4	0.01
Commercial College	Space_Heat	Electric	Stock	001	007	001	2	1	1	1
Commercial College	Water_Heat	Natural_Gas	Stock	001	007	002	1	1	1	0.4

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial	College	Water_Heat	Natural_Gas	Standard	001	007	002	1	2	0.5
Commercial	College	Water_Heat	Natural_Gas	High	001	007	002	1	3	0.08
Commercial	College	Water_Heat	Natural_Gas	Premium	001	007	002	1	4	0.02
Commercial	College	Water_Heat	Electric	Stock	001	007	002	2	1	0.4
Commercial	College	Water_Heat	Electric	Standard	001	007	002	2	2	0.5
Commercial	College	Water_Heat	Electric	High	001	007	002	2	3	0.08
Commercial	College	Water_Heat	Electric	Premium	001	007	002	2	4	0.02
Commercial	College	Cook_top	Natural_Gas	Stock	001	007	004	1	1	0.65
Commercial	College	Cook_top	Natural_Gas	Standard	001	007	004	1	2	0.35
Commercial	College	Cook_top	Electric	Stock	001	007	004	2	1	0.65
Commercial	College	Cook_top	Electric	Standard	001	007	004	2	2	0.35
Commercial	College	Fryer	Natural_Gas	Stock	001	007	005	1	1	0.65
Commercial	College	Fryer	Natural_Gas	Standard	001	007	005	1	2	0.35
Commercial	College	Fryer	Electric	Stock	001	007	005	2	1	0.65
Commercial	College	Fryer	Electric	Standard	001	007	005	2	2	0.35
Commercial	College	Griddle	Natural_Gas	Stock	001	007	006	1	1	0.65
Commercial	College	Griddle	Natural_Gas	Standard	001	007	006	1	2	0.35
Commercial	College	Griddle	Electric	Stock	001	007	006	2	1	0.65
Commercial	College	Griddle	Electric	Standard	001	007	006	2	2	0.35
Commercial	College	Other_Cooking	Natural_Gas	Stock	001	007	007	1	1	0.65
Commercial	College	Other_Cooking	Natural_Gas	Standard	001	007	007	1	2	0.35
Commercial	College	Other_Cooking	Electric	Stock	001	007	007	2	1	0.65
Commercial	College	Other_Cooking	Electric	Standard	001	007	007	2	2	0.35
Commercial	College	AC_Compressor	Natural_Gas	Stock	001	007	010	1	1	0.65
Commercial	College	AC_Compressor	Natural_Gas	Standard	001	007	010	1	2	0.35
Commercial	College	AC_Compressor	Electric	Stock	001	007	010	2	1	0.65
Commercial	College	AC_Compressor	Electric	Standard	001	007	010	2	2	0.35
Commercial	College	Other	Natural_Gas	Stock	001	007	011	1	1	1
Commercial	Health	Space_Heat	Natural_Gas	Stock	001	008	001	1	1	0.65
Commercial	Health	Space_Heat	Natural_Gas	Standard	001	008	001	1	2	0.3

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial	Health	Space_Heat	Natural_Gas	High	001	008	001	1	3	0.04
Commercial	Health	Space_Heat	Natural_Gas	Premium	001	008	001	1	4	0.01
Commercial	Health	Space_Heat	Electric	Stock	001	008	001	2	1	1
Commercial	Health	Water_Heat	Natural_Gas	Stock	001	008	002	1	1	0.4
Commercial	Health	Water_Heat	Natural_Gas	Standard	001	008	002	1	2	0.5
Commercial	Health	Water_Heat	Natural_Gas	High	001	008	002	1	3	0.08
Commercial	Health	Water_Heat	Natural_Gas	Premium	001	008	002	1	4	0.02
Commercial	Health	Water_Heat	Electric	Stock	001	008	002	2	1	0.4
Commercial	Health	Water_Heat	Electric	Standard	001	008	002	2	2	0.5
Commercial	Health	Water_Heat	Electric	High	001	008	002	2	3	0.08
Commercial	Health	Water_Heat	Electric	Premium	001	008	002	2	4	0.02
Commercial	Health	Cook_top	Natural_Gas	Stock	001	008	004	1	1	0.65
Commercial	Health	Cook_top	Natural_Gas	Standard	001	008	004	1	2	0.35
Commercial	Health	Cook_top	Electric	Stock	001	008	004	2	1	0.65
Commercial	Health	Cook_top	Electric	Standard	001	008	004	2	2	0.35
Commercial	Health	Fryer	Natural_Gas	Stock	001	008	005	1	1	0.65
Commercial	Health	Fryer	Natural_Gas	Standard	001	008	005	1	2	0.35
Commercial	Health	Fryer	Electric	Stock	001	008	005	2	1	0.65
Commercial	Health	Fryer	Electric	Standard	001	008	005	2	2	0.35
Commercial	Health	Griddle	Natural_Gas	Stock	001	008	006	1	1	0.65
Commercial	Health	Griddle	Natural_Gas	Standard	001	008	006	1	2	0.35
Commercial	Health	Griddle	Electric	Stock	001	008	006	2	1	0.65
Commercial	Health	Griddle	Electric	Standard	001	008	006	2	2	0.35
Commercial	Health	Other_Cooking	Natural_Gas	Stock	001	008	007	1	1	0.65
Commercial	Health	Other_Cooking	Natural_Gas	Standard	001	008	007	1	2	0.35
Commercial	Health	Other_Cooking	Electric	Stock	001	008	007	2	1	0.65
Commercial	Health	Other_Cooking	Electric	Standard	001	008	007	2	2	0.35
Commercial	Health	Drying	Natural_Gas	Stock	001	008	008	1	1	0.65
Commercial	Health	Drying	Natural_Gas	Standard	001	008	008	1	2	0.35
Commercial	Health	Drying	Electric	Stock	001	008	008	2	1	0.65

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial	Health	Drying	Electric	Standard	001	008	008	2	2	0.35
Commercial	Health	AC_Compressor	Natural_Gas	Stock	001	008	010	1	1	0.65
Commercial	Health	AC_Compressor	Natural_Gas	Standard	001	008	010	1	2	0.35
Commercial	Health	AC_Compressor	Electric	Stock	001	008	010	2	1	0.65
Commercial	Health	AC_Compressor	Electric	Standard	001	008	010	2	2	0.35
Commercial	Health	Other	Natural_Gas	Stock	001	008	011	1	1	1
Commercial	Lodging	Space_Heat	Natural_Gas	Stock	001	009	001	1	1	0.65
Commercial	Lodging	Space_Heat	Natural_Gas	Standard	001	009	001	1	2	0.3
Commercial	Lodging	Space_Heat	Natural_Gas	High	001	009	001	1	3	0.04
Commercial	Lodging	Space_Heat	Natural_Gas	Premium	001	009	001	1	4	0.01
Commercial	Lodging	Space_Heat	Electric	Stock	001	009	001	2	1	1
Commercial	Lodging	Water_Heat	Natural_Gas	Stock	001	009	002	1	1	0.4
Commercial	Lodging	Water_Heat	Natural_Gas	Standard	001	009	002	1	2	0.5
Commercial	Lodging	Water_Heat	Natural_Gas	High	001	009	002	1	3	0.08
Commercial	Lodging	Water_Heat	Natural_Gas	Premium	001	009	002	1	4	0.02
Commercial	Lodging	Water_Heat	Electric	Stock	001	009	002	2	1	0.4
Commercial	Lodging	Water_Heat	Electric	Standard	001	009	002	2	2	0.5
Commercial	Lodging	Water_Heat	Electric	High	001	009	002	2	3	0.08
Commercial	Lodging	Water_Heat	Electric	Premium	001	009	002	2	4	0.02
Commercial	Lodging	Cook_top	Natural_Gas	Stock	001	009	004	1	1	0.65
Commercial	Lodging	Cook_top	Natural_Gas	Standard	001	009	004	1	2	0.35
Commercial	Lodging	Cook_top	Electric	Stock	001	009	004	2	1	0.65
Commercial	Lodging	Cook_top	Electric	Standard	001	009	004	2	2	0.35
Commercial	Lodging	Fryer	Natural_Gas	Stock	001	009	005	1	1	0.65
Commercial	Lodging	Fryer	Natural_Gas	Standard	001	009	005	1	2	0.35
Commercial	Lodging	Fryer	Electric	Stock	001	009	005	2	1	0.65
Commercial	Lodging	Fryer	Electric	Standard	001	009	005	2	2	0.35
Commercial	Lodging	Griddle	Natural_Gas	Stock	001	009	006	1	1	0.65
Commercial	Lodging	Griddle	Natural_Gas	Standard	001	009	006	1	2	0.35
Commercial	Lodging	Griddle	Electric	Stock	001	009	006	2	1	0.65

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial Lodging	Griddle	Electric	Standard	001	009	006	2	2	0.35	
Commercial Lodging	Other_Cooking	Natural_Gas	Stock	001	009	007	1	1	0.65	
Commercial Lodging	Other_Cooking	Natural_Gas	Standard	001	009	007	1	2	0.35	
Commercial Lodging	Other_Cooking	Electric	Stock	001	009	007	2	1	0.65	
Commercial Lodging	Other_Cooking	Electric	Standard	001	009	007	2	2	0.35	
Commercial Lodging	Drying	Natural_Gas	Stock	001	009	008	1	1	0.65	
Commercial Lodging	Drying	Natural_Gas	Standard	001	009	008	1	2	0.35	
Commercial Lodging	Drying	Electric	Stock	001	009	008	2	1	0.65	
Commercial Lodging	Drying	Electric	Standard	001	009	008	2	2	0.35	
Commercial Lodging	AC_Compressor	Natural_Gas	Stock	001	009	010	1	1	0.65	
Commercial Lodging	AC_Compressor	Natural_Gas	Standard	001	009	010	1	2	0.35	
Commercial Lodging	AC_Compressor	Electric	Stock	001	009	010	2	1	0.65	
Commercial Lodging	AC_Compressor	Electric	Standard	001	009	010	2	2	0.35	
Commercial Lodging	Other	Natural_Gas	Stock	001	009	011	1	1	1	
Commercial Misc	Space_Heat	Natural_Gas	Stock	001	010	001	1	1	0.65	
Commercial Misc	Space_Heat	Natural_Gas	Standard	001	010	001	1	2	0.3	
Commercial Misc	Space_Heat	Natural_Gas	High	001	010	001	1	3	0.04	
Commercial Misc	Space_Heat	Natural_Gas	Premium	001	010	001	1	4	0.01	
Commercial Misc	Space_Heat	Electric	Stock	001	010	001	2	1	1	
Commercial Misc	Water_Heat	Natural_Gas	Stock	001	010	002	1	1	0.4	
Commercial Misc	Water_Heat	Natural_Gas	Standard	001	010	002	1	2	0.5	
Commercial Misc	Water_Heat	Natural_Gas	High	001	010	002	1	3	0.08	
Commercial Misc	Water_Heat	Natural_Gas	Premium	001	010	002	1	4	0.02	
Commercial Misc	Water_Heat	Electric	Stock	001	010	002	2	1	0.4	
Commercial Misc	Water_Heat	Electric	Standard	001	010	002	2	2	0.5	
Commercial Misc	Water_Heat	Electric	High	001	010	002	2	3	0.08	
Commercial Misc	Water_Heat	Electric	Premium	001	010	002	2	4	0.02	
Commercial Misc	Cook_top	Natural_Gas	Stock	001	010	004	1	1	0.65	
Commercial Misc	Cook_top	Natural_Gas	Standard	001	010	004	1	2	0.35	
Commercial Misc	Cook_top	Electric	Stock	001	010	004	2	1	0.65	

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial Misc		Cook_top	Electric	Standard	001	010	004	2	2	0.35
Commercial Misc		Fryer	Natural_Gas	Stock	001	010	005	1	1	0.65
Commercial Misc		Fryer	Natural_Gas	Standard	001	010	005	1	2	0.35
Commercial Misc		Fryer	Electric	Stock	001	010	005	2	1	0.65
Commercial Misc		Fryer	Electric	Standard	001	010	005	2	2	0.35
Commercial Misc		Griddle	Natural_Gas	Stock	001	010	006	1	1	0.65
Commercial Misc		Griddle	Natural_Gas	Standard	001	010	006	1	2	0.35
Commercial Misc		Griddle	Electric	Stock	001	010	006	2	1	0.65
Commercial Misc		Griddle	Electric	Standard	001	010	006	2	2	0.35
Commercial Misc		Other_Cooking	Natural_Gas	Stock	001	010	007	1	1	0.65
Commercial Misc		Other_Cooking	Natural_Gas	Standard	001	010	007	1	2	0.35
Commercial Misc		Other_Cooking	Electric	Stock	001	010	007	2	1	0.65
Commercial Misc		Other_Cooking	Electric	Standard	001	010	007	2	2	0.35
Commercial Misc		AC_Compressor	Natural_Gas	Stock	001	010	010	1	1	0.65
Commercial Misc		AC_Compressor	Natural_Gas	Standard	001	010	010	1	2	0.35
Commercial Misc		AC_Compressor	Electric	Stock	001	010	010	2	1	0.65
Commercial Misc		AC_Compressor	Electric	Standard	001	010	010	2	2	0.35
Commercial Misc		Other	Natural_Gas	Stock	001	010	011	1	1	1
Commercial Governme		Space_Heat	Natural_Gas	Stock	001	011	001	1	1	0.65
Commercial Governme		Space_Heat	Natural_Gas	Standard	001	011	001	1	2	0.3
Commercial Governme		Space_Heat	Natural_Gas	High	001	011	001	1	3	0.04
Commercial Governme		Space_Heat	Natural_Gas	Premium	001	011	001	1	4	0.01
Commercial Governme		Space_Heat	Electric	Stock	001	011	001	2	1	1
Commercial Governme		Water_Heat	Natural_Gas	Stock	001	011	002	1	1	0.4
Commercial Governme		Water_Heat	Natural_Gas	Standard	001	011	002	1	2	0.5
Commercial Governme		Water_Heat	Natural_Gas	High	001	011	002	1	3	0.08
Commercial Governme		Water_Heat	Natural_Gas	Premium	001	011	002	1	4	0.02
Commercial Governme		Water_Heat	Electric	Stock	001	011	002	2	1	0.4
Commercial Governme		Water_Heat	Electric	Standard	001	011	002	2	2	0.5
Commercial Governme		Water_Heat	Electric	High	001	011	002	2	3	0.08

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial Governme	Water_Heat	Electric	Premium	001	011	002	2	4	0.02	
Commercial Governme	Cook_top	Natural_Gas	Stock	001	011	004	1	1	0.65	
Commercial Governme	Cook_top	Natural_Gas	Standard	001	011	004	1	2	0.35	
Commercial Governme	Cook_top	Electric	Stock	001	011	004	2	1	0.65	
Commercial Governme	Cook_top	Electric	Standard	001	011	004	2	2	0.35	
Commercial Governme	Fryer	Natural_Gas	Stock	001	011	005	1	1	0.65	
Commercial Governme	Fryer	Natural_Gas	Standard	001	011	005	1	2	0.35	
Commercial Governme	Fryer	Electric	Stock	001	011	005	2	1	0.65	
Commercial Governme	Fryer	Electric	Standard	001	011	005	2	2	0.35	
Commercial Governme	Griddle	Natural_Gas	Stock	001	011	006	1	1	0.65	
Commercial Governme	Griddle	Natural_Gas	Standard	001	011	006	1	2	0.35	
Commercial Governme	Griddle	Electric	Stock	001	011	006	2	1	0.65	
Commercial Governme	Griddle	Electric	Standard	001	011	006	2	2	0.35	
Commercial Governme	Other_Cooking	Natural_Gas	Stock	001	011	007	1	1	0.65	
Commercial Governme	Other_Cooking	Natural_Gas	Standard	001	011	007	1	2	0.35	
Commercial Governme	Other_Cooking	Electric	Stock	001	011	007	2	1	0.65	
Commercial Governme	Other_Cooking	Electric	Standard	001	011	007	2	2	0.35	
Commercial Governme	AC_Compressor	Natural_Gas	Stock	001	011	010	1	1	0.65	
Commercial Governme	AC_Compressor	Natural_Gas	Standard	001	011	010	1	2	0.35	
Commercial Governme	AC_Compressor	Electric	Stock	001	011	010	2	1	0.65	
Commercial Governme	AC_Compressor	Electric	Standard	001	011	010	2	2	0.35	
Commercial Governme	Other	Natural_Gas	Stock	001	011	011	1	1	1	
Commercial TCU	Space_Heat	Natural_Gas	Stock	001	012	001	1	1	0.65	
Commercial TCU	Space_Heat	Natural_Gas	Standard	001	012	001	1	2	0.3	
Commercial TCU	Space_Heat	Natural_Gas	High	001	012	001	1	3	0.04	
Commercial TCU	Space_Heat	Natural_Gas	Premium	001	012	001	1	4	0.01	
Commercial TCU	Space_Heat	Electric	Stock	001	012	001	2	1	1	
Commercial TCU	Water_Heat	Natural_Gas	Stock	001	012	002	1	1	0.4	
Commercial TCU	Water_Heat	Natural_Gas	Standard	001	012	002	1	2	0.5	
Commercial TCU	Water_Heat	Natural_Gas	High	001	012	002	1	3	0.08	

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial	TCU	Water_Heat	Natural_Gas	Premium	001	012	002	1	4	0.02
Commercial	TCU	Water_Heat	Electric	Stock	001	012	002	2	1	0.4
Commercial	TCU	Water_Heat	Electric	Standard	001	012	002	2	2	0.5
Commercial	TCU	Water_Heat	Electric	High	001	012	002	2	3	0.08
Commercial	TCU	Water_Heat	Electric	Premium	001	012	002	2	4	0.02
Commercial	TCU	Engine	Natural_Gas	Stock	001	012	009	1	1	0.65
Commercial	TCU	Engine	Natural_Gas	Standard	001	012	009	1	2	0.35
Commercial	TCU	Engine	Electric	Stock	001	012	009	2	1	0.65
Commercial	TCU	Engine	Electric	Standard	001	012	009	2	2	0.35
Commercial	TCU	Other	Natural_Gas	Stock	001	012	011	1	1	1
Commercial	Constructic	Space_Heat	Natural_Gas	Stock	001	013	001	1	1	0.65
Commercial	Constructic	Space_Heat	Natural_Gas	Standard	001	013	001	1	2	0.3
Commercial	Constructic	Space_Heat	Natural_Gas	High	001	013	001	1	3	0.04
Commercial	Constructic	Space_Heat	Natural_Gas	Premium	001	013	001	1	4	0.01
Commercial	Constructic	Space_Heat	Electric	Stock	001	013	001	2	1	1
Commercial	Constructic	Water_Heat	Natural_Gas	Stock	001	013	002	1	1	0.4
Commercial	Constructic	Water_Heat	Natural_Gas	Standard	001	013	002	1	2	0.5
Commercial	Constructic	Water_Heat	Natural_Gas	High	001	013	002	1	3	0.08
Commercial	Constructic	Water_Heat	Natural_Gas	Premium	001	013	002	1	4	0.02
Commercial	Constructic	Water_Heat	Electric	Stock	001	013	002	2	1	0.4
Commercial	Constructic	Water_Heat	Electric	Standard	001	013	002	2	2	0.5
Commercial	Constructic	Water_Heat	Electric	High	001	013	002	2	3	0.08
Commercial	Constructic	Water_Heat	Electric	Premium	001	013	002	2	4	0.02
Commercial	Constructic	Other	Natural_Gas	Stock	001	013	011	1	1	1
Commercial	Agriculture	Space_Heat	Natural_Gas	Stock	001	014	001	1	1	0.65
Commercial	Agriculture	Space_Heat	Natural_Gas	Standard	001	014	001	1	2	0.3
Commercial	Agriculture	Space_Heat	Natural_Gas	High	001	014	001	1	3	0.04
Commercial	Agriculture	Space_Heat	Natural_Gas	Premium	001	014	001	1	4	0.01
Commercial	Agriculture	Space_Heat	Electric	Stock	001	014	001	2	1	1
Commercial	Agriculture	Water_Heat	Natural_Gas	Stock	001	014	002	1	1	0.4

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	baseMargEShareNew
Commercial Agriculture Water_Heat	Natural_Gas	Standard	001	014	002	1	2			0.5
Commercial Agriculture Water_Heat	Natural_Gas	High	001	014	002	1	3			0.08
Commercial Agriculture Water_Heat	Natural_Gas	Premium	001	014	002	1	4			0.02
Commercial Agriculture Water_Heat	Electric	Stock	001	014	002	2	1			0.4
Commercial Agriculture Water_Heat	Electric	Standard	001	014	002	2	2			0.5
Commercial Agriculture Water_Heat	Electric	High	001	014	002	2	3			0.08
Commercial Agriculture Water_Heat	Electric	Premium	001	014	002	2	4			0.02
Commercial Agriculture Drying	Natural_Gas	Stock	001	014	008	1	1			0.65
Commercial Agriculture Drying	Natural_Gas	Standard	001	014	008	1	2			0.35
Commercial Agriculture Drying	Electric	Stock	001	014	008	2	1			0.65
Commercial Agriculture Drying	Electric	Standard	001	014	008	2	2			0.35
Commercial Agriculture Engine	Natural_Gas	Stock	001	014	009	1	1			0.65
Commercial Agriculture Engine	Natural_Gas	Standard	001	014	009	1	2			0.35
Commercial Agriculture Engine	Electric	Stock	001	014	009	2	1			0.65
Commercial Agriculture Engine	Electric	Standard	001	014	009	2	2			0.35
Commercial Agriculture Other	Natural_Gas	Stock	001	014	011	1	1			1

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial Office	Space_Heat	Natural_Gas	Stock	001	001	001	1	1	1	0.002739726
Commercial Office	Space_Heat	Natural_Gas	Standard	001	001	001	1	2	2	0.002739726
Commercial Office	Space_Heat	Natural_Gas	High	001	001	001	1	3	3	0.002739726
Commercial Office	Space_Heat	Natural_Gas	Premium	001	001	001	1	4	4	0.002739726
Commercial Office	Space_Heat	Electric	Stock	001	001	001	2	1	1	0.002739726
Commercial Office	Water_Heat	Natural_Gas	Stock	001	001	002	1	1	1	0.002739726
Commercial Office	Water_Heat	Natural_Gas	Standard	001	001	002	1	2	2	0.002739726
Commercial Office	Water_Heat	Natural_Gas	High	001	001	002	1	3	3	0.002739726
Commercial Office	Water_Heat	Natural_Gas	Premium	001	001	002	1	4	4	0.002739726
Commercial Office	Water_Heat	Electric	Stock	001	001	002	2	1	1	0.002739726
Commercial Office	Water_Heat	Electric	Standard	001	001	002	2	2	2	0.002739726
Commercial Office	Water_Heat	Electric	High	001	001	002	2	3	3	0.002739726
Commercial Office	Water_Heat	Electric	Premium	001	001	002	2	4	4	0.002739726
Commercial Office	Cooking	Natural_Gas	Stock	001	001	003	1	1	1	0.002739726
Commercial Office	Cooking	Natural_Gas	Standard	001	001	003	1	2	2	0.002739726
Commercial Office	Cooking	Electric	Stock	001	001	003	2	1	1	0.002739726
Commercial Office	Cooking	Electric	Standard	001	001	003	2	2	2	0.002739726
Commercial Office	AC_Compressor	Natural_Gas	Stock	001	001	010	1	1	1	0.002739726
Commercial Office	AC_Compressor	Natural_Gas	Standard	001	001	010	1	2	2	0.002739726
Commercial Office	AC_Compressor	Electric	Stock	001	001	010	2	1	1	0.002739726
Commercial Office	AC_Compressor	Electric	Standard	001	001	010	2	2	2	0.002739726
Commercial Office	Other	Natural_Gas	Stock	001	001	011	1	1	1	0.002739726
Commercial Restaurant	Space_Heat	Natural_Gas	Stock	001	002	001	1	1	1	0.002739726
Commercial Restaurant	Space_Heat	Natural_Gas	Standard	001	002	001	1	2	2	0.002739726
Commercial Restaurant	Space_Heat	Natural_Gas	High	001	002	001	1	3	3	0.002739726
Commercial Restaurant	Space_Heat	Natural_Gas	Premium	001	002	001	1	4	4	0.002739726
Commercial Restaurant	Space_Heat	Electric	Stock	001	002	001	2	1	1	0.002739726
Commercial Restaurant	Water_Heat	Natural_Gas	Stock	001	002	002	1	1	1	0.002739726
Commercial Restaurant	Water_Heat	Natural_Gas	Standard	001	002	002	1	2	2	0.002739726
Commercial Restaurant	Water_Heat	Natural_Gas	High	001	002	002	1	3	3	0.002739726

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial Restaurant Water_Heat	Natural_Gas	Premium	001	002	002	1	4			0.002739726
Commercial Restaurant Water_Heat	Electric	Stock	001	002	002	2	1			0.002739726
Commercial Restaurant Water_Heat	Electric	Standard	001	002	002	2	2			0.002739726
Commercial Restaurant Water_Heat	Electric	High	001	002	002	2	3			0.002739726
Commercial Restaurant Water_Heat	Electric	Premium	001	002	002	2	4			0.002739726
Commercial Restaurant Cook_top	Natural_Gas	Stock	001	002	004	1	1			0.002739726
Commercial Restaurant Cook_top	Natural_Gas	Standard	001	002	004	1	2			0.002739726
Commercial Restaurant Cook_top	Electric	Stock	001	002	004	2	1			0.002739726
Commercial Restaurant Cook_top	Electric	Standard	001	002	004	2	2			0.002739726
Commercial Restaurant Fryer	Natural_Gas	Stock	001	002	005	1	1			0.002739726
Commercial Restaurant Fryer	Natural_Gas	Standard	001	002	005	1	2			0.002739726
Commercial Restaurant Fryer	Electric	Stock	001	002	005	2	1			0.002739726
Commercial Restaurant Fryer	Electric	Standard	001	002	005	2	2			0.002739726
Commercial Restaurant Griddle	Natural_Gas	Stock	001	002	006	1	1			0.002739726
Commercial Restaurant Griddle	Natural_Gas	Standard	001	002	006	1	2			0.002739726
Commercial Restaurant Griddle	Electric	Stock	001	002	006	2	1			0.002739726
Commercial Restaurant Griddle	Electric	Standard	001	002	006	2	2			0.002739726
Commercial Restaurant Other_Cooking	Natural_Gas	Stock	001	002	007	1	1			0.002739726
Commercial Restaurant Other_Cooking	Natural_Gas	Standard	001	002	007	1	2			0.002739726
Commercial Restaurant Other_Cooking	Electric	Stock	001	002	007	2	1			0.002739726
Commercial Restaurant Other_Cooking	Electric	Standard	001	002	007	2	2			0.002739726
Commercial Restaurant AC_Compressor	Natural_Gas	Stock	001	002	010	1	1			0.002739726
Commercial Restaurant AC_Compressor	Natural_Gas	Standard	001	002	010	1	2			0.002739726
Commercial Restaurant AC_Compressor	Electric	Stock	001	002	010	2	1			0.002739726
Commercial Restaurant AC_Compressor	Electric	Standard	001	002	010	2	2			0.002739726
Commercial Restaurant Other	Natural_Gas	Stock	001	002	011	1	1			0.002739726
Commercial Retail Space_Heat	Natural_Gas	Stock	001	003	001	1	1			0.002739726
Commercial Retail Space_Heat	Natural_Gas	Standard	001	003	001	1	2			0.002739726
Commercial Retail Space_Heat	Natural_Gas	High	001	003	001	1	3			0.002739726
Commercial Retail Space_Heat	Natural_Gas	Premium	001	003	001	1	4			0.002739726

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial Retail	Space_Heat	Electric	Stock	001	003	001	2	1		0.002739726
Commercial Retail	Water_Heat	Natural_Gas	Stock	001	003	002	1	1		0.002739726
Commercial Retail	Water_Heat	Natural_Gas	Standard	001	003	002	1	2		0.002739726
Commercial Retail	Water_Heat	Natural_Gas	High	001	003	002	1	3		0.002739726
Commercial Retail	Water_Heat	Natural_Gas	Premium	001	003	002	1	4		0.002739726
Commercial Retail	Water_Heat	Electric	Stock	001	003	002	2	1		0.002739726
Commercial Retail	Water_Heat	Electric	Standard	001	003	002	2	2		0.002739726
Commercial Retail	Water_Heat	Electric	High	001	003	002	2	3		0.002739726
Commercial Retail	Water_Heat	Electric	Premium	001	003	002	2	4		0.002739726
Commercial Retail	Cooking	Natural_Gas	Stock	001	003	003	1	1		0.002739726
Commercial Retail	Cooking	Natural_Gas	Standard	001	003	003	1	2		0.002739726
Commercial Retail	Cooking	Electric	Stock	001	003	003	2	1		0.002739726
Commercial Retail	Cooking	Electric	Standard	001	003	003	2	2		0.002739726
Commercial Retail	Other	Natural_Gas	Stock	001	003	011	1	1		0.002739726
Commercial Laundry	Space_Heat	Natural_Gas	Stock	001	004	001	1	1		0.002739726
Commercial Laundry	Space_Heat	Natural_Gas	Standard	001	004	001	1	2		0.002739726
Commercial Laundry	Space_Heat	Natural_Gas	High	001	004	001	1	3		0.002739726
Commercial Laundry	Space_Heat	Natural_Gas	Premium	001	004	001	1	4		0.002739726
Commercial Laundry	Space_Heat	Electric	Stock	001	004	001	2	1		0.002739726
Commercial Laundry	Water_Heat	Natural_Gas	Stock	001	004	002	1	1		0.002739726
Commercial Laundry	Water_Heat	Natural_Gas	Standard	001	004	002	1	2		0.002739726
Commercial Laundry	Water_Heat	Natural_Gas	High	001	004	002	1	3		0.002739726
Commercial Laundry	Water_Heat	Natural_Gas	Premium	001	004	002	1	4		0.002739726
Commercial Laundry	Water_Heat	Electric	Stock	001	004	002	2	1		0.002739726
Commercial Laundry	Water_Heat	Electric	Standard	001	004	002	2	2		0.002739726
Commercial Laundry	Water_Heat	Electric	High	001	004	002	2	3		0.002739726
Commercial Laundry	Water_Heat	Electric	Premium	001	004	002	2	4		0.002739726
Commercial Laundry	Drying	Natural_Gas	Stock	001	004	008	1	1		0.002739726
Commercial Laundry	Drying	Natural_Gas	Standard	001	004	008	1	2		0.002739726
Commercial Laundry	Drying	Electric	Stock	001	004	008	2	1		0.002739726

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial Laundry	Drying	Electric	Standard	001	004	008	2	2	0.002739726	
Commercial Laundry	Other	Natural_Gas	Stock	001	004	011	1	1	0.002739726	
Commercial Warehouse	Space_Heat	Natural_Gas	Stock	001	005	001	1	1	0.002739726	
Commercial Warehouse	Space_Heat	Natural_Gas	Standard	001	005	001	1	2	0.002739726	
Commercial Warehouse	Space_Heat	Natural_Gas	High	001	005	001	1	3	0.002739726	
Commercial Warehouse	Space_Heat	Natural_Gas	Premium	001	005	001	1	4	0.002739726	
Commercial Warehouse	Space_Heat	Electric	Stock	001	005	001	2	1	0.002739726	
Commercial Warehouse	Water_Heat	Natural_Gas	Stock	001	005	002	1	1	0.002739726	
Commercial Warehouse	Water_Heat	Natural_Gas	Standard	001	005	002	1	2	0.002739726	
Commercial Warehouse	Water_Heat	Natural_Gas	High	001	005	002	1	3	0.002739726	
Commercial Warehouse	Water_Heat	Natural_Gas	Premium	001	005	002	1	4	0.002739726	
Commercial Warehouse	Water_Heat	Electric	Stock	001	005	002	2	1	0.002739726	
Commercial Warehouse	Water_Heat	Electric	Standard	001	005	002	2	2	0.002739726	
Commercial Warehouse	Water_Heat	Electric	High	001	005	002	2	3	0.002739726	
Commercial Warehouse	Water_Heat	Electric	Premium	001	005	002	2	4	0.002739726	
Commercial Warehouse	Engine	Natural_Gas	Stock	001	005	009	1	1	0.002739726	
Commercial Warehouse	Engine	Natural_Gas	Standard	001	005	009	1	2	0.002739726	
Commercial Warehouse	Engine	Electric	Stock	001	005	009	2	1	0.002739726	
Commercial Warehouse	Engine	Electric	Standard	001	005	009	2	2	0.002739726	
Commercial Warehouse	Other	Natural_Gas	Stock	001	005	011	1	1	0.002739726	
Commercial School	Space_Heat	Natural_Gas	Stock	001	006	001	1	1	0.002739726	
Commercial School	Space_Heat	Natural_Gas	Standard	001	006	001	1	2	0.002739726	
Commercial School	Space_Heat	Natural_Gas	High	001	006	001	1	3	0.002739726	
Commercial School	Space_Heat	Natural_Gas	Premium	001	006	001	1	4	0.002739726	
Commercial School	Space_Heat	Electric	Stock	001	006	001	2	1	0.002739726	
Commercial School	Water_Heat	Natural_Gas	Stock	001	006	002	1	1	0.002739726	
Commercial School	Water_Heat	Natural_Gas	Standard	001	006	002	1	2	0.002739726	
Commercial School	Water_Heat	Natural_Gas	High	001	006	002	1	3	0.002739726	
Commercial School	Water_Heat	Natural_Gas	Premium	001	006	002	1	4	0.002739726	
Commercial School	Water_Heat	Electric	Stock	001	006	002	2	1	0.002739726	

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial School	Water_Heat	Electric	Standard	001	006	002	2	2	2	0.002739726
Commercial School	Water_Heat	Electric	High	001	006	002	2	3	3	0.002739726
Commercial School	Water_Heat	Electric	Premium	001	006	002	2	4	4	0.002739726
Commercial School	Cook_top	Natural_Gas	Stock	001	006	004	1	1	1	0.002739726
Commercial School	Cook_top	Natural_Gas	Standard	001	006	004	1	2	2	0.002739726
Commercial School	Cook_top	Electric	Stock	001	006	004	2	1	1	0.002739726
Commercial School	Cook_top	Electric	Standard	001	006	004	2	2	2	0.002739726
Commercial School	Fryer	Natural_Gas	Stock	001	006	005	1	1	1	0.002739726
Commercial School	Fryer	Natural_Gas	Standard	001	006	005	1	2	2	0.002739726
Commercial School	Fryer	Electric	Stock	001	006	005	2	1	1	0.002739726
Commercial School	Fryer	Electric	Standard	001	006	005	2	2	2	0.002739726
Commercial School	Griddle	Natural_Gas	Stock	001	006	006	1	1	1	0.002739726
Commercial School	Griddle	Natural_Gas	Standard	001	006	006	1	2	2	0.002739726
Commercial School	Griddle	Electric	Stock	001	006	006	2	1	1	0.002739726
Commercial School	Griddle	Electric	Standard	001	006	006	2	2	2	0.002739726
Commercial School	Other_Cooking	Natural_Gas	Stock	001	006	007	1	1	1	0.002739726
Commercial School	Other_Cooking	Natural_Gas	Standard	001	006	007	1	2	2	0.002739726
Commercial School	Other_Cooking	Electric	Stock	001	006	007	2	1	1	0.002739726
Commercial School	Other_Cooking	Electric	Standard	001	006	007	2	2	2	0.002739726
Commercial School	AC_Compressor	Natural_Gas	Stock	001	006	010	1	1	1	0.002739726
Commercial School	AC_Compressor	Natural_Gas	Standard	001	006	010	1	2	2	0.002739726
Commercial School	AC_Compressor	Electric	Stock	001	006	010	2	1	1	0.002739726
Commercial School	AC_Compressor	Electric	Standard	001	006	010	2	2	2	0.002739726
Commercial School	Other	Natural_Gas	Stock	001	006	011	1	1	1	0.002739726
Commercial College	Space_Heat	Natural_Gas	Stock	001	007	001	1	1	1	0.002739726
Commercial College	Space_Heat	Natural_Gas	Standard	001	007	001	1	2	2	0.002739726
Commercial College	Space_Heat	Natural_Gas	High	001	007	001	1	3	3	0.002739726
Commercial College	Space_Heat	Natural_Gas	Premium	001	007	001	1	4	4	0.002739726
Commercial College	Space_Heat	Electric	Stock	001	007	001	2	1	1	0.002739726
Commercial College	Water_Heat	Natural_Gas	Stock	001	007	002	1	1	1	0.002739726

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial College	Water_Heat	Natural_Gas	Standard	001	007	002	1	2	0.002739726	
Commercial College	Water_Heat	Natural_Gas	High	001	007	002	1	3	0.002739726	
Commercial College	Water_Heat	Natural_Gas	Premium	001	007	002	1	4	0.002739726	
Commercial College	Water_Heat	Electric	Stock	001	007	002	2	1	0.002739726	
Commercial College	Water_Heat	Electric	Standard	001	007	002	2	2	0.002739726	
Commercial College	Water_Heat	Electric	High	001	007	002	2	3	0.002739726	
Commercial College	Water_Heat	Electric	Premium	001	007	002	2	4	0.002739726	
Commercial College	Cook_top	Natural_Gas	Stock	001	007	004	1	1	0.002739726	
Commercial College	Cook_top	Natural_Gas	Standard	001	007	004	1	2	0.002739726	
Commercial College	Cook_top	Electric	Stock	001	007	004	2	1	0.002739726	
Commercial College	Cook_top	Electric	Standard	001	007	004	2	2	0.002739726	
Commercial College	Fryer	Natural_Gas	Stock	001	007	005	1	1	0.002739726	
Commercial College	Fryer	Natural_Gas	Standard	001	007	005	1	2	0.002739726	
Commercial College	Fryer	Electric	Stock	001	007	005	2	1	0.002739726	
Commercial College	Fryer	Electric	Standard	001	007	005	2	2	0.002739726	
Commercial College	Griddle	Natural_Gas	Stock	001	007	006	1	1	0.002739726	
Commercial College	Griddle	Natural_Gas	Standard	001	007	006	1	2	0.002739726	
Commercial College	Griddle	Electric	Stock	001	007	006	2	1	0.002739726	
Commercial College	Griddle	Electric	Standard	001	007	006	2	2	0.002739726	
Commercial College	Other_Cooking	Natural_Gas	Stock	001	007	007	1	1	0.002739726	
Commercial College	Other_Cooking	Natural_Gas	Standard	001	007	007	1	2	0.002739726	
Commercial College	Other_Cooking	Electric	Stock	001	007	007	2	1	0.002739726	
Commercial College	Other_Cooking	Electric	Standard	001	007	007	2	2	0.002739726	
Commercial College	AC_Compressor	Natural_Gas	Stock	001	007	010	1	1	0.002739726	
Commercial College	AC_Compressor	Natural_Gas	Standard	001	007	010	1	2	0.002739726	
Commercial College	AC_Compressor	Electric	Stock	001	007	010	2	1	0.002739726	
Commercial College	AC_Compressor	Electric	Standard	001	007	010	2	2	0.002739726	
Commercial College	Other	Natural_Gas	Stock	001	007	011	1	1	0.002739726	
Commercial Health	Space_Heat	Natural_Gas	Stock	001	008	001	1	1	0.002739726	
Commercial Health	Space_Heat	Natural_Gas	Standard	001	008	001	1	2	0.002739726	

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial	Health	Space_Heat	Natural_Gas	High	001	008	001	1	3	0.002739726
Commercial	Health	Space_Heat	Natural_Gas	Premium	001	008	001	1	4	0.002739726
Commercial	Health	Space_Heat	Electric	Stock	001	008	001	2	1	0.002739726
Commercial	Health	Water_Heat	Natural_Gas	Stock	001	008	002	1	1	0.002739726
Commercial	Health	Water_Heat	Natural_Gas	Standard	001	008	002	1	2	0.002739726
Commercial	Health	Water_Heat	Natural_Gas	High	001	008	002	1	3	0.002739726
Commercial	Health	Water_Heat	Natural_Gas	Premium	001	008	002	1	4	0.002739726
Commercial	Health	Water_Heat	Electric	Stock	001	008	002	2	1	0.002739726
Commercial	Health	Water_Heat	Electric	Standard	001	008	002	2	2	0.002739726
Commercial	Health	Water_Heat	Electric	High	001	008	002	2	3	0.002739726
Commercial	Health	Water_Heat	Electric	Premium	001	008	002	2	4	0.002739726
Commercial	Health	Cook_top	Natural_Gas	Stock	001	008	004	1	1	0.002739726
Commercial	Health	Cook_top	Natural_Gas	Standard	001	008	004	1	2	0.002739726
Commercial	Health	Cook_top	Electric	Stock	001	008	004	2	1	0.002739726
Commercial	Health	Cook_top	Electric	Standard	001	008	004	2	2	0.002739726
Commercial	Health	Fryer	Natural_Gas	Stock	001	008	005	1	1	0.002739726
Commercial	Health	Fryer	Natural_Gas	Standard	001	008	005	1	2	0.002739726
Commercial	Health	Fryer	Electric	Stock	001	008	005	2	1	0.002739726
Commercial	Health	Fryer	Electric	Standard	001	008	005	2	2	0.002739726
Commercial	Health	Griddle	Natural_Gas	Stock	001	008	006	1	1	0.002739726
Commercial	Health	Griddle	Natural_Gas	Standard	001	008	006	1	2	0.002739726
Commercial	Health	Griddle	Electric	Stock	001	008	006	2	1	0.002739726
Commercial	Health	Griddle	Electric	Standard	001	008	006	2	2	0.002739726
Commercial	Health	Other_Cooking	Natural_Gas	Stock	001	008	007	1	1	0.002739726
Commercial	Health	Other_Cooking	Natural_Gas	Standard	001	008	007	1	2	0.002739726
Commercial	Health	Other_Cooking	Electric	Stock	001	008	007	2	1	0.002739726
Commercial	Health	Other_Cooking	Electric	Standard	001	008	007	2	2	0.002739726
Commercial	Health	Drying	Natural_Gas	Stock	001	008	008	1	1	0.002739726
Commercial	Health	Drying	Natural_Gas	Standard	001	008	008	1	2	0.002739726
Commercial	Health	Drying	Electric	Stock	001	008	008	2	1	0.002739726

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial	Health	Drying	Electric	Standard	001	008	008	2	2	0.002739726
Commercial	Health	AC_Compressor	Natural_Gas	Stock	001	008	010	1	1	0.002739726
Commercial	Health	AC_Compressor	Natural_Gas	Standard	001	008	010	1	2	0.002739726
Commercial	Health	AC_Compressor	Electric	Stock	001	008	010	2	1	0.002739726
Commercial	Health	AC_Compressor	Electric	Standard	001	008	010	2	2	0.002739726
Commercial	Health	Other	Natural_Gas	Stock	001	008	011	1	1	0.002739726
Commercial	Lodging	Space_Heat	Natural_Gas	Stock	001	009	001	1	1	0.002739726
Commercial	Lodging	Space_Heat	Natural_Gas	Standard	001	009	001	1	2	0.002739726
Commercial	Lodging	Space_Heat	Natural_Gas	High	001	009	001	1	3	0.002739726
Commercial	Lodging	Space_Heat	Natural_Gas	Premium	001	009	001	1	4	0.002739726
Commercial	Lodging	Space_Heat	Electric	Stock	001	009	001	2	1	0.002739726
Commercial	Lodging	Water_Heat	Natural_Gas	Stock	001	009	002	1	1	0.002739726
Commercial	Lodging	Water_Heat	Natural_Gas	Standard	001	009	002	1	2	0.002739726
Commercial	Lodging	Water_Heat	Natural_Gas	High	001	009	002	1	3	0.002739726
Commercial	Lodging	Water_Heat	Natural_Gas	Premium	001	009	002	1	4	0.002739726
Commercial	Lodging	Water_Heat	Electric	Stock	001	009	002	2	1	0.002739726
Commercial	Lodging	Water_Heat	Electric	Standard	001	009	002	2	2	0.002739726
Commercial	Lodging	Water_Heat	Electric	High	001	009	002	2	3	0.002739726
Commercial	Lodging	Water_Heat	Electric	Premium	001	009	002	2	4	0.002739726
Commercial	Lodging	Cook_top	Natural_Gas	Stock	001	009	004	1	1	0.002739726
Commercial	Lodging	Cook_top	Natural_Gas	Standard	001	009	004	1	2	0.002739726
Commercial	Lodging	Cook_top	Electric	Stock	001	009	004	2	1	0.002739726
Commercial	Lodging	Cook_top	Electric	Standard	001	009	004	2	2	0.002739726
Commercial	Lodging	Fryer	Natural_Gas	Stock	001	009	005	1	1	0.002739726
Commercial	Lodging	Fryer	Natural_Gas	Standard	001	009	005	1	2	0.002739726
Commercial	Lodging	Fryer	Electric	Stock	001	009	005	2	1	0.002739726
Commercial	Lodging	Fryer	Electric	Standard	001	009	005	2	2	0.002739726
Commercial	Lodging	Griddle	Natural_Gas	Stock	001	009	006	1	1	0.002739726
Commercial	Lodging	Griddle	Natural_Gas	Standard	001	009	006	1	2	0.002739726
Commercial	Lodging	Griddle	Electric	Stock	001	009	006	2	1	0.002739726

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial Lodging	Griddle	Electric	Standard	001	009	006	2	2	0.002739726	
Commercial Lodging	Other_Cooking	Natural_Gas	Stock	001	009	007	1	1	0.002739726	
Commercial Lodging	Other_Cooking	Natural_Gas	Standard	001	009	007	1	2	0.002739726	
Commercial Lodging	Other_Cooking	Electric	Stock	001	009	007	2	1	0.002739726	
Commercial Lodging	Other_Cooking	Electric	Standard	001	009	007	2	2	0.002739726	
Commercial Lodging	Drying	Natural_Gas	Stock	001	009	008	1	1	0.002739726	
Commercial Lodging	Drying	Natural_Gas	Standard	001	009	008	1	2	0.002739726	
Commercial Lodging	Drying	Electric	Stock	001	009	008	2	1	0.002739726	
Commercial Lodging	Drying	Electric	Standard	001	009	008	2	2	0.002739726	
Commercial Lodging	AC_Compressor	Natural_Gas	Stock	001	009	010	1	1	0.002739726	
Commercial Lodging	AC_Compressor	Natural_Gas	Standard	001	009	010	1	2	0.002739726	
Commercial Lodging	AC_Compressor	Electric	Stock	001	009	010	2	1	0.002739726	
Commercial Lodging	AC_Compressor	Electric	Standard	001	009	010	2	2	0.002739726	
Commercial Lodging	Other	Natural_Gas	Stock	001	009	011	1	1	0.002739726	
Commercial Misc	Space_Heat	Natural_Gas	Stock	001	010	001	1	1	0.002739726	
Commercial Misc	Space_Heat	Natural_Gas	Standard	001	010	001	1	2	0.002739726	
Commercial Misc	Space_Heat	Natural_Gas	High	001	010	001	1	3	0.002739726	
Commercial Misc	Space_Heat	Natural_Gas	Premium	001	010	001	1	4	0.002739726	
Commercial Misc	Space_Heat	Electric	Stock	001	010	001	2	1	0.002739726	
Commercial Misc	Water_Heat	Natural_Gas	Stock	001	010	002	1	1	0.002739726	
Commercial Misc	Water_Heat	Natural_Gas	Standard	001	010	002	1	2	0.002739726	
Commercial Misc	Water_Heat	Natural_Gas	High	001	010	002	1	3	0.002739726	
Commercial Misc	Water_Heat	Natural_Gas	Premium	001	010	002	1	4	0.002739726	
Commercial Misc	Water_Heat	Electric	Stock	001	010	002	2	1	0.002739726	
Commercial Misc	Water_Heat	Electric	Standard	001	010	002	2	2	0.002739726	
Commercial Misc	Water_Heat	Electric	High	001	010	002	2	3	0.002739726	
Commercial Misc	Water_Heat	Electric	Premium	001	010	002	2	4	0.002739726	
Commercial Misc	Cook_top	Natural_Gas	Stock	001	010	004	1	1	0.002739726	
Commercial Misc	Cook_top	Natural_Gas	Standard	001	010	004	1	2	0.002739726	
Commercial Misc	Cook_top	Electric	Stock	001	010	004	2	1	0.002739726	

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial Misc		Cook_top	Electric	Standard	001	010	004	2	2	0.002739726
Commercial Misc		Fryer	Natural_Gas	Stock	001	010	005	1	1	0.002739726
Commercial Misc		Fryer	Natural_Gas	Standard	001	010	005	1	2	0.002739726
Commercial Misc		Fryer	Electric	Stock	001	010	005	2	1	0.002739726
Commercial Misc		Fryer	Electric	Standard	001	010	005	2	2	0.002739726
Commercial Misc		Griddle	Natural_Gas	Stock	001	010	006	1	1	0.002739726
Commercial Misc		Griddle	Natural_Gas	Standard	001	010	006	1	2	0.002739726
Commercial Misc		Griddle	Electric	Stock	001	010	006	2	1	0.002739726
Commercial Misc		Griddle	Electric	Standard	001	010	006	2	2	0.002739726
Commercial Misc		Other_Cooking	Natural_Gas	Stock	001	010	007	1	1	0.002739726
Commercial Misc		Other_Cooking	Natural_Gas	Standard	001	010	007	1	2	0.002739726
Commercial Misc		Other_Cooking	Electric	Stock	001	010	007	2	1	0.002739726
Commercial Misc		Other_Cooking	Electric	Standard	001	010	007	2	2	0.002739726
Commercial Misc		AC_Compressor	Natural_Gas	Stock	001	010	010	1	1	0.002739726
Commercial Misc		AC_Compressor	Natural_Gas	Standard	001	010	010	1	2	0.002739726
Commercial Misc		AC_Compressor	Electric	Stock	001	010	010	2	1	0.002739726
Commercial Misc		AC_Compressor	Electric	Standard	001	010	010	2	2	0.002739726
Commercial Misc		Other	Natural_Gas	Stock	001	010	011	1	1	0.002739726
Commercial Governme		Space_Heat	Natural_Gas	Stock	001	011	001	1	1	0.002739726
Commercial Governme		Space_Heat	Natural_Gas	Standard	001	011	001	1	2	0.002739726
Commercial Governme		Space_Heat	Natural_Gas	High	001	011	001	1	3	0.002739726
Commercial Governme		Space_Heat	Natural_Gas	Premium	001	011	001	1	4	0.002739726
Commercial Governme		Space_Heat	Electric	Stock	001	011	001	2	1	0.002739726
Commercial Governme		Water_Heat	Natural_Gas	Stock	001	011	002	1	1	0.002739726
Commercial Governme		Water_Heat	Natural_Gas	Standard	001	011	002	1	2	0.002739726
Commercial Governme		Water_Heat	Natural_Gas	High	001	011	002	1	3	0.002739726
Commercial Governme		Water_Heat	Natural_Gas	Premium	001	011	002	1	4	0.002739726
Commercial Governme		Water_Heat	Electric	Stock	001	011	002	2	1	0.002739726
Commercial Governme		Water_Heat	Electric	Standard	001	011	002	2	2	0.002739726
Commercial Governme		Water_Heat	Electric	High	001	011	002	2	3	0.002739726

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial Governme	Water_Heat	Electric	Premium	001	011	002	2	4	0.002739726	
Commercial Governme	Cook_top	Natural_Gas	Stock	001	011	004	1	1	0.002739726	
Commercial Governme	Cook_top	Natural_Gas	Standard	001	011	004	1	2	0.002739726	
Commercial Governme	Cook_top	Electric	Stock	001	011	004	2	1	0.002739726	
Commercial Governme	Cook_top	Electric	Standard	001	011	004	2	2	0.002739726	
Commercial Governme	Fryer	Natural_Gas	Stock	001	011	005	1	1	0.002739726	
Commercial Governme	Fryer	Natural_Gas	Standard	001	011	005	1	2	0.002739726	
Commercial Governme	Fryer	Electric	Stock	001	011	005	2	1	0.002739726	
Commercial Governme	Fryer	Electric	Standard	001	011	005	2	2	0.002739726	
Commercial Governme	Griddle	Natural_Gas	Stock	001	011	006	1	1	0.002739726	
Commercial Governme	Griddle	Natural_Gas	Standard	001	011	006	1	2	0.002739726	
Commercial Governme	Griddle	Electric	Stock	001	011	006	2	1	0.002739726	
Commercial Governme	Griddle	Electric	Standard	001	011	006	2	2	0.002739726	
Commercial Governme	Other_Cooking	Natural_Gas	Stock	001	011	007	1	1	0.002739726	
Commercial Governme	Other_Cooking	Natural_Gas	Standard	001	011	007	1	2	0.002739726	
Commercial Governme	Other_Cooking	Electric	Stock	001	011	007	2	1	0.002739726	
Commercial Governme	Other_Cooking	Electric	Standard	001	011	007	2	2	0.002739726	
Commercial Governme	AC_Compressor	Natural_Gas	Stock	001	011	010	1	1	0.002739726	
Commercial Governme	AC_Compressor	Natural_Gas	Standard	001	011	010	1	2	0.002739726	
Commercial Governme	AC_Compressor	Electric	Stock	001	011	010	2	1	0.002739726	
Commercial Governme	AC_Compressor	Electric	Standard	001	011	010	2	2	0.002739726	
Commercial Governme	Other	Natural_Gas	Stock	001	011	011	1	1	0.002739726	
Commercial TCU	Space_Heat	Natural_Gas	Stock	001	012	001	1	1	0.002739726	
Commercial TCU	Space_Heat	Natural_Gas	Standard	001	012	001	1	2	0.002739726	
Commercial TCU	Space_Heat	Natural_Gas	High	001	012	001	1	3	0.002739726	
Commercial TCU	Space_Heat	Natural_Gas	Premium	001	012	001	1	4	0.002739726	
Commercial TCU	Space_Heat	Electric	Stock	001	012	001	2	1	0.002739726	
Commercial TCU	Water_Heat	Natural_Gas	Stock	001	012	002	1	1	0.002739726	
Commercial TCU	Water_Heat	Natural_Gas	Standard	001	012	002	1	2	0.002739726	
Commercial TCU	Water_Heat	Natural_Gas	High	001	012	002	1	3	0.002739726	

SAN DIEGO GAS & ELECTRIC E-SHARES FOR CORE COMMERCIAL SECTOR

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial	TCU	Water_Heat	Natural_Gas	Premium	001	012	002	1	4	0.002739726
Commercial	TCU	Water_Heat	Electric	Stock	001	012	002	2	1	0.002739726
Commercial	TCU	Water_Heat	Electric	Standard	001	012	002	2	2	0.002739726
Commercial	TCU	Water_Heat	Electric	High	001	012	002	2	3	0.002739726
Commercial	TCU	Water_Heat	Electric	Premium	001	012	002	2	4	0.002739726
Commercial	TCU	Engine	Natural_Gas	Stock	001	012	009	1	1	0.002739726
Commercial	TCU	Engine	Natural_Gas	Standard	001	012	009	1	2	0.002739726
Commercial	TCU	Engine	Electric	Stock	001	012	009	2	1	0.002739726
Commercial	TCU	Engine	Electric	Standard	001	012	009	2	2	0.002739726
Commercial	TCU	Other	Natural_Gas	Stock	001	012	011	1	1	0.002739726
Commercial	Constructic	Space_Heat	Natural_Gas	Stock	001	013	001	1	1	0.002739726
Commercial	Constructic	Space_Heat	Natural_Gas	Standard	001	013	001	1	2	0.002739726
Commercial	Constructic	Space_Heat	Natural_Gas	High	001	013	001	1	3	0.002739726
Commercial	Constructic	Space_Heat	Natural_Gas	Premium	001	013	001	1	4	0.002739726
Commercial	Constructic	Space_Heat	Electric	Stock	001	013	001	2	1	0.002739726
Commercial	Constructic	Water_Heat	Natural_Gas	Stock	001	013	002	1	1	0.002739726
Commercial	Constructic	Water_Heat	Natural_Gas	Standard	001	013	002	1	2	0.002739726
Commercial	Constructic	Water_Heat	Natural_Gas	High	001	013	002	1	3	0.002739726
Commercial	Constructic	Water_Heat	Natural_Gas	Premium	001	013	002	1	4	0.002739726
Commercial	Constructic	Water_Heat	Electric	Stock	001	013	002	2	1	0.002739726
Commercial	Constructic	Water_Heat	Electric	Standard	001	013	002	2	2	0.002739726
Commercial	Constructic	Water_Heat	Electric	High	001	013	002	2	3	0.002739726
Commercial	Constructic	Water_Heat	Electric	Premium	001	013	002	2	4	0.002739726
Commercial	Constructic	Other	Natural_Gas	Stock	001	013	011	1	1	0.002739726
Commercial	Agriculture	Space_Heat	Natural_Gas	Stock	001	014	001	1	1	0.002739726
Commercial	Agriculture	Space_Heat	Natural_Gas	Standard	001	014	001	1	2	0.002739726
Commercial	Agriculture	Space_Heat	Natural_Gas	High	001	014	001	1	3	0.002739726
Commercial	Agriculture	Space_Heat	Natural_Gas	Premium	001	014	001	1	4	0.002739726
Commercial	Agriculture	Space_Heat	Electric	Stock	001	014	001	2	1	0.002739726
Commercial	Agriculture	Water_Heat	Natural_Gas	Stock	001	014	002	1	1	0.002739726

**SAN DIEGO GAS & ELECTRIC
 E-SHARES FOR CORE COMMERCIAL SECTOR**

zName	bName	nName	fName	eName	z	b	n	f	e	peakDayLoadFactor
Commercial Agriculture Water_Heat	Natural_Gas	Standard	001	014	002	1	2			0.002739726
Commercial Agriculture Water_Heat	Natural_Gas	High	001	014	002	1	3			0.002739726
Commercial Agriculture Water_Heat	Natural_Gas	Premium	001	014	002	1	4			0.002739726
Commercial Agriculture Water_Heat	Electric	Stock	001	014	002	2	1			0.002739726
Commercial Agriculture Water_Heat	Electric	Standard	001	014	002	2	2			0.002739726
Commercial Agriculture Water_Heat	Electric	High	001	014	002	2	3			0.002739726
Commercial Agriculture Water_Heat	Electric	Premium	001	014	002	2	4			0.002739726
Commercial Agriculture Drying	Natural_Gas	Stock	001	014	008	1	1			0.002739726
Commercial Agriculture Drying	Natural_Gas	Standard	001	014	008	1	2			0.002739726
Commercial Agriculture Drying	Electric	Stock	001	014	008	2	1			0.002739726
Commercial Agriculture Drying	Electric	Standard	001	014	008	2	2			0.002739726
Commercial Agriculture Engine	Natural_Gas	Stock	001	014	009	1	1			0.002739726
Commercial Agriculture Engine	Natural_Gas	Standard	001	014	009	1	2			0.002739726
Commercial Agriculture Engine	Electric	Stock	001	014	009	2	1			0.002739726
Commercial Agriculture Engine	Electric	Standard	001	014	009	2	2			0.002739726
Commercial Agriculture Other	Natural_Gas	Stock	001	014	011	1	1			0.002739726

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial Office	Space_Heat	Natural_Gas	Existing	1	0.025	0	
Commercial Office	Space_Heat	Natural_Gas	New	2	0.995	1	
Commercial Office	Space_Heat	Electric	Existing	1	0.025	0	
Commercial Office	Space_Heat	Electric	New	2	0.995	1	
Commercial Office	Water_Heat	Natural_Gas	Existing	1	0.025	0	
Commercial Office	Water_Heat	Natural_Gas	New	2	0.995	1	
Commercial Office	Water_Heat	Electric	Existing	1	0.025	0	
Commercial Office	Water_Heat	Electric	New	2	0.995	1	
Commercial Office	Cooking	Natural_Gas	Existing	1	0.025	0	
Commercial Office	Cooking	Natural_Gas	New	2	0.995	1	
Commercial Office	Cooking	Electric	Existing	1	0.025	0	
Commercial Office	Cooking	Electric	New	2	0.995	1	
Commercial Office	AC_Compressor	Natural_Gas	Existing	1	0.025	0	
Commercial Office	AC_Compressor	Natural_Gas	New	2	0.995	1	
Commercial Office	AC_Compressor	Electric	Existing	1	0.025	0	
Commercial Office	AC_Compressor	Electric	New	2	0.995	1	
Commercial Office	Other	Natural_Gas	Existing	1	0.025	0	
Commercial Office	Other	Natural_Gas	New	2	0.995	1	
Commercial Restaurant	Space_Heat	Natural_Gas	Existing	1	0.025	0	
Commercial Restaurant	Space_Heat	Natural_Gas	New	2	0.995	1	
Commercial Restaurant	Space_Heat	Electric	Existing	1	0.025	0	
Commercial Restaurant	Space_Heat	Electric	New	2	0.995	1	
Commercial Restaurant	Water_Heat	Natural_Gas	Existing	1	0.025	0	
Commercial Restaurant	Water_Heat	Natural_Gas	New	2	0.995	1	
Commercial Restaurant	Water_Heat	Electric	Existing	1	0.025	0	
Commercial Restaurant	Water_Heat	Electric	New	2	0.995	1	
Commercial Restaurant	Cook_top	Natural_Gas	Existing	1	0.025	0	
Commercial Restaurant	Cook_top	Natural_Gas	New	2	0.995	1	

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial	Restaurant	Cook_top	Electric	Existing	1	0.025	0
Commercial	Restaurant	Cook_top	Electric	New	2	0.995	1
Commercial	Restaurant	Fryer	Natural_Gas	Existing	1	0.025	0
Commercial	Restaurant	Fryer	Natural_Gas	New	2	0.995	1
Commercial	Restaurant	Fryer	Electric	Existing	1	0.025	0
Commercial	Restaurant	Fryer	Electric	New	2	0.995	1
Commercial	Restaurant	Griddle	Natural_Gas	Existing	1	0.025	0
Commercial	Restaurant	Griddle	Natural_Gas	New	2	0.995	1
Commercial	Restaurant	Griddle	Electric	Existing	1	0.025	0
Commercial	Restaurant	Griddle	Electric	New	2	0.995	1
Commercial	Restaurant	Other_Cooking	Natural_Gas	Existing	1	0.025	0
Commercial	Restaurant	Other_Cooking	Natural_Gas	New	2	0.995	1
Commercial	Restaurant	Other_Cooking	Electric	Existing	1	0.025	0
Commercial	Restaurant	Other_Cooking	Electric	New	2	0.995	1
Commercial	Restaurant	AC_Compressor	Natural_Gas	Existing	1	0.025	0
Commercial	Restaurant	AC_Compressor	Natural_Gas	New	2	0.995	1
Commercial	Restaurant	AC_Compressor	Electric	Existing	1	0.025	0
Commercial	Restaurant	AC_Compressor	Electric	New	2	0.995	1
Commercial	Restaurant	Other	Natural_Gas	Existing	1	0.025	0
Commercial	Restaurant	Other	Natural_Gas	New	2	0.995	1
Commercial	Retail	Space_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Retail	Space_Heat	Natural_Gas	New	2	0.995	1
Commercial	Retail	Space_Heat	Electric	Existing	1	0.025	0
Commercial	Retail	Space_Heat	Electric	New	2	0.995	1
Commercial	Retail	Water_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Retail	Water_Heat	Natural_Gas	New	2	0.995	1
Commercial	Retail	Water_Heat	Electric	Existing	1	0.025	0
Commercial	Retail	Water_Heat	Electric	New	2	0.995	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial Retail	Cooking	Natural_Gas	Existing	1	0.025	0	
Commercial Retail	Cooking	Natural_Gas	New	2	0.995	1	
Commercial Retail	Cooking	Electric	Existing	1	0.025	0	
Commercial Retail	Cooking	Electric	New	2	0.995	1	
Commercial Retail	Other	Natural_Gas	Existing	1	0.025	0	
Commercial Retail	Other	Natural_Gas	New	2	0.995	1	
Commercial Laundry	Space_Heat	Natural_Gas	Existing	1	0.025	0	
Commercial Laundry	Space_Heat	Natural_Gas	New	2	0.995	1	
Commercial Laundry	Space_Heat	Electric	Existing	1	0.025	0	
Commercial Laundry	Space_Heat	Electric	New	2	0.995	1	
Commercial Laundry	Water_Heat	Natural_Gas	Existing	1	0.025	0	
Commercial Laundry	Water_Heat	Natural_Gas	New	2	0.995	1	
Commercial Laundry	Water_Heat	Electric	Existing	1	0.025	0	
Commercial Laundry	Water_Heat	Electric	New	2	0.995	1	
Commercial Laundry	Drying	Natural_Gas	Existing	1	0.025	0	
Commercial Laundry	Drying	Natural_Gas	New	2	0.995	1	
Commercial Laundry	Drying	Electric	Existing	1	0.025	0	
Commercial Laundry	Drying	Electric	New	2	0.995	1	
Commercial Laundry	Other	Natural_Gas	Existing	1	0.025	0	
Commercial Laundry	Other	Natural_Gas	New	2	0.995	1	
Commercial Warehouse	Space_Heat	Natural_Gas	Existing	1	0.025	0	
Commercial Warehouse	Space_Heat	Natural_Gas	New	2	0.995	1	
Commercial Warehouse	Space_Heat	Electric	Existing	1	0.025	0	
Commercial Warehouse	Space_Heat	Electric	New	2	0.995	1	
Commercial Warehouse	Water_Heat	Natural_Gas	Existing	1	0.025	0	
Commercial Warehouse	Water_Heat	Natural_Gas	New	2	0.995	1	
Commercial Warehouse	Water_Heat	Electric	Existing	1	0.025	0	
Commercial Warehouse	Water_Heat	Electric	New	2	0.995	1	

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial	Warehouse	Engine	Natural_Gas	Existing	1	0.025	0
Commercial	Warehouse	Engine	Natural_Gas	New	2	0.995	1
Commercial	Warehouse	Engine	Electric	Existing	1	0.025	0
Commercial	Warehouse	Engine	Electric	New	2	0.995	1
Commercial	Warehouse	Other	Natural_Gas	Existing	1	0.025	0
Commercial	Warehouse	Other	Natural_Gas	New	2	0.995	1
Commercial	School	Space_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	School	Space_Heat	Natural_Gas	New	2	0.995	1
Commercial	School	Space_Heat	Electric	Existing	1	0.025	0
Commercial	School	Space_Heat	Electric	New	2	0.995	1
Commercial	School	Water_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	School	Water_Heat	Natural_Gas	New	2	0.995	1
Commercial	School	Water_Heat	Electric	Existing	1	0.025	0
Commercial	School	Water_Heat	Electric	New	2	0.995	1
Commercial	School	Cook_top	Natural_Gas	Existing	1	0.025	0
Commercial	School	Cook_top	Natural_Gas	New	2	0.995	1
Commercial	School	Cook_top	Electric	Existing	1	0.025	0
Commercial	School	Cook_top	Electric	New	2	0.995	1
Commercial	School	Fryer	Natural_Gas	Existing	1	0.025	0
Commercial	School	Fryer	Natural_Gas	New	2	0.995	1
Commercial	School	Fryer	Electric	Existing	1	0.025	0
Commercial	School	Fryer	Electric	New	2	0.995	1
Commercial	School	Griddle	Natural_Gas	Existing	1	0.025	0
Commercial	School	Griddle	Natural_Gas	New	2	0.995	1
Commercial	School	Griddle	Electric	Existing	1	0.025	0
Commercial	School	Griddle	Electric	New	2	0.995	1
Commercial	School	Other_Cooking	Natural_Gas	Existing	1	0.025	0
Commercial	School	Other_Cooking	Natural_Gas	New	2	0.995	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial	School	Other_Cooking	Electric	Existing	1	0.025	0
Commercial	School	Other_Cooking	Electric	New	2	0.995	1
Commercial	School	AC_Compressor	Natural_Gas	Existing	1	0.025	0
Commercial	School	AC_Compressor	Natural_Gas	New	2	0.995	1
Commercial	School	AC_Compressor	Electric	Existing	1	0.025	0
Commercial	School	AC_Compressor	Electric	New	2	0.995	1
Commercial	School	Other	Natural_Gas	Existing	1	0.025	0
Commercial	School	Other	Natural_Gas	New	2	0.995	1
Commercial	College	Space_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	College	Space_Heat	Natural_Gas	New	2	0.995	1
Commercial	College	Space_Heat	Electric	Existing	1	0.025	0
Commercial	College	Space_Heat	Electric	New	2	0.995	1
Commercial	College	Water_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	College	Water_Heat	Natural_Gas	New	2	0.995	1
Commercial	College	Water_Heat	Electric	Existing	1	0.025	0
Commercial	College	Water_Heat	Electric	New	2	0.995	1
Commercial	College	Cook_top	Natural_Gas	Existing	1	0.025	0
Commercial	College	Cook_top	Natural_Gas	New	2	0.995	1
Commercial	College	Cook_top	Electric	Existing	1	0.025	0
Commercial	College	Cook_top	Electric	New	2	0.995	1
Commercial	College	Fryer	Natural_Gas	Existing	1	0.025	0
Commercial	College	Fryer	Natural_Gas	New	2	0.995	1
Commercial	College	Fryer	Electric	Existing	1	0.025	0
Commercial	College	Fryer	Electric	New	2	0.995	1
Commercial	College	Griddle	Natural_Gas	Existing	1	0.025	0
Commercial	College	Griddle	Natural_Gas	New	2	0.995	1
Commercial	College	Griddle	Electric	Existing	1	0.025	0
Commercial	College	Griddle	Electric	New	2	0.995	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial	College	Other_Cooking	Natural_Gas	Existing	1	0.025	0
Commercial	College	Other_Cooking	Natural_Gas	New	2	0.995	1
Commercial	College	Other_Cooking	Electric	Existing	1	0.025	0
Commercial	College	Other_Cooking	Electric	New	2	0.995	1
Commercial	College	AC_Compressor	Natural_Gas	Existing	1	0.025	0
Commercial	College	AC_Compressor	Natural_Gas	New	2	0.995	1
Commercial	College	AC_Compressor	Electric	Existing	1	0.025	0
Commercial	College	AC_Compressor	Electric	New	2	0.995	1
Commercial	College	Other	Natural_Gas	Existing	1	0.025	0
Commercial	College	Other	Natural_Gas	New	2	0.995	1
Commercial	Health	Space_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Health	Space_Heat	Natural_Gas	New	2	0.995	1
Commercial	Health	Space_Heat	Electric	Existing	1	0.025	0
Commercial	Health	Space_Heat	Electric	New	2	0.995	1
Commercial	Health	Water_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Health	Water_Heat	Natural_Gas	New	2	0.995	1
Commercial	Health	Water_Heat	Electric	Existing	1	0.025	0
Commercial	Health	Water_Heat	Electric	New	2	0.995	1
Commercial	Health	Cook_top	Natural_Gas	Existing	1	0.025	0
Commercial	Health	Cook_top	Natural_Gas	New	2	0.995	1
Commercial	Health	Cook_top	Electric	Existing	1	0.025	0
Commercial	Health	Cook_top	Electric	New	2	0.995	1
Commercial	Health	Fryer	Natural_Gas	Existing	1	0.025	0
Commercial	Health	Fryer	Natural_Gas	New	2	0.995	1
Commercial	Health	Fryer	Electric	Existing	1	0.025	0
Commercial	Health	Fryer	Electric	New	2	0.995	1
Commercial	Health	Griddle	Natural_Gas	Existing	1	0.025	0
Commercial	Health	Griddle	Natural_Gas	New	2	0.995	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial	Health	Griddle	Electric	Existing	1	0.025	0
Commercial	Health	Griddle	Electric	New	2	0.995	1
Commercial	Health	Other_Cooking	Natural_Gas	Existing	1	0.025	0
Commercial	Health	Other_Cooking	Natural_Gas	New	2	0.995	1
Commercial	Health	Other_Cooking	Electric	Existing	1	0.025	0
Commercial	Health	Other_Cooking	Electric	New	2	0.995	1
Commercial	Health	Drying	Natural_Gas	Existing	1	0.025	0
Commercial	Health	Drying	Natural_Gas	New	2	0.995	1
Commercial	Health	Drying	Electric	Existing	1	0.025	0
Commercial	Health	Drying	Electric	New	2	0.995	1
Commercial	Health	AC_Compressor	Natural_Gas	Existing	1	0.025	0
Commercial	Health	AC_Compressor	Natural_Gas	New	2	0.995	1
Commercial	Health	AC_Compressor	Electric	Existing	1	0.025	0
Commercial	Health	AC_Compressor	Electric	New	2	0.995	1
Commercial	Health	Other	Natural_Gas	Existing	1	0.025	0
Commercial	Health	Other	Natural_Gas	New	2	0.995	1
Commercial	Lodging	Space_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Lodging	Space_Heat	Natural_Gas	New	2	0.995	1
Commercial	Lodging	Space_Heat	Electric	Existing	1	0.025	0
Commercial	Lodging	Space_Heat	Electric	New	2	0.995	1
Commercial	Lodging	Water_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Lodging	Water_Heat	Natural_Gas	New	2	0.995	1
Commercial	Lodging	Water_Heat	Electric	Existing	1	0.025	0
Commercial	Lodging	Water_Heat	Electric	New	2	0.995	1
Commercial	Lodging	Cook_top	Natural_Gas	Existing	1	0.025	0
Commercial	Lodging	Cook_top	Natural_Gas	New	2	0.995	1
Commercial	Lodging	Cook_top	Electric	Existing	1	0.025	0
Commercial	Lodging	Cook_top	Electric	New	2	0.995	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial Lodging	Fryer	Natural_Gas	Existing	1	0.025	0	
Commercial Lodging	Fryer	Natural_Gas	New	2	0.995	1	
Commercial Lodging	Fryer	Electric	Existing	1	0.025	0	
Commercial Lodging	Fryer	Electric	New	2	0.995	1	
Commercial Lodging	Griddle	Natural_Gas	Existing	1	0.025	0	
Commercial Lodging	Griddle	Natural_Gas	New	2	0.995	1	
Commercial Lodging	Griddle	Electric	Existing	1	0.025	0	
Commercial Lodging	Griddle	Electric	New	2	0.995	1	
Commercial Lodging	Other_Cooking	Natural_Gas	Existing	1	0.025	0	
Commercial Lodging	Other_Cooking	Natural_Gas	New	2	0.995	1	
Commercial Lodging	Other_Cooking	Electric	Existing	1	0.025	0	
Commercial Lodging	Other_Cooking	Electric	New	2	0.995	1	
Commercial Lodging	Drying	Natural_Gas	Existing	1	0.025	0	
Commercial Lodging	Drying	Natural_Gas	New	2	0.995	1	
Commercial Lodging	Drying	Electric	Existing	1	0.025	0	
Commercial Lodging	Drying	Electric	New	2	0.995	1	
Commercial Lodging	AC_Compressor	Natural_Gas	Existing	1	0.025	0	
Commercial Lodging	AC_Compressor	Natural_Gas	New	2	0.995	1	
Commercial Lodging	AC_Compressor	Electric	Existing	1	0.025	0	
Commercial Lodging	AC_Compressor	Electric	New	2	0.995	1	
Commercial Lodging	Other	Natural_Gas	Existing	1	0.025	0	
Commercial Lodging	Other	Natural_Gas	New	2	0.995	1	
Commercial Misc	Space_Heat	Natural_Gas	Existing	1	0.025	0	
Commercial Misc	Space_Heat	Natural_Gas	New	2	0.995	1	
Commercial Misc	Space_Heat	Electric	Existing	1	0.025	0	
Commercial Misc	Space_Heat	Electric	New	2	0.995	1	
Commercial Misc	Water_Heat	Natural_Gas	Existing	1	0.025	0	
Commercial Misc	Water_Heat	Natural_Gas	New	2	0.995	1	

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial	Misc	Water_Heat	Electric	Existing	1	0.025	0
Commercial	Misc	Water_Heat	Electric	New	2	0.995	1
Commercial	Misc	Cook_top	Natural_Gas	Existing	1	0.025	0
Commercial	Misc	Cook_top	Natural_Gas	New	2	0.995	1
Commercial	Misc	Cook_top	Electric	Existing	1	0.025	0
Commercial	Misc	Cook_top	Electric	New	2	0.995	1
Commercial	Misc	Fryer	Natural_Gas	Existing	1	0.025	0
Commercial	Misc	Fryer	Natural_Gas	New	2	0.995	1
Commercial	Misc	Fryer	Electric	Existing	1	0.025	0
Commercial	Misc	Fryer	Electric	New	2	0.995	1
Commercial	Misc	Griddle	Natural_Gas	Existing	1	0.025	0
Commercial	Misc	Griddle	Natural_Gas	New	2	0.995	1
Commercial	Misc	Griddle	Electric	Existing	1	0.025	0
Commercial	Misc	Griddle	Electric	New	2	0.995	1
Commercial	Misc	Other_Cooking	Natural_Gas	Existing	1	0.025	0
Commercial	Misc	Other_Cooking	Natural_Gas	New	2	0.995	1
Commercial	Misc	Other_Cooking	Electric	Existing	1	0.025	0
Commercial	Misc	Other_Cooking	Electric	New	2	0.995	1
Commercial	Misc	AC_Compressor	Natural_Gas	Existing	1	0.025	0
Commercial	Misc	AC_Compressor	Natural_Gas	New	2	0.995	1
Commercial	Misc	AC_Compressor	Electric	Existing	1	0.025	0
Commercial	Misc	AC_Compressor	Electric	New	2	0.995	1
Commercial	Misc	Other	Natural_Gas	Existing	1	0.025	0
Commercial	Misc	Other	Natural_Gas	New	2	0.995	1
Commercial	Government	Space_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Government	Space_Heat	Natural_Gas	New	2	0.995	1
Commercial	Government	Space_Heat	Electric	Existing	1	0.025	0
Commercial	Government	Space_Heat	Electric	New	2	0.995	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial	Government	Water_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Government	Water_Heat	Natural_Gas	New	2	0.995	1
Commercial	Government	Water_Heat	Electric	Existing	1	0.025	0
Commercial	Government	Water_Heat	Electric	New	2	0.995	1
Commercial	Government	Cook_top	Natural_Gas	Existing	1	0.025	0
Commercial	Government	Cook_top	Natural_Gas	New	2	0.995	1
Commercial	Government	Cook_top	Electric	Existing	1	0.025	0
Commercial	Government	Cook_top	Electric	New	2	0.995	1
Commercial	Government	Fryer	Natural_Gas	Existing	1	0.025	0
Commercial	Government	Fryer	Natural_Gas	New	2	0.995	1
Commercial	Government	Fryer	Electric	Existing	1	0.025	0
Commercial	Government	Fryer	Electric	New	2	0.995	1
Commercial	Government	Griddle	Natural_Gas	Existing	1	0.025	0
Commercial	Government	Griddle	Natural_Gas	New	2	0.995	1
Commercial	Government	Griddle	Electric	Existing	1	0.025	0
Commercial	Government	Griddle	Electric	New	2	0.995	1
Commercial	Government	Other_Cooking	Natural_Gas	Existing	1	0.025	0
Commercial	Government	Other_Cooking	Natural_Gas	New	2	0.995	1
Commercial	Government	Other_Cooking	Electric	Existing	1	0.025	0
Commercial	Government	Other_Cooking	Electric	New	2	0.995	1
Commercial	Government	AC_Compressor	Natural_Gas	Existing	1	0.025	0
Commercial	Government	AC_Compressor	Natural_Gas	New	2	0.995	1
Commercial	Government	AC_Compressor	Electric	Existing	1	0.025	0
Commercial	Government	AC_Compressor	Electric	New	2	0.995	1
Commercial	Government	Other	Natural_Gas	Existing	1	0.025	0
Commercial	Government	Other	Natural_Gas	New	2	0.995	1
Commercial	TCU	Space_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	TCU	Space_Heat	Natural_Gas	New	2	0.995	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial	TCU	Space_Heat	Electric	Existing	1	0.025	0
Commercial	TCU	Space_Heat	Electric	New	2	0.995	1
Commercial	TCU	Water_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	TCU	Water_Heat	Natural_Gas	New	2	0.995	1
Commercial	TCU	Water_Heat	Electric	Existing	1	0.025	0
Commercial	TCU	Water_Heat	Electric	New	2	0.995	1
Commercial	TCU	Engine	Natural_Gas	Existing	1	0.025	0
Commercial	TCU	Engine	Natural_Gas	New	2	0.995	1
Commercial	TCU	Engine	Electric	Existing	1	0.025	0
Commercial	TCU	Engine	Electric	New	2	0.995	1
Commercial	TCU	Other	Natural_Gas	Existing	1	0.025	0
Commercial	TCU	Other	Natural_Gas	New	2	0.995	1
Commercial	Constructic	Space_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Constructic	Space_Heat	Natural_Gas	New	2	0.995	1
Commercial	Constructic	Space_Heat	Electric	Existing	1	0.025	0
Commercial	Constructic	Space_Heat	Electric	New	2	0.995	1
Commercial	Constructic	Water_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Constructic	Water_Heat	Natural_Gas	New	2	0.995	1
Commercial	Constructic	Water_Heat	Electric	Existing	1	0.025	0
Commercial	Constructic	Water_Heat	Electric	New	2	0.995	1
Commercial	Constructic	Other	Natural_Gas	Existing	1	0.025	0
Commercial	Constructic	Other	Natural_Gas	New	2	0.995	1
Commercial	Agriculture	Space_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Agriculture	Space_Heat	Natural_Gas	New	2	0.995	1
Commercial	Agriculture	Space_Heat	Electric	Existing	1	0.025	0
Commercial	Agriculture	Space_Heat	Electric	New	2	0.995	1
Commercial	Agriculture	Water_Heat	Natural_Gas	Existing	1	0.025	0
Commercial	Agriculture	Water_Heat	Natural_Gas	New	2	0.995	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayIndicator	equipmentDecayParm1	equipmentDecayParm2
Commercial	Agriculture	Water_Heat	Electric	Existing	1	0.025	0
Commercial	Agriculture	Water_Heat	Electric	New	2	0.995	1
Commercial	Agriculture	Drying	Natural_Gas	Existing	1	0.025	0
Commercial	Agriculture	Drying	Natural_Gas	New	2	0.995	1
Commercial	Agriculture	Drying	Electric	Existing	1	0.025	0
Commercial	Agriculture	Drying	Electric	New	2	0.995	1
Commercial	Agriculture	Engine	Natural_Gas	Existing	1	0.025	0
Commercial	Agriculture	Engine	Natural_Gas	New	2	0.995	1
Commercial	Agriculture	Engine	Electric	Existing	1	0.025	0
Commercial	Agriculture	Engine	Electric	New	2	0.995	1
Commercial	Agriculture	Other	Natural_Gas	Existing	1	0.025	0
Commercial	Agriculture	Other	Natural_Gas	New	2	0.995	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	Office	Space_Heat	Natural_Gas	Existing	0	0	001	001	001
Commercial	Office	Space_Heat	Natural_Gas	New	0.5	40	001	001	001
Commercial	Office	Space_Heat	Electric	Existing	0	0	001	001	001
Commercial	Office	Space_Heat	Electric	New	0.5	40	001	001	001
Commercial	Office	Water_Heat	Natural_Gas	Existing	0	0	001	001	002
Commercial	Office	Water_Heat	Natural_Gas	New	0.5	40	001	001	002
Commercial	Office	Water_Heat	Electric	Existing	0	0	001	001	002
Commercial	Office	Water_Heat	Electric	New	0.5	40	001	001	002
Commercial	Office	Cooking	Natural_Gas	Existing	0	0	001	001	003
Commercial	Office	Cooking	Natural_Gas	New	0.5	40	001	001	003
Commercial	Office	Cooking	Electric	Existing	0	0	001	001	003
Commercial	Office	Cooking	Electric	New	0.5	40	001	001	003
Commercial	Office	AC_Compressor	Natural_Gas	Existing	0	0	001	001	010
Commercial	Office	AC_Compressor	Natural_Gas	New	0.5	40	001	001	010
Commercial	Office	AC_Compressor	Electric	Existing	0	0	001	001	010
Commercial	Office	AC_Compressor	Electric	New	0.5	40	001	001	010
Commercial	Office	Other	Natural_Gas	Existing	0	0	001	001	011
Commercial	Office	Other	Natural_Gas	New	0.5	40	001	001	011
Commercial	Restaurant	Space_Heat	Natural_Gas	Existing	0	0	001	002	001
Commercial	Restaurant	Space_Heat	Natural_Gas	New	0.5	40	001	002	001
Commercial	Restaurant	Space_Heat	Electric	Existing	0	0	001	002	001
Commercial	Restaurant	Space_Heat	Electric	New	0.5	40	001	002	001
Commercial	Restaurant	Water_Heat	Natural_Gas	Existing	0	0	001	002	002
Commercial	Restaurant	Water_Heat	Natural_Gas	New	0.5	40	001	002	002
Commercial	Restaurant	Water_Heat	Electric	Existing	0	0	001	002	002
Commercial	Restaurant	Water_Heat	Electric	New	0.5	40	001	002	002
Commercial	Restaurant	Cook_top	Natural_Gas	Existing	0	0	001	002	004
Commercial	Restaurant	Cook_top	Natural_Gas	New	0.5	40	001	002	004

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	Restaurant	Cook_top	Electric	Existing	0	0	001	002	004
Commercial	Restaurant	Cook_top	Electric	New	0.5	40	001	002	004
Commercial	Restaurant	Fryer	Natural_Gas	Existing	0	0	001	002	005
Commercial	Restaurant	Fryer	Natural_Gas	New	0.5	40	001	002	005
Commercial	Restaurant	Fryer	Electric	Existing	0	0	001	002	005
Commercial	Restaurant	Fryer	Electric	New	0.5	40	001	002	005
Commercial	Restaurant	Griddle	Natural_Gas	Existing	0	0	001	002	006
Commercial	Restaurant	Griddle	Natural_Gas	New	0.5	40	001	002	006
Commercial	Restaurant	Griddle	Electric	Existing	0	0	001	002	006
Commercial	Restaurant	Griddle	Electric	New	0.5	40	001	002	006
Commercial	Restaurant	Other_Cooking	Natural_Gas	Existing	0	0	001	002	007
Commercial	Restaurant	Other_Cooking	Natural_Gas	New	0.5	40	001	002	007
Commercial	Restaurant	Other_Cooking	Electric	Existing	0	0	001	002	007
Commercial	Restaurant	Other_Cooking	Electric	New	0.5	40	001	002	007
Commercial	Restaurant	AC_Compressor	Natural_Gas	Existing	0	0	001	002	010
Commercial	Restaurant	AC_Compressor	Natural_Gas	New	0.5	40	001	002	010
Commercial	Restaurant	AC_Compressor	Electric	Existing	0	0	001	002	010
Commercial	Restaurant	AC_Compressor	Electric	New	0.5	40	001	002	010
Commercial	Restaurant	Other	Natural_Gas	Existing	0	0	001	002	011
Commercial	Restaurant	Other	Natural_Gas	New	0.5	40	001	002	011
Commercial	Retail	Space_Heat	Natural_Gas	Existing	0	0	001	003	001
Commercial	Retail	Space_Heat	Natural_Gas	New	0.5	40	001	003	001
Commercial	Retail	Space_Heat	Electric	Existing	0	0	001	003	001
Commercial	Retail	Space_Heat	Electric	New	0.5	40	001	003	001
Commercial	Retail	Water_Heat	Natural_Gas	Existing	0	0	001	003	002
Commercial	Retail	Water_Heat	Natural_Gas	New	0.5	40	001	003	002
Commercial	Retail	Water_Heat	Electric	Existing	0	0	001	003	002
Commercial	Retail	Water_Heat	Electric	New	0.5	40	001	003	002

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	Retail	Cooking	Natural_Gas	Existing	0	0	001	003	003
Commercial	Retail	Cooking	Natural_Gas	New	0.5	40	001	003	003
Commercial	Retail	Cooking	Electric	Existing	0	0	001	003	003
Commercial	Retail	Cooking	Electric	New	0.5	40	001	003	003
Commercial	Retail	Other	Natural_Gas	Existing	0	0	001	003	011
Commercial	Retail	Other	Natural_Gas	New	0.5	40	001	003	011
Commercial	Laundry	Space_Heat	Natural_Gas	Existing	0	0	001	004	001
Commercial	Laundry	Space_Heat	Natural_Gas	New	0.5	40	001	004	001
Commercial	Laundry	Space_Heat	Electric	Existing	0	0	001	004	001
Commercial	Laundry	Space_Heat	Electric	New	0.5	40	001	004	001
Commercial	Laundry	Water_Heat	Natural_Gas	Existing	0	0	001	004	002
Commercial	Laundry	Water_Heat	Natural_Gas	New	0.5	40	001	004	002
Commercial	Laundry	Water_Heat	Electric	Existing	0	0	001	004	002
Commercial	Laundry	Water_Heat	Electric	New	0.5	40	001	004	002
Commercial	Laundry	Drying	Natural_Gas	Existing	0	0	001	004	008
Commercial	Laundry	Drying	Natural_Gas	New	0.5	40	001	004	008
Commercial	Laundry	Drying	Electric	Existing	0	0	001	004	008
Commercial	Laundry	Drying	Electric	New	0.5	40	001	004	008
Commercial	Laundry	Other	Natural_Gas	Existing	0	0	001	004	011
Commercial	Laundry	Other	Natural_Gas	New	0.5	40	001	004	011
Commercial	Warehouse	Space_Heat	Natural_Gas	Existing	0	0	001	005	001
Commercial	Warehouse	Space_Heat	Natural_Gas	New	0.5	40	001	005	001
Commercial	Warehouse	Space_Heat	Electric	Existing	0	0	001	005	001
Commercial	Warehouse	Space_Heat	Electric	New	0.5	40	001	005	001
Commercial	Warehouse	Water_Heat	Natural_Gas	Existing	0	0	001	005	002
Commercial	Warehouse	Water_Heat	Natural_Gas	New	0.5	40	001	005	002
Commercial	Warehouse	Water_Heat	Electric	Existing	0	0	001	005	002
Commercial	Warehouse	Water_Heat	Electric	New	0.5	40	001	005	002

SAN DIEGO GAS & ELECTRIC

CORE COMMERCIAL:

EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	Warehouse	Engine	Natural_Gas	Existing	0	0	001	005	009
Commercial	Warehouse	Engine	Natural_Gas	New	0.5	40	001	005	009
Commercial	Warehouse	Engine	Electric	Existing	0	0	001	005	009
Commercial	Warehouse	Engine	Electric	New	0.5	40	001	005	009
Commercial	Warehouse	Other	Natural_Gas	Existing	0	0	001	005	011
Commercial	Warehouse	Other	Natural_Gas	New	0.5	40	001	005	011
Commercial	School	Space_Heat	Natural_Gas	Existing	0	0	001	006	001
Commercial	School	Space_Heat	Natural_Gas	New	0.5	40	001	006	001
Commercial	School	Space_Heat	Electric	Existing	0	0	001	006	001
Commercial	School	Space_Heat	Electric	New	0.5	40	001	006	001
Commercial	School	Water_Heat	Natural_Gas	Existing	0	0	001	006	002
Commercial	School	Water_Heat	Natural_Gas	New	0.5	40	001	006	002
Commercial	School	Water_Heat	Electric	Existing	0	0	001	006	002
Commercial	School	Water_Heat	Electric	New	0.5	40	001	006	002
Commercial	School	Cook_top	Natural_Gas	Existing	0	0	001	006	004
Commercial	School	Cook_top	Natural_Gas	New	0.5	40	001	006	004
Commercial	School	Cook_top	Electric	Existing	0	0	001	006	004
Commercial	School	Cook_top	Electric	New	0.5	40	001	006	004
Commercial	School	Fryer	Natural_Gas	Existing	0	0	001	006	005
Commercial	School	Fryer	Natural_Gas	New	0.5	40	001	006	005
Commercial	School	Fryer	Electric	Existing	0	0	001	006	005
Commercial	School	Fryer	Electric	New	0.5	40	001	006	005
Commercial	School	Griddle	Natural_Gas	Existing	0	0	001	006	006
Commercial	School	Griddle	Natural_Gas	New	0.5	40	001	006	006
Commercial	School	Griddle	Electric	Existing	0	0	001	006	006
Commercial	School	Griddle	Electric	New	0.5	40	001	006	006
Commercial	School	Other_Cooking	Natural_Gas	Existing	0	0	001	006	007
Commercial	School	Other_Cooking	Natural_Gas	New	0.5	40	001	006	007

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	School	Other_Cooking	Electric	Existing	0	0	001	006	007
Commercial	School	Other_Cooking	Electric	New	0.5	40	001	006	007
Commercial	School	AC_Compressor	Natural_Gas	Existing	0	0	001	006	010
Commercial	School	AC_Compressor	Natural_Gas	New	0.5	40	001	006	010
Commercial	School	AC_Compressor	Electric	Existing	0	0	001	006	010
Commercial	School	AC_Compressor	Electric	New	0.5	40	001	006	010
Commercial	School	Other	Natural_Gas	Existing	0	0	001	006	011
Commercial	School	Other	Natural_Gas	New	0.5	40	001	006	011
Commercial	College	Space_Heat	Natural_Gas	Existing	0	0	001	007	001
Commercial	College	Space_Heat	Natural_Gas	New	0.5	40	001	007	001
Commercial	College	Space_Heat	Electric	Existing	0	0	001	007	001
Commercial	College	Space_Heat	Electric	New	0.5	40	001	007	001
Commercial	College	Water_Heat	Natural_Gas	Existing	0	0	001	007	002
Commercial	College	Water_Heat	Natural_Gas	New	0.5	40	001	007	002
Commercial	College	Water_Heat	Electric	Existing	0	0	001	007	002
Commercial	College	Water_Heat	Electric	New	0.5	40	001	007	002
Commercial	College	Cook_top	Natural_Gas	Existing	0	0	001	007	004
Commercial	College	Cook_top	Natural_Gas	New	0.5	40	001	007	004
Commercial	College	Cook_top	Electric	Existing	0	0	001	007	004
Commercial	College	Cook_top	Electric	New	0.5	40	001	007	004
Commercial	College	Fryer	Natural_Gas	Existing	0	0	001	007	005
Commercial	College	Fryer	Natural_Gas	New	0.5	40	001	007	005
Commercial	College	Fryer	Electric	Existing	0	0	001	007	005
Commercial	College	Fryer	Electric	New	0.5	40	001	007	005
Commercial	College	Griddle	Natural_Gas	Existing	0	0	001	007	006
Commercial	College	Griddle	Natural_Gas	New	0.5	40	001	007	006
Commercial	College	Griddle	Electric	Existing	0	0	001	007	006
Commercial	College	Griddle	Electric	New	0.5	40	001	007	006

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	College	Other_Cooking	Natural_Gas	Existing	0	0	001	007	007
Commercial	College	Other_Cooking	Natural_Gas	New	0.5	40	001	007	007
Commercial	College	Other_Cooking	Electric	Existing	0	0	001	007	007
Commercial	College	Other_Cooking	Electric	New	0.5	40	001	007	007
Commercial	College	AC_Compressor	Natural_Gas	Existing	0	0	001	007	010
Commercial	College	AC_Compressor	Natural_Gas	New	0.5	40	001	007	010
Commercial	College	AC_Compressor	Electric	Existing	0	0	001	007	010
Commercial	College	AC_Compressor	Electric	New	0.5	40	001	007	010
Commercial	College	Other	Natural_Gas	Existing	0	0	001	007	011
Commercial	College	Other	Natural_Gas	New	0.5	40	001	007	011
Commercial	Health	Space_Heat	Natural_Gas	Existing	0	0	001	008	001
Commercial	Health	Space_Heat	Natural_Gas	New	0.5	40	001	008	001
Commercial	Health	Space_Heat	Electric	Existing	0	0	001	008	001
Commercial	Health	Space_Heat	Electric	New	0.5	40	001	008	001
Commercial	Health	Water_Heat	Natural_Gas	Existing	0	0	001	008	002
Commercial	Health	Water_Heat	Natural_Gas	New	0.5	40	001	008	002
Commercial	Health	Water_Heat	Electric	Existing	0	0	001	008	002
Commercial	Health	Water_Heat	Electric	New	0.5	40	001	008	002
Commercial	Health	Cook_top	Natural_Gas	Existing	0	0	001	008	004
Commercial	Health	Cook_top	Natural_Gas	New	0.5	40	001	008	004
Commercial	Health	Cook_top	Electric	Existing	0	0	001	008	004
Commercial	Health	Cook_top	Electric	New	0.5	40	001	008	004
Commercial	Health	Fryer	Natural_Gas	Existing	0	0	001	008	005
Commercial	Health	Fryer	Natural_Gas	New	0.5	40	001	008	005
Commercial	Health	Fryer	Electric	Existing	0	0	001	008	005
Commercial	Health	Fryer	Electric	New	0.5	40	001	008	005
Commercial	Health	Griddle	Natural_Gas	Existing	0	0	001	008	006
Commercial	Health	Griddle	Natural_Gas	New	0.5	40	001	008	006

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	Health	Griddle	Electric	Existing	0	0	001	008	006
Commercial	Health	Griddle	Electric	New	0.5	40	001	008	006
Commercial	Health	Other_Cooking	Natural_Gas	Existing	0	0	001	008	007
Commercial	Health	Other_Cooking	Natural_Gas	New	0.5	40	001	008	007
Commercial	Health	Other_Cooking	Electric	Existing	0	0	001	008	007
Commercial	Health	Other_Cooking	Electric	New	0.5	40	001	008	007
Commercial	Health	Drying	Natural_Gas	Existing	0	0	001	008	008
Commercial	Health	Drying	Natural_Gas	New	0.5	40	001	008	008
Commercial	Health	Drying	Electric	Existing	0	0	001	008	008
Commercial	Health	Drying	Electric	New	0.5	40	001	008	008
Commercial	Health	AC_Compressor	Natural_Gas	Existing	0	0	001	008	010
Commercial	Health	AC_Compressor	Natural_Gas	New	0.5	40	001	008	010
Commercial	Health	AC_Compressor	Electric	Existing	0	0	001	008	010
Commercial	Health	AC_Compressor	Electric	New	0.5	40	001	008	010
Commercial	Health	Other	Natural_Gas	Existing	0	0	001	008	011
Commercial	Health	Other	Natural_Gas	New	0.5	40	001	008	011
Commercial	Lodging	Space_Heat	Natural_Gas	Existing	0	0	001	009	001
Commercial	Lodging	Space_Heat	Natural_Gas	New	0.5	40	001	009	001
Commercial	Lodging	Space_Heat	Electric	Existing	0	0	001	009	001
Commercial	Lodging	Space_Heat	Electric	New	0.5	40	001	009	001
Commercial	Lodging	Water_Heat	Natural_Gas	Existing	0	0	001	009	002
Commercial	Lodging	Water_Heat	Natural_Gas	New	0.5	40	001	009	002
Commercial	Lodging	Water_Heat	Electric	Existing	0	0	001	009	002
Commercial	Lodging	Water_Heat	Electric	New	0.5	40	001	009	002
Commercial	Lodging	Cook_top	Natural_Gas	Existing	0	0	001	009	004
Commercial	Lodging	Cook_top	Natural_Gas	New	0.5	40	001	009	004
Commercial	Lodging	Cook_top	Electric	Existing	0	0	001	009	004
Commercial	Lodging	Cook_top	Electric	New	0.5	40	001	009	004

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial Lodging	Fryer	Natural_Gas	Existing	0	0	001	009	005	
Commercial Lodging	Fryer	Natural_Gas	New	0.5	40	001	009	005	
Commercial Lodging	Fryer	Electric	Existing	0	0	001	009	005	
Commercial Lodging	Fryer	Electric	New	0.5	40	001	009	005	
Commercial Lodging	Griddle	Natural_Gas	Existing	0	0	001	009	006	
Commercial Lodging	Griddle	Natural_Gas	New	0.5	40	001	009	006	
Commercial Lodging	Griddle	Electric	Existing	0	0	001	009	006	
Commercial Lodging	Griddle	Electric	New	0.5	40	001	009	006	
Commercial Lodging	Other_Cooking	Natural_Gas	Existing	0	0	001	009	007	
Commercial Lodging	Other_Cooking	Natural_Gas	New	0.5	40	001	009	007	
Commercial Lodging	Other_Cooking	Electric	Existing	0	0	001	009	007	
Commercial Lodging	Other_Cooking	Electric	New	0.5	40	001	009	007	
Commercial Lodging	Drying	Natural_Gas	Existing	0	0	001	009	008	
Commercial Lodging	Drying	Natural_Gas	New	0.5	40	001	009	008	
Commercial Lodging	Drying	Electric	Existing	0	0	001	009	008	
Commercial Lodging	Drying	Electric	New	0.5	40	001	009	008	
Commercial Lodging	AC_Compressor	Natural_Gas	Existing	0	0	001	009	010	
Commercial Lodging	AC_Compressor	Natural_Gas	New	0.5	40	001	009	010	
Commercial Lodging	AC_Compressor	Electric	Existing	0	0	001	009	010	
Commercial Lodging	AC_Compressor	Electric	New	0.5	40	001	009	010	
Commercial Lodging	Other	Natural_Gas	Existing	0	0	001	009	011	
Commercial Lodging	Other	Natural_Gas	New	0.5	40	001	009	011	
Commercial Misc	Space_Heat	Natural_Gas	Existing	0	0	001	010	001	
Commercial Misc	Space_Heat	Natural_Gas	New	0.5	40	001	010	001	
Commercial Misc	Space_Heat	Electric	Existing	0	0	001	010	001	
Commercial Misc	Space_Heat	Electric	New	0.5	40	001	010	001	
Commercial Misc	Water_Heat	Natural_Gas	Existing	0	0	001	010	002	
Commercial Misc	Water_Heat	Natural_Gas	New	0.5	40	001	010	002	

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	Misc	Water_Heat	Electric	Existing	0	0	001	010	002
Commercial	Misc	Water_Heat	Electric	New	0.5	40	001	010	002
Commercial	Misc	Cook_top	Natural_Gas	Existing	0	0	001	010	004
Commercial	Misc	Cook_top	Natural_Gas	New	0.5	40	001	010	004
Commercial	Misc	Cook_top	Electric	Existing	0	0	001	010	004
Commercial	Misc	Cook_top	Electric	New	0.5	40	001	010	004
Commercial	Misc	Fryer	Natural_Gas	Existing	0	0	001	010	005
Commercial	Misc	Fryer	Natural_Gas	New	0.5	40	001	010	005
Commercial	Misc	Fryer	Electric	Existing	0	0	001	010	005
Commercial	Misc	Fryer	Electric	New	0.5	40	001	010	005
Commercial	Misc	Griddle	Natural_Gas	Existing	0	0	001	010	006
Commercial	Misc	Griddle	Natural_Gas	New	0.5	40	001	010	006
Commercial	Misc	Griddle	Electric	Existing	0	0	001	010	006
Commercial	Misc	Griddle	Electric	New	0.5	40	001	010	006
Commercial	Misc	Other_Cooking	Natural_Gas	Existing	0	0	001	010	007
Commercial	Misc	Other_Cooking	Natural_Gas	New	0.5	40	001	010	007
Commercial	Misc	Other_Cooking	Electric	Existing	0	0	001	010	007
Commercial	Misc	Other_Cooking	Electric	New	0.5	40	001	010	007
Commercial	Misc	AC_Compressor	Natural_Gas	Existing	0	0	001	010	010
Commercial	Misc	AC_Compressor	Natural_Gas	New	0.5	40	001	010	010
Commercial	Misc	AC_Compressor	Electric	Existing	0	0	001	010	010
Commercial	Misc	AC_Compressor	Electric	New	0.5	40	001	010	010
Commercial	Misc	Other	Natural_Gas	Existing	0	0	001	010	011
Commercial	Misc	Other	Natural_Gas	New	0.5	40	001	010	011
Commercial	Government	Space_Heat	Natural_Gas	Existing	0	0	001	011	001
Commercial	Government	Space_Heat	Natural_Gas	New	0.5	40	001	011	001
Commercial	Government	Space_Heat	Electric	Existing	0	0	001	011	001
Commercial	Government	Space_Heat	Electric	New	0.5	40	001	011	001

SAN DIEGO GAS & ELECTRIC

CORE COMMERCIAL:

EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	Government	Water_Heat	Natural_Gas	Existing	0	0	001	011	002
Commercial	Government	Water_Heat	Natural_Gas	New	0.5	40	001	011	002
Commercial	Government	Water_Heat	Electric	Existing	0	0	001	011	002
Commercial	Government	Water_Heat	Electric	New	0.5	40	001	011	002
Commercial	Government	Cook_top	Natural_Gas	Existing	0	0	001	011	004
Commercial	Government	Cook_top	Natural_Gas	New	0.5	40	001	011	004
Commercial	Government	Cook_top	Electric	Existing	0	0	001	011	004
Commercial	Government	Cook_top	Electric	New	0.5	40	001	011	004
Commercial	Government	Fryer	Natural_Gas	Existing	0	0	001	011	005
Commercial	Government	Fryer	Natural_Gas	New	0.5	40	001	011	005
Commercial	Government	Fryer	Electric	Existing	0	0	001	011	005
Commercial	Government	Fryer	Electric	New	0.5	40	001	011	005
Commercial	Government	Griddle	Natural_Gas	Existing	0	0	001	011	006
Commercial	Government	Griddle	Natural_Gas	New	0.5	40	001	011	006
Commercial	Government	Griddle	Electric	Existing	0	0	001	011	006
Commercial	Government	Griddle	Electric	New	0.5	40	001	011	006
Commercial	Government	Other_Cooking	Natural_Gas	Existing	0	0	001	011	007
Commercial	Government	Other_Cooking	Natural_Gas	New	0.5	40	001	011	007
Commercial	Government	Other_Cooking	Electric	Existing	0	0	001	011	007
Commercial	Government	Other_Cooking	Electric	New	0.5	40	001	011	007
Commercial	Government	AC_Compressor	Natural_Gas	Existing	0	0	001	011	010
Commercial	Government	AC_Compressor	Natural_Gas	New	0.5	40	001	011	010
Commercial	Government	AC_Compressor	Electric	Existing	0	0	001	011	010
Commercial	Government	AC_Compressor	Electric	New	0.5	40	001	011	010
Commercial	Government	Other	Natural_Gas	Existing	0	0	001	011	011
Commercial	Government	Other	Natural_Gas	New	0.5	40	001	011	011
Commercial	TCU	Space_Heat	Natural_Gas	Existing	0	0	001	012	001
Commercial	TCU	Space_Heat	Natural_Gas	New	0.5	40	001	012	001

SAN DIEGO GAS & ELECTRIC

CORE COMMERCIAL:

EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	TCU	Space_Heat	Electric	Existing	0	0	001	012	001
Commercial	TCU	Space_Heat	Electric	New	0.5	40	001	012	001
Commercial	TCU	Water_Heat	Natural_Gas	Existing	0	0	001	012	002
Commercial	TCU	Water_Heat	Natural_Gas	New	0.5	40	001	012	002
Commercial	TCU	Water_Heat	Electric	Existing	0	0	001	012	002
Commercial	TCU	Water_Heat	Electric	New	0.5	40	001	012	002
Commercial	TCU	Engine	Natural_Gas	Existing	0	0	001	012	009
Commercial	TCU	Engine	Natural_Gas	New	0.5	40	001	012	009
Commercial	TCU	Engine	Electric	Existing	0	0	001	012	009
Commercial	TCU	Engine	Electric	New	0.5	40	001	012	009
Commercial	TCU	Other	Natural_Gas	Existing	0	0	001	012	011
Commercial	TCU	Other	Natural_Gas	New	0.5	40	001	012	011
Commercial	Constructic	Space_Heat	Natural_Gas	Existing	0	0	001	013	001
Commercial	Constructic	Space_Heat	Natural_Gas	New	0.5	40	001	013	001
Commercial	Constructic	Space_Heat	Electric	Existing	0	0	001	013	001
Commercial	Constructic	Space_Heat	Electric	New	0.5	40	001	013	001
Commercial	Constructic	Water_Heat	Natural_Gas	Existing	0	0	001	013	002
Commercial	Constructic	Water_Heat	Natural_Gas	New	0.5	40	001	013	002
Commercial	Constructic	Water_Heat	Electric	Existing	0	0	001	013	002
Commercial	Constructic	Water_Heat	Electric	New	0.5	40	001	013	002
Commercial	Constructic	Other	Natural_Gas	Existing	0	0	001	013	011
Commercial	Constructic	Other	Natural_Gas	New	0.5	40	001	013	011
Commercial	Agriculture	Space_Heat	Natural_Gas	Existing	0	0	001	014	001
Commercial	Agriculture	Space_Heat	Natural_Gas	New	0.5	40	001	014	001
Commercial	Agriculture	Space_Heat	Electric	Existing	0	0	001	014	001
Commercial	Agriculture	Space_Heat	Electric	New	0.5	40	001	014	001
Commercial	Agriculture	Water_Heat	Natural_Gas	Existing	0	0	001	014	002
Commercial	Agriculture	Water_Heat	Natural_Gas	New	0.5	40	001	014	002

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	equipmentDecayParm3	equipmentDecayParm4	z	b	n
Commercial	Agriculture	Water_Heat	Electric	Existing	0	0	001	014	002
Commercial	Agriculture	Water_Heat	Electric	New	0.5	40	001	014	002
Commercial	Agriculture	Drying	Natural_Gas	Existing	0	0	001	014	008
Commercial	Agriculture	Drying	Natural_Gas	New	0.5	40	001	014	008
Commercial	Agriculture	Drying	Electric	Existing	0	0	001	014	008
Commercial	Agriculture	Drying	Electric	New	0.5	40	001	014	008
Commercial	Agriculture	Engine	Natural_Gas	Existing	0	0	001	014	009
Commercial	Agriculture	Engine	Natural_Gas	New	0.5	40	001	014	009
Commercial	Agriculture	Engine	Electric	Existing	0	0	001	014	009
Commercial	Agriculture	Engine	Electric	New	0.5	40	001	014	009
Commercial	Agriculture	Other	Natural_Gas	Existing	0	0	001	014	011
Commercial	Agriculture	Other	Natural_Gas	New	0.5	40	001	014	011

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	Office	Space_Heat	Natural_Gas	Existing	1
Commercial	Office	Space_Heat	Natural_Gas	New	1
Commercial	Office	Space_Heat	Electric	Existing	2
Commercial	Office	Space_Heat	Electric	New	2
Commercial	Office	Water_Heat	Natural_Gas	Existing	1
Commercial	Office	Water_Heat	Natural_Gas	New	1
Commercial	Office	Water_Heat	Electric	Existing	2
Commercial	Office	Water_Heat	Electric	New	2
Commercial	Office	Cooking	Natural_Gas	Existing	1
Commercial	Office	Cooking	Natural_Gas	New	1
Commercial	Office	Cooking	Electric	Existing	2
Commercial	Office	Cooking	Electric	New	2
Commercial	Office	AC_Compressor	Natural_Gas	Existing	1
Commercial	Office	AC_Compressor	Natural_Gas	New	1
Commercial	Office	AC_Compressor	Electric	Existing	2
Commercial	Office	AC_Compressor	Electric	New	2
Commercial	Office	Other	Natural_Gas	Existing	1
Commercial	Office	Other	Natural_Gas	New	1
Commercial	Restaurant	Space_Heat	Natural_Gas	Existing	1
Commercial	Restaurant	Space_Heat	Natural_Gas	New	1
Commercial	Restaurant	Space_Heat	Electric	Existing	2
Commercial	Restaurant	Space_Heat	Electric	New	2
Commercial	Restaurant	Water_Heat	Natural_Gas	Existing	1
Commercial	Restaurant	Water_Heat	Natural_Gas	New	1
Commercial	Restaurant	Water_Heat	Electric	Existing	2
Commercial	Restaurant	Water_Heat	Electric	New	2
Commercial	Restaurant	Cook_top	Natural_Gas	Existing	1
Commercial	Restaurant	Cook_top	Natural_Gas	New	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	Restaurant	Cook_top	Electric	Existing	2
Commercial	Restaurant	Cook_top	Electric	New	2
Commercial	Restaurant	Fryer	Natural_Gas	Existing	1
Commercial	Restaurant	Fryer	Natural_Gas	New	1
Commercial	Restaurant	Fryer	Electric	Existing	2
Commercial	Restaurant	Fryer	Electric	New	2
Commercial	Restaurant	Griddle	Natural_Gas	Existing	1
Commercial	Restaurant	Griddle	Natural_Gas	New	1
Commercial	Restaurant	Griddle	Electric	Existing	2
Commercial	Restaurant	Griddle	Electric	New	2
Commercial	Restaurant	Other_Cooking	Natural_Gas	Existing	1
Commercial	Restaurant	Other_Cooking	Natural_Gas	New	1
Commercial	Restaurant	Other_Cooking	Electric	Existing	2
Commercial	Restaurant	Other_Cooking	Electric	New	2
Commercial	Restaurant	AC_Compressor	Natural_Gas	Existing	1
Commercial	Restaurant	AC_Compressor	Natural_Gas	New	1
Commercial	Restaurant	AC_Compressor	Electric	Existing	2
Commercial	Restaurant	AC_Compressor	Electric	New	2
Commercial	Restaurant	Other	Natural_Gas	Existing	1
Commercial	Restaurant	Other	Natural_Gas	New	1
Commercial	Retail	Space_Heat	Natural_Gas	Existing	1
Commercial	Retail	Space_Heat	Natural_Gas	New	1
Commercial	Retail	Space_Heat	Electric	Existing	2
Commercial	Retail	Space_Heat	Electric	New	2
Commercial	Retail	Water_Heat	Natural_Gas	Existing	1
Commercial	Retail	Water_Heat	Natural_Gas	New	1
Commercial	Retail	Water_Heat	Electric	Existing	2
Commercial	Retail	Water_Heat	Electric	New	2

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	Retail	Cooking	Natural_Gas	Existing	1
Commercial	Retail	Cooking	Natural_Gas	New	1
Commercial	Retail	Cooking	Electric	Existing	2
Commercial	Retail	Cooking	Electric	New	2
Commercial	Retail	Other	Natural_Gas	Existing	1
Commercial	Retail	Other	Natural_Gas	New	1
Commercial	Laundry	Space_Heat	Natural_Gas	Existing	1
Commercial	Laundry	Space_Heat	Natural_Gas	New	1
Commercial	Laundry	Space_Heat	Electric	Existing	2
Commercial	Laundry	Space_Heat	Electric	New	2
Commercial	Laundry	Water_Heat	Natural_Gas	Existing	1
Commercial	Laundry	Water_Heat	Natural_Gas	New	1
Commercial	Laundry	Water_Heat	Electric	Existing	2
Commercial	Laundry	Water_Heat	Electric	New	2
Commercial	Laundry	Drying	Natural_Gas	Existing	1
Commercial	Laundry	Drying	Natural_Gas	New	1
Commercial	Laundry	Drying	Electric	Existing	2
Commercial	Laundry	Drying	Electric	New	2
Commercial	Laundry	Other	Natural_Gas	Existing	1
Commercial	Laundry	Other	Natural_Gas	New	1
Commercial	Warehouse	Space_Heat	Natural_Gas	Existing	1
Commercial	Warehouse	Space_Heat	Natural_Gas	New	1
Commercial	Warehouse	Space_Heat	Electric	Existing	2
Commercial	Warehouse	Space_Heat	Electric	New	2
Commercial	Warehouse	Water_Heat	Natural_Gas	Existing	1
Commercial	Warehouse	Water_Heat	Natural_Gas	New	1
Commercial	Warehouse	Water_Heat	Electric	Existing	2
Commercial	Warehouse	Water_Heat	Electric	New	2

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	Warehouse	Engine	Natural_Gas	Existing	1
Commercial	Warehouse	Engine	Natural_Gas	New	1
Commercial	Warehouse	Engine	Electric	Existing	2
Commercial	Warehouse	Engine	Electric	New	2
Commercial	Warehouse	Other	Natural_Gas	Existing	1
Commercial	Warehouse	Other	Natural_Gas	New	1
Commercial	School	Space_Heat	Natural_Gas	Existing	1
Commercial	School	Space_Heat	Natural_Gas	New	1
Commercial	School	Space_Heat	Electric	Existing	2
Commercial	School	Space_Heat	Electric	New	2
Commercial	School	Water_Heat	Natural_Gas	Existing	1
Commercial	School	Water_Heat	Natural_Gas	New	1
Commercial	School	Water_Heat	Electric	Existing	2
Commercial	School	Water_Heat	Electric	New	2
Commercial	School	Cook_top	Natural_Gas	Existing	1
Commercial	School	Cook_top	Natural_Gas	New	1
Commercial	School	Cook_top	Electric	Existing	2
Commercial	School	Cook_top	Electric	New	2
Commercial	School	Fryer	Natural_Gas	Existing	1
Commercial	School	Fryer	Natural_Gas	New	1
Commercial	School	Fryer	Electric	Existing	2
Commercial	School	Fryer	Electric	New	2
Commercial	School	Griddle	Natural_Gas	Existing	1
Commercial	School	Griddle	Natural_Gas	New	1
Commercial	School	Griddle	Electric	Existing	2
Commercial	School	Griddle	Electric	New	2
Commercial	School	Other_Cooking	Natural_Gas	Existing	1
Commercial	School	Other_Cooking	Natural_Gas	New	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	School	Other_Cooking	Electric	Existing	2
Commercial	School	Other_Cooking	Electric	New	2
Commercial	School	AC_Compressor	Natural_Gas	Existing	1
Commercial	School	AC_Compressor	Natural_Gas	New	1
Commercial	School	AC_Compressor	Electric	Existing	2
Commercial	School	AC_Compressor	Electric	New	2
Commercial	School	Other	Natural_Gas	Existing	1
Commercial	School	Other	Natural_Gas	New	1
Commercial	College	Space_Heat	Natural_Gas	Existing	1
Commercial	College	Space_Heat	Natural_Gas	New	1
Commercial	College	Space_Heat	Electric	Existing	2
Commercial	College	Space_Heat	Electric	New	2
Commercial	College	Water_Heat	Natural_Gas	Existing	1
Commercial	College	Water_Heat	Natural_Gas	New	1
Commercial	College	Water_Heat	Electric	Existing	2
Commercial	College	Water_Heat	Electric	New	2
Commercial	College	Cook_top	Natural_Gas	Existing	1
Commercial	College	Cook_top	Natural_Gas	New	1
Commercial	College	Cook_top	Electric	Existing	2
Commercial	College	Cook_top	Electric	New	2
Commercial	College	Fryer	Natural_Gas	Existing	1
Commercial	College	Fryer	Natural_Gas	New	1
Commercial	College	Fryer	Electric	Existing	2
Commercial	College	Fryer	Electric	New	2
Commercial	College	Griddle	Natural_Gas	Existing	1
Commercial	College	Griddle	Natural_Gas	New	1
Commercial	College	Griddle	Electric	Existing	2
Commercial	College	Griddle	Electric	New	2

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	College	Other_Cooking	Natural_Gas	Existing	1
Commercial	College	Other_Cooking	Natural_Gas	New	1
Commercial	College	Other_Cooking	Electric	Existing	2
Commercial	College	Other_Cooking	Electric	New	2
Commercial	College	AC_Compressor	Natural_Gas	Existing	1
Commercial	College	AC_Compressor	Natural_Gas	New	1
Commercial	College	AC_Compressor	Electric	Existing	2
Commercial	College	AC_Compressor	Electric	New	2
Commercial	College	Other	Natural_Gas	Existing	1
Commercial	College	Other	Natural_Gas	New	1
Commercial	Health	Space_Heat	Natural_Gas	Existing	1
Commercial	Health	Space_Heat	Natural_Gas	New	1
Commercial	Health	Space_Heat	Electric	Existing	2
Commercial	Health	Space_Heat	Electric	New	2
Commercial	Health	Water_Heat	Natural_Gas	Existing	1
Commercial	Health	Water_Heat	Natural_Gas	New	1
Commercial	Health	Water_Heat	Electric	Existing	2
Commercial	Health	Water_Heat	Electric	New	2
Commercial	Health	Cook_top	Natural_Gas	Existing	1
Commercial	Health	Cook_top	Natural_Gas	New	1
Commercial	Health	Cook_top	Electric	Existing	2
Commercial	Health	Cook_top	Electric	New	2
Commercial	Health	Fryer	Natural_Gas	Existing	1
Commercial	Health	Fryer	Natural_Gas	New	1
Commercial	Health	Fryer	Electric	Existing	2
Commercial	Health	Fryer	Electric	New	2
Commercial	Health	Griddle	Natural_Gas	Existing	1
Commercial	Health	Griddle	Natural_Gas	New	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	Health	Griddle	Electric	Existing	2
Commercial	Health	Griddle	Electric	New	2
Commercial	Health	Other_Cooking	Natural_Gas	Existing	1
Commercial	Health	Other_Cooking	Natural_Gas	New	1
Commercial	Health	Other_Cooking	Electric	Existing	2
Commercial	Health	Other_Cooking	Electric	New	2
Commercial	Health	Drying	Natural_Gas	Existing	1
Commercial	Health	Drying	Natural_Gas	New	1
Commercial	Health	Drying	Electric	Existing	2
Commercial	Health	Drying	Electric	New	2
Commercial	Health	AC_Compressor	Natural_Gas	Existing	1
Commercial	Health	AC_Compressor	Natural_Gas	New	1
Commercial	Health	AC_Compressor	Electric	Existing	2
Commercial	Health	AC_Compressor	Electric	New	2
Commercial	Health	Other	Natural_Gas	Existing	1
Commercial	Health	Other	Natural_Gas	New	1
Commercial	Lodging	Space_Heat	Natural_Gas	Existing	1
Commercial	Lodging	Space_Heat	Natural_Gas	New	1
Commercial	Lodging	Space_Heat	Electric	Existing	2
Commercial	Lodging	Space_Heat	Electric	New	2
Commercial	Lodging	Water_Heat	Natural_Gas	Existing	1
Commercial	Lodging	Water_Heat	Natural_Gas	New	1
Commercial	Lodging	Water_Heat	Electric	Existing	2
Commercial	Lodging	Water_Heat	Electric	New	2
Commercial	Lodging	Cook_top	Natural_Gas	Existing	1
Commercial	Lodging	Cook_top	Natural_Gas	New	1
Commercial	Lodging	Cook_top	Electric	Existing	2
Commercial	Lodging	Cook_top	Electric	New	2

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	Lodging	Fryer	Natural_Gas	Existing	1
Commercial	Lodging	Fryer	Natural_Gas	New	1
Commercial	Lodging	Fryer	Electric	Existing	2
Commercial	Lodging	Fryer	Electric	New	2
Commercial	Lodging	Griddle	Natural_Gas	Existing	1
Commercial	Lodging	Griddle	Natural_Gas	New	1
Commercial	Lodging	Griddle	Electric	Existing	2
Commercial	Lodging	Griddle	Electric	New	2
Commercial	Lodging	Other_Cooking	Natural_Gas	Existing	1
Commercial	Lodging	Other_Cooking	Natural_Gas	New	1
Commercial	Lodging	Other_Cooking	Electric	Existing	2
Commercial	Lodging	Other_Cooking	Electric	New	2
Commercial	Lodging	Drying	Natural_Gas	Existing	1
Commercial	Lodging	Drying	Natural_Gas	New	1
Commercial	Lodging	Drying	Electric	Existing	2
Commercial	Lodging	Drying	Electric	New	2
Commercial	Lodging	AC_Compressor	Natural_Gas	Existing	1
Commercial	Lodging	AC_Compressor	Natural_Gas	New	1
Commercial	Lodging	AC_Compressor	Electric	Existing	2
Commercial	Lodging	AC_Compressor	Electric	New	2
Commercial	Lodging	Other	Natural_Gas	Existing	1
Commercial	Lodging	Other	Natural_Gas	New	1
Commercial	Misc	Space_Heat	Natural_Gas	Existing	1
Commercial	Misc	Space_Heat	Natural_Gas	New	1
Commercial	Misc	Space_Heat	Electric	Existing	2
Commercial	Misc	Space_Heat	Electric	New	2
Commercial	Misc	Water_Heat	Natural_Gas	Existing	1
Commercial	Misc	Water_Heat	Natural_Gas	New	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	Misc	Water_Heat	Electric	Existing	2
Commercial	Misc	Water_Heat	Electric	New	2
Commercial	Misc	Cook_top	Natural_Gas	Existing	1
Commercial	Misc	Cook_top	Natural_Gas	New	1
Commercial	Misc	Cook_top	Electric	Existing	2
Commercial	Misc	Cook_top	Electric	New	2
Commercial	Misc	Fryer	Natural_Gas	Existing	1
Commercial	Misc	Fryer	Natural_Gas	New	1
Commercial	Misc	Fryer	Electric	Existing	2
Commercial	Misc	Fryer	Electric	New	2
Commercial	Misc	Griddle	Natural_Gas	Existing	1
Commercial	Misc	Griddle	Natural_Gas	New	1
Commercial	Misc	Griddle	Electric	Existing	2
Commercial	Misc	Griddle	Electric	New	2
Commercial	Misc	Other_Cooking	Natural_Gas	Existing	1
Commercial	Misc	Other_Cooking	Natural_Gas	New	1
Commercial	Misc	Other_Cooking	Electric	Existing	2
Commercial	Misc	Other_Cooking	Electric	New	2
Commercial	Misc	AC_Compressor	Natural_Gas	Existing	1
Commercial	Misc	AC_Compressor	Natural_Gas	New	1
Commercial	Misc	AC_Compressor	Electric	Existing	2
Commercial	Misc	AC_Compressor	Electric	New	2
Commercial	Misc	Other	Natural_Gas	Existing	1
Commercial	Misc	Other	Natural_Gas	New	1
Commercial	Government	Space_Heat	Natural_Gas	Existing	1
Commercial	Government	Space_Heat	Natural_Gas	New	1
Commercial	Government	Space_Heat	Electric	Existing	2
Commercial	Government	Space_Heat	Electric	New	2

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	Government	Water_Heat	Natural_Gas	Existing	1
Commercial	Government	Water_Heat	Natural_Gas	New	1
Commercial	Government	Water_Heat	Electric	Existing	2
Commercial	Government	Water_Heat	Electric	New	2
Commercial	Government	Cook_top	Natural_Gas	Existing	1
Commercial	Government	Cook_top	Natural_Gas	New	1
Commercial	Government	Cook_top	Electric	Existing	2
Commercial	Government	Cook_top	Electric	New	2
Commercial	Government	Fryer	Natural_Gas	Existing	1
Commercial	Government	Fryer	Natural_Gas	New	1
Commercial	Government	Fryer	Electric	Existing	2
Commercial	Government	Fryer	Electric	New	2
Commercial	Government	Griddle	Natural_Gas	Existing	1
Commercial	Government	Griddle	Natural_Gas	New	1
Commercial	Government	Griddle	Electric	Existing	2
Commercial	Government	Griddle	Electric	New	2
Commercial	Government	Other_Cooking	Natural_Gas	Existing	1
Commercial	Government	Other_Cooking	Natural_Gas	New	1
Commercial	Government	Other_Cooking	Electric	Existing	2
Commercial	Government	Other_Cooking	Electric	New	2
Commercial	Government	AC_Compressor	Natural_Gas	Existing	1
Commercial	Government	AC_Compressor	Natural_Gas	New	1
Commercial	Government	AC_Compressor	Electric	Existing	2
Commercial	Government	AC_Compressor	Electric	New	2
Commercial	Government	Other	Natural_Gas	Existing	1
Commercial	Government	Other	Natural_Gas	New	1
Commercial	TCU	Space_Heat	Natural_Gas	Existing	1
Commercial	TCU	Space_Heat	Natural_Gas	New	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	TCU	Space_Heat	Electric	Existing	2
Commercial	TCU	Space_Heat	Electric	New	2
Commercial	TCU	Water_Heat	Natural_Gas	Existing	1
Commercial	TCU	Water_Heat	Natural_Gas	New	1
Commercial	TCU	Water_Heat	Electric	Existing	2
Commercial	TCU	Water_Heat	Electric	New	2
Commercial	TCU	Engine	Natural_Gas	Existing	1
Commercial	TCU	Engine	Natural_Gas	New	1
Commercial	TCU	Engine	Electric	Existing	2
Commercial	TCU	Engine	Electric	New	2
Commercial	TCU	Other	Natural_Gas	Existing	1
Commercial	TCU	Other	Natural_Gas	New	1
Commercial	Constructic	Space_Heat	Natural_Gas	Existing	1
Commercial	Constructic	Space_Heat	Natural_Gas	New	1
Commercial	Constructic	Space_Heat	Electric	Existing	2
Commercial	Constructic	Space_Heat	Electric	New	2
Commercial	Constructic	Water_Heat	Natural_Gas	Existing	1
Commercial	Constructic	Water_Heat	Natural_Gas	New	1
Commercial	Constructic	Water_Heat	Electric	Existing	2
Commercial	Constructic	Water_Heat	Electric	New	2
Commercial	Constructic	Other	Natural_Gas	Existing	1
Commercial	Constructic	Other	Natural_Gas	New	1
Commercial	Agriculture	Space_Heat	Natural_Gas	Existing	1
Commercial	Agriculture	Space_Heat	Natural_Gas	New	1
Commercial	Agriculture	Space_Heat	Electric	Existing	2
Commercial	Agriculture	Space_Heat	Electric	New	2
Commercial	Agriculture	Water_Heat	Natural_Gas	Existing	1
Commercial	Agriculture	Water_Heat	Natural_Gas	New	1

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT DECAY

zName	bName	nName	fName	conType	f
Commercial	Agriculture	Water_Heat	Electric	Existing	2
Commercial	Agriculture	Water_Heat	Electric	New	2
Commercial	Agriculture	Drying	Natural_Gas	Existing	1
Commercial	Agriculture	Drying	Natural_Gas	New	1
Commercial	Agriculture	Drying	Electric	Existing	2
Commercial	Agriculture	Drying	Electric	New	2
Commercial	Agriculture	Engine	Natural_Gas	Existing	1
Commercial	Agriculture	Engine	Natural_Gas	New	1
Commercial	Agriculture	Engine	Electric	Existing	2
Commercial	Agriculture	Engine	Electric	New	2
Commercial	Agriculture	Other	Natural_Gas	Existing	1
Commercial	Agriculture	Other	Natural_Gas	New	1

SAN DIEGO GAS & ELECTRIC
 CORE COMMERCIAL: EQUIPMENT AGE

zName	bName	nName	vintage	equipmentMeanAge
Commercial	Office	Space_Heat	-1	24
Commercial	Office	Space_Heat	0	24
Commercial	Office	Water_Heat	-1	27
Commercial	Office	Water_Heat	0	27
Commercial	Office	Cooking	-1	27
Commercial	Office	Cooking	0	27
Commercial	Office	AC_Compressor	-1	10
Commercial	Office	AC_Compressor	0	10
Commercial	Office	Other	-1	35
Commercial	Office	Other	0	35
Commercial	Restaurant	Space_Heat	-1	23
Commercial	Restaurant	Space_Heat	0	23
Commercial	Restaurant	Water_Heat	-1	22
Commercial	Restaurant	Water_Heat	0	22
Commercial	Restaurant	Cook_top	-1	23
Commercial	Restaurant	Cook_top	0	23
Commercial	Restaurant	Fryer	-1	24
Commercial	Restaurant	Fryer	0	24
Commercial	Restaurant	Griddle	-1	24
Commercial	Restaurant	Griddle	0	24
Commercial	Restaurant	Other_Cooking	-1	29
Commercial	Restaurant	Other_Cooking	0	29
Commercial	Restaurant	AC_Compressor	-1	17
Commercial	Restaurant	AC_Compressor	0	17
Commercial	Restaurant	Other	-1	30
Commercial	Restaurant	Other	0	30
Commercial	Retail	Space_Heat	-1	17
Commercial	Retail	Space_Heat	0	17
Commercial	Retail	Water_Heat	-1	27
Commercial	Retail	Water_Heat	0	27
Commercial	Retail	Cooking	-1	18
Commercial	Retail	Cooking	0	18
Commercial	Retail	Other	-1	35
Commercial	Retail	Other	0	35
Commercial	Laundry	Space_Heat	-1	25
Commercial	Laundry	Space_Heat	0	25
Commercial	Laundry	Water_Heat	-1	11
Commercial	Laundry	Water_Heat	0	11
Commercial	Laundry	Drying	-1	19
Commercial	Laundry	Drying	0	19

SAN DIEGO GAS & ELECTRIC
 CORE COMMERCIAL: EQUIPMENT AGE

zName	bName	nName	vintage	equipmentMeanAge
Commercial	Laundry	Other	-1	4
Commercial	Laundry	Other	0	4
Commercial	Warehouse	Space_Heat	-1	23
Commercial	Warehouse	Space_Heat	0	23
Commercial	Warehouse	Water_Heat	-1	26
Commercial	Warehouse	Water_Heat	0	26
Commercial	Warehouse	Engine	-1	14
Commercial	Warehouse	Engine	0	14
Commercial	Warehouse	Other	-1	34
Commercial	Warehouse	Other	0	34
Commercial	School	Space_Heat	-1	17
Commercial	School	Space_Heat	0	17
Commercial	School	Water_Heat	-1	28
Commercial	School	Water_Heat	0	28
Commercial	School	Cook_top	-1	29
Commercial	School	Cook_top	0	29
Commercial	School	Fryer	-1	31
Commercial	School	Fryer	0	31
Commercial	School	Griddle	-1	36
Commercial	School	Griddle	0	36
Commercial	School	Other_Cooking	-1	42
Commercial	School	Other_Cooking	0	42
Commercial	School	AC_Compressor	-1	37
Commercial	School	AC_Compressor	0	37
Commercial	School	Other	-1	37
Commercial	School	Other	0	37
Commercial	College	Space_Heat	-1	16
Commercial	College	Space_Heat	0	16
Commercial	College	Water_Heat	-1	22
Commercial	College	Water_Heat	0	22
Commercial	College	Cook_top	-1	32
Commercial	College	Cook_top	0	32
Commercial	College	Fryer	-1	42
Commercial	College	Fryer	0	42
Commercial	College	Griddle	-1	30
Commercial	College	Griddle	0	30
Commercial	College	Other_Cooking	-1	39
Commercial	College	Other_Cooking	0	39
Commercial	College	AC_Compressor	-1	31
Commercial	College	AC_Compressor	0	31

SAN DIEGO GAS & ELECTRIC
 CORE COMMERCIAL: EQUIPMENT AGE

zName	bName	nName	vintage	equipmentMeanAge
Commercial	College	Other	-1	36
Commercial	College	Other	0	36
Commercial	Health	Space_Heat	-1	25
Commercial	Health	Space_Heat	0	25
Commercial	Health	Water_Heat	-1	26
Commercial	Health	Water_Heat	0	26
Commercial	Health	Cook_top	-1	30
Commercial	Health	Cook_top	0	30
Commercial	Health	Fryer	-1	31
Commercial	Health	Fryer	0	31
Commercial	Health	Griddle	-1	34
Commercial	Health	Griddle	0	34
Commercial	Health	Other_Cooking	-1	36
Commercial	Health	Other_Cooking	0	36
Commercial	Health	Drying	-1	30
Commercial	Health	Drying	0	30
Commercial	Health	AC_Compressor	-1	35
Commercial	Health	AC_Compressor	0	35
Commercial	Health	Other	-1	36
Commercial	Health	Other	0	36
Commercial	Lodging	Space_Heat	-1	17
Commercial	Lodging	Space_Heat	0	17
Commercial	Lodging	Water_Heat	-1	20
Commercial	Lodging	Water_Heat	0	20
Commercial	Lodging	Cook_top	-1	18
Commercial	Lodging	Cook_top	0	18
Commercial	Lodging	Fryer	-1	20
Commercial	Lodging	Fryer	0	20
Commercial	Lodging	Griddle	-1	31
Commercial	Lodging	Griddle	0	31
Commercial	Lodging	Other_Cooking	-1	37
Commercial	Lodging	Other_Cooking	0	37
Commercial	Lodging	Drying	-1	25
Commercial	Lodging	Drying	0	25
Commercial	Lodging	AC_Compressor	-1	35
Commercial	Lodging	AC_Compressor	0	35
Commercial	Lodging	Other	-1	33
Commercial	Lodging	Other	0	33
Commercial	Misc	Space_Heat	-1	28
Commercial	Misc	Space_Heat	0	28

SAN DIEGO GAS & ELECTRIC
 CORE COMMERCIAL: EQUIPMENT AGE

zName	bName	nName	vintage	equipmentMeanAge
Commercial	Misc	Water_Heat	-1	30
Commercial	Misc	Water_Heat	0	30
Commercial	Misc	Cook_top	-1	28
Commercial	Misc	Cook_top	0	28
Commercial	Misc	Fryer	-1	29
Commercial	Misc	Fryer	0	29
Commercial	Misc	Griddle	-1	37
Commercial	Misc	Griddle	0	37
Commercial	Misc	Other_Cooking	-1	40
Commercial	Misc	Other_Cooking	0	40
Commercial	Misc	AC_Compressor	-1	36
Commercial	Misc	AC_Compressor	0	36
Commercial	Misc	Other	-1	39
Commercial	Misc	Other	0	39
Commercial	Government	Space_Heat	-1	23
Commercial	Government	Space_Heat	0	23
Commercial	Government	Water_Heat	-1	27
Commercial	Government	Water_Heat	0	27
Commercial	Government	Cook_top	-1	29
Commercial	Government	Cook_top	0	29
Commercial	Government	Fryer	-1	29
Commercial	Government	Fryer	0	29
Commercial	Government	Griddle	-1	35
Commercial	Government	Griddle	0	35
Commercial	Government	Other_Cooking	-1	24
Commercial	Government	Other_Cooking	0	24
Commercial	Government	AC_Compressor	-1	35
Commercial	Government	AC_Compressor	0	35
Commercial	Government	Other	-1	37
Commercial	Government	Other	0	37
Commercial	TCU	Space_Heat	-1	28
Commercial	TCU	Space_Heat	0	28
Commercial	TCU	Water_Heat	-1	30
Commercial	TCU	Water_Heat	0	30
Commercial	TCU	Engine	-1	31
Commercial	TCU	Engine	0	31
Commercial	TCU	Other	-1	36
Commercial	TCU	Other	0	36
Commercial	Construction	Space_Heat	-1	24
Commercial	Construction	Space_Heat	0	24

SAN DIEGO GAS & ELECTRIC CORE COMMERCIAL: EQUIPMENT AGE

zName	bName	nName	vintage	equipmentMeanAge
Commercial	Construction	Water_Heat	-1	27
Commercial	Construction	Water_Heat	0	27
Commercial	Construction	Other	-1	36
Commercial	Construction	Other	0	36
Commercial	Agriculture	Space_Heat	-1	18
Commercial	Agriculture	Space_Heat	0	18
Commercial	Agriculture	Water_Heat	-1	21
Commercial	Agriculture	Water_Heat	0	21
Commercial	Agriculture	Drying	-1	29
Commercial	Agriculture	Drying	0	29
Commercial	Agriculture	Engine	-1	12
Commercial	Agriculture	Engine	0	12
Commercial	Agriculture	Other	-1	22
Commercial	Agriculture	Other	0	22

zName	equipmentMaxAge	z	b	n
Commercial	24	001	001	001
Commercial	24	001	001	001
Commercial	27	001	001	002
Commercial	27	001	001	002
Commercial	27	001	001	003
Commercial	27	001	001	003
Commercial	10	001	001	010
Commercial	10	001	001	010
Commercial	35	001	001	011
Commercial	35	001	001	011
Commercial	23	001	002	001
Commercial	23	001	002	001
Commercial	22	001	002	002
Commercial	22	001	002	002
Commercial	23	001	002	004
Commercial	23	001	002	004
Commercial	24	001	002	005
Commercial	24	001	002	005
Commercial	24	001	002	006
Commercial	24	001	002	006
Commercial	29	001	002	007
Commercial	29	001	002	007
Commercial	17	001	002	010
Commercial	17	001	002	010
Commercial	30	001	002	011
Commercial	30	001	002	011
Commercial	17	001	003	001
Commercial	17	001	003	001
Commercial	27	001	003	002
Commercial	27	001	003	002
Commercial	18	001	003	003
Commercial	18	001	003	003
Commercial	35	001	003	011
Commercial	35	001	003	011
Commercial	25	001	004	001
Commercial	25	001	004	001
Commercial	11	001	004	002
Commercial	11	001	004	002
Commercial	19	001	004	008
Commercial	19	001	004	008

zName	equipmentMaxAge	z	b	n
Commercial	4	001	004	011
Commercial	4	001	004	011
Commercial	23	001	005	001
Commercial	23	001	005	001
Commercial	26	001	005	002
Commercial	26	001	005	002
Commercial	14	001	005	009
Commercial	14	001	005	009
Commercial	34	001	005	011
Commercial	34	001	005	011
Commercial	17	001	006	001
Commercial	17	001	006	001
Commercial	28	001	006	002
Commercial	28	001	006	002
Commercial	29	001	006	004
Commercial	29	001	006	004
Commercial	31	001	006	005
Commercial	31	001	006	005
Commercial	36	001	006	006
Commercial	36	001	006	006
Commercial	42	001	006	007
Commercial	42	001	006	007
Commercial	37	001	006	010
Commercial	37	001	006	010
Commercial	37	001	006	011
Commercial	37	001	006	011
Commercial	16	001	007	001
Commercial	16	001	007	001
Commercial	22	001	007	002
Commercial	22	001	007	002
Commercial	32	001	007	004
Commercial	32	001	007	004
Commercial	42	001	007	005
Commercial	42	001	007	005
Commercial	30	001	007	006
Commercial	30	001	007	006
Commercial	39	001	007	007
Commercial	39	001	007	007
Commercial	31	001	007	010
Commercial	31	001	007	010

zName	equipmentMaxAge	z	b	n
Commercial	36	001	007	011
Commercial	36	001	007	011
Commercial	25	001	008	001
Commercial	25	001	008	001
Commercial	26	001	008	002
Commercial	26	001	008	002
Commercial	30	001	008	004
Commercial	30	001	008	004
Commercial	31	001	008	005
Commercial	31	001	008	005
Commercial	34	001	008	006
Commercial	34	001	008	006
Commercial	36	001	008	007
Commercial	36	001	008	007
Commercial	30	001	008	008
Commercial	30	001	008	008
Commercial	35	001	008	010
Commercial	35	001	008	010
Commercial	36	001	008	011
Commercial	36	001	008	011
Commercial	17	001	009	001
Commercial	17	001	009	001
Commercial	20	001	009	002
Commercial	20	001	009	002
Commercial	18	001	009	004
Commercial	18	001	009	004
Commercial	20	001	009	005
Commercial	20	001	009	005
Commercial	31	001	009	006
Commercial	31	001	009	006
Commercial	37	001	009	007
Commercial	37	001	009	007
Commercial	25	001	009	008
Commercial	25	001	009	008
Commercial	35	001	009	010
Commercial	35	001	009	010
Commercial	33	001	009	011
Commercial	33	001	009	011
Commercial	28	001	010	001
Commercial	28	001	010	001

zName	equipmentMaxAge	z	b	n
Commercial	30	001	010	002
Commercial	30	001	010	002
Commercial	28	001	010	004
Commercial	28	001	010	004
Commercial	29	001	010	005
Commercial	29	001	010	005
Commercial	37	001	010	006
Commercial	37	001	010	006
Commercial	40	001	010	007
Commercial	40	001	010	007
Commercial	36	001	010	010
Commercial	36	001	010	010
Commercial	39	001	010	011
Commercial	39	001	010	011
Commercial	23	001	011	001
Commercial	23	001	011	001
Commercial	27	001	011	002
Commercial	27	001	011	002
Commercial	29	001	011	004
Commercial	29	001	011	004
Commercial	29	001	011	005
Commercial	29	001	011	005
Commercial	35	001	011	006
Commercial	35	001	011	006
Commercial	24	001	011	007
Commercial	24	001	011	007
Commercial	35	001	011	010
Commercial	35	001	011	010
Commercial	37	001	011	011
Commercial	37	001	011	011
Commercial	28	001	012	001
Commercial	28	001	012	001
Commercial	30	001	012	002
Commercial	30	001	012	002
Commercial	31	001	012	009
Commercial	31	001	012	009
Commercial	36	001	012	011
Commercial	36	001	012	011
Commercial	24	001	013	001
Commercial	24	001	013	001

zName	equipmentMaxAge	z	b	n
Commercial	27	001	013	002
Commercial	27	001	013	002
Commercial	36	001	013	011
Commercial	36	001	013	011
Commercial	18	001	014	001
Commercial	18	001	014	001
Commercial	21	001	014	002
Commercial	21	001	014	002
Commercial	29	001	014	008
Commercial	29	001	014	008
Commercial	12	001	014	009
Commercial	12	001	014	009
Commercial	22	001	014	011
Commercial	22	001	014	011

GN3 Industrial DATA TABLES

**San Diego Gas and Electric Company
 Industrial GN3
 The Year the Equipment Was Installed by Business Types**

<u>Business Type</u>	<u>Fire_</u> <u>Tube_</u> <u>Boiler</u>	<u>Water_</u> <u>Tube_</u> <u>Boiler</u>	<u>Space_</u> <u>Heat</u>	<u>Water_</u> <u>Heat</u>	<u>Dryer</u>	<u>Furnace_</u> <u>Oven_</u> <u>Kiln</u>	<u>AC</u>	<u>Engine</u>	<u>Other</u>
Mining	2002	1980	1979	1980	1968	1978	.	1970	1976
Food	2004	1999	2002	1992	1992	2002	1965	1994	1983
Textile	1999	1998	1994	1982	1992	1982	.	.	1980
Wood_Paper	1997	1994	1995	1981	1981	2006	.	.	1975
Chemical	2005	1995	2002	1986	1985	1981	.	1999	1976
Petroleum	2006	1990	2002	1975	1981	1971	.	.	1977
Stone	2007	1983	1996	1982	1982	1982	1985	2014	1975
Prim_Metal	1993	1991	1987	1982	1978	1982	.	1996	1976
Fab_Metal	2002	1989	1986	1980	1984	1980	.	1984	1975
Transport	1993	1994	1996	1981	1987	1983	1973	2003	1976
Misc	1996	1995	1994	1981	1987	1978	1984	1999	1978

**San Diego Gas and Electric Company
Industrial GN3
Electric Price Forecasat (Cent/KWH)**

(a) Average Price Forecast

<u>Year</u>	<u>Chemical</u>	<u>Fab Metal</u>	<u>Food</u>	<u>Mining</u>	<u>Petroleum</u>	<u>Prim Metal</u>	<u>Stone</u>	<u>Textile</u>	<u>Transport</u>	<u>Wood Paper</u>	<u>Misc</u>
2021	20.39	20.65	24.43	25.41	18.94	26.40	19.18	19.09	20.66	18.99	19.44
2022	20.17	20.37	23.19	23.95	19.09	24.70	19.27	19.20	20.37	19.13	19.46
2023	20.83	21.04	24.18	24.98	19.62	25.79	19.82	19.74	21.05	19.66	20.03
2024	21.56	21.80	25.36	26.26	20.19	27.15	20.41	20.33	21.81	20.23	20.65
2025	22.66	22.92	26.74	27.69	21.18	28.64	21.42	21.33	22.93	21.23	21.68
2026	23.37	23.64	27.60	28.56	21.84	29.52	22.09	22.00	23.65	21.89	22.36
2027	24.10	24.39	28.50	29.49	22.50	30.47	22.76	22.67	24.39	22.56	23.05
2028	25.13	25.43	29.75	30.77	23.45	31.78	23.72	23.62	25.44	23.50	24.02
2029	26.15	26.46	30.96	32.00	24.39	33.03	24.67	24.57	26.46	24.45	24.98
2030	27.14	27.47	32.13	33.18	25.32	34.24	25.61	25.51	27.47	25.38	25.93
2031	28.11	28.44	33.25	34.32	26.22	35.38	26.52	26.42	28.44	26.28	26.85
2032	29.09	29.43	34.37	35.45	27.14	36.52	27.45	27.35	29.43	27.20	27.79
2033	30.13	30.49	35.62	36.71	28.11	37.80	28.43	28.33	30.49	28.18	28.79
2034	31.24	31.61	36.92	38.04	29.13	39.15	29.46	29.35	31.61	29.20	29.83
2035	32.38	32.76	38.25	39.38	30.20	40.50	30.54	30.43	32.76	30.27	30.93

(b) Marginal Price Forecast

<u>Year</u>	<u>Chemical</u>	<u>Fab Metal</u>	<u>Food</u>	<u>Mining</u>	<u>Petroleum</u>	<u>Prim Metal</u>	<u>Stone</u>	<u>Textile</u>	<u>Transport</u>	<u>Wood Paper</u>	<u>Misc</u>
2021	15.80	16.39	19.00	19.74	15.30	20.14	15.47	15.63	16.18	15.13	15.46
2022	15.72	16.15	18.06	18.60	15.36	18.88	15.48	15.60	16.00	15.23	15.47
2023	16.19	16.67	18.83	19.44	15.78	19.76	15.92	16.05	16.50	15.64	15.91
2024	16.72	17.28	19.75	20.45	16.26	20.82	16.41	16.56	17.08	16.09	16.40
2025	17.56	18.16	20.83	21.58	17.06	21.98	17.23	17.39	17.95	16.88	17.21
2026	18.10	18.72	21.50	22.28	17.58	22.70	17.75	17.92	18.50	17.39	17.74
2027	18.65	19.31	22.21	23.03	18.11	23.47	18.29	18.47	19.07	17.91	18.28
2028	19.44	20.12	23.19	24.06	18.86	24.52	19.05	19.24	19.88	18.65	19.04
2029	20.21	20.93	24.14	25.05	19.60	25.53	19.81	20.00	20.67	19.39	19.79
2030	20.97	21.72	25.06	26.00	20.34	26.50	20.55	20.75	21.45	20.12	20.53
2031	21.70	22.48	25.94	26.92	21.05	27.44	21.27	21.48	22.20	20.82	21.25
2032	22.45	23.25	26.82	27.83	21.78	28.37	22.01	22.22	22.97	21.54	21.99
2033	23.25	24.08	27.80	28.85	22.54	29.41	22.78	23.01	23.79	22.30	22.76
2034	24.08	24.95	28.83	29.93	23.35	30.51	23.60	23.83	24.64	23.10	23.58
2035	24.96	25.86	29.88	31.01	24.20	31.61	24.46	24.70	25.54	23.93	24.43

**San Diego Gas and Electric Company
Industrial GN3
Gas Price Forecasat (\$/Therm)**

(a) Average Price Forecast

<u>Year</u>	<u>Price</u> <u>Deflator</u>	<u>Chemical</u>	<u>Fabricated</u> <u>Metal</u>	<u>Food</u>	<u>Mining</u>	<u>Petroleum</u>	<u>Primary M</u> <u>etal</u>	<u>Stone</u>	<u>Textile</u>	<u>Transport</u>	<u>Wood Pa</u> <u>per</u>	<u>Misc</u>
2021	100.00	0.96	0.97	1.15	1.20	0.89	1.25	0.91	0.90	0.98	0.90	0.92
2022	105.03	1.24	1.25	1.42	1.47	1.17	1.51	1.18	1.18	1.25	1.17	1.19
2023	107.06	1.21	1.22	1.40	1.45	1.14	1.50	1.15	1.15	1.22	1.14	1.16
2024	109.29	1.12	1.14	1.32	1.37	1.05	1.41	1.06	1.06	1.14	1.05	1.08
2025	111.56	1.12	1.13	1.32	1.37	1.05	1.42	1.06	1.05	1.13	1.05	1.07
2026	114.02	1.14	1.15	1.35	1.39	1.06	1.44	1.08	1.07	1.15	1.07	1.09
2027	116.67	1.15	1.17	1.36	1.41	1.08	1.46	1.09	1.08	1.17	1.08	1.10
2028	119.45	1.17	1.19	1.39	1.43	1.09	1.48	1.11	1.10	1.19	1.10	1.12
2029	122.27	1.20	1.21	1.42	1.46	1.12	1.51	1.13	1.12	1.21	1.12	1.14
2030	125.13	1.23	1.24	1.45	1.50	1.14	1.55	1.16	1.15	1.24	1.15	1.17
2031	127.97	1.26	1.28	1.49	1.54	1.18	1.59	1.19	1.19	1.28	1.18	1.21
2032	130.80	1.30	1.31	1.54	1.58	1.21	1.63	1.23	1.22	1.31	1.22	1.24
2033	133.74	1.33	1.34	1.57	1.62	1.24	1.67	1.25	1.25	1.34	1.24	1.27
2034	136.80	1.36	1.37	1.61	1.65	1.27	1.70	1.28	1.28	1.37	1.27	1.30
2035	139.94	1.40	1.41	1.65	1.70	1.30	1.75	1.32	1.31	1.41	1.31	1.33

(b) Marginal Price Forecasat

<u>Year</u>	<u>Price</u> <u>Deflator</u>	<u>Chemical</u>	<u>Fabricated</u> <u>Metal</u>	<u>Food</u>	<u>Mining</u>	<u>Petroleum</u>	<u>Primary M</u> <u>etal</u>	<u>Stone</u>	<u>Textile</u>	<u>Transport</u>	<u>Wood Pa</u> <u>per</u>	<u>Misc</u>
2021	100.00	0.87	0.91	1.05	1.09	0.85	1.11	0.86	0.86	0.89	0.84	0.85
2022	105.03	1.15	1.18	1.32	1.36	1.12	1.38	1.13	1.14	1.17	1.11	1.13
2023	107.06	1.12	1.15	1.30	1.34	1.09	1.36	1.10	1.11	1.14	1.08	1.10
2024	109.29	1.03	1.06	1.22	1.26	1.00	1.28	1.01	1.02	1.05	0.99	1.01
2025	111.56	1.03	1.06	1.22	1.26	1.00	1.28	1.01	1.02	1.05	0.99	1.01
2026	114.02	1.04	1.08	1.24	1.28	1.01	1.31	1.02	1.03	1.07	1.00	1.02
2027	116.67	1.05	1.09	1.26	1.30	1.02	1.33	1.03	1.04	1.08	1.01	1.03
2028	119.45	1.07	1.11	1.28	1.32	1.04	1.35	1.05	1.06	1.09	1.03	1.05
2029	122.27	1.09	1.13	1.31	1.35	1.06	1.38	1.07	1.08	1.12	1.05	1.07
2030	125.13	1.12	1.16	1.34	1.39	1.09	1.42	1.10	1.11	1.15	1.07	1.10
2031	127.97	1.15	1.19	1.38	1.43	1.12	1.46	1.13	1.14	1.18	1.10	1.13
2032	130.80	1.19	1.23	1.42	1.47	1.15	1.50	1.16	1.17	1.21	1.14	1.16
2033	133.74	1.21	1.26	1.45	1.51	1.18	1.53	1.19	1.20	1.24	1.16	1.19
2034	136.80	1.24	1.28	1.48	1.54	1.20	1.57	1.22	1.23	1.27	1.19	1.21
2035	139.94	1.27	1.32	1.53	1.58	1.24	1.61	1.25	1.26	1.30	1.22	1.25

**San Diego Gas and Electric Company
 Industrial GN3
 Historical Throughput and Customer Counts**

<u>Business Type</u>	<u>therms_</u> <u>2021</u> <u>Temp. Adj.</u>	<u>meters_</u> <u>2021</u> <u>Total</u>	<u>meters_</u> <u>2021</u> <u>ExCust</u>	<u>meters_</u> <u>2021</u> <u>NewCust</u>	<u>avgUse_</u> <u>2021</u> <u>ExCust</u>	<u>avgUse_</u> <u>2021</u> <u>NewCust</u>	<u>Price</u> <u>Elasticity</u>	<u>Employment</u> <u>Elasticity</u>
Mining	72309	7	7	0	10330	0	0.00000	0.32145
Food	2749924	301	300	1	9150	4817	0.00000	1.24251
Textile	37967	19	19	0	1998	0	0.00000	0.03333
Wood_Paper	14225	15	15	0	948	0	-0.11400	0.50827
Chemical	3105541	82	82	0	37872	0	0.00000	0.65007
Petroleum	1123	2	2	0	561	0	0.00000	0.08454
Stone	491830	28	27	1	17998	5896	0.00000	0.41691
Prim_Metal	455267	10	10	0	45527	0	0.00000	0.95669
Fab_Metal	945183	128	128	0	7384	0	0.00000	1.02388
Transport	2300963	67	67	0	34343	0	0.00000	0.40251
Misc	6041232	474	463	11	12649	16774	0.00000	0.87931
Total	16,215,564	1,133						

**San Diego Gas and Electric Company
 Industrial GN3
 Average Use Per Meter (therm)**

<u>Business Type</u>	<u>Fire_</u> <u>Tube_</u> <u>Boiler</u>	<u>Water_</u> <u>Tube_</u> <u>Boiler</u>	<u>Space_</u> <u>Heat</u>	<u>Water_</u> <u>Heat</u>	<u>Dryer</u>	<u>Furnace_</u> <u>Oven_</u> <u>Kiln</u>	<u>AC</u>	<u>Engine</u>	<u>Other</u>	<u>Total</u>
Mining	0	4925	34	1521	60	0	0	2	3786	10330
Food	1201	3830	31	1075	2006	3	27	32	945	9150
Textile	454	612	5	121	701	6	0	0	99	1998
Wood_Paper	190	511	20	55	68	5	0	0	99	948
Chemical	3556	13615	4989	3017	3732	1199	4	153	7607	37872
Petroleum	14	130	1	1	260	0	0	57	98	561
Stone	670	2488	72	742	6069	5157	1	0	2798	17998
Prim_Metal	2158	3401	447	2678	8685	23098	15	0	5045	45527
Fab_Metal	222	433	137	958	2053	1774	0	5	1801	7384
Transport	2071	8468	4788	4733	4468	2800	0	836	6179	34343
Misc	559	2507	808	1219	3733	913	0	43	2868	12649

**San Diego Gas and Electric Company
 Industrial GN3
 Use Per Meter for New Customers (therm)**

<u>Business Type</u>	<u>Fire_</u> <u>Tube_</u> <u>Boiler</u>	<u>Water_</u> <u>Tube_</u> <u>Boiler</u>	<u>Space_</u> <u>Heat</u>	<u>Water_</u> <u>Heat</u>	<u>Dryer</u>	<u>Furnace_</u> <u>Oven_</u> <u>Kiln</u>	<u>AC</u>	<u>Engine</u>	<u>Other</u>	<u>Total</u>
Mining	0	0	0	0	0	0	0	0	0	0
Food	724	2907	9	440	451	0	0	0	286	4817
Textile	0	0	0	0	0	0	0	0	0	0
Wood_Paper	0	0	0	0	0	0	0	0	0	0
Chemical	0	0	0	0	0	0	0	0	0	0
Petroleum	0	0	0	0	0	0	0	0	0	0
Stone	0	0	637	0	5259	0	0	0	0	5896
Prim_Metal	0	0	0	0	0	0	0	0	0	0
Fab_Metal	0	0	0	0	0	0	0	0	0	0
Transport	0	0	0	0	0	0	0	0	0	0
Misc	2460	2380	414	1092	4844	257	0	20	5306	16774

**San Diego Gas and Electric Company
 Industrial GN3
 Electric UEC (Kwh/SqFt)**

<u>Business Type</u>	<u>Fire_</u> <u>Tube_</u> <u>Boiler</u>	<u>Water_</u> <u>Tube_</u> <u>Boiler</u>	<u>Space_</u> <u>Heat</u>	<u>Water_</u> <u>Heat</u>	<u>Dryer</u>	<u>Furnace_</u> <u>Oven_</u> <u>Kiln</u>	<u>AC</u>	<u>Engine</u>	<u>Other</u>
Mining	0	154	1	47	2	0	0	0	118
Food	895	2834	23	805	1508	2	20	24	719
Textile	255	345	3	68	395	4	0	0	56
Wood_Paper	205	551	21	59	74	6	0	0	107
Chemical	196	750	275	166	206	66	0	8	419
Petroleum	29	277	2	2	554	0	0	122	209
Stone	19	69	2	20	167	142	0	0	77
Primary_Metal	52	82	10	64	208	555	0	0	121
Fabricated_Metal	73	142	45	313	671	580	0	2	589
Transportation	84	341	193	191	180	113	0	34	250
Miscellaneous	160	722	227	349	1067	262	0	12	826

**San Diego Gas and Electric Company
 Industrial GN3
 Gas UEC (Therm per SqFt)**

<u>Business Type</u>	<u>Fire_</u> <u>Tube_</u> <u>Boiler</u>	<u>Water_</u> <u>Tube_</u> <u>Boiler</u>	<u>Space_</u> <u>Heat</u>	<u>Water_</u> <u>Heat</u>	<u>Dryer</u>	<u>Furnace_</u> <u>Oven_</u> <u>Kiln</u>	<u>AC</u>	<u>Engine</u>	<u>Other</u>
Mining	587697	5728	1099	281	163309	67709	159	140010	4169
Food	48371	11453	3801	1088	51807	38092	1210	56748	3383
Textile	69640	18095	1014	2073	185827	52133	3638	0	905
Wood_Paper	538832	176840	2355	199	25503	48049	160	0	1333
Chemical	57040	32092	1693	1327	1288	28940	79	36	3051
Petroleum	74485	18782	766	1037	670974	2971	0	4932	10241
Stone	241878	48074	1559	1558	334016	304106	1844	0	1204
Primary_Metal	8499	26852	2693	636	1243	678517	3232	0	2343
Fabricated_Metal	29520	28816	2697	591	2811	101640	281	0	2435
Transportation	3723	2169	1490	443	11159	19127	71	353	373
Miscellaneous	7219	5077	1109	319	8838	49023	413	859	952

**San Diego Gas and Electric Company
 Industrial GN3
 Gas Market Shares**

<u>Business Type</u>	<u>Fire_</u> <u>Tube_</u> <u>Boiler</u>	<u>Water_</u> <u>Tube_</u> <u>Boiler</u>	<u>Space_</u> <u>Heat</u>	<u>Water_</u> <u>Heat</u>	<u>Dryer</u>	<u>Furnace_</u> <u>Oven_</u> <u>Kiln</u>	<u>AC</u>	<u>Engine</u>	<u>Other</u>
Chemical	0.0000	0.2778	0.2361	0.5000	0.0278	0.0139	0.0000	0.0278	0.7222
Fabricated_Metal	0.0636	0.2139	0.1445	0.7737	0.2362	0.0107	0.0025	0.0091	0.7399
Food	0.1978	0.3077	0.1648	0.4286	0.5714	0.0275	0.0000	0.0000	0.4451
Mining	0.0533	0.2067	0.2000	0.5333	0.2267	0.0533	0.0000	0.0133	0.6533
Misllaneous	0.0685	0.3227	0.2714	0.5795	0.2054	0.0293	0.0024	0.0342	0.6113
Petroleum	0.0741	0.2407	0.1667	0.2222	0.2593	0.0370	0.0000	0.0556	0.5741
Primary_Metal	0.0315	0.1132	0.2201	0.4717	0.2579	0.3208	0.0189	0.0126	0.5912
Stone	0.0328	0.0929	0.2077	0.5519	0.3279	0.4918	0.0055	0.0109	0.5902
Textile	0.0136	0.0819	0.1733	0.5703	0.3192	0.1242	0.0014	0.0096	0.7121
Transportation	0.0159	0.0680	0.1996	0.4966	0.1973	0.0794	0.0000	0.0091	0.7732
Wood_Paper	0.0153	0.1153	0.2116	0.5312	0.2386	0.0677	0.0016	0.0095	0.7254

**San Diego Gas and Electric Company
 Industrial GN3
 Saturation Rate**

<u>Business Type</u>	<u>Fire_</u> <u>Tube_</u> <u>Boiler</u>	<u>Water_</u> <u>Tube_</u> <u>Boiler</u>	<u>Space_</u> <u>Heat</u>	<u>Water_</u> <u>Heat</u>	<u>Dryer</u>	<u>Furnace_</u> <u>Oven_</u> <u>Kiln</u>	<u>AC</u>	<u>Engine</u>	<u>Other</u>
Mining	0.01	0.01	0.73	0.73	0.03	0.06	0.64	0.87	1.00
Food	0.45	0.45	0.60	0.85	0.12	0.33	0.73	0.70	1.00
Textile	0.26	0.26	0.70	0.71	0.14	0.09	0.72	0.46	1.00
Wood_Paper	0.01	0.01	0.62	0.77	0.09	0.07	0.71	0.50	1.00
Chemical	0.14	0.14	0.73	0.73	0.12	0.10	0.74	0.70	1.00
Petroleum	0.14	0.14	0.73	0.73	0.12	0.10	0.74	0.70	1.00
Stone	0.01	0.01	0.73	0.73	0.03	0.06	0.64	0.87	1.00
Prim_Metal	0.07	0.07	0.73	0.76	0.15	0.10	0.68	0.86	1.00
Fab_Metal	0.07	0.07	0.73	0.76	0.15	0.10	0.68	0.86	1.00
Transport	0.14	0.14	0.73	0.73	0.12	0.10	0.74	0.70	1.00
Misc	0.14	0.14	0.73	0.73	0.12	0.10	0.74	0.70	1.00

**San Diego Gas and Electric Company
 Industrial GN3
 UEC, Equipment Cost and Efficiency Shares**

**Where Fuel = 1 (gas) and = 2 (electric), and
 Efficiency =1 (stock), =2 (standard), =3 (high) and =4 (premium)**

<u>Business Type</u>	<u>End Use</u>	<u>Fuel</u>	<u>Efficiency</u>	<u>EQcost</u>
Mining	Fire_Tube_Boiler	1	1	3,907,010
Mining	Fire_Tube_Boiler	1	2	4,297,711
Mining	Fire_Tube_Boiler	1	3	4,688,412
Mining	Fire_Tube_Boiler	2	1	3,125,608
Mining	Fire_Tube_Boiler	2	2	3,438,169
Mining	Fire_Tube_Boiler	2	3	3,750,729
Mining	Water_Tube_Boiler	1	1	38,080
Mining	Water_Tube_Boiler	1	2	41,888
Mining	Water_Tube_Boiler	1	3	45,696
Mining	Water_Tube_Boiler	2	1	30,464
Mining	Water_Tube_Boiler	2	2	33,510
Mining	Water_Tube_Boiler	2	3	36,557
Mining	Space_Heat	1	1	7,306
Mining	Space_Heat	1	2	8,037
Mining	Space_Heat	1	3	8,767
Mining	Space_Heat	2	1	5,845
Mining	Space_Heat	2	2	6,429
Mining	Space_Heat	2	3	7,014
Mining	Water_Heat	1	1	1,868
Mining	Water_Heat	1	2	2,055
Mining	Water_Heat	1	3	2,242
Mining	Water_Heat	2	1	1,494
Mining	Water_Heat	2	2	1,644
Mining	Water_Heat	2	3	1,793
Mining	Dryer	1	1	1,085,678
Mining	Dryer	1	2	1,194,246
Mining	Dryer	1	3	1,302,814
Mining	Dryer	2	1	868,543
Mining	Dryer	2	2	955,397
Mining	Dryer	2	3	1,042,251
Mining	Furnace_Oven_Kiln	1	1	450,129
Mining	Furnace_Oven_Kiln	1	2	495,142
Mining	Furnace_Oven_Kiln	1	3	540,155
Mining	Furnace_Oven_Kiln	2	1	360,104
Mining	Furnace_Oven_Kiln	2	2	396,114
Mining	Furnace_Oven_Kiln	2	3	432,124
Mining	AC	1	1	1,057
Mining	AC	1	2	1,163
Mining	AC	1	3	1,268
Mining	AC	2	1	846
Mining	AC	2	2	930
Mining	AC	2	3	1,015
Mining	Engine	1	1	930,786
Mining	Engine	1	2	1,023,865
Mining	Engine	1	3	1,116,944
Mining	Engine	2	1	744,629
Mining	Engine	2	2	819,092
Mining	Engine	2	3	893,555
Mining	Other	1	1	-
Mining	Other	1	2	-
Mining	Other	1	3	-
Mining	Other	2	1	-
Mining	Other	2	2	-
Mining	Other	2	3	-
Food	Fire_Tube_Boiler	1	1	303,093
Food	Fire_Tube_Boiler	1	2	333,402
Food	Fire_Tube_Boiler	1	3	363,711
Food	Fire_Tube_Boiler	2	1	242,474
Food	Fire_Tube_Boiler	2	2	266,722
Food	Fire_Tube_Boiler	2	3	290,969
Food	Water_Tube_Boiler	1	1	71,765

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Food	Water_Tube_Boiler	1	2	78,941
Food	Water_Tube_Boiler	1	3	86,117
Food	Water_Tube_Boiler	2	1	57,412
Food	Water_Tube_Boiler	2	2	63,153
Food	Water_Tube_Boiler	2	3	68,894
Food	Space_Heat	1	1	23,817
Food	Space_Heat	1	2	26,199
Food	Space_Heat	1	3	28,580
Food	Space_Heat	2	1	19,054
Food	Space_Heat	2	2	20,959
Food	Space_Heat	2	3	22,864
Food	Water_Heat	1	1	6,817
Food	Water_Heat	1	2	7,499
Food	Water_Heat	1	3	8,181
Food	Water_Heat	2	1	5,454
Food	Water_Heat	2	2	5,999
Food	Water_Heat	2	3	6,545
Food	Dryer	1	1	324,623
Food	Dryer	1	2	357,085
Food	Dryer	1	3	389,547
Food	Dryer	2	1	259,698
Food	Dryer	2	2	285,668
Food	Dryer	2	3	311,638
Food	Furnace_Oven_Kiln	1	1	238,684
Food	Furnace_Oven_Kiln	1	2	262,553
Food	Furnace_Oven_Kiln	1	3	286,421
Food	Furnace_Oven_Kiln	2	1	190,948
Food	Furnace_Oven_Kiln	2	2	210,042
Food	Furnace_Oven_Kiln	2	3	229,137
Food	AC	1	1	7,582
Food	AC	1	2	8,340
Food	AC	1	3	9,098
Food	AC	2	1	6,065
Food	AC	2	2	6,672
Food	AC	2	3	7,279
Food	Engine	1	1	355,583
Food	Engine	1	2	391,141
Food	Engine	1	3	426,700
Food	Engine	2	1	284,466
Food	Engine	2	2	312,913
Food	Engine	2	3	341,360
Food	Other	1	1	-
Food	Other	1	2	-
Food	Other	1	3	-
Food	Other	2	1	-
Food	Other	2	2	-
Food	Other	2	3	-
Textile	Fire_Tube_Boiler	1	1	440,682
Textile	Fire_Tube_Boiler	1	2	484,750
Textile	Fire_Tube_Boiler	1	3	528,818
Textile	Fire_Tube_Boiler	2	1	352,546
Textile	Fire_Tube_Boiler	2	2	387,800
Textile	Fire_Tube_Boiler	2	3	423,055
Textile	Water_Tube_Boiler	1	1	114,505
Textile	Water_Tube_Boiler	1	2	125,956
Textile	Water_Tube_Boiler	1	3	137,406
Textile	Water_Tube_Boiler	2	1	91,604
Textile	Water_Tube_Boiler	2	2	100,765
Textile	Water_Tube_Boiler	2	3	109,925
Textile	Space_Heat	1	1	6,417
Textile	Space_Heat	1	2	7,058
Textile	Space_Heat	1	3	7,700
Textile	Space_Heat	2	1	5,133
Textile	Space_Heat	2	2	5,647
Textile	Space_Heat	2	3	6,160
Textile	Water_Heat	1	1	13,118
Textile	Water_Heat	1	2	14,430
Textile	Water_Heat	1	3	15,742
Textile	Water_Heat	2	1	10,494
Textile	Water_Heat	2	2	11,544
Textile	Water_Heat	2	3	12,593
Textile	Dryer	1	1	1,175,913

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Textile	Dryer	1	2	1,293,505
Textile	Dryer	1	3	1,411,096
Textile	Dryer	2	1	940,731
Textile	Dryer	2	2	1,034,804
Textile	Dryer	2	3	1,128,877
Textile	Furnace_Oven_Kiln	1	1	329,898
Textile	Furnace_Oven_Kiln	1	2	362,887
Textile	Furnace_Oven_Kiln	1	3	395,877
Textile	Furnace_Oven_Kiln	2	1	263,918
Textile	Furnace_Oven_Kiln	2	2	290,310
Textile	Furnace_Oven_Kiln	2	3	316,702
Textile	AC	1	1	23,021
Textile	AC	1	2	25,323
Textile	AC	1	3	27,626
Textile	AC	2	1	18,417
Textile	AC	2	2	20,259
Textile	AC	2	3	22,100
Textile	Engine	1	1	-
Textile	Engine	1	2	-
Textile	Engine	1	3	-
Textile	Engine	2	1	-
Textile	Engine	2	2	-
Textile	Engine	2	3	-
Textile	Other	1	1	-
Textile	Other	1	2	-
Textile	Other	1	3	-
Textile	Other	2	1	-
Textile	Other	2	2	-
Textile	Other	2	3	-
Wood_Paper	Fire_Tube_Boiler	1	1	3,531,505
Wood_Paper	Fire_Tube_Boiler	1	2	3,884,655
Wood_Paper	Fire_Tube_Boiler	1	3	4,237,806
Wood_Paper	Fire_Tube_Boiler	2	1	2,825,204
Wood_Paper	Fire_Tube_Boiler	2	2	3,107,724
Wood_Paper	Fire_Tube_Boiler	2	3	3,390,245
Wood_Paper	Water_Tube_Boiler	1	1	1,159,009
Wood_Paper	Water_Tube_Boiler	1	2	1,274,910
Wood_Paper	Water_Tube_Boiler	1	3	1,390,811
Wood_Paper	Water_Tube_Boiler	2	1	927,207
Wood_Paper	Water_Tube_Boiler	2	2	1,019,928
Wood_Paper	Water_Tube_Boiler	2	3	1,112,649
Wood_Paper	Space_Heat	1	1	15,435
Wood_Paper	Space_Heat	1	2	16,978
Wood_Paper	Space_Heat	1	3	18,522
Wood_Paper	Space_Heat	2	1	12,348
Wood_Paper	Space_Heat	2	2	13,583
Wood_Paper	Space_Heat	2	3	14,817
Wood_Paper	Water_Heat	1	1	1,304
Wood_Paper	Water_Heat	1	2	1,435
Wood_Paper	Water_Heat	1	3	1,565
Wood_Paper	Water_Heat	2	1	1,043
Wood_Paper	Water_Heat	2	2	1,148
Wood_Paper	Water_Heat	2	3	1,252
Wood_Paper	Dryer	1	1	167,147
Wood_Paper	Dryer	1	2	183,861
Wood_Paper	Dryer	1	3	200,576
Wood_Paper	Dryer	2	1	133,717
Wood_Paper	Dryer	2	2	147,089
Wood_Paper	Dryer	2	3	160,461
Wood_Paper	Furnace_Oven_Kiln	1	1	314,913
Wood_Paper	Furnace_Oven_Kiln	1	2	346,404
Wood_Paper	Furnace_Oven_Kiln	1	3	377,896
Wood_Paper	Furnace_Oven_Kiln	2	1	251,931
Wood_Paper	Furnace_Oven_Kiln	2	2	277,124
Wood_Paper	Furnace_Oven_Kiln	2	3	302,317
Wood_Paper	AC	1	1	1,049
Wood_Paper	AC	1	2	1,154
Wood_Paper	AC	1	3	1,258
Wood_Paper	AC	2	1	839
Wood_Paper	AC	2	2	923
Wood_Paper	AC	2	3	1,007
Wood_Paper	Engine	1	1	-

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Wood_Paper	Engine	1	2	-
Wood_Paper	Engine	1	3	-
Wood_Paper	Engine	2	1	-
Wood_Paper	Engine	2	2	-
Wood_Paper	Engine	2	3	-
Wood_Paper	Other	1	1	-
Wood_Paper	Other	1	2	-
Wood_Paper	Other	1	3	-
Wood_Paper	Other	2	1	-
Wood_Paper	Other	2	2	-
Wood_Paper	Other	2	3	-
Chemical	Fire_Tube_Boiler	1	1	374,525
Chemical	Fire_Tube_Boiler	1	2	411,977
Chemical	Fire_Tube_Boiler	1	3	449,430
Chemical	Fire_Tube_Boiler	2	1	299,620
Chemical	Fire_Tube_Boiler	2	2	329,582
Chemical	Fire_Tube_Boiler	2	3	359,544
Chemical	Water_Tube_Boiler	1	1	210,716
Chemical	Water_Tube_Boiler	1	2	231,788
Chemical	Water_Tube_Boiler	1	3	252,859
Chemical	Water_Tube_Boiler	2	1	168,573
Chemical	Water_Tube_Boiler	2	2	185,430
Chemical	Water_Tube_Boiler	2	3	202,287
Chemical	Space_Heat	1	1	11,116
Chemical	Space_Heat	1	2	12,228
Chemical	Space_Heat	1	3	13,339
Chemical	Space_Heat	2	1	8,893
Chemical	Space_Heat	2	2	9,782
Chemical	Space_Heat	2	3	10,672
Chemical	Water_Heat	1	1	8,713
Chemical	Water_Heat	1	2	9,584
Chemical	Water_Heat	1	3	10,456
Chemical	Water_Heat	2	1	6,970
Chemical	Water_Heat	2	2	7,668
Chemical	Water_Heat	2	3	8,365
Chemical	Dryer	1	1	8,457
Chemical	Dryer	1	2	9,303
Chemical	Dryer	1	3	10,148
Chemical	Dryer	2	1	6,766
Chemical	Dryer	2	2	7,442
Chemical	Dryer	2	3	8,119
Chemical	Furnace_Oven_Kiln	1	1	190,020
Chemical	Furnace_Oven_Kiln	1	2	209,022
Chemical	Furnace_Oven_Kiln	1	3	228,024
Chemical	Furnace_Oven_Kiln	2	1	152,016
Chemical	Furnace_Oven_Kiln	2	2	167,218
Chemical	Furnace_Oven_Kiln	2	3	182,419
Chemical	AC	1	1	519
Chemical	AC	1	2	571
Chemical	AC	1	3	622
Chemical	AC	2	1	415
Chemical	AC	2	2	456
Chemical	AC	2	3	498
Chemical	Engine	1	1	236
Chemical	Engine	1	2	260
Chemical	Engine	1	3	284
Chemical	Engine	2	1	189
Chemical	Engine	2	2	208
Chemical	Engine	2	3	227
Chemical	Other	1	1	-
Chemical	Other	1	2	-
Chemical	Other	1	3	-
Chemical	Other	2	1	-
Chemical	Other	2	2	-
Chemical	Other	2	3	-
Petroleum	Fire_Tube_Boiler	1	1	461,658
Petroleum	Fire_Tube_Boiler	1	2	507,824
Petroleum	Fire_Tube_Boiler	1	3	553,990
Petroleum	Fire_Tube_Boiler	2	1	369,326
Petroleum	Fire_Tube_Boiler	2	2	406,259
Petroleum	Fire_Tube_Boiler	2	3	443,192
Petroleum	Water_Tube_Boiler	1	1	116,411

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Petroleum	Water_Tube_Boiler	1	2	128,052
Petroleum	Water_Tube_Boiler	1	3	139,693
Petroleum	Water_Tube_Boiler	2	1	93,129
Petroleum	Water_Tube_Boiler	2	2	102,442
Petroleum	Water_Tube_Boiler	2	3	111,754
Petroleum	Space_Heat	1	1	4,748
Petroleum	Space_Heat	1	2	5,222
Petroleum	Space_Heat	1	3	5,697
Petroleum	Space_Heat	2	1	3,798
Petroleum	Space_Heat	2	2	4,178
Petroleum	Space_Heat	2	3	4,558
Petroleum	Water_Heat	1	1	6,427
Petroleum	Water_Heat	1	2	7,070
Petroleum	Water_Heat	1	3	7,713
Petroleum	Water_Heat	2	1	5,142
Petroleum	Water_Heat	2	2	5,656
Petroleum	Water_Heat	2	3	6,170
Petroleum	Dryer	1	1	4,158,697
Petroleum	Dryer	1	2	4,574,567
Petroleum	Dryer	1	3	4,990,436
Petroleum	Dryer	2	1	3,326,957
Petroleum	Dryer	2	2	3,659,653
Petroleum	Dryer	2	3	3,992,349
Petroleum	Furnace_Oven_Kiln	1	1	18,414
Petroleum	Furnace_Oven_Kiln	1	2	20,256
Petroleum	Furnace_Oven_Kiln	1	3	22,097
Petroleum	Furnace_Oven_Kiln	2	1	14,731
Petroleum	Furnace_Oven_Kiln	2	2	16,205
Petroleum	Furnace_Oven_Kiln	2	3	17,678
Petroleum	AC	1	1	-
Petroleum	AC	1	2	-
Petroleum	AC	1	3	-
Petroleum	AC	2	1	-
Petroleum	AC	2	2	-
Petroleum	AC	2	3	-
Petroleum	Engine	1	1	30,569
Petroleum	Engine	1	2	33,625
Petroleum	Engine	1	3	36,682
Petroleum	Engine	2	1	24,455
Petroleum	Engine	2	2	26,900
Petroleum	Engine	2	3	29,346
Petroleum	Other	1	1	-
Petroleum	Other	1	2	-
Petroleum	Other	1	3	-
Petroleum	Other	2	1	-
Petroleum	Other	2	2	-
Petroleum	Other	2	3	-
Stone	Fire_Tube_Boiler	1	1	1,591,073
Stone	Fire_Tube_Boiler	1	2	1,750,181
Stone	Fire_Tube_Boiler	1	3	1,909,288
Stone	Fire_Tube_Boiler	2	1	1,272,859
Stone	Fire_Tube_Boiler	2	2	1,400,145
Stone	Fire_Tube_Boiler	2	3	1,527,431
Stone	Water_Tube_Boiler	1	1	316,231
Stone	Water_Tube_Boiler	1	2	347,854
Stone	Water_Tube_Boiler	1	3	379,477
Stone	Water_Tube_Boiler	2	1	252,985
Stone	Water_Tube_Boiler	2	2	278,283
Stone	Water_Tube_Boiler	2	3	303,582
Stone	Space_Heat	1	1	10,255
Stone	Space_Heat	1	2	11,281
Stone	Space_Heat	1	3	12,306
Stone	Space_Heat	2	1	8,204
Stone	Space_Heat	2	2	9,024
Stone	Space_Heat	2	3	9,845
Stone	Water_Heat	1	1	10,249
Stone	Water_Heat	1	2	11,273
Stone	Water_Heat	1	3	12,298
Stone	Water_Heat	2	1	8,199
Stone	Water_Heat	2	2	9,019
Stone	Water_Heat	2	3	9,839
Stone	Dryer	1	1	2,197,157

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Stone	Dryer	1	2	2,416,873
Stone	Dryer	1	3	2,636,589
Stone	Dryer	2	1	1,757,726
Stone	Dryer	2	2	1,933,498
Stone	Dryer	2	3	2,109,271
Stone	Furnace_Oven_Kiln	1	1	2,000,409
Stone	Furnace_Oven_Kiln	1	2	2,200,450
Stone	Furnace_Oven_Kiln	1	3	2,400,491
Stone	Furnace_Oven_Kiln	2	1	1,600,327
Stone	Furnace_Oven_Kiln	2	2	1,760,360
Stone	Furnace_Oven_Kiln	2	3	1,920,393
Stone	AC	1	1	12,130
Stone	AC	1	2	13,343
Stone	AC	1	3	14,556
Stone	AC	2	1	9,704
Stone	AC	2	2	10,674
Stone	AC	2	3	11,645
Stone	Engine	1	1	-
Stone	Engine	1	2	-
Stone	Engine	1	3	-
Stone	Engine	2	1	-
Stone	Engine	2	2	-
Stone	Engine	2	3	-
Stone	Other	1	1	-
Stone	Other	1	2	-
Stone	Other	1	3	-
Stone	Other	2	1	-
Stone	Other	2	2	-
Stone	Other	2	3	-
Prim_Metal	Fire_Tube_Boiler	1	1	54,853
Prim_Metal	Fire_Tube_Boiler	1	2	60,338
Prim_Metal	Fire_Tube_Boiler	1	3	65,823
Prim_Metal	Fire_Tube_Boiler	2	1	43,882
Prim_Metal	Fire_Tube_Boiler	2	2	48,270
Prim_Metal	Fire_Tube_Boiler	2	3	52,658
Prim_Metal	Water_Tube_Boiler	1	1	173,303
Prim_Metal	Water_Tube_Boiler	1	2	190,633
Prim_Metal	Water_Tube_Boiler	1	3	207,963
Prim_Metal	Water_Tube_Boiler	2	1	138,642
Prim_Metal	Water_Tube_Boiler	2	2	152,506
Prim_Metal	Water_Tube_Boiler	2	3	166,371
Prim_Metal	Space_Heat	1	1	17,381
Prim_Metal	Space_Heat	1	2	19,119
Prim_Metal	Space_Heat	1	3	20,857
Prim_Metal	Space_Heat	2	1	13,905
Prim_Metal	Space_Heat	2	2	15,295
Prim_Metal	Space_Heat	2	3	16,685
Prim_Metal	Water_Heat	1	1	4,105
Prim_Metal	Water_Heat	1	2	4,515
Prim_Metal	Water_Heat	1	3	4,926
Prim_Metal	Water_Heat	2	1	3,284
Prim_Metal	Water_Heat	2	2	3,612
Prim_Metal	Water_Heat	2	3	3,941
Prim_Metal	Dryer	1	1	8,022
Prim_Metal	Dryer	1	2	8,825
Prim_Metal	Dryer	1	3	9,627
Prim_Metal	Dryer	2	1	6,418
Prim_Metal	Dryer	2	2	7,060
Prim_Metal	Dryer	2	3	7,701
Prim_Metal	Furnace_Oven_Kiln	1	1	4,379,149
Prim_Metal	Furnace_Oven_Kiln	1	2	4,817,064
Prim_Metal	Furnace_Oven_Kiln	1	3	5,254,978
Prim_Metal	Furnace_Oven_Kiln	2	1	3,503,319
Prim_Metal	Furnace_Oven_Kiln	2	2	3,853,651
Prim_Metal	Furnace_Oven_Kiln	2	3	4,203,983
Prim_Metal	AC	1	1	20,859
Prim_Metal	AC	1	2	22,945
Prim_Metal	AC	1	3	25,031
Prim_Metal	AC	2	1	16,687
Prim_Metal	AC	2	2	18,356
Prim_Metal	AC	2	3	20,025
Prim_Metal	Engine	1	1	-

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Prim_Metal	Engine	1	2	-
Prim_Metal	Engine	1	3	-
Prim_Metal	Engine	2	1	-
Prim_Metal	Engine	2	2	-
Prim_Metal	Engine	2	3	-
Prim_Metal	Other	1	1	-
Prim_Metal	Other	1	2	-
Prim_Metal	Other	1	3	-
Prim_Metal	Other	2	1	-
Prim_Metal	Other	2	2	-
Prim_Metal	Other	2	3	-
Fab_Metal	Fire_Tube_Boiler	1	1	199,496
Fab_Metal	Fire_Tube_Boiler	1	2	219,446
Fab_Metal	Fire_Tube_Boiler	1	3	239,395
Fab_Metal	Fire_Tube_Boiler	2	1	159,597
Fab_Metal	Fire_Tube_Boiler	2	2	175,557
Fab_Metal	Fire_Tube_Boiler	2	3	191,516
Fab_Metal	Water_Tube_Boiler	1	1	194,739
Fab_Metal	Water_Tube_Boiler	1	2	214,212
Fab_Metal	Water_Tube_Boiler	1	3	233,686
Fab_Metal	Water_Tube_Boiler	2	1	155,791
Fab_Metal	Water_Tube_Boiler	2	2	171,370
Fab_Metal	Water_Tube_Boiler	2	3	186,949
Fab_Metal	Space_Heat	1	1	18,226
Fab_Metal	Space_Heat	1	2	20,049
Fab_Metal	Space_Heat	1	3	21,872
Fab_Metal	Space_Heat	2	1	14,581
Fab_Metal	Space_Heat	2	2	16,039
Fab_Metal	Space_Heat	2	3	17,497
Fab_Metal	Water_Heat	1	1	3,994
Fab_Metal	Water_Heat	1	2	4,393
Fab_Metal	Water_Heat	1	3	4,793
Fab_Metal	Water_Heat	2	1	3,195
Fab_Metal	Water_Heat	2	2	3,515
Fab_Metal	Water_Heat	2	3	3,834
Fab_Metal	Dryer	1	1	18,997
Fab_Metal	Dryer	1	2	20,896
Fab_Metal	Dryer	1	3	22,796
Fab_Metal	Dryer	2	1	15,197
Fab_Metal	Dryer	2	2	16,717
Fab_Metal	Dryer	2	3	18,237
Fab_Metal	Furnace_Oven_Kiln	1	1	686,883
Fab_Metal	Furnace_Oven_Kiln	1	2	755,571
Fab_Metal	Furnace_Oven_Kiln	1	3	824,260
Fab_Metal	Furnace_Oven_Kiln	2	1	549,507
Fab_Metal	Furnace_Oven_Kiln	2	2	604,457
Fab_Metal	Furnace_Oven_Kiln	2	3	659,408
Fab_Metal	AC	1	1	1,899
Fab_Metal	AC	1	2	2,089
Fab_Metal	AC	1	3	2,279
Fab_Metal	AC	2	1	1,519
Fab_Metal	AC	2	2	1,671
Fab_Metal	AC	2	3	1,823
Fab_Metal	Engine	1	1	-
Fab_Metal	Engine	1	2	-
Fab_Metal	Engine	1	3	-
Fab_Metal	Engine	2	1	-
Fab_Metal	Engine	2	2	-
Fab_Metal	Engine	2	3	-
Fab_Metal	Other	1	1	-
Fab_Metal	Other	1	2	-
Fab_Metal	Other	1	3	-
Fab_Metal	Other	2	1	-
Fab_Metal	Other	2	2	-
Fab_Metal	Other	2	3	-
Transport	Fire_Tube_Boiler	1	1	27,156
Transport	Fire_Tube_Boiler	1	2	29,871
Transport	Fire_Tube_Boiler	1	3	32,587
Transport	Fire_Tube_Boiler	2	1	21,724
Transport	Fire_Tube_Boiler	2	2	23,897
Transport	Fire_Tube_Boiler	2	3	26,069
Transport	Water_Tube_Boiler	1	1	15,821

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Transport	Water_Tube_Boiler	1	2	17,403
Transport	Water_Tube_Boiler	1	3	18,985
Transport	Water_Tube_Boiler	2	1	12,657
Transport	Water_Tube_Boiler	2	2	13,922
Transport	Water_Tube_Boiler	2	3	15,188
Transport	Space_Heat	1	1	10,868
Transport	Space_Heat	1	2	11,955
Transport	Space_Heat	1	3	13,042
Transport	Space_Heat	2	1	8,694
Transport	Space_Heat	2	2	9,564
Transport	Space_Heat	2	3	10,433
Transport	Water_Heat	1	1	3,231
Transport	Water_Heat	1	2	3,554
Transport	Water_Heat	1	3	3,877
Transport	Water_Heat	2	1	2,585
Transport	Water_Heat	2	2	2,843
Transport	Water_Heat	2	3	3,102
Transport	Dryer	1	1	81,394
Transport	Dryer	1	2	89,533
Transport	Dryer	1	3	97,673
Transport	Dryer	2	1	65,115
Transport	Dryer	2	2	71,627
Transport	Dryer	2	3	78,138
Transport	Furnace_Oven_Kiln	1	1	139,512
Transport	Furnace_Oven_Kiln	1	2	153,464
Transport	Furnace_Oven_Kiln	1	3	167,415
Transport	Furnace_Oven_Kiln	2	1	111,610
Transport	Furnace_Oven_Kiln	2	2	122,771
Transport	Furnace_Oven_Kiln	2	3	133,932
Transport	AC	1	1	518
Transport	AC	1	2	570
Transport	AC	1	3	621
Transport	AC	2	1	414
Transport	AC	2	2	456
Transport	AC	2	3	497
Transport	Engine	1	1	2,575
Transport	Engine	1	2	2,832
Transport	Engine	1	3	3,090
Transport	Engine	2	1	2,060
Transport	Engine	2	2	2,266
Transport	Engine	2	3	2,472
Transport	Other	1	1	-
Transport	Other	1	2	-
Transport	Other	1	3	-
Transport	Other	2	1	-
Transport	Other	2	2	-
Transport	Other	2	3	-
Misc	Fire_Tube_Boiler	1	1	50,324
Misc	Fire_Tube_Boiler	1	2	55,356
Misc	Fire_Tube_Boiler	1	3	60,388
Misc	Fire_Tube_Boiler	2	1	40,259
Misc	Fire_Tube_Boiler	2	2	44,285
Misc	Fire_Tube_Boiler	2	3	48,311
Misc	Water_Tube_Boiler	1	1	35,392
Misc	Water_Tube_Boiler	1	2	38,931
Misc	Water_Tube_Boiler	1	3	42,470
Misc	Water_Tube_Boiler	2	1	28,313
Misc	Water_Tube_Boiler	2	2	31,145
Misc	Water_Tube_Boiler	2	3	33,976
Misc	Space_Heat	1	1	7,731
Misc	Space_Heat	1	2	8,504
Misc	Space_Heat	1	3	9,277
Misc	Space_Heat	2	1	6,185
Misc	Space_Heat	2	2	6,803
Misc	Space_Heat	2	3	7,422
Misc	Water_Heat	1	1	2,224
Misc	Water_Heat	1	2	2,446
Misc	Water_Heat	1	3	2,669
Misc	Water_Heat	2	1	1,779
Misc	Water_Heat	2	2	1,957
Misc	Water_Heat	2	3	2,135
Misc	Dryer	1	1	61,610

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Misc	Dryer	1	2	67,771
Misc	Dryer	1	3	73,932
Misc	Dryer	2	1	49,288
Misc	Dryer	2	2	54,217
Misc	Dryer	2	3	59,145
Misc	Furnace_Oven_Kiln	1	1	341,739
Misc	Furnace_Oven_Kiln	1	2	375,913
Misc	Furnace_Oven_Kiln	1	3	410,087
Misc	Furnace_Oven_Kiln	2	1	273,391
Misc	Furnace_Oven_Kiln	2	2	300,731
Misc	Furnace_Oven_Kiln	2	3	328,070
Misc	AC	1	1	2,879
Misc	AC	1	2	3,167
Misc	AC	1	3	3,455
Misc	AC	2	1	2,303
Misc	AC	2	2	2,534
Misc	AC	2	3	2,764
Misc	Engine	1	1	5,988
Misc	Engine	1	2	6,587
Misc	Engine	1	3	7,186
Misc	Engine	2	1	4,790
Misc	Engine	2	2	5,270
Misc	Engine	2	3	5,749
Misc	Other	1	1	-
Misc	Other	1	2	-
Misc	Other	1	3	-
Misc	Other	2	1	-
Misc	Other	2	2	-
Misc	Other	2	3	-

**San Diego Gas and Electric Company
 Industrial GN3
 Employment Forecast (in thousands)**

YEAR	Mining	Food	Textile	Wood Paper	Chemical	Petroleum	Stone	Primary Metal	Fabricated Metal	Transportation	Miscellaneous	Total
2021	2214	20571	1260	4856	7686	1533	2626	1629	13695	12885	45267	114221
2022	2261	20953	1240	4872	7854	1637	2629	1636	13769	13242	45620	115715
2023	2315	20980	1204	4803	7869	1601	2755	1595	14087	13884	45807	116901
2024	2342	21025	1177	4883	7764	1576	2846	1571	14600	13458	45706	116948
2025	2335	21327	1169	4936	7698	1553	2913	1567	14845	12967	45429	116739
2026	2320	21724	1180	4954	7684	1529	2946	1557	14898	12953	45078	116822
2027	2309	22029	1187	4897	7656	1493	2992	1546	14971	13187	44819	117088
2028	2316	22257	1191	4847	7619	1453	3024	1525	14973	13111	44527	116843
2029	2333	22458	1194	4866	7570	1417	3043	1496	14925	13102	44164	116567
2030	2343	22608	1194	4936	7516	1383	3059	1468	14892	12976	43832	116208
2031	2349	22811	1183	5076	7450	1342	3068	1461	14995	12727	43718	116181
2032	2383	23018	1172	5202	7371	1297	3096	1440	15089	12422	43658	116147
2033	2381	23224	1163	5238	7288	1257	3135	1403	15190	12196	43658	116133
2034	2366	23290	1151	5168	7204	1217	3150	1365	15317	12079	43664	115972
2035	2359	23367	1136	5101	7117	1177	3189	1329	15398	12057	43669	115901

**San Diego Gas and Electric Company
 Industrial GN3
 Core Industrial Demand Forecast (MdtH)
 Average Temperature**

Avg YEAR	Model Output <u>GN-3 - Ind</u>	<u>IndGN3 EE/DSM</u>	<u>Core Ind Final</u>
2021	1621.6	0.0	1621.6
2022	1601.2	1.6	1599.6
2023	1576.8	3.2	1573.6
2024	1550.1	4.8	1545.4
2025	1527.5	6.2	1521.3
2026	1507.8	7.6	1500.2
2027	1488.2	9.2	1479.1
2028	1466.5	10.7	1455.8
2029	1444.5	12.3	1432.2
2030	1421.9	14.0	1407.9
2031	1400.7	15.7	1385.0
2032	1379.4	15.7	1363.7
2033	1358.4	15.8	1342.6
2034	1336.2	15.9	1320.3
2035	1314.9	16.1	1298.8

**San Diego Gas and Electric Company
 Industrial GN3
 Core Industrial Demand Forecast (Mdth)
 Cold Temperature**

Cold	Model Output		
YEAR	GN-3 - Ind	IndGN3 EE/DSM	Core Ind Final
2021	1669.3	0.0	1669.3
2022	1648.2	1.6	1646.5
2023	1623.1	3.2	1619.8
2024	1595.6	4.8	1590.9
2025	1572.3	6.2	1566.1
2026	1551.9	7.6	1544.3
2027	1531.7	9.2	1522.5
2028	1509.2	10.7	1498.5
2029	1486.5	12.3	1474.3
2030	1463.3	14.0	1449.3
2031	1441.4	15.7	1425.8
2032	1419.5	15.7	1403.8
2033	1397.8	15.8	1382.1
2034	1375.0	15.9	1359.1
2035	1353.2	16.1	1337.0

**San Diego Gas and Electric Company
 Industrial GN3
 Core Industrial Demand Forecast (Mdth)
 Hot Temperature**

Hot <u>YEAR</u>	<u>Model Output</u> <u>GN-3 - Ind</u>	<u>IndGN3 EE/DSM</u>	<u>Core Ind Final</u>
2021	1573.8	0.0	1573.8
2022	1554.2	1.6	1552.6
2023	1530.6	3.2	1527.4
2024	1504.6	4.8	1499.8
2025	1482.7	6.2	1476.5
2026	1463.7	7.6	1456.1
2027	1444.8	9.2	1435.7
2028	1423.7	10.7	1413.1
2029	1402.4	12.3	1390.1
2030	1380.5	14.0	1366.5
2031	1359.9	15.7	1344.3
2032	1339.3	15.7	1323.6
2033	1318.9	15.8	1303.1
2034	1297.3	15.9	1281.4
2035	1276.7	16.1	1260.5

**San Diego Gas and Electric Company
 Industrial GN3
 Core Industrial Demand Forecast (Mdth)
 Base Temperature**

Base	<u>Model Output</u>		
<u>YEAR</u>	<u>GN-3 - Ind</u>	<u>IndGN3 EE/DSM</u>	<u>Core Ind Final</u>
2021	1358.3	0.0	1358.3
2022	1342.1	1.6	1340.5
2023	1321.8	3.2	1318.6
2024	1299.1	4.8	1294.3
2025	1280.4	6.2	1274.2
2026	1264.7	7.6	1257.0
2027	1248.9	9.2	1239.7
2028	1230.9	10.7	1220.2
2029	1212.6	12.3	1200.3
2030	1193.6	14.0	1179.6
2031	1176.0	15.7	1160.3
2032	1158.2	15.7	1142.5
2033	1140.7	15.8	1124.9
2034	1121.9	15.9	1106.0
2035	1104.0	16.1	1087.9

2022 CALIFORNIA GAS REPORT

NONCORE COMMERCIAL, INDUSTRIAL AND COGEN DEMAND FORECAST



SDG&E Non-Core Demand Equations, before energy efficiency and carbon-fee adjustments (MDth)

Cogeneration (MDTH_CGNNC_SD)

Cochrane-Orcutt

MONTHLY data for 191 periods from FEB 2006 to DEC 2021

mdth_cgnnc_sd

$$= 5.71533 * eisd/1000$$

(36.9604)

Sum Sq	736551	Std Err	62.4267	LHS Mean	600.549
R Sq	0.6150	R Bar Sq	0.6130	F	1,189 301.903
D.W.(1)	2.2305	D.W.(12)	1.6529		

$$AR_0 = + 0.72374 * AR_1$$

(14.6347)

Commercial (MDTH_COMNC_SD)

Cochrane-Orcutt

MONTHLY data for 191 periods from FEB 2006 to DEC 2021

mdth_comnc_sd

$$= 0.15232 * ecsd/1000 + 103.108 * dum2006janmay$$

(22.3410) (3.59493)

Sum Sq	120859	Std Err	25.3529	LHS Mean	198.113	Res Mean	0.3062
R Sq	0.7152	R Bar Sq	0.7122	F	3,188 157.359	%RMSE	12.3654
D.W.(1)	2.3181	D.W.(12)	1.1606				

$$AR_0 = + 0.78718 * AR_1$$

(19.1190)

Industrial (MDTH_INDNC_SD)

Cochrane-Orcutt

MONTHLY data for 190 periods from MAR 2006 to DEC 2021

Date: 18 APR 2050

mdth_indnc_sd

$$= 1.70458 * eisd/1000 - 40.7312 * dum2013sepoct$$

(23.3199) (3.54474)

$$+ 86.1081 * dum2015mar$$

(4.79250)

Sum Sq	79187.6	Std Err	20.6891	LHS Mean	177.106
R Sq	0.6707	R Bar Sq	0.6636	F	5,185 75.3558
D.W.(1)	2.0965	D.W.(12)	1.3721		

$$AR_0 = + 0.46526 * AR_1 + 0.33976 * AR_2$$

(6.66787) (4.88571)

San Diego Gas and Electric Company
2022 California Gas Report-Workpapers

ANNUAL SUMMARY

SDG&E Noncore Commercial & Industrial Demand (MDth)				San Diego County Employment		Cumulative	Cumulative	Carbon Fee Impact					
Adjusted with DSM and Carbon-Fee Impacts			Unadjusted (from regression equations)			Commercial	Industrial	DSM Cmcl	DSM Indl.	Cogen	Industrial		
Cogeneration	Commercial	Industrial	Cogeneration	Commercial	Industrial	ECSD	EISD	(MDth)	(MDth)	(MDth)	(MDth)		
2006	6,253	3,757	1,374	6,253	3,757	1,374	1,219,908	104,800	0	0	0	0	
2007	6,353	2,560	1,483	6,353	2,560	1,483	1,229,900	103,292	0	0	0	0	
2008	6,861	2,546	1,886	6,861	2,546	1,886	1,221,750	103,658	0	0	0	0	
2009	7,268	2,536	1,670	7,268	2,536	1,670	1,161,733	97,558	0	0	0	0	
2010	6,371	2,559	1,912	6,371	2,559	1,912	1,154,933	96,058	0	0	0	0	
2011	6,577	2,525	2,019	6,577	2,525	2,019	1,163,158	96,892	0	0	0	0	
2012	7,015	2,390	2,262	7,015	2,390	2,262	1,193,900	98,675	0	0	0	0	
2013	6,872	2,193	2,162	6,872	2,193	2,162	1,225,875	99,858	0	0	0	0	
2014	6,616	1,912	2,088	6,616	1,912	2,088	1,251,275	102,800	0	0	0	0	
2015	6,526	2,066	2,289	6,526	2,066	2,289	1,287,017	106,867	0	0	0	0	
2016	7,460	2,155	2,336	7,460	2,155	2,336	1,322,825	108,692	0	0	0	0	
2017	8,829	2,010	2,361	8,829	2,010	2,361	1,351,275	109,700	0	0	0	0	
2018	10,130	2,016	2,476	10,130	2,016	2,476	1,378,792	112,708	0	0	0	0	
2019	7,234	2,328	2,438	7,234	2,328	2,438	1,396,850	116,017	0	0	0	0	
2020	7,433	2,319	2,522	7,433	2,319	2,522	1,280,325	114,150	0	0	0	0	
2021	7,346	2,422	2,620	7,346	2,422	2,620	1,304,200	114,221	0	0	0	0	
2022	7,783	2,602	2,594	7,846	2,610	2,615	1,372,426	115,716	-8	-7	-64	-14	
2023	7,936	2,554	2,402	8,016	2,572	2,432	1,403,960	116,902	-18	-15	-80	-16	
2024	7,913	2,570	2,357	8,021	2,598	2,399	1,421,305	116,949	-28	-22	-108	-20	
2025	7,883	2,586	2,337	8,006	2,625	2,389	1,436,209	116,738	-39	-28	-123	-23	
2026	7,876	2,603	2,330	8,012	2,653	2,390	1,451,643	116,822	-50	-35	-136	-25	
2027	7,879	2,613	2,325	8,030	2,675	2,395	1,463,673	117,088	-62	-42	-151	-28	
2028	7,847	2,621	2,310	8,014	2,696	2,390	1,474,754	116,843	-75	-49	-167	-31	
2029	7,813	2,626	2,294	7,995	2,713	2,384	1,484,445	116,567	-88	-56	-181	-34	
2030	7,775	2,628	2,276	7,970	2,729	2,377	1,493,273	116,208	-101	-64	-195	-37	
2031	7,758	2,625	2,265	7,968	2,740	2,376	1,499,305	116,181	-115	-71	-210	-40	
2032	7,742	2,631	2,262	7,966	2,753	2,376	1,505,891	116,148	-122	-72	-224	-43	
2033	7,720	2,641	2,257	7,965	2,767	2,375	1,514,036	116,131	-127	-72	-244	-47	
2034	7,688	2,651	2,249	7,954	2,781	2,372	1,521,652	115,972	-130	-73	-266	-51	
2035	7,663	2,661	2,242	7,949	2,794	2,371	1,528,779	115,900	-134	-73	-286	-55	
0.30%				0.67%				-1.10%				<==Average annual growth, 2021 - 2035.	
7.1				2.4				2.5				<==2021 BCF figures for 2022 GCR narrative (converted from MDth using 1.0298 SDG&E therm factor)	
7.4				2.6				2.2				<==2035 BCF figures for 2022 GCR narrative (converted from MDth using 1.0298 SDG&E therm factor)	

MONTHLY

SDG&E Noncore Commercial & Industrial Demand (MDth)				San Diego County Employment		Cumulative	Cumulative	Carbon Fee Impact				
Adjusted with DSM and Carbon-Fee Impacts			Unadjusted (from regression equations)			Commercial	Industrial	DSM Cmcl	DSM Indl.	Cogen	Industrial	
Month	Cogeneration	Commercial	Industrial	Cogeneration	Commercial	Industrial	ECSD	EISD	(MDth)	(MDth)	(MDth)	(MDth)
Jan-06	440.5	453.7	119.7	440.5	453.7	119.7	1,195,300	104,100	0.0	0.0	0.0	0.0
Feb-06	482.3	449.3	128.8	482.3	449.3	128.8	1,204,900	104,600	0.0	0.0	0.0	0.0
Mar-06	452.1	409.3	108.2	452.1	409.3	108.2	1,211,500	105,200	0.0	0.0	0.0	0.0
Apr-06	458.3	474.6	130.8	458.3	474.6	130.8	1,213,500	104,800	0.0	0.0	0.0	0.0
May-06	478.6	351.8	134.1	478.6	351.8	134.1	1,222,000	105,100	0.0	0.0	0.0	0.0
Jun-06	509.0	244.8	126.5	509.0	244.8	126.5	1,230,200	105,600	0.0	0.0	0.0	0.0
Jul-06	515.5	231.9	133.6	515.5	231.9	133.6	1,215,600	105,400	0.0	0.0	0.0	0.0
Aug-06	575.8	206.3	98.9	575.8	206.3	98.9	1,220,200	105,000	0.0	0.0	0.0	0.0
Sep-06	586.2	222.2	117.8	586.2	222.2	117.8	1,225,400	104,800	0.0	0.0	0.0	0.0
Oct-06	642.8	214.9	97.9	642.8	214.9	97.9	1,226,300	104,200	0.0	0.0	0.0	0.0
Nov-06	557.5	257.5	96.4	557.5	257.5	96.4	1,236,100	104,400	0.0	0.0	0.0	0.0
Dec-06	554.0	240.2	80.9	554.0	240.2	80.9	1,237,900	104,400	0.0	0.0	0.0	0.0
Jan-07	534.6	235.9	100.4	534.6	235.9	100.4	1,208,000	103,500	0.0	0.0	0.0	0.0
Feb-07	521.6	274.8	127.9	521.6	274.8	127.9	1,217,200	103,300	0.0	0.0	0.0	0.0
Mar-07	505.7	236.5	97.4	505.7	236.5	97.4	1,225,300	103,600	0.0	0.0	0.0	0.0
Apr-07	529.4	263.3	123.3	529.4	263.3	123.3	1,224,900	102,400	0.0	0.0	0.0	0.0
May-07	492.1	228.3	122.3	492.1	228.3	122.3	1,233,700	102,500	0.0	0.0	0.0	0.0
Jun-07	552.0	207.0	123.9	552.0	207.0	123.9	1,241,900	102,600	0.0	0.0	0.0	0.0
Jul-07	516.9	169.5	118.6	516.9	169.5	118.6	1,231,600	103,500	0.0	0.0	0.0	0.0
Aug-07	561.6	167.8	127.4	561.6	167.8	127.4	1,232,700	103,200	0.0	0.0	0.0	0.0
Sep-07	573.0	172.0	141.3	573.0	172.0	141.3	1,232,800	102,900	0.0	0.0	0.0	0.0
Oct-07	547.2	162.9	118.7	547.2	162.9	118.7	1,231,200	103,500	0.0	0.0	0.0	0.0
Nov-07	526.8	201.1	140.0	526.8	201.1	140.0	1,237,500	104,000	0.0	0.0	0.0	0.0
Dec-07	492.6	240.6	142.0	492.6	240.6	142.0	1,242,000	104,500	0.0	0.0	0.0	0.0
Jan-08	512.7	244.4	138.1	512.7	244.4	138.1	1,211,600	103,500	0.0	0.0	0.0	0.0
Feb-08	531.0	263.2	147.7	531.0	263.2	147.7	1,220,800	103,500	0.0	0.0	0.0	0.0
Mar-08	488.8	233.0	165.5	488.8	233.0	165.5	1,226,200	103,900	0.0	0.0	0.0	0.0
Apr-08	517.9	234.3	164.5	517.9	234.3	164.5	1,226,500	103,800	0.0	0.0	0.0	0.0
May-08	495.9	192.1	166.6	495.9	192.1	166.6	1,230,600	103,900	0.0	0.0	0.0	0.0
Jun-08	547.0	208.4	171.5	547.0	208.4	171.5	1,234,200	104,200	0.0	0.0	0.0	0.0
Jul-08	608.1	171.2	169.1	608.1	171.2	169.1	1,222,300	104,000	0.0	0.0	0.0	0.0
Aug-08	638.6	182.4	172.7	638.6	182.4	172.7	1,222,100	104,200	0.0	0.0	0.0	0.0
Sep-08	665.8	196.6	170.8	665.8	196.6	170.8	1,218,800	103,800	0.0	0.0	0.0	0.0
Oct-08	657.2	209.0	150.2	657.2	209.0	150.2	1,217,500	103,700	0.0	0.0	0.0	0.0
Nov-08	618.7	238.4	145.6	618.7	238.4	145.6	1,217,200	103,000	0.0	0.0	0.0	0.0
Dec-08	579.8	172.6	124.2	579.8	172.6	124.2	1,213,200	102,400	0.0	0.0	0.0	0.0
Jan-09	552.8	216.3	117.6	552.8	216.3	117.6	1,175,700	102,500	0.0	0.0	0.0	0.0
Feb-09	520.2	224.2	123.4	520.2	224.2	123.4	1,173,100	101,500	0.0	0.0	0.0	0.0
Mar-09	523.1	232.7	149.7	523.1	232.7	149.7	1,171,800	100,400	0.0	0.0	0.0	0.0
Apr-09	603.3	235.2	143.8	603.3	235.2	143.8	1,167,400	98,900	0.0	0.0	0.0	0.0
May-09	598.0	274.0	118.7	598.0	274.0	118.7	1,170,700	97,700	0.0	0.0	0.0	0.0
Jun-09	651.5	181.9	110.2	651.5	181.9	110.2	1,169,900	97,100	0.0	0.0	0.0	0.0
Jul-09	610.6	176.4	147.9	610.6	176.4	147.9	1,146,400	96,400	0.0	0.0	0.0	0.0
Aug-09	713.0	174.7	146.0	713.0	174.7	146.0	1,147,100	95,900	0.0	0.0	0.0	0.0
Sep-09	664.7	204.6	159.0	664.7	204.6	159.0	1,143,000	95,400	0.0	0.0	0.0	0.0
Oct-09	670.1	204.3	146.9	670.1	204.3	146.9	1,154,200	95,100	0.0	0.0	0.0	0.0

San Diego Gas and Electric Company
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Nov-09	659.9	198.1	171.5	659.9	198.1	171.5	1,160,300	94,900	0.0	0.0	0.0	0.0
Dec-09	501.0	214.1	135.5	501.0	214.1	135.5	1,161,200	94,900	0.0	0.0	0.0	0.0
Jan-10	545.7	223.0	144.0	545.7	223.0	144.0	1,131,900	95,100	0.0	0.0	0.0	0.0
Feb-10	544.5	220.6	138.3	544.5	220.6	138.3	1,136,200	95,000	0.0	0.0	0.0	0.0
Mar-10	493.1	206.2	128.2	493.1	206.2	128.2	1,140,900	95,600	0.0	0.0	0.0	0.0
Apr-10	562.2	207.0	157.0	562.2	207.0	157.0	1,153,600	96,400	0.0	0.0	0.0	0.0
May-10	518.4	202.3	142.8	518.4	202.3	142.8	1,164,900	96,400	0.0	0.0	0.0	0.0
Jun-10	519.9	221.2	169.0	519.9	221.2	169.0	1,166,800	96,300	0.0	0.0	0.0	0.0
Jul-10	532.8	204.3	178.4	532.8	204.3	178.4	1,154,600	96,100	0.0	0.0	0.0	0.0
Aug-10	551.2	216.1	169.4	551.2	216.1	169.4	1,157,300	96,400	0.0	0.0	0.0	0.0
Sep-10	531.0	207.9	177.2	531.0	207.9	177.2	1,156,100	96,100	0.0	0.0	0.0	0.0
Oct-10	520.2	199.5	176.3	520.2	199.5	176.3	1,162,000	96,200	0.0	0.0	0.0	0.0
Nov-10	501.0	228.3	176.5	501.0	228.3	176.5	1,166,100	96,300	0.0	0.0	0.0	0.0
Dec-10	550.5	223.0	155.0	550.5	223.0	155.0	1,168,800	96,800	0.0	0.0	0.0	0.0
Jan-11	545.1	246.1	144.0	545.1	246.1	144.0	1,146,900	96,400	0.0	0.0	0.0	0.0
Feb-11	532.2	229.5	168.8	532.2	229.5	168.8	1,155,100	96,300	0.0	0.0	0.0	0.0
Mar-11	473.1	226.4	167.9	473.1	226.4	167.9	1,159,100	96,500	0.0	0.0	0.0	0.0
Apr-11	560.3	223.0	165.2	560.3	223.0	165.2	1,161,700	96,400	0.0	0.0	0.0	0.0
May-11	538.6	196.6	152.3	538.6	196.6	152.3	1,164,500	96,600	0.0	0.0	0.0	0.0
Jun-11	574.3	197.8	175.0	574.3	197.8	175.0	1,167,500	97,200	0.0	0.0	0.0	0.0
Jul-11	557.5	189.0	179.9	557.5	189.0	179.9	1,156,200	97,000	0.0	0.0	0.0	0.0
Aug-11	579.9	203.0	186.5	579.9	203.0	186.5	1,158,500	97,100	0.0	0.0	0.0	0.0
Sep-11	592.4	186.9	190.3	592.4	186.9	190.3	1,162,500	97,200	0.0	0.0	0.0	0.0
Oct-11	569.8	186.4	169.1	569.8	186.4	169.1	1,168,400	97,100	0.0	0.0	0.0	0.0
Nov-11	508.9	235.3	176.8	508.9	235.3	176.8	1,177,500	97,200	0.0	0.0	0.0	0.0
Dec-11	544.5	205.2	143.1	544.5	205.2	143.1	1,180,000	97,700	0.0	0.0	0.0	0.0
Jan-12	550.3	211.5	178.1	550.3	211.5	178.1	1,157,100	96,500	0.0	0.0	0.0	0.0
Feb-12	536.4	199.7	191.4	536.4	199.7	191.4	1,166,400	96,800	0.0	0.0	0.0	0.0
Mar-12	572.9	216.2	193.5	572.9	216.2	193.5	1,173,700	96,900	0.0	0.0	0.0	0.0
Apr-12	543.7	194.9	192.6	543.7	194.9	192.6	1,190,700	97,800	0.0	0.0	0.0	0.0
May-12	583.8	193.8	204.5	583.8	193.8	204.5	1,199,900	98,300	0.0	0.0	0.0	0.0
Jun-12	577.0	181.4	184.8	577.0	181.4	184.8	1,207,600	98,600	0.0	0.0	0.0	0.0
Jul-12	614.6	183.3	201.1	614.6	183.3	201.1	1,191,300	99,500	0.0	0.0	0.0	0.0
Aug-12	648.5	170.2	213.0	648.5	170.2	213.0	1,196,700	99,900	0.0	0.0	0.0	0.0
Sep-12	637.5	153.4	187.7	637.5	153.4	187.7	1,197,100	99,600	0.0	0.0	0.0	0.0
Oct-12	593.8	207.1	195.8	593.8	207.1	195.8	1,207,500	99,700	0.0	0.0	0.0	0.0
Nov-12	579.8	246.2	175.4	579.8	246.2	175.4	1,218,200	100,100	0.0	0.0	0.0	0.0
Dec-12	576.3	231.9	144.1	576.3	231.9	144.1	1,220,600	100,400	0.0	0.0	0.0	0.0
Jan-13	570.7	261.6	180.2	570.7	261.6	180.2	1,197,700	99,200	0.0	0.0	0.0	0.0
Feb-13	517.6	222.7	174.0	517.6	222.7	174.0	1,206,200	99,500	0.0	0.0	0.0	0.0
Mar-13	590.1	205.1	189.7	590.1	205.1	189.7	1,213,900	99,700	0.0	0.0	0.0	0.0
Apr-13	564.5	210.2	199.8	564.5	210.2	199.8	1,219,800	99,600	0.0	0.0	0.0	0.0
May-13	596.3	165.6	181.8	596.3	165.6	181.8	1,225,200	99,400	0.0	0.0	0.0	0.0
Jun-13	585.2	144.9	195.6	585.2	144.9	195.6	1,231,900	99,300	0.0	0.0	0.0	0.0
Jul-13	632.1	138.9	182.3	632.1	138.9	182.3	1,219,900	99,800	0.0	0.0	0.0	0.0
Aug-13	605.3	140.7	195.8	605.3	140.7	195.8	1,225,400	99,800	0.0	0.0	0.0	0.0
Sep-13	589.2	149.1	126.8	589.2	149.1	126.8	1,225,800	99,900	0.0	0.0	0.0	0.0
Oct-13	610.1	158.8	202.2	610.1	158.8	202.2	1,240,500	100,300	0.0	0.0	0.0	0.0
Nov-13	480.3	198.8	183.2	480.3	198.8	183.2	1,251,500	100,700	0.0	0.0	0.0	0.0
Dec-13	530.8	196.8	150.5	530.8	196.8	150.5	1,252,700	101,100	0.0	0.0	0.0	0.0
Jan-14	554.7	176.7	203.1	554.7	176.7	203.1	1,222,900	100,700	0.0	0.0	0.0	0.0
Feb-14	464.9	171.6	164.5	464.9	171.6	164.5	1,232,600	100,900	0.0	0.0	0.0	0.0
Mar-14	535.6	215.1	143.6	535.6	215.1	143.6	1,239,800	101,000	0.0	0.0	0.0	0.0
Apr-14	553.0	171.6	189.7	553.0	171.6	189.7	1,243,200	101,800	0.0	0.0	0.0	0.0
May-14	562.2	142.8	187.1	562.2	142.8	187.1	1,249,700	102,100	0.0	0.0	0.0	0.0
Jun-14	555.6	131.4	178.0	555.6	131.4	178.0	1,256,800	102,600	0.0	0.0	0.0	0.0
Jul-14	577.1	132.8	198.2	577.1	132.8	198.2	1,244,800	103,200	0.0	0.0	0.0	0.0
Aug-14	579.6	131.7	165.5	579.6	131.7	165.5	1,253,300	103,500	0.0	0.0	0.0	0.0
Sep-14	598.3	122.9	175.8	598.3	122.9	175.8	1,253,300	103,600	0.0	0.0	0.0	0.0
Oct-14	545.5	189.5	191.0	545.5	189.5	191.0	1,264,000	104,200	0.0	0.0	0.0	0.0
Nov-14	556.4	152.7	164.3	556.4	152.7	164.3	1,276,600	104,700	0.0	0.0	0.0	0.0
Dec-14	533.4	173.1	127.6	533.4	173.1	127.6	1,278,300	105,300	0.0	0.0	0.0	0.0
Jan-15	531.8	175.6	175.7	531.8	175.6	175.7	1,256,100	104,800	0.0	0.0	0.0	0.0
Feb-15	499.5	143.8	167.7	499.5	143.8	167.7	1,262,400	105,100	0.0	0.0	0.0	0.0
Mar-15	579.2	149.7	273.4	579.2	149.7	273.4	1,268,600	105,800	0.0	0.0	0.0	0.0
Apr-15	539.7	180.0	203.6	539.7	180.0	203.6	1,275,000	105,700	0.0	0.0	0.0	0.0
May-15	573.7	149.0	200.2	573.7	149.0	200.2	1,285,000	106,200	0.0	0.0	0.0	0.0
Jun-15	590.9	142.7	186.3	590.9	142.7	186.3	1,288,200	106,800	0.0	0.0	0.0	0.0
Jul-15	595.0	148.3	203.9	595.0	148.3	203.9	1,287,400	107,800	0.0	0.0	0.0	0.0
Aug-15	586.5	157.1	175.1	586.5	157.1	175.1	1,290,300	108,200	0.0	0.0	0.0	0.0
Sep-15	561.7	147.7	159.3	561.7	147.7	159.3	1,290,900	107,900	0.0	0.0	0.0	0.0
Oct-15	546.8	195.0	169.0	546.8	195.0	169.0	1,307,100	107,900	0.0	0.0	0.0	0.0
Nov-15	452.0	225.6	180.2	452.0	225.6	180.2	1,316,700	108,000	0.0	0.0	0.0	0.0
Dec-15	469.7	251.3	194.0	469.7	251.3	194.0	1,316,500	108,200	0.0	0.0	0.0	0.0
Jan-16	525.5	247.4	178.3	525.5	247.4	178.3	1,291,600	107,800	0.0	0.0	0.0	0.0
Feb-16	529.4	201.9	191.9	529.4	201.9	191.9	1,302,700	107,900	0.0	0.0	0.0	0.0
Mar-16	554.3	202.2	201.0	554.3	202.2	201.0	1,303,300	107,900	0.0	0.0	0.0	0.0
Apr-16	542.0	171.6	193.5	542.0	171.6	193.5	1,317,700	108,200	0.0	0.0	0.0	0.0
May-16	575.3	161.4	203.6	575.3	161.4	203.6	1,323,000	108,300	0.0	0.0	0.0	0.0
Jun-16	555.0	151.0	219.0	555.0	151.0	219.0	1,323,500	108,700	0.0	0.0	0.0	0.0
Jul-16	657.4	155.6	183.8	657.4	155.6	183.8	1,320,200	109,400	0.0	0.0	0.0	0.0
Aug-16	706.9	154.9	213.4	706.9	154.9	213.4	1,325,400	108,900	0.0	0.0	0.0	0.0
Sep-16	675.6	160.3	196.9	675.6	160.3	196.9	1,328,800	108,600	0.0	0.0	0.0	0.0
Oct-16	643.6	170.4	194.8	643.6	170.4	194.8	1,339,100	109,500	0.0	0.0	0.0	0.0
Nov-16	728.6	189.0	178.9	728.6	189.0	178.9	1,349,400	109,500	0.0	0.0	0.0	0.0
Dec-16	766.3	189.1	180.5	766.3	189.1	180.5	1,349,200	109,600	0.0	0.0	0.0	0.0
Jan-17	677.2	209.9	218.6	677.2	209.9	218.6	1,324,200	108,300	0.0	0.0	0.0	0.0

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Feb-17	677.7	163.8	204.6	677.7	163.8	204.6	1,333,100	108,500	0.0	0.0	0.0	0.0
Mar-17	756.2	186.8	208.1	756.2	186.8	208.1	1,337,200	108,500	0.0	0.0	0.0	0.0
Apr-17	682.2	176.6	216.4	682.2	176.6	216.4	1,345,700	108,700	0.0	0.0	0.0	0.0
May-17	672.0	161.4	193.2	672.0	161.4	193.2	1,351,300	108,800	0.0	0.0	0.0	0.0
Jun-17	754.3	150.6	219.2	754.3	150.6	219.2	1,358,700	109,600	0.0	0.0	0.0	0.0
Jul-17	687.2	171.4	195.5	687.2	171.4	195.5	1,343,400	110,900	0.0	0.0	0.0	0.0
Aug-17	833.1	153.5	205.4	833.1	153.5	205.4	1,347,700	110,800	0.0	0.0	0.0	0.0
Sep-17	750.5	132.5	153.1	750.5	132.5	153.1	1,352,600	110,300	0.0	0.0	0.0	0.0
Oct-17	748.3	154.5	180.6	748.3	154.5	180.6	1,367,000	110,500	0.0	0.0	0.0	0.0
Nov-17	832.7	158.8	173.3	832.7	158.8	173.3	1,377,000	110,300	0.0	0.0	0.0	0.0
Dec-17	758.0	190.1	193.3	758.0	190.1	193.3	1,377,400	111,200	0.0	0.0	0.0	0.0
Jan-18	793.0	177.9	218.8	793.0	177.9	218.8	1,357,000	111,000	0.0	0.0	0.0	0.0
Feb-18	729.9	155.3	156.1	729.9	155.3	156.1	1,367,400	111,300	0.0	0.0	0.0	0.0
Mar-18	667.5	184.2	192.8	667.5	184.2	192.8	1,371,200	111,700	0.0	0.0	0.0	0.0
Apr-18	660.2	171.2	226.2	660.2	171.2	226.2	1,375,900	111,500	0.0	0.0	0.0	0.0
May-18	835.7	160.6	236.0	835.7	160.6	236.0	1,379,100	112,200	0.0	0.0	0.0	0.0
Jun-18	752.8	153.9	209.3	752.8	153.9	209.3	1,385,300	113,200	0.0	0.0	0.0	0.0
Jul-18	970.1	160.6	189.1	970.1	160.6	189.1	1,371,200	113,800	0.0	0.0	0.0	0.0
Aug-18	1,055.9	130.5	238.1	1,055.9	130.5	238.1	1,376,700	113,600	0.0	0.0	0.0	0.0
Sep-18	915.2	140.2	209.2	915.2	140.2	209.2	1,375,500	113,000	0.0	0.0	0.0	0.0
Oct-18	723.7	181.1	210.3	723.7	181.1	210.3	1,389,000	113,400	0.0	0.0	0.0	0.0
Nov-18	1,072.2	187.9	202.8	1,072.2	187.9	202.8	1,398,100	113,700	0.0	0.0	0.0	0.0
Dec-18	953.2	212.5	187.7	953.2	212.5	187.7	1,399,100	114,100	0.0	0.0	0.0	0.0
Jan-19	638.6	208.4	260.4	638.6	208.4	260.4	1,377,400	113,100	0.0	0.0	0.0	0.0
Feb-19	572.1	217.0	209.7	572.1	217.0	209.7	1,383,100	113,800	0.0	0.0	0.0	0.0
Mar-19	414.6	198.1	240.5	414.6	198.1	240.5	1,386,600	114,000	0.0	0.0	0.0	0.0
Apr-19	621.6	178.4	212.6	621.6	178.4	212.6	1,392,800	114,300	0.0	0.0	0.0	0.0
May-19	612.2	185.3	202.7	612.2	185.3	202.7	1,397,600	114,900	0.0	0.0	0.0	0.0
Jun-19	587.5	175.9	176.5	587.5	175.9	176.5	1,402,600	115,900	0.0	0.0	0.0	0.0
Jul-19	621.7	169.8	177.3	621.7	169.8	177.3	1,390,200	117,300	0.0	0.0	0.0	0.0
Aug-19	640.6	171.7	222.4	640.6	171.7	222.4	1,395,300	117,500	0.0	0.0	0.0	0.0
Sep-19	626.6	168.5	190.4	626.6	168.5	190.4	1,392,100	117,100	0.0	0.0	0.0	0.0
Oct-19	658.9	193.9	192.8	658.9	193.9	192.8	1,408,700	117,600	0.0	0.0	0.0	0.0
Nov-19	619.5	216.8	179.9	619.5	216.8	179.9	1,420,500	118,200	0.0	0.0	0.0	0.0
Dec-19	620.2	243.9	173.1	620.2	243.9	173.1	1,415,300	118,500	0.0	0.0	0.0	0.0
Jan-20	626.5	243.6	217.6	626.5	243.6	217.6	1,395,400	118,100	0.0	0.0	0.0	0.0
Feb-20	595.6	225.7	193.5	595.6	225.7	193.5	1,406,000	118,700	0.0	0.0	0.0	0.0
Mar-20	589.6	235.9	220.6	589.6	235.9	220.6	1,391,200	118,300	0.0	0.0	0.0	0.0
Apr-20	548.4	191.1	248.0	548.4	191.1	248.0	1,165,200	110,400	0.0	0.0	0.0	0.0
May-20	625.7	165.1	198.3	625.7	165.1	198.3	1,179,500	111,000	0.0	0.0	0.0	0.0
Jun-20	571.1	167.2	193.0	571.1	167.2	193.0	1,235,300	113,000	0.0	0.0	0.0	0.0
Jul-20	688.4	160.9	222.2	688.4	160.9	222.2	1,234,600	113,600	0.0	0.0	0.0	0.0
Aug-20	700.8	164.1	187.4	700.8	164.1	187.4	1,243,900	113,500	0.0	0.0	0.0	0.0
Sep-20	669.2	162.8	208.7	669.2	162.8	208.7	1,258,300	113,300	0.0	0.0	0.0	0.0
Oct-20	671.8	171.0	216.1	671.8	171.0	216.1	1,278,500	113,200	0.0	0.0	0.0	0.0
Nov-20	575.8	203.3	207.0	575.8	203.3	207.0	1,291,300	113,500	0.0	0.0	0.0	0.0
Dec-20	570.2	228.6	209.6	570.2	228.6	209.6	1,284,700	113,200	0.0	0.0	0.0	0.0
Jan-21	612.3	218.1	202.1	612.3	218.1	202.1	1,246,700	113,300	0.0	0.0	0.0	0.0
Feb-21	568.8	191.3	211.1	568.8	191.3	211.1	1,276,500	114,600	0.0	0.0	0.0	0.0
Mar-21	626.4	274.4	242.3	626.4	274.4	242.3	1,284,400	114,300	0.0	0.0	0.0	0.0
Apr-21	535.1	237.2	242.9	535.1	237.2	242.9	1,293,200	114,500	0.0	0.0	0.0	0.0
May-21	630.0	213.6	216.2	630.0	213.6	216.2	1,297,100	113,900	0.0	0.0	0.0	0.0
Jun-21	597.9	189.3	250.8	597.9	189.3	250.8	1,301,100	115,700	0.0	0.0	0.0	0.0
Jul-21	664.4	154.7	196.2	664.4	154.7	196.2	1,296,900	114,500	0.0	0.0	0.0	0.0
Aug-21	659.5	163.3	216.4	659.5	163.3	216.4	1,305,400	113,900	0.0	0.0	0.0	0.0
Sep-21	661.7	158.6	163.9	661.7	158.6	163.9	1,312,800	113,100	0.0	0.0	0.0	0.0
Oct-21	566.7	213.4	188.7	566.7	213.4	188.7	1,339,600	113,800	0.0	0.0	0.0	0.0
Nov-21	603.3	174.5	240.7	603.3	174.5	240.7	1,350,829	114,381	0.0	0.0	0.0	0.0
Dec-21	620.3	234.2	248.2	620.3	234.2	248.2	1,345,873	114,668	0.0	0.0	0.0	0.0
Jan-22	617.4	223.4	231.4	622.5	224.0	233.3	1,320,023	113,358	-0.7	-0.6	-5.1	-1.3
Feb-22	634.8	223.4	231.0	640.0	224.0	232.9	1,352,041	115,187	-0.7	-0.6	-5.2	-1.3
Mar-22	641.1	220.4	225.5	646.4	221.1	227.3	1,358,158	115,417	-0.7	-0.6	-5.3	-1.2
Apr-22	653.4	218.6	224.1	658.7	219.2	226.0	1,365,722	116,935	-0.7	-0.6	-5.4	-1.2
May-22	651.2	216.6	218.9	656.5	217.3	220.7	1,368,506	116,088	-0.7	-0.6	-5.3	-1.2
Jun-22	662.1	215.2	218.5	667.6	215.9	220.3	1,371,720	117,684	-0.7	-0.6	-5.4	-1.2
Jul-22	653.5	213.3	212.7	658.9	214.0	214.5	1,369,114	115,917	-0.7	-0.6	-5.4	-1.2
Aug-22	651.5	212.8	209.5	656.8	213.5	211.2	1,373,462	115,384	-0.7	-0.6	-5.3	-1.1
Sep-22	648.0	212.5	206.2	653.3	213.2	207.9	1,377,508	114,646	-0.7	-0.6	-5.3	-1.1
Oct-22	654.6	215.6	206.3	660.0	216.3	208.0	1,402,438	115,715	-0.7	-0.6	-5.4	-1.1
Nov-22	657.1	216.2	205.4	662.5	216.8	207.1	1,409,808	116,091	-0.7	-0.6	-5.4	-1.1
Dec-22	657.8	214.3	204.3	663.2	215.0	206.0	1,400,614	116,169	-0.7	-0.6	-5.4	-1.1
Jan-23	646.7	208.9	199.3	653.2	210.4	201.8	1,372,723	114,382	-1.5	-1.2	-6.5	-1.3
Feb-23	657.5	213.0	201.5	664.1	214.4	204.1	1,400,995	116,270	-1.5	-1.2	-6.6	-1.3
Mar-23	659.2	212.9	201.2	665.8	214.4	203.7	1,402,099	116,546	-1.5	-1.2	-6.6	-1.3
Apr-23	667.2	212.7	202.8	673.9	214.1	205.4	1,401,673	117,938	-1.5	-1.2	-6.7	-1.3
May-23	663.7	212.6	201.2	670.3	214.1	203.7	1,402,228	117,310	-1.5	-1.2	-6.7	-1.3
Jun-23	674.1	212.6	203.8	680.9	214.0	206.3	1,402,660	119,155	-1.5	-1.2	-6.8	-1.3
Jul-23	669.3	211.7	201.9	676.0	214.2	204.4	1,397,562	118,290	-1.5	-1.2	-6.7	-1.3
Aug-23	663.6	212.0	199.8	670.3	213.4	202.3	1,399,552	117,282	-1.5	-1.2	-6.7	-1.3
Sep-23	656.8	212.1	197.4	663.4	213.5	199.9	1,400,617	116,076	-1.5	-1.2	-6.6	-1.3
Oct-23	658.6	215.2	197.7	665.3	216.7	200.2	1,421,682	116,403	-1.5	-1.2	-6.6	-1.3
Nov-23	659.9	216.2	197.8	666.5	217.6	200.3	1,428,053	116,624	-1.5	-1.2	-6.6	-1.3
Dec-23	659.5	214.6	197.5	666.1	216.0	200.0	1,417,672	116,545	-1.5	-1.2	-6.6	-1.3
Jan-24	645.4	209.0	192.8	654.2	211.4	196.2	1,387,319	114,466	-2.4	-1.8	-8.8	-1.7
Feb-24	655.9	213.5	195.8	664.9	215.8	199.3	1,416,673	116,331	-2.4	-1.8	-8.9	-1.7
Mar-24	657.4	213.7	196.1	666.3	216.1	199.6	1,418,421	116,581	-2.4	-1.8	-8.9	-1.7
Apr-24	664.8	213.8	198.2	673.8	216.2	201.7	1,418,927	117,899	-2.4	-1.8	-9.0	-1.7

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May-24	661.4	214.0	197.0	670.4	216.3	200.6	1,419,930	117,296	-2.4	-1.8	-9.0	-1.7
Jun-24	671.9	214.1	200.1	681.1	216.4	203.7	1,420,630	119,164	-2.4	-1.8	-9.1	-1.7
Jul-24	667.3	213.4	198.7	676.3	215.7	202.2	1,416,015	118,338	-2.4	-1.8	-9.1	-1.7
Aug-24	661.6	213.6	196.9	670.6	216.0	200.4	1,417,799	117,340	-2.4	-1.8	-9.0	-1.7
Sep-24	654.9	213.8	194.8	663.8	216.1	198.3	1,418,775	116,142	-2.4	-1.8	-8.9	-1.7
Oct-24	657.0	217.1	195.4	665.9	219.4	198.9	1,440,402	116,514	-2.4	-1.8	-8.9	-1.7
Nov-24	658.1	217.9	195.7	667.0	220.3	199.2	1,445,956	116,710	-2.4	-1.8	-8.9	-1.7
Dec-24	657.5	216.2	195.5	666.4	218.6	199.0	1,434,816	116,606	-2.4	-1.8	-8.9	-1.7
Jan-25	644.4	210.6	191.1	654.5	213.9	195.4	1,403,938	114,518	-3.3	-2.4	-10.1	-1.9
Feb-25	654.7	215.0	194.2	664.9	218.3	198.5	1,433,172	116,342	-3.3	-2.4	-10.3	-1.9
Mar-25	655.9	215.2	194.5	666.1	218.5	198.8	1,434,464	116,551	-3.3	-2.4	-10.3	-1.9
Apr-25	663.2	215.1	196.7	673.6	218.4	201.0	1,433,871	117,858	-3.3	-2.4	-10.4	-1.9
May-25	659.4	215.3	195.5	669.7	218.5	199.8	1,434,683	117,181	-3.3	-2.4	-10.3	-1.9
Jun-25	669.5	215.3	198.6	680.0	218.6	202.9	1,435,154	118,972	-3.3	-2.4	-10.5	-2.0
Jul-25	664.1	214.5	196.9	674.5	218.7	201.3	1,429,841	118,021	-3.3	-2.4	-10.4	-2.0
Aug-25	658.4	214.8	195.2	668.7	218.1	199.5	1,431,665	117,003	-3.3	-2.4	-10.3	-1.9
Sep-25	651.6	215.0	193.1	661.8	218.3	197.4	1,432,855	115,786	-3.3	-2.4	-10.2	-1.9
Oct-25	653.1	218.3	193.6	663.3	221.6	197.9	1,454,897	116,062	-3.3	-2.4	-10.2	-1.9
Nov-25	654.5	219.2	194.0	664.7	222.5	198.3	1,460,536	116,307	-3.3	-2.4	-10.3	-1.9
Dec-25	654.2	217.5	193.9	664.4	220.8	198.2	1,449,434	116,253	-3.3	-2.4	-10.2	-1.9
Jan-26	641.6	211.9	189.7	652.6	216.1	194.7	1,418,527	114,189	-4.2	-2.9	-11.1	-2.1
Feb-26	652.3	216.4	192.9	663.5	220.6	197.9	1,448,144	116,089	-4.2	-2.9	-11.2	-2.1
Mar-26	653.9	216.6	193.4	665.1	220.8	198.4	1,449,760	116,379	-4.2	-2.9	-11.3	-2.1
Apr-26	661.6	216.6	195.7	673.0	220.8	200.8	1,449,414	117,760	-4.2	-2.9	-11.4	-2.1
May-26	658.3	216.7	194.7	669.7	220.9	199.7	1,450,371	117,174	-4.2	-2.9	-11.3	-2.1
Jun-26	668.9	216.8	197.9	680.5	221.0	203.0	1,450,940	119,057	-4.2	-2.9	-11.5	-2.2
Jul-26	664.5	216.0	196.6	675.9	220.2	201.6	1,445,858	118,265	-4.2	-2.9	-11.4	-2.2
Aug-26	658.9	216.3	194.9	670.2	220.5	199.9	1,447,308	117,267	-4.2	-2.9	-11.3	-2.1
Sep-26	652.1	216.4	192.9	663.4	220.6	197.9	1,448,392	116,070	-4.2	-2.9	-11.2	-2.1
Oct-26	653.9	220.0	193.4	665.1	224.1	198.4	1,471,498	116,376	-4.2	-2.9	-11.3	-2.1
Nov-26	655.3	220.6	193.8	666.6	224.8	198.8	1,475,947	116,638	-4.2	-2.9	-11.3	-2.1
Dec-26	655.1	218.7	193.7	666.4	222.9	198.8	1,463,560	116,599	-4.2	-2.9	-11.3	-2.1
Jan-27	642.5	212.6	189.5	654.9	217.8	195.3	1,429,739	114,583	-5.2	-3.5	-12.4	-2.3
Feb-27	653.1	217.2	192.7	665.6	222.4	198.5	1,460,071	116,467	-5.2	-3.5	-12.6	-2.4
Mar-27	654.6	217.5	193.1	667.2	222.7	199.0	1,462,236	116,735	-5.2	-3.5	-12.6	-2.4
Apr-27	662.3	217.7	195.4	675.0	222.9	201.3	1,463,349	118,104	-5.2	-3.5	-12.7	-2.4
May-27	658.8	217.8	194.4	671.5	223.0	200.3	1,463,814	117,485	-5.2	-3.5	-12.7	-2.4
Jun-27	669.2	217.8	197.5	682.1	223.0	203.4	1,463,849	119,341	-5.2	-3.5	-12.9	-2.4
Jul-27	664.5	216.9	196.1	677.3	222.1	202.0	1,457,832	118,504	-5.2	-3.5	-12.8	-2.4
Aug-27	658.8	217.0	194.4	671.5	222.2	200.3	1,459,015	117,484	-5.2	-3.5	-12.7	-2.4
Sep-27	652.0	217.2	192.3	664.5	222.4	198.2	1,459,875	116,266	-5.2	-3.5	-12.5	-2.4
Oct-27	653.8	220.5	192.9	666.4	225.7	198.8	1,481,872	116,599	-5.2	-3.5	-12.6	-2.4
Nov-27	654.9	221.3	193.2	667.5	226.5	199.1	1,487,092	116,795	-5.2	-3.5	-12.6	-2.4
Dec-27	654.3	219.5	193.1	666.9	224.7	198.9	1,475,333	116,690	-5.2	-3.5	-12.6	-2.4
Jan-28	641.3	213.7	188.7	655.0	219.9	195.3	1,443,748	114,596	-6.2	-4.1	-13.6	-2.6
Feb-28	651.5	218.2	191.8	665.4	224.4	198.5	1,473,461	116,425	-6.2	-4.1	-13.9	-2.6
Mar-28	652.7	218.4	192.2	666.6	224.6	198.8	1,474,743	116,637	-6.2	-4.1	-13.9	-2.6
Apr-28	660.0	218.3	194.3	674.1	224.5	201.0	1,474,098	117,939	-6.2	-4.1	-14.0	-2.6
May-28	656.3	218.4	193.2	670.3	224.6	199.9	1,474,424	117,274	-6.2	-4.1	-14.0	-2.6
Jun-28	666.4	218.4	196.3	680.6	224.6	203.0	1,474,352	119,080	-6.2	-4.1	-14.2	-2.7
Jul-28	661.2	217.4	194.7	675.3	223.6	201.4	1,468,032	118,159	-6.2	-4.1	-14.1	-2.6
Aug-28	655.5	217.6	193.0	669.5	223.8	199.7	1,469,206	117,134	-6.2	-4.1	-14.0	-2.6
Sep-28	648.7	217.7	190.9	662.5	223.9	197.6	1,470,044	115,910	-6.2	-4.1	-13.8	-2.6
Oct-28	650.3	221.1	191.4	664.2	227.3	198.1	1,492,217	116,210	-6.2	-4.1	-13.8	-2.6
Nov-28	651.5	221.9	191.8	665.4	228.1	198.4	1,497,342	116,421	-6.2	-4.1	-13.9	-2.6
Dec-28	651.0	220.0	191.6	664.9	226.3	198.3	1,485,380	116,332	-6.2	-4.1	-13.9	-2.6
Jan-29	638.2	214.1	187.3	653.0	221.4	194.8	1,453,617	114,261	-7.3	-4.7	-14.8	-2.8
Feb-29	648.5	218.6	190.4	663.5	226.0	197.9	1,483,466	116,099	-7.3	-4.7	-15.1	-2.8
Mar-29	649.8	218.8	190.8	664.8	226.1	198.3	1,484,622	116,325	-7.3	-4.7	-15.1	-2.8
Apr-29	657.1	218.7	193.0	672.3	226.0	200.5	1,483,713	117,632	-7.3	-4.7	-15.3	-2.9
May-29	653.5	218.7	191.9	668.6	226.0	199.4	1,484,040	116,990	-7.3	-4.7	-15.2	-2.9
Jun-29	663.7	218.7	195.0	679.1	226.0	202.5	1,483,978	118,814	-7.3	-4.7	-15.4	-2.9
Jul-29	658.9	217.8	193.5	674.2	225.1	201.1	1,477,684	117,957	-7.3	-4.7	-15.3	-2.9
Aug-29	653.0	217.9	191.8	668.2	225.3	199.3	1,478,852	116,915	-7.3	-4.7	-15.2	-2.9
Sep-29	646.1	218.1	189.7	661.1	225.4	197.2	1,479,635	115,675	-7.3	-4.7	-15.0	-2.8
Oct-29	647.6	221.5	190.1	662.7	228.8	197.6	1,501,996	115,946	-7.3	-4.7	-15.0	-2.8
Nov-29	648.8	222.2	190.5	663.8	229.5	198.0	1,506,983	116,147	-7.3	-4.7	-15.1	-2.8
Dec-29	648.2	220.4	190.3	663.3	227.7	197.8	1,494,755	116,049	-7.3	-4.7	-15.0	-2.8
Jan-30	635.5	214.3	186.0	651.4	222.8	194.3	1,462,674	113,982	-8.4	-5.3	-16.0	-3.0
Feb-30	645.6	218.9	189.0	661.8	227.4	197.4	1,492,639	115,798	-8.4	-5.3	-16.2	-3.1
Mar-30	646.8	219.1	189.4	663.0	227.5	197.7	1,493,665	116,007	-8.4	-5.3	-16.2	-3.1
Apr-30	654.0	218.9	191.5	670.4	227.3	200.0	1,492,372	117,306	-8.4	-5.3	-16.4	-3.1
May-30	650.3	218.9	190.4	666.6	227.4	198.8	1,492,825	116,636	-8.4	-5.3	-16.3	-3.1
Jun-30	660.2	219.0	193.4	676.8	227.4	201.9	1,492,932	118,422	-8.4	-5.3	-16.6	-3.1
Jul-30	654.9	218.1	191.8	671.4	226.6	200.2	1,487,389	117,472	-8.4	-5.3	-16.5	-3.1
Aug-30	649.3	218.2	190.1	665.7	226.7	198.5	1,488,223	116,469	-8.4	-5.3	-16.3	-3.1
Sep-30	642.7	218.3	188.1	658.8	226.7	196.5	1,488,539	115,269	-8.4	-5.3	-16.1	-3.0
Oct-30	644.4	221.6	188.6	660.5	230.1	197.0	1,510,463	115,574	-8.4	-5.3	-16.2	-3.1
Nov-30	645.7	222.3	189.0	661.9	230.8	197.4	1,515,127	115,810	-8.4	-5.3	-16.2	-3.1
Dec-30	645.3	220.4	188.9	661.5	228.8	197.3	1,502,426	115,747	-8.4	-5.3	-16.2	-3.1
Jan-31	632.7	214.3	184.6	649.9	223.9	193.8	1,469,717	113,704	-9.6	-5.9	-17.1	-3.2
Feb-31	643.1	218.8	187.8	660.5	228.4	197.0	1,499,639	115,567	-9.6	-5.9	-17.4	-3.3
Mar-31	644.5	218.9	188.2	662.0	228.5	197.4	1,500,373	115,827	-9.6	-5.9	-17.4	-3.3
Apr-31	652.1	218.7	190.5	669.7	228.3	199.7	1,498,867	117,181	-9.6	-5.9	-17.6	-3.3
May-31	648.6	218.7	189.4	666.2	228.3	198.7	1,499,004	116,558	-9.6	-5.9	-17.5	-3.3
Jun-31	658.8	218.7	192.5	676.6	228.3	201.8	1,498,825	118,391	-9.6	-5.9	-17.8	-3.4
Jul-31	653.9	217.7	191.0	671.6	227.3	200.3	1,492,226	117,510	-9.6	-5.9	-17.7	-3.4

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Aug-31	648.5	217.8	189.4	666.0	227.5	198.6	1,493,272	116,532	-9.6	-5.9	-17.5	-3.3
Sep-31	641.9	217.9	187.4	659.3	227.5	196.6	1,493,854	115,356	-9.6	-5.9	-17.4	-3.3
Oct-31	644.1	221.3	188.1	661.6	231.0	197.3	1,516,241	115,751	-9.6	-5.9	-17.4	-3.3
Nov-31	645.2	222.1	188.4	662.7	231.7	197.6	1,521,142	115,946	-9.6	-5.9	-17.5	-3.3
Dec-31	644.6	220.2	188.2	662.1	229.8	197.5	1,508,505	115,843	-9.6	-5.9	-17.4	-3.3
Jan-32	631.6	214.6	184.4	649.9	224.8	193.8	1,475,658	113,716	-10.1	-6.0	-18.3	-3.5
Feb-32	642.0	219.2	187.5	660.6	229.4	197.0	1,505,785	115,581	-10.1	-6.0	-18.6	-3.5
Mar-32	643.4	219.3	188.0	662.1	229.5	197.5	1,506,655	115,843	-10.1	-6.0	-18.6	-3.5
Apr-32	651.1	219.2	190.3	670.0	229.3	199.8	1,505,458	117,225	-10.1	-6.0	-18.9	-3.6
May-32	647.5	219.2	189.2	666.3	229.3	198.7	1,505,570	116,580	-10.1	-6.0	-18.8	-3.6
Jun-32	657.6	219.2	192.2	676.6	229.3	201.8	1,505,387	118,391	-10.1	-6.0	-19.1	-3.6
Jul-32	652.6	218.1	190.7	671.5	228.2	200.3	1,498,384	117,491	-10.1	-6.0	-18.9	-3.6
Aug-32	647.0	218.3	189.0	665.8	228.4	198.6	1,499,634	116,487	-10.1	-6.0	-18.8	-3.6
Sep-32	640.3	218.4	187.0	658.9	228.6	196.5	1,500,498	115,285	-10.1	-6.0	-18.6	-3.5
Oct-32	642.1	221.9	187.5	660.7	232.0	197.0	1,523,275	115,594	-10.1	-6.0	-18.6	-3.5
Nov-32	643.3	222.7	187.9	662.0	232.8	197.4	1,528,452	115,823	-10.1	-6.0	-18.6	-3.5
Dec-32	642.9	220.8	187.8	661.6	230.9	197.3	1,515,936	115,754	-10.1	-6.0	-18.6	-3.5
Jan-33	629.8	215.3	184.0	649.8	225.9	193.8	1,483,031	113,688	-10.6	-6.0	-19.9	-3.8
Feb-33	640.2	220.0	187.1	660.5	230.5	197.0	1,513,459	115,562	-10.6	-6.0	-20.3	-3.9
Mar-33	641.7	220.1	187.6	662.0	230.7	197.4	1,514,428	115,833	-10.6	-6.0	-20.3	-3.9
Apr-33	649.5	220.0	189.9	670.1	230.5	199.8	1,513,310	117,241	-10.6	-6.0	-20.6	-3.9
May-33	645.9	220.0	188.8	666.3	230.5	198.7	1,513,597	116,588	-10.6	-6.0	-20.4	-3.9
Jun-33	655.9	220.0	191.9	676.6	230.5	201.8	1,513,590	118,391	-10.6	-6.0	-20.8	-4.0
Jul-33	650.9	219.0	190.3	671.5	229.5	200.3	1,506,962	117,483	-10.6	-6.0	-20.6	-3.9
Aug-33	645.3	219.2	188.6	665.7	229.7	198.5	1,508,115	116,471	-10.6	-6.0	-20.4	-3.9
Sep-33	638.6	219.3	186.6	658.8	229.8	196.5	1,508,927	115,262	-10.6	-6.0	-20.2	-3.9
Oct-33	640.3	222.8	187.1	660.5	233.3	197.0	1,531,726	115,573	-10.6	-6.0	-20.3	-3.9
Nov-33	641.5	223.6	187.5	661.8	234.1	197.4	1,536,969	115,785	-10.6	-6.0	-20.3	-3.9
Dec-33	641.0	221.6	187.4	661.3	232.2	197.2	1,524,323	115,700	-10.6	-6.0	-20.3	-3.9
Jan-34	627.8	216.3	183.5	649.5	227.1	193.7	1,491,122	113,634	-10.9	-6.0	-21.7	-4.1
Feb-34	637.9	220.9	186.6	660.0	231.8	196.8	1,521,568	115,474	-10.9	-6.0	-22.0	-4.2
Mar-34	639.2	221.0	187.0	661.3	231.9	197.2	1,522,445	115,712	-10.9	-6.0	-22.1	-4.2
Apr-34	646.6	220.9	189.2	669.0	231.7	199.5	1,521,387	117,050	-10.9	-6.0	-22.3	-4.3
May-34	643.0	220.9	188.1	665.3	231.7	198.4	1,521,452	116,400	-10.9	-6.0	-22.2	-4.2
Jun-34	653.0	220.9	191.1	675.6	231.7	201.5	1,521,272	118,202	-10.9	-6.0	-22.6	-4.3
Jul-34	648.0	219.8	189.6	670.4	230.7	199.9	1,514,286	117,300	-10.9	-6.0	-22.4	-4.3
Aug-34	642.4	220.0	187.9	664.6	230.8	198.2	1,515,373	116,290	-10.9	-6.0	-22.2	-4.2
Sep-34	635.8	220.1	185.9	657.7	230.9	196.2	1,516,156	115,082	-10.9	-6.0	-22.0	-4.2
Oct-34	637.4	223.5	186.4	659.4	234.4	196.7	1,538,896	115,376	-10.9	-6.0	-22.0	-4.2
Nov-34	638.6	224.4	186.8	660.7	235.2	197.1	1,544,260	115,604	-10.9	-6.0	-22.1	-4.2
Dec-34	638.3	222.4	186.7	660.3	233.3	196.9	1,531,609	115,534	-10.9	-6.0	-22.1	-4.2
Jan-35	625.3	217.0	182.9	648.7	228.2	193.5	1,498,191	113,495	-11.2	-6.1	-23.3	-4.5
Feb-35	635.5	221.7	185.9	659.2	232.9	196.6	1,528,812	115,341	-11.2	-6.1	-23.7	-4.5
Mar-35	636.8	221.8	186.3	660.6	233.0	197.0	1,529,688	115,586	-11.2	-6.1	-23.8	-4.6
Apr-35	644.2	221.7	188.6	668.2	232.9	199.3	1,528,797	116,916	-11.2	-6.1	-24.0	-4.6
May-35	640.7	221.7	187.5	664.6	232.9	198.2	1,528,736	116,287	-11.2	-6.1	-23.9	-4.6
Jun-35	650.7	221.7	190.5	675.0	232.8	201.3	1,528,480	118,108	-11.2	-6.1	-24.3	-4.7
Jul-35	645.9	220.6	189.1	670.0	231.7	199.8	1,521,434	117,224	-11.2	-6.1	-24.1	-4.6
Aug-35	640.4	220.7	187.4	664.3	231.9	198.1	1,522,451	116,237	-11.2	-6.1	-23.9	-4.6
Sep-35	633.9	220.9	185.5	657.6	232.0	196.1	1,523,149	115,052	-11.2	-6.1	-23.7	-4.5
Oct-35	635.8	224.3	186.0	659.5	235.4	196.7	1,545,724	115,387	-11.2	-6.1	-23.7	-4.5
Nov-35	637.0	225.1	186.4	660.8	236.3	197.1	1,551,246	115,618	-11.2	-6.1	-23.8	-4.6
Dec-35	636.7	223.2	186.3	660.4	234.4	197.0	1,538,637	115,551	-11.2	-6.1	-23.8	-4.6

2022 CALIFORNIA GAS REPORT

NATURAL GAS VEHICLES



SDG&E 2022 CGR Workpapers

Each of the sheets provided support the calculation of the 2022 CGR throughput forecast through 2035.

Methodology: The forecasted throughput is estimated by taking the yearly meter growth multiplied by the average throughput per meter calculated based on the 2021 actuals.

Some key assumptions are that:

- 1) The average throughput per meter is consistent through the forecast period, and
- 2) Meters are added at the same rate each year through 2035.

1. Description - SDGE G-NGV Forecast of Volumes and Meters

2. Data

Table 1 - SDGE Volume Forecast Growth		
Years	Volumes	
	Compressed	Uncompressed
	M Dtherms	M Dtherms
2021	105	2,268
2022	84	2,268
2023	84	2,320
2024	84	2,320
2025	84	2,320
2026	84	2,270
2027	84	2,270
2028	84	2,270
2029	84	2,270
2030	84	2,270
2031	84	2,372
2032	84	2,372
2033	84	2,372
2034	84	2,322
2035	84	2,322

* A compressed meter was removed in 2021

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SDGE Monthly Volumes													
Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Compressed Volumes - Total (M decatherms)													
2021 (Therms)	63,879	65,476	68,395	80,868	83,800	90,644	93,084	94,537	97,513	101,870	104,743	108,395	1,053,203
2021	6	7	7	8	8	9	9	9	10	10	10	11	105
2022	6	6	5	6	7	7	7	7	8	8	8	8	84
2023	6	6	5	6	7	7	7	7	8	8	8	8	84
2024	6	6	5	6	7	7	7	7	8	8	8	8	84
2025	6	6	5	6	7	7	7	7	8	8	8	8	84
2026	6	6	5	6	7	7	7	7	8	8	8	8	84
2027	6	6	5	6	7	7	7	7	8	8	8	8	84
2028	6	6	5	6	7	7	7	7	8	8	8	8	84
2029	6	6	5	6	7	7	7	7	8	8	8	8	84
2030	6	6	5	6	7	7	7	7	8	8	8	8	84
2031	6	6	5	6	7	7	7	7	8	8	8	8	84
2032	6	6	5	6	7	7	7	7	8	8	8	8	84
2033	6	6	5	6	7	7	7	7	8	8	8	8	84
2034	6	6	5	6	7	7	7	7	8	8	8	8	84
2035	6	6	5	6	7	7	7	7	8	8	8	8	84
Compressed Volumes - Public Use (M decatherms)													
2021 - Therms	29,336	28,654	33,762	37,228	40,160	41,423	42,305	43,929	44,486	48,444	47,488	52,336	489,550
2021 - MD therms	3	3	3	4	4	4	4	4	4	5	5	5	49
2021	3	3	3	4	4	4	4	4	4	5	5	5	49
2022	2	2	2	3	3	3	3	3	3	4	3	4	35
2023	2	2	2	3	3	3	3	3	3	4	3	4	35
2024	2	2	2	3	3	3	3	3	3	4	3	4	35
2025	2	2	2	3	3	3	3	3	3	4	3	4	35
2026	2	2	2	3	3	3	3	3	3	4	3	4	35
2027	2	2	2	3	3	3	3	3	3	4	3	4	35
2028	2	2	2	3	3	3	3	3	3	4	3	4	35
2029	2	2	2	3	3	3	3	3	3	4	3	4	35
2030	2	2	2	3	3	3	3	3	3	4	3	4	35
2031	2	2	2	3	3	3	3	3	3	4	3	4	35
2032	2	2	2	3	3	3	3	3	3	4	3	4	35
2033	2	2	2	3	3	3	3	3	3	4	3	4	35
2034	2	2	2	3	3	3	3	3	3	4	3	4	35
2035	2	2	2	3	3	3	3	3	3	4	3	4	35
Compressed Volumes - Utility Use (M decatherms)													
2021 - therms	34,543	36,822	34,633	43,640	43,640	49,221	50,779	50,608	53,027	53,426	57,255	56,059	563,653
2021 - M Decatherms	3.5	3.7	3.5	4.4	4.4	4.9	5.1	5.1	5.3	5.3	5.7	5.6	56

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2021	3.5	3.7	3.5	4.4	4.4	4.9	5.1	5.1	5.3	5.3	5.7	5.6	56
2022	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2023	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2024	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2025	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2026	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2027	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2028	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2029	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2030	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2031	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2032	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2033	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2034	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
2035	3.5	3.7	2.9	3.6	3.6	4.1	4.2	4.2	4.4	4.5	4.8	4.7	48
Uncompressed Volumes - Total (M Decatherms)													
2021	197	189	127	168	186	187	218	199	208	198	199	194	2,268
2021	197	189	127	168	186	187	218	199	208	198	199	194	2,268
2022	201	192	131	172	189	191	224	204	212	202	203	198	2,320
2023	201	192	131	172	189	191	224	204	212	202	203	198	2,320
2024	201	192	131	172	189	191	224	204	212	202	203	198	2,320
2025	196	188	129	169	185	186	220	200	207	198	199	194	2,270
2026	196	188	129	169	185	186	220	200	207	198	199	194	2,270
2027	196	188	129	169	185	186	220	200	207	198	199	194	2,270
2028	196	188	129	169	185	186	220	200	207	198	199	194	2,270
2029	196	188	129	169	185	186	220	200	207	198	199	194	2,270
2030	204	196	135	177	193	195	230	209	216	206	208	203	2,372
2031	204	196	135	177	193	195	230	209	216	206	208	203	2,372
2032	204	196	135	177	193	195	230	209	216	206	208	203	2,372
2033	200	191	133	173	189	190	226	205	211	202	203	198	2,322
2034	200	191	133	173	189	190	226	205	211	202	203	198	2,322
2035	200	191	133	173	189	190	226	205	211	202	203	198	2,322
Uncompressed Volumes - Utility Procurement Customers (M Decatherms)													
2021 - Therms	893,560	852,549	419,762	661,794	815,949	806,451	832,417	774,768	915,347	829,904	835,969	830,690	9,469,160
2021 - M Decatherms	89	85	42	66	82	81	83	77	92	83	84	83	947
2021	89	85	42	66	82	81	83	77	92	83	84	83	947
2022	85	81	40	63	77	76	79	73	87	79	79	79	897
2023	85	81	40	63	77	76	79	73	87	79	79	79	897
2024	85	81	40	63	77	76	79	73	87	79	79	79	897

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2025	80	76	38	59	73	72	74	69	82	74	75	74	847
2026	80	76	38	59	73	72	74	69	82	74	75	74	847
2027	80	76	38	59	73	72	74	69	82	74	75	74	847
2028	80	76	38	59	73	72	74	69	82	74	75	74	847
2029	80	76	38	59	73	72	74	69	82	74	75	74	847
2030	80	76	38	59	73	72	74	69	82	74	75	74	847
2031	80	76	38	59	73	72	74	69	82	74	75	74	847
2032	80	76	38	59	73	72	74	69	82	74	75	74	847
2033	75	72	35	56	69	68	70	65	77	70	70	70	797
2034	75	72	35	56	69	68	70	65	77	70	70	70	797
2035	75	72	35	56	69	68	70	65	77	70	70	70	797
Uncompressed Volumes - Customer Owned Gas (M Decatherms)													
2021 - Therms	1,079,385	1,037,139	847,775	1,016,824	1,040,434	1,060,634	1,346,973	1,211,617	1,160,436	1,145,876	1,151,347	1,112,421	13,210,861
2021 - M Decatherms	108	104	85	102	104	106	135	121	116	115	115	111	1,321
2021	108	104	85	102	104	106	135	121	116	115	115	111	1,321
2022	116	112	91	110	112	114	145	130	125	123	124	120	1,423
2023	116	112	91	110	112	114	145	130	125	123	124	120	1,423
2024	116	112	91	110	112	114	145	130	125	123	124	120	1,423
2025	116	112	91	110	112	114	145	130	125	123	124	120	1,423
2026	116	112	91	110	112	114	145	130	125	123	124	120	1,423
2027	116	112	91	110	112	114	145	130	125	123	124	120	1,423
2028	116	112	91	110	112	114	145	130	125	123	124	120	1,423
2029	116	112	91	110	112	114	145	130	125	123	124	120	1,423
2030	125	120	98	117	120	122	155	140	134	132	133	128	1,524
2031	125	120	98	117	120	122	155	140	134	132	133	128	1,524
2032	125	120	98	117	120	122	155	140	134	132	133	128	1,524
2033	125	120	98	117	120	122	155	140	134	132	133	128	1,524
2034	125	120	98	117	120	122	155	140	134	132	133	128	1,524
2035	125	120	98	117	120	122	155	140	134	132	133	128	1,524

SDGE CGR Meter Forecast Through 2035						
Year	Uncompressed Meters Total	Compressed Pub Access Meters	Compressed Fleet Meters	Total Meters		
2021	32	2	5	37	Meters changes per year 2021 through 2035	
2022	32	2	5	37		
2023	32	2	5	37		
2024	32	2	5	37		
2025	31	2	5	36		
2026	31	2	5	36	-0.07	
2027	31	2	5	36		
2028	31	2	5	36		
2029	31	2	5	36		
2030	32	2	5	37		
2031	32	2	5	37		
2032	32	2	5	37		
2033	31	2	5	36		
2034	31	2	5	36		
2035	31	2	5	36		

SDG&E Compressed Company Usage

(Therms)	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
BEACH CITIES	188	89	260	320	320	404	416	291	284	334	224	224
MIRAMAR	17,309	20,788	19,736	23,399	23,399	27,193	30,724	35,010	36,782	36,782	38,848	41,315
KEARNY	7,142	6,070	4,601	7,260	7,260	7,859	5,434	592	128	65	14	-
METRO	151	175	94	110	110	44	160	258	337	252	202	187
NORTH EAST	325	367	237	326	326	372	412	288	431	329	297	278
NORTH COAST	9,428	9,333	9,705	12,225	12,225	13,349	13,633	14,169	15,065	15,664	17,670	14,055

Average Annual Therms	Average Annual Mdtherms per meter
7,828	0.7829

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ENERGY EFFICIENCY



	Excel Tab	TAB DESCRIPTION																			
TOTAL PORTFOLIO INCENTIVE PROGRAMS CODES AND STANDARDS	SDGE_2022_CGR_EE Portfolio	total portfolio forecast (includes C&S)																			
	SDGE_2022_CGR_IJU Programs	total portfolio forecast (excludes C&S)																			
	SDGE_2022_CGR_C&S	C&S forecast																			
	Excel Tab	Line No	METHODOLOGY																		
TOTAL PORTFOLIO INCENTIVE PROGRAMS CODES AND STANDARDS	SDGE_2022_CGR_EE Portfolio	1	SDGE EE Program TOTAL | Values from 2006-2015 for total portfolio , IOU and C&S tabs are the same ..																		
	SDGE_2022_CGR_IJU Programs	1	SDGE EE Program TOTAL | Values from 2016-2021 broken down by portfolio,EE and C&S values for their respective tabs																		
	SDGE_2022_CGR_C&S	1	SDGE EE Program TOTAL | Values from 2022 to 2030 from 2018 IEPR forecast (informational only)																		
			2	PUC Goal | Goals include C&S for all 3 tabs (2006-2021) NOTE: CPUC goals are net 2005-2008, gross 2009-2017 and net 2018 to present | C&S goals broken out starting in 2013																	
			2	PUC Goal | 2022-2032 goals based on (D.19-08-034) and supporting P&G files broken down between total portfolio|program|C&S goals																	
			17	Annual Net Savings | calcs based on SDGE EE Program TOTAL line item for years (2006-2021)																	
			17	Annual Net Savings | calcs based on PUC GOAL line item for years (2022 and beyond) | Goal x gas sector allocations																	
			39	Converted MMDth and MMCF savings are cumulated starting with 2022 EE savings and adjusted down to reflect average EE measure life of 10 years.																	

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
LINE NO	SDGE - TABLE 1	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported
	TOTAL PORTFOLIO	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
		Therms	Therms	Therms	Therms	Therms	Therms	Therms	Therms	Therms	Therms	NET	NET	NET	NET	NET	NET
1	SDGE EE Program TOTAL	1,652,856	3,141,304	3,146,590	4,764,177	628,756	1,365,631	1,713,642	843,335	2,171,447	1,779,769	2,353,107	1,635,555	1,375,439	2,472,647	4,890,195	4,024,230
2	PUC Goal	2,700,000	3,100,000	3,700,000	4,100,000	3,500,000	3,800,000	4,100,000	2,200,000	2,100,000	2,500,000	3,200,000	3,300,000	3,300,000	3,600,000	3,500,000	3,700,000
3	Difference	(1,047,144)	41,304	(553,410)	664,177	(2,871,244)	(2,434,369)	(2,386,358)	(1,356,665)	71,447	(720,231)	(846,893)	(1,664,445)	(1,924,561)	(1,127,353)	1,390,195	324,230
4																	
5		<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
6	SDGE	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms
7	Core Residential	595,394	891,146	906,495	1,127,509	(793,637)	161,413	(698,947)	-82,037	191,340	-111,638	1,226,849	468,762	846,721	1,701,814	3,664,329	3,525,333
8	Core Commercial	1,011,317	1,983,180	1,974,310	3,206,182	1,253,628	1,061,339	2,126,330	801,370	1,521,143	1,423,470	901,813	988,385	440,407	636,307	882,332	439,391
9	Core Industrial	20,715	40,821	40,439	65,651	25,878	21,739	43,553	2,651	45,276	49,289	18,265	7,853	5,086	8,596	40,179	(74)
10	NonCore Commercial	11,543	22,636	22,535	36,584	14,309	12,114	24,270	109,278	207,429	194,110	122,974	134,780	60,055	86,769	120,318	59,917
11	NonCore Industrial retail	103,887	203,722	202,811	329,252	128,779	109,026	218,428	12,075	206,259	224,539	83,206	35,775	23,170	39,161	183,038	(336)
12	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Total	1,652,856	3,141,304	3,146,590	4,764,177	628,756	1,365,631	1,713,642	843,335	2,171,447	1,779,769	2,353,107	1,635,555	1,375,439	2,472,647	4,890,195	4,024,230
14																	
15																	
16		<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
17	ANNUAL NET SAVINGS	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
18	Core Residential	51	89	91	113	(79)	16	(70)	(8)	19	(11)	123	47	85	170	366	353
19	Core Commercial	101	198	197	321	125	106	213	80	152	142	90	99	44	64	88	44
20	Core Industrial	2	4	4	7	3	2	4	0	5	5	2	1	1	1	4	(0)
21	NonCore Commercial	1	2	2	4	1	1	2	11	21	19	12	13	6	9	12	6
22	NonCore Industrial retail	10	20	20	33	13	11	22	1	21	22	8	4	2	4	18	(0)
23	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Total	165	314	315	476	63	137	171	84	217	178	235	164	138	247	489	402

	A	B	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1		SDGE - TABLE 1	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
2	LINE NO	TOTAL PORTFOLIO	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
3														
4	1	SDGE EE Program TOTAL	1,882,694	3,252,273	3,326,178	3,427,721	3,407,192	3,401,226	3,468,884	3,529,399	3,584,242			
5	2	PUC Goal	3,873,787	4,264,665	4,428,702	4,471,702	3,766,642	3,924,355	3,907,370	3,958,005	4,047,509	4,131,175	4,212,942	4,212,942
6	3	Difference												
7	4													
8	5													
9	6	SDGE												
10	7	Core Residential	80.3%	79.4%	78.0%	77.7%	73.5%	72.0%	71.7%	70.1%	69.6%	69.5%	69.3%	69.3%
11	8	Core Commercial	15.3%	16.3%	17.6%	18.0%	21.5%	22.7%	23.0%	24.3%	24.7%	24.8%	25.1%	25.1%
12	9	Core Industrial	0.4%	0.4%	0.3%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
13	10	NonCore Commercial	2.1%	2.2%	2.4%	2.5%	2.9%	3.1%	3.1%	3.3%	3.4%	3.4%	3.4%	3.4%
14	11	NonCore Industrial retail	1.9%	1.7%	1.6%	1.5%	1.7%	1.8%	1.8%	1.8%	1.9%	1.8%	1.8%	1.8%
15	12	NonCore Industrial refinery	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
16	13	Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
17	14													
18	15													
19	16		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>
20	17	ANNUAL NET SAVINGS	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
21	18	Core Residential	311	338	346	348	277	282	280	278	282	287	292	292
22	19	Core Commercial	59	70	78	81	81	89	90	96	100	103	106	106
23	20	Core Industrial	2	2	2	1	1	2	2	2	2	2	2	2
24	21	NonCore Commercial	8	9	11	11	11	12	12	13	14	14	14	14
25	22	NonCore Industrial retail	7	7	7	7	6	7	7	7	8	8	8	8
26	23	NonCore Industrial refinery	0	0	0	0	0	0	0	0	0	0	0	0
27	24	Total	387	426	443	447	377	392	391	396	405	413	421	421
28	25													

	A	B	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1		SDGE - TABLE 1	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
2	LINE NO	TOTAL PORTFOLIO	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
3														
10	27		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>
11	28	Cumulative Savings Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
12	29	Core Residential	311	650	995	1,343	1,620	1,902	2,182	2,460	2,742	3,029	3,010	2,963
13	30	Core Commercial	59	129	207	287	368	457	547	644	744	846	893	929
14	31	Core Industrial	2	3	5	6	8	9	11	12	14	16	16	16
15	32	NonCore Commercial	8	18	28	39	50	62	75	88	101	115	122	127
16	33	NonCore Industrial regular	7	15	22	28	35	42	49	56	64	71	72	72
17	34	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-
18	35	Total Load Impacts	387	814	1,257	1,704	2,081	2,473	2,864	3,260	3,664	4,077	4,111	4,106
19	36													
20	37													
21	38		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>
22	39	Cumulative Savings MMCF	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf
23	40	Core Residential	302	631	966	1,304	1,573	1,847	2,119	2,388	2,662	2,941	2,922	2,877
24	41	Core Commercial	57	125	201	279	358	444	532	625	722	821	867	902
25	42	Core Industrial	2	3	5	6	7	9	10	12	14	15	15	15
26	43	NonCore Commercial	8	17	27	38	49	61	72	85	98	112	118	123
27	44	NonCore Industrial regular	7	14	21	28	34	41	47	54	62	69	69	70
28	45	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-
29	46	Total Cumulative Load	376	790	1,220	1,654	2,020	2,401	2,780	3,165	3,558	3,959	3,992	3,987
30	47													
31	48													
32	49													
33	50		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>
34	51	Cumulative Savings BCF	bcf	bcf	bcf	bcf	bcf	bcf	bcf	bcf	bcf	bcf	bcf	bcf
35	52	Core Commercial	0.30	0.63	0.97	1.30	1.57	1.85	2.12	2.39	2.66	2.94	2.92	2.88
36	53	Core Industrial	0.06	0.12	0.20	0.28	0.36	0.44	0.53	0.62	0.72	0.82	0.87	0.90
37	54	NonCore Commercial	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
38	55	NonCore Industrial regular	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.09	0.10	0.11	0.12	0.12
39	56	NonCore Industrial refinery	0.01	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.06	0.07	0.07	0.07
40	57	Total Cumulative Load	-	-	-	-	-	-	-	-	-	-	-	-
41	58	Total Cumulative Load	0.38	0.79	1.22	1.65	2.02	2.40	2.78	3.16	3.56	3.96	3.99	3.99

	A	B	AE	AF	AG	AH	AI	AJ	AK
1	LINE NO	SDGE - TABLE 1	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
2		TOTAL PORTFOLIO	2034	2035	2036	2037	2038	2039	2040
4	1	SDGE EE Program TOTAL							
5	2	PUC Goal	4,212,942	4,212,942	4,212,942	4,212,942	4,212,942	4,212,942	4,212,942
6	3	Difference							
7	4								
8	5								
9	6	SDGE							
10	7	Core Residential	69.3%	69.3%	69.3%	69.3%	69.3%	69.3%	69.3%
11	8	Core Commercial	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%	25.1%
12	9	Core Industrial	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
13	10	NonCore Commercial	3.4%	3.4%	3.4%	3.4%	3.4%	3.4%	3.4%
14	11	NonCore Industrial retail	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
15	12	NonCore Industrial refinery	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
16	13	Total	100%	100%	100%	100%	100%	100%	100%
17	14								
18	15	Proportionally scale it down or up							
19	16								
20	17	ANNUAL NET SAVINGS	2034	2035	2036	2037	2038	2039	2040
21	18		Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
22	19	Core Residential	292	292	292	292	292	292	292
23	20	Core Commercial	106	106	106	106	106	106	106
24	21	Core Industrial	2	2	2	2	2	2	2
25	22	NonCore Commercial	14	14	14	14	14	14	14
26	23	NonCore Industrial retail	8	8	8	8	8	8	8
27	24	NonCore Industrial refinery	0	0	0	0	0	0	0
28	25	Total	421	421	421	421	421	421	421
29	26								
30	27								

	A	B	AE	AF	AG	AH	AI	AJ	AK
1		SDGE - TABLE 1	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
2	LINE NO	TOTAL PORTFOLIO	2034	2035	2036	2037	2038	2039	2040
3									
10	27		<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>
11	28	Cumulative Savings Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
12	29	Core Residential	2,909	2,854	2,869	2,878	2,890	2,904	2,914
13	30	Core Commercial	956	981	1,006	1,023	1,038	1,048	1,054
14	31	Core Industrial	16	16	16	17	17	17	17
15	32	NonCore Commercial	130	134	137	139	142	143	144
16	33	NonCore Industrial regular	73	73	75	75	76	76	76
17	34	NonCore Industrial refinery	-	-	-	-	-	-	-
18	35	Total Load Impacts	4,085	4,059	4,103	4,132	4,163	4,188	4,205
19	36								
20	37								
21	38		<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>
22	39	Cumulative Savings MMCF	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf
23	40	Core Residential	2,825	2,771	2,785	2,794	2,806	2,820	2,830
24	41	Core Commercial	928	953	977	993	1,008	1,017	1,023
25	42	Core Industrial	15	16	16	16	16	16	16
26	43	NonCore Commercial	127	130	133	135	137	139	139
27	44	NonCore Industrial regular	70	71	73	73	74	74	74
28	45	NonCore Industrial refinery	-	-	-	-	-	-	-
29	46	Total Cumulative Load	3,966	3,940	3,984	4,012	4,041	4,066	4,082
30	47								
31	48								
32	49								
33	50		<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>
34	51	Cumulative Savings BCF	bcf	bcf	bcf	bcf	bcf	bcf	bcf
35	52	Core Commercial	2.82	2.77	2.79	2.79	2.81	2.82	2.83
36	53	Core Industrial	0.93	0.95	0.98	0.99	1.01	1.02	1.02
37	54	NonCore Commercial	0.02	0.02	0.02	0.02	0.02	0.02	0.02
38	55	NonCore Industrial regular	0.13	0.13	0.13	0.14	0.14	0.14	0.14
39	56	NonCore Industrial refinery	0.07	0.07	0.07	0.07	0.07	0.07	0.07
40	57	Total Cumulative Load	-						
41	58	Total Cumulative Load	3.97	3.94	3.98	4.01	4.04	4.07	4.08
42									

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1		SDGE - TABLE 2	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported
2	LINE NO	INCENTIVE PROGRAMS	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
3			Therms	Therms	Therms	Therms	Therms	Therms	Therms				NET	NET	NET	NET	NET	NET
4	1	SDGE EE Program TOTAL	1,652,856	3,141,304	3,146,590	4,764,177	628,756	1,365,631	1,713,642	843,335	2,171,447	1,779,769	1,783,348	118,925	(324,029)	774,247	1,822,396	1,771,158
5	2	PUC Goal	2,700,000	3,100,000	3,700,000	4,100,000	3,500,000	3,800,000	4,100,000	2,200,000	2,100,000	2,500,000	3,200,000	2,700,000	1,700,000	2,000,000	2,000,000	2,200,000
6	3	Difference	(1,047,144)	41,304	(553,410)	664,177	(2,871,244)	(2,434,369)	(2,386,358)	(1,356,665)	71,447	(720,231)	(1,416,652)	(2,581,075)	(2,024,029)	(1,225,753)	(177,604)	(428,842)
7	4																	
8	5		<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
9	6	SDGE	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms
10	7		505,394	891,146	906,495	1,127,509	(793,637)	161,413	(698,947)	-82,037	191,340	-111,638	951,729	(554,994)	(469,436)	282,062	1,301,933	1,539,333
11	8		1,011,317	1,983,180	1,974,310	3,205,182	1,253,628	1,061,339	2,126,338	801,370	1,521,143	1,423,470	642,530	554,656	103,093	391,097	261,576	204,367
12	9		20,715	40,621	40,439	65,651	25,678	21,739	43,553	2,851	45,276	49,289	18,265	7,853	5,086	8,596	40,179	(74)
13	10		11,543	22,636	22,535	36,584	14,309	12,114	24,270	109,278	207,429	194,110	87,618	75,635	14,058	53,331	35,669	27,868
14	11		103,887	203,722	202,811	329,252	128,779	109,026	218,428	12,075	206,259	224,539	83,206	35,775	23,170	39,161	183,038	(336)
15	12		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	13	Total	1,652,856	3,141,304	3,146,590	4,764,177	628,756	1,365,631	1,713,642	843,335	2,171,447	1,779,769	1,783,348	118,925	(324,029)	774,247	1,822,396	1,771,158
17	14																	
18	15																	
19	16		<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
20	17	ANNUAL NET SAVINGS	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
21	18	Core Residential	51	89	91	113	(79)	16	(70)	(8)	19	(11)	95	(55)	(47)	28	130	154
22	19	Core Commercial	101	198	197	321	125	106	213	80	152	142	64	55	10	39	26	20
23	20	Core Industrial	2	4	4	7	3	2	4	0	5	5	2	1	1	1	4	(0)
24	21	NonCore Commercial	1	2	2	4	1	1	2	11	21	19	9	8	1	5	4	3
25	22	NonCore Industrial retail	10	20	20	33	13	11	22	1	21	22	8	4	2	4	18	(0)
26	23	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	24	Total	165	314	315	476	63	137	171	84	217	178	178	12	(32)	77	182	177
28	25																	

	A	B	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	
1		SDGE - TABLE 2	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	
2	LINE NO	INCENTIVE PROGRAMS	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
3															
4	1	SDGE EE Program TOTAL													
5	2	PUC Goal	2,131,640	2,279,727	2,347,282	2,427,313	2,523,723	2,673,182	2,745,613	2,850,592	2,961,631	3,073,005	3,187,089	3,187,089	
6	3	Difference													
7	4														
8	5														
9	6	SDGE													
10	7		81.7%	78.4%	78.4%	77.5%	76.6%	74.3%	74.3%	73.4%	72.9%	72.6%	72.1%	72.1%	
11	8		12.4%	15.5%	15.8%	16.8%	17.9%	19.8%	19.9%	20.6%	21.0%	21.4%	22.0%	22.0%	
12	9		0.8%	0.7%	0.7%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.5%	0.5%	0.5%	
13	10		1.7%	2.1%	2.2%	2.3%	2.4%	2.7%	2.7%	2.8%	2.9%	2.9%	3.0%	3.0%	
14	11		3.5%	3.2%	3.0%	2.8%	2.5%	2.7%	2.5%	2.6%	2.6%	2.5%	2.4%	2.4%	
15	12		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
16	13	Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
17	14														
18	15														
19	16		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	
20	17	ANNUAL NET SAVINGS	<u>Mdth</u>	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	
21	18	Core Residential	174	179	184	188	193	199	204	209	216	223	230	230	
22	19	Core Commercial	26	35	37	41	45	53	55	59	62	66	70	70	
23	20	Core Industrial	2	2	2	1	1	2	2	2	2	2	2	2	
24	21	NonCore Commercial	4	5	5	6	6	7	7	8	8	9	10	10	
25	22	NonCore Industrial retail	7	7	7	7	6	7	7	7	8	8	8	8	
26	23	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	
27	24	Total	213	228	235	243	252	267	275	285	296	307	319	319	
28	25														
29	26														

	A	B	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1		SDGE - TABLE 2	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
2	LINE NO	INCENTIVE PROGRAMS	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
3														
28	25													
29	26													
30	27		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>
31	28	Cumulative Savings Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
32	29	Core Residential	174	353	537	725	918	1,117	1,321	1,530	1,746	1,969	2,025	2,076
33	30	Core Commercial	26	62	99	140	185	238	292	351	414	479	523	558
34	31	Core Industrial	2	3	5	6	8	9	11	12	14	16	16	16
35	32	NonCore Commercial	4	8	13	19	25	32	40	48	56	65	71	76
36	33	NonCore Industrial regular	7	15	22	28	35	42	49	56	64	72	72	72
37	34	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-
38	35	Total Load Impacts	213	441	676	919	1,171	1,438	1,713	1,998	2,294	2,601	2,707	2,798
39	36													
40	37													
41	38		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>
42	39	Cumulative Savings MMCF	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf
43	40	Core Residential	169	343	521	704	892	1,084	1,282	1,486	1,695	1,912	1,966	2,016
44	41	Core Commercial	26	60	96	136	179	231	284	341	401	465	508	541
45	42	Core Industrial	2	3	5	6	7	9	10	12	14	15	15	15
46	43	NonCore Commercial	3	8	13	18	24	31	39	46	55	63	69	74
47	44	NonCore Industrial regular	7	14	21	28	34	41	47	55	62	70	70	70
48	45	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-
49	46	Total Cumulative Load	207	428	656	892	1,137	1,396	1,663	1,940	2,227	2,526	2,628	2,716
50	47													
51	48													
52	49													
53	50													

A	B	AE	AF	AG	AH	AI	AJ	AK
LINE NO	SDGE - TABLE 2	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
	INCENTIVE PROGRAMS	2034	2035	2036	2037	2038	2039	2040
1	SDGE EE Program TOTAL							
2	PUC Goal	3,187,089	3,187,089	3,187,089	3,187,089	3,187,089	3,187,089	3,187,089
3	Difference							
4								
5								
6	SDGE							
7		72.1%	72.1%	72.1%	72.1%	72.1%	72.1%	72.1%
8		22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%
9		0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
10		3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
11		2.4%	2.4%	2.4%	2.4%	2.4%	2.4%	2.4%
12		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
13	Total	100%	100%	100%	100%	100%	100%	100%
14								
15								
16		<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>
17	ANNUAL NET SAVINGS	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
18	Core Residential	230	230	230	230	230	230	230
19	Core Commercial	70	70	70	70	70	70	70
20	Core Industrial	2	2	2	2	2	2	2
21	NonCore Commercial	10	10	10	10	10	10	10
22	NonCore Industrial retail	8	8	8	8	8	8	8
23	NonCore Industrial refinery	-	-	-	-	-	-	-
24	Total	319	319	319	319	319	319	319
25								

	A	B	AE	AF	AG	AH	AI	AJ	AK
1		SDGE - TABLE 2	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
2	LINE NO	INCENTIVE PROGRAMS	2034	2035	2036	2037	2038	2039	2040
3									
28	25								
29	26								
30	27		<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>
31	28	Cumulative Savings Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
32	29	Core Residential	2,122	2,164	2,200	2,231	2,257	2,278	2,292
33	30	Core Commercial	590	620	645	662	677	688	696
34	31	Core Industrial	16	16	16	17	17	17	17
35	32	NonCore Commercial	81	85	88	90	92	94	95
36	33	NonCore Industrial regular	73	74	75	76	76	77	76
37	34	NonCore Industrial refinery	-	-	-	-	-	-	-
38	35	Total Load Impacts	2,882	2,958	3,024	3,075	3,119	3,153	3,176
39	36								
40	37								
41	38		<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>
42	39	Cumulative Savings MMCF	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf
43	40	Core Residential	2,060	2,101	2,136	2,166	2,191	2,211	2,225
44	41	Core Commercial	573	602	626	642	657	668	676
45	42	Core Industrial	16	16	16	16	16	16	16
46	43	NonCore Commercial	78	82	85	88	90	91	92
47	44	NonCore Industrial regular	71	72	73	73	74	74	74
48	45	NonCore Industrial refinery	-	-	-	-	-	-	-
49	46	Total Cumulative Load	2,798	2,871	2,936	2,986	3,029	3,061	3,083
50	47								
51	48								
52	49								
53	50								
54									

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1		SDGE - TABLE 3	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported
2	LINE NO	CODES AND STANDARDS	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
3			Therms	Therms	Therms	Therms	Therms	Therms	Therms	Therms	Therms	Therms	NET	NET	NET	NET	NET	NET
4	1	SDGE EE Program TOTAL	1,652,856	3,141,304	3,146,590	4,764,177	628,756	1,365,631	1,713,642	843,335	2,171,447	1,779,769	569,759	1,516,631	1,699,468	1,698,399	3,067,799	2,253,072
5	2	PUC Goal	2,700,000	3,100,000	3,700,000	4,100,000	3,500,000	3,800,000	4,100,000	2,200,000	2,100,000	2,500,000	3,200,000	600,000	1,600,000	1,600,000	1,500,000	1,500,000
6	3	Difference	(1,047,144)	41,304	(553,410)	664,177	(2,871,244)	(2,434,369)	(2,386,358)	(1,356,665)	71,447	(720,231)	(2,630,241)	916,631	99,468	98,399	1,567,799	753,072
7	4																	
8	5		<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
9	6	SDGE	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms
10	7	Core Residential	505,394	891,146	906,495	1,127,509	(793,637)	161,413	(698,947)	-82,037	194,340	-111,630	275,119	1,023,756	1,316,157	1,419,752	2,362,395	1,986,000
11	8	Core Commercial	1,011,317	1,983,180	1,974,310	3,205,182	1,233,628	1,061,339	2,126,338	801,370	1,521,143	1,423,470	259,283	433,730	337,314	245,209	620,755	235,024
12	9	Core Industrial	20,715	40,621	40,439	65,651	25,078	21,799	43,553	2,651	45,276	49,289	-	-	0	0	-	-
13	10	NonCore Commercial	11,543	22,836	22,335	36,584	14,309	12,114	24,270	109,278	207,429	194,110	35,357	59,145	45,997	33,438	84,648	32,049
14	11	NonCore Industrial retail	103,987	203,722	202,811	329,252	128,779	109,026	210,428	12,075	206,259	224,539	-	-	0	0	-	-
15	12	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	13	Total	1,652,856	3,141,304	3,146,590	4,764,177	628,756	1,365,631	1,713,642	843,335	2,171,447	1,779,769	569,759	1,516,631	1,699,468	1,698,399	3,067,799	2,253,072
17	14																	
18	15																	
19	16		<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
20	17	ANNUAL NET SAVINGS	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
21	18	Core Residential	51	89	91	113	(79)	16	(70)	(8)	19	(11)	28	102	132	142	236	199
22	19	Core Commercial	101	198	197	321	125	106	213	80	152	142	26	43	34	25	62	24
23	20	Core Industrial	2	4	4	7	3	2	4	0	5	5	-	-	-	-	-	-
24	21	NonCore Commercial	1	2	2	4	1	1	2	11	21	19	4	6	5	3	8	3
25	22	NonCore Industrial retail	10	20	20	33	13	11	22	1	21	22	-	-	-	-	-	-
26	23	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	24	Total	165	314	315	476	63	137	171	84	217	178	57	152	170	170	307	225
28	25																	
29	26																	

	A	B	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1		SDGE - TABLE 3	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
2	LINE NO	CODES AND STANDARDS	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
3														
4	1	SDGE EE Program TOTAL												
5	2	PUC Goal	1,742,147	1,984,937	2,081,421	2,044,389	1,242,919	1,251,172	1,161,756	1,107,413	1,085,877	1,058,170	1,025,853	1,025,853
6	3	Difference												
7	4													
8	5													
9	6	SDGE												
10	7	Core Residential	78.6%	80.4%	77.6%	77.9%	67.3%	67.0%	65.5%	61.6%	60.8%	60.5%	60.5%	60.5%
11	8	Core Commercial	18.8%	17.2%	19.7%	19.4%	28.8%	29.0%	30.4%	33.8%	34.5%	34.8%	34.8%	34.8%
12	9	Core Industrial	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
13	10	NonCore Commercial	2.6%	2.3%	2.7%	2.7%	3.9%	4.0%	4.1%	4.6%	4.7%	4.7%	4.7%	4.7%
14	11	NonCore Industrial retail	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
15	12	NonCore Industrial refinery	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
16	13	Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
17	14													
18	15													
19	16		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>
20	17	ANNUAL NET SAVINGS	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth
21	18	Core Residential	137	160	162	159	84	84	76	68	66	64	62	62
22	19	Core Commercial	33	34	41	40	36	36	35	37	37	37	36	36
23	20	Core Industrial	0	0	0	0	0	0	0	0	0	0	0	0
24	21	NonCore Commercial	4	5	6	5	5	5	5	5	5	5	5	5
25	22	NonCore Industrial retail	0	0	0	0	0	0	0	0	0	0	0	0
26	23	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-
27	24	Total	174	198	208	204	124	125	116	111	109	106	103	103
28	25													
29	26													

	A	B	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
1		SDGE - TABLE 3	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
2	LINE NO	CODES AND STANDARDS	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
3															
28	25														
29	26														
30	27		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	
31	28	Cumulative Savings Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	
32	29	Core Residential	137	297	458	618	701	785	861	929	995	1,059	984	887	
33	30	Core Commercial	33	67	108	148	183	220	255	292	330	367	370	371	
34	31	Core Industrial	-	-	-	-	-	-	-	-	-	-	-	-	
35	32	NonCore Commercial	4	9	15	20	25	30	35	40	45	50	50	51	
36	33	NonCore Industrial regular	-	-	-	-	-	-	-	-	-	-	-	-	
37	34	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	
38	35	Total Load Impacts	174	373	581	785	910	1,035	1,151	1,262	1,370	1,476	1,404	1,308	
39	36			-	-	-	-	(0)	-	-	-	0	(0)	-	
40	37														
41	38		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	
42	39	Cumulative Savings MMCF	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	
43	40	Core Residential	133	288	445	600	681	762	836	902	966	1,028	956	861	
44	41	Core Commercial	32	65	105	143	178	213	248	284	320	356	359	360	
45	42	Core Industrial	-	-	-	-	-	-	-	-	-	-	-	-	
46	43	NonCore Commercial	4	9	14	20	24	29	34	39	44	49	49	49	
47	44	NonCore Industrial regular	-	-	-	-	-	-	-	-	-	-	-	-	
48	45	NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	
49	46	Total Cumulative Load	169	362	564	762	883	1,005	1,117	1,225	1,330	1,433	1,363	1,270	
50	47														
51	48		3	4	5	6	7	8	9	10	11	12	13	14	
52	49														
53	50														

	A	B	AE	AF	AG	AH	AI	AJ	AK	AL
1		SDGE - TABLE 3	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	
2	LINE NO	CODES AND STANDARDS	2034	2035	2036	2037	2038	2039	2040	
3										
4	1	SDGE EE Program TOTAL								
5	2	PUC Goal	1,025,853	1,025,853	1,025,853	1,025,853	1,025,853	1,025,853	1,025,853	
6	3	Difference								
7	4									
8	5									
9	6	SDGE								
10	7	Core Residential	60.5%	60.5%	60.5%	60.5%	60.5%	60.5%	60.5%	
11	8	Core Commercial	34.8%	34.8%	34.8%	34.8%	34.8%	34.8%	34.8%	
12	9	Core Industrial	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
13	10	NonCore Commercial	4.7%	4.7%	4.7%	4.7%	4.7%	4.7%	4.7%	
14	11	NonCore Industrial retail	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
15	12	NonCore Industrial refinery	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
16	13	Total	100%	100%	100%	100%	100%	100%	100%	
17	14									
18	15									
19	16									
20	17	ANNUAL NET SAVINGS	<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>	
			Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	
21	18	Core Residential	62	62	62	62	62	62	62	62
22	19	Core Commercial	36	36	36	36	36	36	36	36
23	20	Core Industrial	0	0	0	0	0	0	0	0
24	21	NonCore Commercial	5	5	5	5	5	5	5	5
25	22	NonCore Industrial retail	0	0	0	0	0	0	0	0
26	23	NonCore Industrial refinery	-	-	-	-	-	-	-	-
27	24	Total	103	103	103	103	103	103	103	
28	25									
29	26									

	A	B	AE	AF	AG	AH	AI	AJ	AK	AI
1		SDGE - TABLE 3	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	
2	LINE NO	CODES AND STANDARDS	2034	2035	2036	2037	2038	2039	2040	
3										
25	22	NonCore Industrial retail	0	0	0	0	0	0	0	
26	23	NonCore Industrial refinery	-	-	-	-	-	-	-	
27	24	Total	103	103	103	103	103	103	103	
28	25									
29	26									
30	27		<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>	
31	28	Cumulative Savings Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	
32	29	Core Residential	787	690	669	647	633	627	623	
33	30	Core Commercial	366	362	362	361	361	359	358	
34	31	Core Industrial	-	-	-	-	-	-	-	
35	32	NonCore Commercial	50	49	49	49	49	49	49	
36	33	NonCore Industrial regular	-	-	-	-	-	-	-	
37	34	NonCore Industrial refinery	-	-	-	-	-	-	-	
38	35	Total Load Impacts	1,203	1,101	1,079	1,057	1,043	1,035	1,029	
39	36		-	-	-	-	-	(0)	0	
40	37									
41	38		<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>	
42	39	Cumulative Savings Mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	
43	40	Core Residential	764	670	649	628	614	608	605	
44	41	Core Commercial	355	351	351	350	351	349	347	
45	42	Core Industrial	-	-	-	-	-	-	-	
46	43	NonCore Commercial	48	48	48	48	48	48	47	
47	44	NonCore Industrial regular	-	-	-	-	-	-	-	
48	45	NonCore Industrial refinery	-	-	-	-	-	-	-	
49	46	Total Cumulative Load	1,168	1,069	1,048	1,026	1,013	1,005	999	

2022 CALIFORNIA GAS REPORT

Electric Generation



Please refer to SoCalGas' 2022 California Gas Report workpapers for detail on the documentation regarding non-cogen EG forecasting.

2022 CALIFORNIA GAS REPORT

CORE PEAKDAY FORECAST



SDG&E Monthly Heating Degree Day (HDD) Weather Designs					
Month	Cold		Average	Hot	
	1-in-35 Design	1-in-10 Design		1-in-10 Design	1-in-35 Design
Jan-2021	280.9	266.2	237.8	209.5	194.7
Feb-2021	246.1	233.2	208.4	183.5	170.6
Mar-2021	196.9	186.6	166.7	146.8	136.5
Apr-2021	122.8	116.4	104.0	91.6	85.1
May-2021	57.4	54.3	48.6	42.8	39.8
Jun-2021	10.6	10.0	9.0	7.9	7.3
Jul-2021	0.6	0.6	0.6	0.5	0.5
Aug-2021	0.1	0.1	0.1	0.0	0.0
Sep-2021	0.9	0.9	0.8	0.7	0.7
Oct-2021	26.5	25.1	22.5	19.8	18.4
Nov-2021	122.5	116.1	103.7	91.4	84.9
Dec-2021	302.5	286.6	256.1	225.6	209.6
Jan-2022	279.7	264.9	236.6	208.2	193.5
Feb-2022	245.1	232.1	207.3	182.4	169.5
Mar-2022	196.1	185.7	165.8	146.0	135.6
Apr-2022	122.3	115.8	103.4	91.0	84.6
May-2022	57.1	54.1	48.3	42.5	39.5
Jun-2022	10.5	10.0	8.9	7.8	7.3
Jul-2022	0.6	0.6	0.5	0.5	0.4
Aug-2022	0.1	0.1	0.0	0.0	0.0
Sep-2022	0.9	0.9	0.8	0.7	0.7
Oct-2022	26.4	25.0	22.3	19.7	18.3
Nov-2022	122.0	115.6	103.2	90.8	84.4
Dec-2022	301.2	285.3	254.7	224.2	208.3
Jan-2023	278.5	263.7	235.3	207.0	192.2
Feb-2023	244.0	231.0	206.2	181.4	168.4
Mar-2023	195.2	184.8	165.0	145.1	134.7
Apr-2023	121.8	115.3	102.9	90.5	84.0
May-2023	56.9	53.8	48.1	42.3	39.3
Jun-2023	10.5	9.9	8.9	7.8	7.2
Jul-2023	0.6	0.6	0.5	0.5	0.4
Aug-2023	0.1	0.1	0.0	0.0	0.0
Sep-2023	0.9	0.9	0.8	0.7	0.6
Oct-2023	26.3	24.9	22.2	19.5	18.2
Nov-2023	121.5	115.0	102.7	90.3	83.8
Dec-2023	299.8	283.9	253.4	222.9	207.0
Jan-2024	277.2	262.5	234.1	205.8	191.0
Feb-2024	242.9	229.9	205.1	180.3	167.3
Mar-2024	194.3	184.0	164.1	144.2	133.9
Apr-2024	121.2	114.8	102.4	90.0	83.5
May-2024	56.6	53.6	47.8	42.0	39.0
Jun-2024	10.4	9.9	8.8	7.7	7.2
Jul-2024	0.6	0.6	0.5	0.5	0.4
Aug-2024	0.1	0.1	0.0	0.0	0.0
Sep-2024	0.9	0.9	0.8	0.7	0.6
Oct-2024	26.2	24.8	22.1	19.4	18.0
Nov-2024	120.9	114.5	102.1	89.8	83.3
Dec-2024	298.5	282.6	252.1	221.6	205.6
Jan-2025	276.0	261.2	232.9	204.5	189.8
Feb-2025	241.8	228.9	204.0	179.2	166.3
Mar-2025	193.5	183.1	163.2	143.4	133.0
Apr-2025	120.7	114.2	101.8	89.4	83.0
May-2025	56.4	53.3	47.6	41.8	38.7
Jun-2025	10.4	9.8	8.8	7.7	7.1
Jul-2025	0.6	0.6	0.5	0.5	0.4
Aug-2025	0.1	0.1	0.0	0.0	0.0
Sep-2025	0.9	0.9	0.8	0.7	0.6

SDG&E Monthly Heating Degree Day (HDD) Weather Designs					
Month	Cold		Average	Hot	
	1-in-35 Design	1-in-10 Design		1-in-10 Design	1-in-35 Design
Oct-2025	26.1	24.7	22.0	19.3	17.9
Nov-2025	120.4	113.9	101.6	89.2	82.8
Dec-2025	297.2	281.3	250.8	220.2	204.3
Jan-2026	274.8	260.0	231.7	203.3	188.5
Feb-2026	240.7	227.8	203.0	178.1	165.2
Mar-2026	192.6	182.2	162.4	142.5	132.1
Apr-2026	120.1	113.7	101.3	88.9	82.4
May-2026	56.1	53.1	47.3	41.5	38.5
Jun-2026	10.3	9.8	8.7	7.7	7.1
Jul-2026	0.6	0.6	0.5	0.5	0.4
Aug-2026	0.1	0.1	0.0	0.0	0.0
Sep-2026	0.9	0.9	0.8	0.7	0.6
Oct-2026	25.9	24.6	21.9	19.2	17.8
Nov-2026	119.9	113.4	101.0	88.7	82.2
Dec-2026	295.9	279.9	249.4	218.9	203.0
Jan-2027	273.5	258.8	230.4	202.1	187.3
Feb-2027	239.7	226.7	201.9	177.0	164.1
Mar-2027	191.7	181.4	161.5	141.6	131.3
Apr-2027	119.6	113.1	100.7	88.4	81.9
May-2027	55.9	52.8	47.1	41.3	38.2
Jun-2027	10.3	9.7	8.7	7.6	7.1
Jul-2027	0.6	0.6	0.5	0.5	0.4
Aug-2027	0.1	0.1	0.0	0.0	0.0
Sep-2027	0.9	0.9	0.8	0.7	0.6
Oct-2027	25.8	24.4	21.8	19.1	17.7
Nov-2027	119.3	112.9	100.5	88.1	81.7
Dec-2027	294.5	278.6	248.1	217.6	201.7
Jan-2028	272.3	257.5	229.2	200.8	186.1
Feb-2028	238.6	225.6	200.8	176.0	163.0
Mar-2028	190.9	180.5	160.6	140.8	130.4
Apr-2028	119.1	112.6	100.2	87.8	81.3
May-2028	55.6	52.6	46.8	41.0	38.0
Jun-2028	10.3	9.7	8.6	7.6	7.0
Jul-2028	0.6	0.6	0.5	0.5	0.4
Aug-2028	0.1	0.1	0.0	0.0	0.0
Sep-2028	0.9	0.9	0.8	0.7	0.6
Oct-2028	25.7	24.3	21.6	19.0	17.6
Nov-2028	118.8	112.3	100.0	87.6	81.2
Dec-2028	293.2	277.3	246.8	216.3	200.3
Jan-2029	271.1	256.3	228.0	199.6	184.8
Feb-2029	237.5	224.5	199.7	174.9	161.9
Mar-2029	190.0	179.6	159.8	139.9	129.6
Apr-2029	118.5	112.1	99.7	87.3	80.8
May-2029	55.4	52.3	46.5	40.8	37.7
Jun-2029	10.2	9.6	8.6	7.5	7.0
Jul-2029	0.6	0.6	0.5	0.5	0.4
Aug-2029	0.1	0.1	0.0	0.0	0.0
Sep-2029	0.9	0.9	0.8	0.7	0.6
Oct-2029	25.6	24.2	21.5	18.8	17.5
Nov-2029	118.2	111.8	99.4	87.1	80.6
Dec-2029	291.9	276.0	245.5	214.9	199.0
Jan-2030	269.8	255.1	226.7	198.4	183.6
Feb-2030	236.4	223.5	198.6	173.8	160.9
Mar-2030	189.1	178.8	158.9	139.1	128.7
Apr-2030	118.0	111.5	99.1	86.7	80.3
May-2030	55.1	52.1	46.3	40.5	37.5
Jun-2030	10.2	9.6	8.5	7.5	6.9

SDG&E Monthly Heating Degree Day (HDD) Weather Designs					
Month	Cold		Average	Hot	
	1-in-35 Design	1-in-10 Design		1-in-10 Design	1-in-35 Design
Jul-2030	0.6	0.6	0.5	0.5	0.4
Aug-2030	0.1	0.1	0.0	0.0	0.0
Sep-2030	0.9	0.9	0.8	0.7	0.6
Oct-2030	25.5	24.1	21.4	18.7	17.3
Nov-2030	117.7	111.3	98.9	86.5	80.1
Dec-2030	290.6	274.6	244.1	213.6	197.7
Jan-2031	268.6	253.8	225.5	197.1	182.4
Feb-2031	235.3	222.4	197.6	172.7	159.8
Mar-2031	188.3	177.9	158.1	138.2	127.8
Apr-2031	117.4	111.0	98.6	86.2	79.7
May-2031	54.9	51.8	46.0	40.3	37.2
Jun-2031	10.1	9.6	8.5	7.4	6.9
Jul-2031	0.6	0.6	0.5	0.5	0.4
Aug-2031	0.1	0.1	0.0	0.0	0.0
Sep-2031	0.9	0.9	0.8	0.7	0.6
Oct-2031	25.4	24.0	21.3	18.6	17.2
Nov-2031	117.2	110.7	98.4	86.0	79.5
Dec-2031	289.2	273.3	242.8	212.3	196.4
Jan-2032	267.4	252.6	224.3	195.9	181.1
Feb-2032	234.3	221.3	196.5	171.6	158.7
Mar-2032	187.4	177.1	157.2	137.3	127.0
Apr-2032	116.9	110.4	98.1	85.7	79.2
May-2032	54.6	51.6	45.8	40.0	37.0
Jun-2032	10.1	9.5	8.4	7.4	6.8
Jul-2032	0.6	0.6	0.5	0.5	0.4
Aug-2032	0.1	0.1	0.0	0.0	0.0
Sep-2032	0.9	0.8	0.8	0.7	0.6
Oct-2032	25.2	23.9	21.2	18.5	17.1
Nov-2032	116.6	110.2	97.8	85.5	79.0
Dec-2032	287.9	272.0	241.5	211.0	195.0
Jan-2033	266.2	251.4	223.0	194.7	179.9
Feb-2033	233.2	220.2	195.4	170.6	157.6
Mar-2033	186.6	176.2	156.3	136.5	126.1
Apr-2033	116.4	109.9	97.5	85.1	78.7
May-2033	54.3	51.3	45.5	39.8	36.7
Jun-2033	10.0	9.5	8.4	7.3	6.8
Jul-2033	0.6	0.6	0.5	0.5	0.4
Aug-2033	0.1	0.1	0.0	0.0	0.0
Sep-2033	0.9	0.8	0.8	0.7	0.6
Oct-2033	25.1	23.7	21.1	18.4	17.0
Nov-2033	116.1	109.6	97.3	84.9	78.5
Dec-2033	286.6	270.7	240.1	209.6	193.7
Jan-2034	264.9	250.1	221.8	193.5	178.7
Feb-2034	232.1	219.1	194.3	169.5	156.5
Mar-2034	185.7	175.3	155.5	135.6	125.2
Apr-2034	115.8	109.4	97.0	84.6	78.1
May-2034	54.1	51.1	45.3	39.5	36.5
Jun-2034	10.0	9.4	8.3	7.3	6.7
Jul-2034	0.6	0.6	0.5	0.4	0.4
Aug-2034	0.1	0.1	0.0	0.0	0.0
Sep-2034	0.9	0.8	0.7	0.7	0.6
Oct-2034	25.0	23.6	20.9	18.3	16.9
Nov-2034	115.6	109.1	96.7	84.4	77.9
Dec-2034	285.3	269.3	238.8	208.3	192.4
Jan-2035	263.7	248.9	220.6	192.2	177.4
Feb-2035	231.0	218.1	193.2	168.4	155.5
Mar-2035	184.8	174.5	154.6	134.7	124.4

SDG&E Monthly Heating Degree Day (HDD) Weather Designs					
Month	Cold		Average	Hot	
	1-in-35 Design	1-in-10 Design		1-in-10 Design	1-in-35 Design
Apr-2035	115.3	108.8	96.4	84.0	77.6
May-2035	53.8	50.8	45.0	39.3	36.2
Jun-2035	9.9	9.4	8.3	7.2	6.7
Jul-2035	0.6	0.6	0.5	0.4	0.4
Aug-2035	0.1	0.1	0.0	0.0	0.0
Sep-2035	0.9	0.8	0.7	0.6	0.6
Oct-2035	24.9	23.5	20.8	18.2	16.8
Nov-2035	115.0	108.6	96.2	83.8	77.4
Dec-2035	283.9	268.0	237.5	207.0	191.1

SDG&E Annual Heating Degree Day (HDD) Weather Designs (Calendar Based)					
Year	Cold		Average	Hot	
	1-in-35 Design	1-in-10 Design		1-in-10 Design	1-in-35 Design
2021	1368.0	1296.0	1158.0	1020.0	948.0
2022	1362.0	1290.0	1152.0	1014.0	942.0
2023	1356.0	1284.0	1146.0	1008.0	936.0
2024	1350.0	1278.0	1140.0	1002.0	930.0
2025	1344.0	1272.0	1134.0	996.0	924.0
2026	1338.0	1266.0	1128.0	990.0	918.0
2027	1332.0	1260.0	1122.0	984.0	912.0
2028	1326.0	1254.0	1116.0	978.0	906.0
2029	1320.0	1248.0	1110.0	972.0	900.0
2030	1314.0	1242.0	1104.0	966.0	894.0
2031	1308.0	1236.0	1098.0	960.0	888.0
2032	1302.0	1230.0	1092.0	954.0	882.0
2033	1296.0	1224.0	1086.0	948.0	876.0
2034	1290.0	1218.0	1080.0	942.0	870.0
2035	1284.0	1212.0	1074.0	936.0	864.0

**2022-CGR Sales + Transport + Exchange for Month of DECEMBER (units=Mdth/Day)
 "1-in-2" Likelihood Cold Day Temperature**

No. "CGR_B"	CLASS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2035
		----	----	----	----	----	----	----	----	----	----	----
1	RESIDEN	250.2	248.7	247.4	245.9	244.3	243.0	241.7	240.3	238.5	236.4	231.8
2	Com GN3	79.9	81.9	82.6	82.7	82.7	82.6	82.4	82.2	82.1	81.6	79.6
2	GAC <u>2/</u>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	GEN <u>2/</u>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Ind GN3	6.8	6.7	6.6	6.5	6.4	6.3	6.3	6.2	6.1	6.0	5.5
4	NGV <u>2/</u>	6.4	6.5	6.5	6.5	6.4	6.4	6.4	6.4	6.4	6.7	6.5
		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	Total: MDth/day	343.3	343.8	343.2	341.7	339.8	338.3	336.7	335.1	333.0	330.7	323.4
	MMcf/day <u>4/</u>	332.6	333.1	332.4	331.0	329.2	327.8	326.2	324.6	322.6	320.4	313.4
	Days per Mo	31	31	31	31	31	31	31	31	31	31	31
	Pk-Day Temp. (deg-F) =	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
	Hdd: December--AvgYr =	256.1	254.7	253.4	252.1	250.8	249.4	248.1	246.8	245.5	244.1	237.5
	Hdd: December--ColdYr =	302.5	301.2	299.8	298.5	297.2	295.9	294.5	293.2	291.9	290.6	283.9
	"Wkday/Wkend" Factor-Res:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	"Wkday/Wkend" Factor-NonRes:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Use this Methodology for the 2022-CGR Res and Core C&I Calculations

Notes:

1/ = ("Avg-Dec" / 31 days) + [{"Cold-Dec" - "Avg-Dec"} / {"Cold-Dec-Hdd" - "Avg-Dec-Hdd"}]
 * [(65 degF - 47.8 degF) - (Avg-Dec-Hdd / 31 days)]

2/ "Non-temperature" sensitive market segment.

3/ "Weekday/Weekend" Factor applies to the "raw" estimate.

4/ Dth/Mcf= 1.0322

**2022-CGR Sales + Transport + Exchange for Month of DECEMBER (units=Mdth/Day)
 "1-in-10" Likelihood Cold Day Temperature**

No. "CGR_B"	CLASS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2035
		----	----	----	----	----	----	----	----	----	----	----
1	RESIDEN	290.5	288.9	287.6	286.1	284.5	283.2	281.8	280.4	278.5	276.5	271.6
2	Com GN3	87.6	89.6	90.3	90.4	90.4	90.3	90.1	90.0	89.8	89.3	87.3
2	GAC <u>2/</u>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	GEN <u>2/</u>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Ind GN3	7.5	7.4	7.3	7.2	7.1	7.0	6.9	6.8	6.7	6.6	6.1
4	NGV <u>2/</u>	6.4	6.5	6.5	6.5	6.4	6.4	6.4	6.4	6.4	6.7	6.5
		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	Total: MDth/day	392.0	392.5	391.8	390.2	388.4	386.8	385.2	383.5	381.4	379.0	371.6
	MMcf/day <u>4/</u>	379.8	380.2	379.6	378.1	376.2	374.8	373.2	371.5	369.5	367.2	360.0
	Days per Mo	31	31	31	31	31	31	31	31	31	31	31
	Pk-Day Temp. (deg-F) =	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
	Hdd: December--AvgYr =	256.1	254.7	253.4	252.1	250.8	249.4	248.1	246.8	245.5	244.1	237.5
	Hdd: December--ColdYr =	302.5	301.2	299.8	298.5	297.2	295.9	294.5	293.2	291.9	290.6	283.9
	"Wkday/Wkend" Factor-Res:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	"Wkday/Wkend" Factor-NonRes:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Use this Methodology for the 2022-CGR Res and Core C&I Calculations

Notes:

- 1/ =("Avg-Dec" / 31 days) + [{"Cold-Dec" - "Avg-Dec"} / ("Cold-Dec-Hdd" - "Avg-Dec-Hdd")]
 * [(65 degF - 44.8 degF) - (Avg-Dec-Hdd / 31 days)]
- 2/ "Non-temperature" sensitive market segment.
- 3/ "Weekday/Weekend" Factor applies to the "raw" estimate.
- 4/ Dth/Mcf= 1.0322

**2022-CGR Sales + Transport + Exchange for Month of DECEMBER (units=Mdth/Day)
 "1-in-35" Likelihood Cold Day Temperature**

No. "CGR_B"	CLASS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2035
		----	----	----	----	----	----	----	----	----	----	----
1	RESIDEN	310.6	309.1	307.7	306.2	304.6	303.2	301.9	300.4	298.5	296.5	291.6
2	Com GN3	91.5	93.5	94.2	94.3	94.3	94.2	94.0	93.8	93.7	93.2	91.2
2	GAC <u>2/</u>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	GEN <u>2/</u>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Ind GN3	7.9	7.8	7.6	7.5	7.4	7.3	7.2	7.1	7.0	6.9	6.3
4	NGV <u>2/</u>	6.4	6.5	6.5	6.5	6.4	6.4	6.4	6.4	6.4	6.7	6.5
		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	Total: MDth/day	416.4	416.8	416.1	414.5	412.6	411.1	409.4	407.7	405.6	403.2	395.7
	MMcf/day <u>4/</u>	403.4	403.8	403.1	401.6	399.8	398.3	396.7	395.0	392.9	390.6	383.3
	Days per Mo	31	31	31	31	31	31	31	31	31	31	31
	Pk-Day Temp. (deg-F) =	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
	Hdd: December--AvgYr =	256.1	254.7	253.4	252.1	250.8	249.4	248.1	246.8	245.5	244.1	237.5
	Hdd: December--ColdYr =	302.5	301.2	299.8	298.5	297.2	295.9	294.5	293.2	291.9	290.6	283.9
	"Wkday/Wkend" Factor-Res:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	"Wkday/Wkend" Factor-NonRes:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Use this Methodology for the 2022-CGR Res and Core C&I Calculations

Notes:

1/ = ("Avg-Dec" / 31 days) + [{"Cold-Dec" - "Avg-Dec"} / {"Cold-Dec-Hdd" - "Avg-Dec-Hdd"}]
 * [(65 degF - 43.3 degF) - (Avg-Dec-Hdd / 31 days)]

2/ "Non-temperature" sensitive market segment.

3/ "Weekday/Weekend" Factor applies to the "raw" estimate.

4/ Dth/Mcf= 1.0322

2022-CGR Sales + Transport + Exchange for Month of DECEMBER (units=Mdth/Day)

Temp=December, Average Year

No. "CGR_CLASS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2035
	----	----	----	----	----	----	----	----	----	----	----
1 Residen	4,033.0	3,971.0	3,916.1	3,854.9	3,790.7	3,736.1	3,679.6	3,621.9	3,550.0	3,472.4	3,254.3
2 Com GN3	1,760.6	1,819.6	1,839.2	1,839.1	1,835.2	1,828.1	1,820.0	1,811.7	1,803.3	1,785.9	1,707.7
2 GAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Ind GN3	149.0	146.8	144.3	141.5	139.1	137.0	135.0	132.7	130.4	128.0	117.4
4 NGV	199.5	202.3	202.3	202.3	197.9	197.9	197.9	197.9	197.9	206.5	202.1
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	6,142.1	6,139.7	6,101.9	6,037.8	5,962.9	5,899.2	5,832.5	5,764.2	5,681.5	5,592.8	5,281.4

2022-CGR Sales + Transport + Exchange for Month of DECEMBER (units=Mdth/Day)

Temp=December, Cold Year

No. "CGR_CLASS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2035
	----	----	----	----	----	----	----	----	----	----	----
1 Residen	4,656.8	4,594.3	4,539.0	4,477.3	4,412.6	4,357.6	4,300.6	4,242.4	4,170.0	4,092.0	3,871.5
2 Com GN3	1,880.4	1,939.4	1,959.0	1,958.8	1,954.9	1,947.7	1,939.7	1,931.3	1,922.9	1,905.5	1,827.2
2 GAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 GEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Ind GN3	159.6	157.2	154.5	151.6	149.0	146.8	144.6	142.1	139.7	137.2	125.8
4 NGV	199.5	202.3	202.3	202.3	197.9	197.9	197.9	197.9	197.9	206.5	202.1
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	6,896.3	6,893.2	6,854.7	6,790.0	6,714.5	6,650.0	6,582.8	6,513.8	6,430.5	6,341.1	6,026.6
Mdth/Hdd:	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.1	16.1	16.1	16.0

2022 CALIFORNIA GAS REPORT

SUPPORTING DATA



2022 CALIFORNIA GAS REPORT

**WEATHER: HEATING DEGREE DAYS – AVERAGE AND “COLD” YEAR DESIGNS;
AND WINTER PEAK DAY DESIGN TEMPERATURES**



Weather for SDG&E: Heating Degree Days – Average and Cold Year Designs; and Winter Peak Day Design Temperatures

July 2022

I. Overview

San Diego Gas and Electric Company's service area for natural gas extends from southern Orange County throughout San Diego County to the Mexican border. To quantify the overall temperature experienced within this region, SDG&E aggregates daily temperature recordings from three U.S. Weather Bureau weather stations into one system average heating degree-day ("HDD") figure. The table below lists weather station locations along with its associated temperature zone(s).

Table 1
Representative Weather Stations with Temperature Zones

Station Location	Weight	Temperature Zone
1. Miramar Naval Air Station ¹	1/3	Coastal and Inland
2. San Diego Lindbergh Field (International Airport)	$(2/3) \times (\#Coastal / (\#Coastal + \#Inland))$	Coastal
3. El Cajon	$(2/3) \times (\#Inland / (\#Coastal + \#Inland))$	Inland

SDG&E uses 65° Fahrenheit to calculate the number of HDDs. One heating degree-day is accumulated for each degree that the daily average is *below* 65° Fahrenheit. To arrive at the system average HDDs figure for its entire service area, SDG&E weights the HDD figure for each zone using the weights² shown in Table 1. These weights are used in calculating the data shown from January 2002 to December 2021.

Daily maximum and minimum temperatures, for each individual weather station in the table above, are compiled from National Weather Service data, at

¹ The location of the station for Miramar is at the boundary of the Coastal and Inland zones. Correspondingly, both the Coastal and Inland zones are considered represented in the data for the Miramar station.

² As of December 2021, there were 488,783 gas customers associated with the Coastal temperature zone and 418,743 gas customers associated with the Inland temperature zone. The following URL shows a map of the SDG&E service area and temperature zones: http://www.sdge.com/tm2/pdf/ELEC_MAPS_Maps_-_Elec.pdf; less than 0.04% of SDG&E's gas customers were in the mountain and desert zones.

the website <http://www.wrh.noaa.gov/sqx/obs/rtp/rtpmap.php?wfo=sgx> which provides easy access to temperature data for San Diego and parts of surrounding counties. For each station, the average temperature is computed as the (maximum + minimum)/2 and this value is used to compute the heating degrees (i.e., the *daily* HDD) for each station as well. System average values of HDD are then computed using the weights for each respective station. Annual and monthly HDDs for the entire SDG&E service area from 2002 to 2021 are listed in Table 2, below.

Table 2
Calendar Month Heating Degree-Days (Jan. 2002 through Dec. 2021)

	<u>Month</u>												<u>Total</u>
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>"Cal-Year"</u>
2002	315	225	247	158	90	13	0	0	2	54	81	294	1479
2003	141	201	179	184	95	32	0	0	0	7	157	275	1271
2004	273	269	97	65	14	4	1	0	0	52	200	266	1241
2005	244	197	159	118	33	5	0	0	4	38	95	231	1124
2006	275	204	305	144	33	0	0	0	1	35	88	287	1372
2007	365	225	155	139	64	20	0	0	4	28	112	340	1452
2008	331	278	187	131	89	16	0	0	0	13	59	287	1391
2009	177	247	202	141	30	11	0	0	0	41	124	291	1264
2010	240	212	195	178	88	24	10	1	2	31	181	239	1401
2011	220	278	196	96	75	20	0	0	0	25	172	340	1422
2012	232	239	230	129	37	13	0	0	0	16	102	268	1266
2013	323	270	150	104	23	6	0	0	0	40	104	241	1261
2014	158	140	80	78	20	1	0	0	0	0	44	170	691
2015	161	87	58	44	46	0	0	0	0	0	105	259	760
2016	237	82	95	42	27	0	0	0	0	0	67	196	746
2017	243	156	82	27	42	4	0	0	0	1	38	149	742
2018	113	171	136	57	48	1	0	0	0	1	47	199	773
2019	227	301	173	59	72	4	0	0	2	13	94	241	1186
2020	230	193	176	94	3	0	0	0	0	6	132	242	1076
2021	250	191	231	91	42	5	0	0	1	48	72	305	1236
20-Yr-Avg (Jan2002-Dec2021)													
Avg.	237.8	208.3	166.7	104.0	48.6	9.0	0.6	0.1	0.8	22.5	103.7	256.0	1157.7
St.Dev.	65.8	60.3	62.9	46.3	27.9	9.3	2.2	0.2	1.3	19.0	46.1	50.8	266.9
Min.	113.0	82.0	58.0	27.0	3.0	0.0	0.0	0.0	0.0	0.0	38.0	149.0	691.0
Max.	365.0	301.0	305.0	184.0	95.0	32.0	10.0	1.0	4.0	54.0	200.0	340.0	1479.0

II. Calculations to Define Our Average-Temperature Year

The simple average of the 20-year period (January 2002 through December 2021) was used to represent the Average Year total and the individual monthly values for HDD. In this CGR, the standard deviation has been calculated using an approach that compensates for the annual HDD values for the years 2014-2018 in SDG&E's service territory being dramatically lower than in any preceding year going back to 1972. A regression with a time trend and a dummy variable for the years 2014-2018 has been used to estimate a shift in the level of annual HDD that occurred beginning in 2014. A dummy variable takes the value one for some observations to indicate the presence of an effect or membership in a group and zero for the remaining observations. Estimating the effect of the dummy variable gives an estimate of that effect or the impact of membership in that group. A dummy variable is used here to estimate the average effect on annual HDD of a given year having membership in the group of years 2014-2018. The dataset is SDG&E system-wide annual HDD for the years 2002-2021. The regression equation is:

$$HDD_t = \alpha + \beta * t + \beta_{2014-2018} * D_{2014-2018} + \varepsilon$$

where $D_{2014-2018}$ is a dummy variable for the years 2014-2018 and $\beta_{2014-2018}$ is the corresponding dummy coefficient. This regression equation estimates average HDD over the period 1998-2018 controlling for time trends in HDD and the warm weather regime of years 2002-2021. It's important to note that p-value for the estimate of $\beta_{2014-2018}$ is virtually zero, indicating an extremely low probability that membership in the group of years 2014-2018 had no effect on annual HDDs. Please see Table 3 below for the full regression output.

Table 3

Dummy Regression for Calculation of Heating Degree-Day Standard Deviation

<i>Regression Statistics</i>	
Multiple R	0.92161378
R Square	0.849371959
Adjusted R Squar	0.841003734
Standard Error	106.4348871
Observations	20

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	1149827.267	1149827.267	101.4996619	7.96345E-09
Residual	18	203910.9333	11328.38519		
Total	19	1353738.2			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>
Intercept	1296.133333	27.48136967	47.16407329	0.000000000
Regime Dummy	-553.7333333	54.96273934	-10.07470406	0.000000008

The dummy variable's estimated effect, $\beta_{2014-2018}$, is subtracted from the actual annual HDD data for years 2014-2018 to adjust the data to remove the level shift. The standard deviation has been calculated to be 103.6 using this

adjusted dataset. This adjusted standard deviation has been used to design the two Cold Years based on a “1-in-10” and “1-in-35” chance, c , that the respective annual “Cold Year” hdd_c value would be exceeded. A probability model for the annual HDD is based on a t-Distribution with N-1 degrees of freedom, where N is the number of years of HDD data we use, μ is the average of the last 20 years of HDD, and S_{20} is the average of the standard deviations of the 20 most recent 20 year periods:

$$U = (HDD_y - \mu)/S_{20}, \text{ has a t-Distribution with N-1 degrees of freedom.}$$

III. Calculating the Cold-Temperature Year Weather Designs

Cold Year HDD Weather Designs

For SDG&E, cold-temperature-year HDD weather designs are developed with a 1-in-35 year chance of occurrence. In terms of probabilities this can be expressed as the following for a “1-in-35” cold-year HDD value in equation 1 and a “1-in-10” cold-year HDD value in equation 2, with Annual HDD as the random variable:

$$(1) \quad \text{Prob} \{ \text{Annual HDD} > \text{“1-in-35” Cold-Yr HDD} \} = 1/35 = 0.0286$$

$$(2) \quad \text{Prob} \{ \text{Annual HDD} > \text{“1-in-10” Cold-Yr HDD} \} = 1/10 = 0.1000$$

An area of 0.0286 under one tail of the T-Distribution translates to 2.025 standard deviations *above* an average-year based on a t-statistic with 19 degrees of freedom. Using the standard deviation calculated as described earlier, 103.6 HDD, these equations yield values of about 1,368 HDD for a “1-in-35” cold year and 1,296 as the number of HDDs for a “1-in-10” cold year (an area of 0.1000 under one tail of the T-Distribution translates to 1.328 standard deviations *above* an average-year based on a t-statistic with 19 degrees of freedom). For example, the “1-in-35” cold-year HDD is calculated as follows:

$$(3) \quad \text{Cold-year HDD} = 1,368 \text{ which equals approximately} \\ 1,158 \text{ average-year HDDs} + 2.025 * 103.6$$

Table 4 below shows monthly HDD figures for “1-in-35” cold year, “1-in-10” cold year and, average year temperature designs. The monthly average-temperature-year HDDs are calculated from weighted monthly HDDs from 2002 to 2021, as shown as the bottom of Table 2, above. For example, the average-year December value of 256.0 HDD equals the simple average of the 20 December HDD figures from 2002 to 2021. SDG&E calculates the cold-temperature-year monthly HDD values using the same shape of the average-year HDDs. For example, since 22.1 percent ($256.0 / 1157.7$) of average-temperature-year HDDs occurred in December, the estimated number of HDDs during December for a cold-year is equal to 1,368 HDDs multiplied by 22.1 percent, or 302.5 HDDs.

Table 4

Calendar Month Heating Degree-Day Designs

	<u>Cold</u>		<u>Average</u>	<u>Hot</u>	
	<u>1-in-35 Design</u>	<u>1-in-10 Design</u>		<u>1-in-10 Design</u>	<u>1-in-35 Design</u>
January	280.9	266.2	237.8	209.5	194.7
February	246.1	233.2	208.4	183.5	170.6
March	196.9	186.6	166.7	146.8	136.5
April	122.8	116.4	104.0	91.6	85.1
May	57.4	54.3	48.6	42.8	39.8
June	10.6	10.0	9.0	7.9	7.3
July	0.6	0.6	0.6	0.5	0.5
August	0.1	0.1	0.1	0.0	0.0
September	0.9	0.9	0.8	0.7	0.7
October	26.5	25.1	22.5	19.8	18.4
November	122.5	116.1	103.7	91.4	84.9
December	302.5	286.6	256.1	225.6	209.6
	1368	1296	1158	1020	948

IV. Adjusting Forecasted HDDs for a Climate-Change Trend

SDG&E incorporates a climate-change warming trend that gradually reduces HDDs by 2 HDDs per year over the forecast period. The annual reduction is based on the latest twenty-year trend in 20-year-averaged HDDs. That is, they are based on the observed trend in changes starting with average HDDs for years 1983-2002, then 1984-2003, 1985-2004...and ending with the average HDDs for years 2002-2021.

Table 5 below shows system HDDs, rolling 20-year averaged HDDs, and the annual changes in those rolling 20-year averages. The actual average annual change is -5.9 HDDs for the most recent twenty of the 20-year averages (with ending years from 2002 through 2021). A simple “ordinary least squares” regression-fitted time trend (using Microsoft Excel’s “LINEST” function) was applied to those same annual changes, resulting in a fitted estimation of -6.2 HDDs per year. Given the fitted and actual average annual changes of -6.2 and -5.9 HDDs, respectively, it was decided to decrease average-year and cold-year forecasted HDD’s by an even 6 HDDs per year, starting with the first forecast year of 2022.

Table 5
Average Annual Changes in 20-Year Averaged Heating-Degree Days

Average Annual Changes in 20-Year-Averaged HDDs		
	Regression	
	Fitted trend	Actual
20 years (2002-2021)	-6.2	-5.9

Year	SDG&E System HDDs	20-year averaged HDDs	Annual change in 20-year averaged HDDs
1982	1332		
1983	1106		
1984	1115		
1985	1395		
1986	1028		
1987	1400		
1988	1269		
1989	1259		
1990	1316		
1991	1317		
1992	994		
1993	1108		
1994	1464		
1995	1073		
1996	1151		
1997	1152		
1998	1571		
1999	1610		
2000	1326		
2001	1543	1276.5	
2002	1479	1283.8	7.3
2003	1271	1292.1	8.3
2004	1241	1298.4	6.3
2005	1124	1284.8	-13.6
2006	1372	1302.0	17.2
2007	1452	1304.6	2.6
2008	1391	1310.7	6.1
2009	1264	1311.0	0.3
2010	1401	1315.2	4.3
2011	1422	1320.5	5.3
2012	1266	1334.1	13.6
2013	1261	1341.7	7.7
2014	691	1303.1	-38.7
2015	760	1287.4	-15.6
2016	746	1267.2	-20.3
2017	742	1246.7	-20.5
2018	773	1206.8	-39.9
2019	1186	1185.6	-21.2
2020	1076	1173.1	-12.5
2021	1236	1157.7	-15.3

V. Calculating the Peak-Day Design Temperature

SDG&E's Peak-Day design temperature of 43.3 degrees Fahrenheit, denoted "Deg-F," is determined from a statistical analysis of observed annual minimum daily system average temperatures constructed from daily temperature recordings from the three U.S. Weather Bureau weather stations discussed above. Since we have a time series of daily data by year, the following notation will be used for the remainder of this discussion:

$$(1) \quad \text{AVG}_{y,d} = \text{system average value of Temperature} \\ \text{for calendar year "y" and day "d".}$$

The calendar year, y , can range from 1972 through 2021, while the day, d , can range from 1 to 365, for non leap years, or from 1 to 366 for leap years. The "upper" value for the day, d , thus depends on the calendar year, y , and will be denoted by $n(y)=365$, or 366, respectively, when y is a non-leap year or a leap year.

For each calendar year, we calculate the following statistic from our series of daily system average temperatures defined in equation (1) above:

$$(2) \quad \text{MinAVG}_y = \min_{d=1}^{n(y)} \{ \text{AVG}_{y,d} \}, \text{ for } y=1972, 1973, \dots, 2021.$$

(The notation used in equation 2 means "For a particular year, y , list all the daily values of system average temperature for that year, then pick the smallest one.")

The resulting minimum annual temperatures are shown in Table 6, below. Most of the minimum temperatures occur in the months of December, January, or February; for a few calendar years the minimums occurred in March or November.

The statistical methods we use to analyze this data employ software developed to fit three generic probability models: the Generalized Extreme Value (GEV) model, the Double-Exponential or GUMBEL (EV1) model and a 2-Parameter Students' T-Distribution (T-Dist) model. [The GEV and EV1 models have the same mathematical specification as those implemented in a DOS-based executable-only computer code that was developed by Richard L. Lehman and described in a paper published in the Proceedings of the Eighth Conference on Applied Climatology, January 17-22, 1993, Anaheim, California, pp. 270-273, by the American Meteorological Society, Boston, MA., with the title "Two Software Products for Extreme Value Analysis: System Overviews of ANYEX and DDEX." At the time he wrote the paper, Dr. Lehman was with the Climate Analysis Center, National Weather Service/NOAA in Washington, D.C., zip code 20233.] The Statistical Analysis Software (SAS) procedure for nonlinear statistical model estimation (PROC MODEL, from SAS V6.12) was used to do the calculations. Further, the calculation procedures were implemented to fit the probability models to observed *maximums* of data, like heating degrees. By recognizing that:

$$n(y) \qquad n(y)$$

$$- \text{MinAVG}_y = - \min_{d=1} \{ \text{AVG}_{y,d} \} = \max_{d=1} \{ -\text{AVG}_{y,d} \}, \text{ for } y=1972, \dots, 2021;$$

this same software, when applied to the *negative* of the minimum temperature data, yields appropriate probability model estimation results.

The calculations done to fit any one of the three probability models chooses the parameter values that provide the “best fit” of the parametric probability model’s calculated cumulative distribution function (CDF) to the empirical cumulative distribution function (ECDF). Note that the ECDF is constructed based on the variable “-MinAVG_y” (which is a *maximum* over a set of *negative* temperatures) with values of the variable MinAVG_y that are the same as shown in Table 6, below.

In Table 6, the data for -MinAVG_y are shown after they have been sorted from “lowest” to “highest” value. The ascending *ordinal* value is shown in the column labeled “RANK” and the empirical cumulative distribution function is calculated and shown in the next column. The formula used to calculate this function is:

$$\text{ECDF} = (\text{RANK} - \alpha) / [\text{MaxRANK} + (1 - 2 \alpha)],$$

where the parameter “α” (shown as *alpha* in Table 7) is a “small” positive value (usually less than 1/2) that is used to bound the ECDF away from 0 and 1.

Of the three probability models considered (GEV, EV1, and T_Dist) the results obtained for the T_Dist model were selected since the fit to the ECDF was better than that of either the GEV model or the EV1 model. (Although convergence to stable parameter estimates is occasionally a problem with fitting a GEV model to the ECDF, the T_Dist model had no problems with convergence of the iterative procedure to estimate parameters.)

The T_Dist model used here is a three-parameter probability model where the variable $z = (-\text{MinAVG}_y - \gamma) / \theta$, for each year, y , is presumed to follow a T_Dist with location parameter, γ , and scale parameter, θ , and a third parameter, ν , that represents the number of degrees of freedom. For a given number of years of data, N , then $\nu=N-2$.

The following mathematical expression specifies the T_Dist model we fit to the data for “-MinAVG_y” shown in Table 6, below.

$$(3) \quad \text{ECDF}(-\text{MinAVG}_y) = \text{Prob} \{ -T < -\text{MinAVG}_y \} = \text{T_Dist}\{z; \gamma, \theta, \nu=N-2\},$$

where “T_Dist{ . }” is the cumulative probability distribution function for Student’s T-Distribution³, and

³ A common mathematical expression for Student’s T-Distribution is provided at http://en.wikipedia.org/wiki/Student%27s_t-distribution; with a probability density function

$$f(t) = \frac{\Gamma(\frac{\nu+1}{2})}{\sqrt{\nu\pi} \Gamma(\frac{\nu}{2})} \left(1 + \frac{t^2}{\nu} \right)^{-\frac{\nu+1}{2}},$$

such that $\text{T_Dist}\{z; \gamma, \theta, \nu=N-2\} = \int_{-\infty}^z f(t) dt$. Also, the notation $\Gamma(\cdot)$ is known in mathematics as the GAMMA function; see http://www.wikipedia.org/wiki/Gamma_function for a description. Also, see *Statistical Theory*, 3rd Ed., B.W. Lindgren, MacMillian Pub. Inc, 1976, pp. 336-337.

$$(4) \quad z = (-\text{MinAVG}_y - \gamma) / \theta, \text{ for each year, } y, \text{ and}$$

the parameters “ γ ” and “ θ ” are estimated for this model for given degrees of freedom $v=N-2$. The estimated values for γ and θ are shown in Table 7 along with the fitted values of the model CDF (the column: “Fitted” Model CDF).

Now, to calculate a *peak-day design temperature*, TPDD_δ , with a specified likelihood, δ , that a value less than TPDD_δ would be observed, we use the equation below:

$$(5) \quad \delta = \text{Prob} \{ T \leq \text{TPDD}_\delta \}, \text{ which is equivalent to}$$

$$(6) \quad \delta = \text{Prob} \{ [(-T - \gamma) / \theta] \geq [(-\text{TPDD}_\delta - \gamma) / \theta] \}, = \text{Prob} \{ [(-T - \gamma) / \theta] \geq [z_\delta] \},$$

where $z_\delta = [(-\text{TPDD}_\delta - \gamma) / \theta]$. In terms of our probability model,

$$(7) \quad \delta = 1 - T_Dist\{ z_\delta; \gamma, \theta, v=N-2 \},$$

which yields the following equation for z_δ ,

$$(7') \quad z_\delta = \{ \text{TINV_Dist}\{ (1-\delta); \gamma, \theta, v=N-2 \}, \text{ where “TINV_Dist}\{ . \}” \text{ is the inverse function of the } T_Dist\{ . \} \text{ function}^4. \text{ The implied equation for } \text{TPDD}_\delta \text{ is:}$$

$$(8) \quad \text{TPDD}_\delta = - [\gamma + (z_\delta)(\theta)].$$

To calculate the minimum daily (system average) temperature to define our extreme weather event, we specify that this COLDEST-Day be one where the temperature would be lower with a “1-in-35” likelihood. This criterion translates into two equations to be solved based on equations (7) and (8) above:

$$(9) \quad \text{solve for “} z_\delta \text{” from equation (7') above with } (1-\delta) = (1 - 1/35) = 1 - 0.0286,$$

$$(10) \quad \text{solve for “} \text{TPDD}_\delta \text{” from } \text{TPDD}_\delta = - [\gamma + (z_\delta)(\theta)].$$

The value of $z_\delta = 1.951$ and $\text{TPDD}_\delta = - [\gamma + (z_\delta)(\theta)] = 43.3$ degrees Fahrenheit, with values for “ $v=N-2$ ”; along with “ γ ” and “ θ ” in Table 7, below.

SDG&E’s “1-in-10” peak-day design temperature of 44.8 degrees Fahrenheit, is calculated in a methodologically similar way as for the 43.3 degree “1-in-35” peak day temperature. The criteria specified in equation (9) above for a “1-in-35” likelihood would be replaced by a “1-in-10” likelihood.

$$(9') \quad \text{solve for “} z_\delta \text{” from equation (7') above with } (1-\delta) = (1 - 1/10) = 1 - 0.1000,$$

which yields a “ z_δ ” value of $z_\delta = 1.300$ and, $\text{TPDD}_\delta = - [\gamma + (z_\delta)(\theta)] = 44.6$ with values for “ $v=N-2$ ”; along with “ γ ” and “ θ ” in Table 7, below.

A plot of the cumulative distribution function for MinAVG_y based on “ $v=N-2$ ”, the fitted model parameters, “ γ ” and “ θ ” with values in Table 7, below, is shown in Figure 1.

Table 6

⁴ Computer software packages such as SAS and EXCEL have implemented statistical and mathematical functions to readily calculate values for $T_Dist\{ . \}$ and $\text{TINV_Dist}\{ . \}$ as defined above.

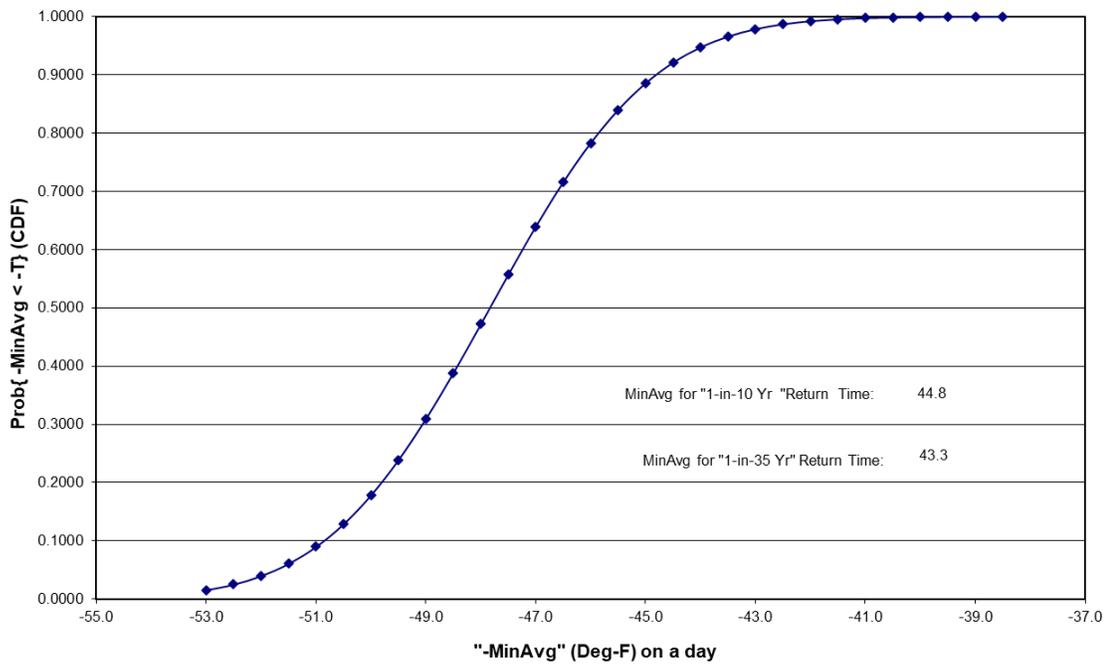
YEAR	MINAVG	Month(MinAvg)
1972	46.7634	Dec
1973	46.1862	Jan
1974	44.2058	Dec
1975	44.1862	Jan
1976	45.0710	Jan
1977	50.6605	Mar
1978	42.7120	Dec
1979	45.1544	Jan
1980	53.7953	Jan
1981	49.8467	Jan
1982	48.8210	Dec
1983	51.4877	Jan
1984	48.4620	Dec
1985	46.1029	Dec
1986	50.1029	Feb
1987	41.4877	Dec
1988	45.4362	Dec
1989	45.1544	Jan
1990	43.7696	Feb
1991	48.7696	Mar
1992	47.1544	Dec
1993	46.7696	Jan
1994	48.0515	Nov
1995	51.1544	Dec
1996	48.7696	Feb
1997	49.0772	Dec
1998	46.7696	Dec
1999	48.7953	Jan
2000	50.3591	Jan
2001	47.6924	Jan
2002	45.7438	Jan
2003	49.0515	Dec
2004	47.7438	Nov
2005	47.7953	Jan
2006	48.3591	Dec
2007	43.3591	Jan
2008	48.7181	Dec
2009	48.4105	Feb
2010	48.1801	Dec
2011	49.0772	Feb
2012	48.1286	Dec
2013	44.1286	Jan
2014	47.7696	Dec
2015	48.2596	Jan
2016	50.2981	Feb
2017	51.2670	Jan
2018	49.9341	Dec
2019	48.4877	Feb
2020	48.1029	Feb
2021	47.6409	Dec

Table 7 (alpha=0.375)

<u>Year</u>	<u>Days/Yr</u>	<u>-MinAvg</u>	<u>Month</u> <u>(-MinAvg)</u>	<u>Rank</u>	<u>Emprical</u> <u>CDF</u>	<u>Fitted</u> <u>Model CDF</u>
1980	366	-53.7953	Jan	1	0.0124	-2.4766
1983	365	-51.4877	Jan	2	0.0323	-1.5444
2017	365	-51.2670	Jan	3	0.0522	-1.4553
1995	365	-51.1544	Dec	4	0.0721	-1.4098
1977	365	-50.6605	Mar	5	0.0920	-1.2103
2000	366	-50.3591	Jan	6	0.1119	-1.0885
2016	366	-50.2981	Feb	7	0.1318	-1.0639
1986	365	-50.1029	Feb	8	0.1517	-0.9850
2018	365	-49.9341	Dec	9	0.1716	-0.9169
1981	365	-49.8467	Jan	10	0.1915	-0.8816
1997	365	-49.0772	Dec	11	0.2114	-0.5707
2011	365	-49.0772	Feb	12	0.2313	-0.5707
2003	365	-49.0515	Dec	13	0.2512	-0.5603
1982	365	-48.8210	Dec	14	0.2711	-0.4672
1999	365	-48.7953	Jan	15	0.2910	-0.4568
1991	365	-48.7696	Mar	16	0.3109	-0.4464
1996	366	-48.7696	Feb	17	0.3308	-0.4464
2008	366	-48.7181	Dec	18	0.3507	-0.4256
2019	365	-48.4877	Feb	19	0.3706	-0.3325
1984	366	-48.4620	Dec	20	0.3905	-0.3222
2009	365	-48.4105	Feb	21	0.4104	-0.3014
2006	365	-48.3591	Dec	22	0.4303	-0.2806
2015	365	-48.2596	Jan	23	0.4502	-0.2404
2010	365	-48.1801	Dec	24	0.4701	-0.2083
2012	366	-48.1286	Dec	25	0.4900	-0.1875
2020	366	-48.1029	Feb	26	0.5100	-0.1771
1994	365	-48.0515	Nov	27	0.5299	-0.1563
2005	365	-47.7953	Jan	28	0.5498	-0.0528
2014	365	-47.7696	Dec	29	0.5697	-0.0425
2004	366	-47.7438	Nov	30	0.5896	-0.0321
2001	365	-47.6924	Jan	31	0.6095	-0.0113
2021	365	-47.6409	Dec	32	0.6294	0.0095
1992	366	-47.1544	Dec	33	0.6493	0.2061
1993	365	-46.7696	Jan	34	0.6692	0.3615
1998	365	-46.7696	Dec	35	0.6891	0.3615
1972	366	-46.7634	Dec	36	0.7090	0.3640
1973	365	-46.1862	Jan	37	0.7289	0.5972
1985	365	-46.1029	Dec	38	0.7488	0.6308
2002	365	-45.7438	Jan	39	0.7687	0.7759
1988	366	-45.4362	Dec	40	0.7886	0.9001
1979	365	-45.1544	Jan	41	0.8085	1.0140
1989	365	-45.1544	Jan	42	0.8284	1.0140
1976	366	-45.0710	Jan	43	0.8483	1.0477
1974	365	-44.2058	Dec	44	0.8682	1.3972
1975	365	-44.1862	Jan	45	0.8881	1.4051
2013	365	-44.1286	Jan	46	0.9080	1.4283
1990	365	-43.7696	Feb	47	0.9279	1.5734
2007	365	-43.3591	Jan	48	0.9478	1.7392
1978	365	-42.7120	Dec	49	0.9677	2.0006
1987	365	-41.4877	Dec	50	0.9876	2.4952

"Gamma" (Fitted) =	-47.84
"Theta" (Fitted) =	2.33
Deg. Freedom=	48

Figure 1
CDF for the Random Variable: "-MinAvg",
[Minimum System Avg. Temp (Deg-F) on a Day over a Year]



VI. Estimating the Uncertainty in the Peak-Day Design Temperature

The calculated peak-day design temperatures in section V above also have a statistical uncertainty associated with them. The estimated measures of uncertainty recommended for our use are calculated from the fitted model for the probability distribution and are believed to be reasonable, although rough, approximations.

The basic approach used the estimated parameters for the probability distribution (see the results provided in Table 7, above) to calculate the fitted temperatures as a function of the empirical CDF listed in Table 7. These fitted temperatures are then “compared” with the observed temperatures by calculating the difference = “observed” – “fitted” values. The full set of differences are then separated into the lower third (L), the middle third (M) and the upper third (U) of the distribution. Finally, calculate values of the root-mean-square error (RMSE) of the differences in each third of the distribution, along with the entire set of differences overall. The data in Table 8, below, show the temperature data and the resulting RMSE values.

The formula below is used to calculate the RMSE for a specified set of “N” data differences:

$$\text{RMSE} = \text{SQRT} \left\{ \left(\sum_{i=1, \dots, N} e[i]^2 \right) / (N-2) \right\},$$

where $e[i] = \text{observed less fitted value of temperature, } T[i]$. The number of estimated parameters (3 for the GEV model, 2 for the T-Dist and EV1 models) is subtracted from the respective number of data differences, N, in the denominator of the RMSE expression.

Since both the “1-in-35” and “1-in-10” peak-day temperature values are in the lower third quantile of the fitted distribution, the calculated standard error for these estimates is 0.60 Deg-F.

Table 8

<u>Quantile: (Lower, Middle, Upper 3rd's)</u>	<u>Observed $T_{(i)}$ Temp. Ranked</u>	<u>Fitted Value of $T_{(i)}$</u>	<u>Residual $e_{(i)}$: Obs'd. less Fitted Value of $T_{(i)}$</u>	<u>Square of $e_{(i)}$:</u>
U	53.7953	53.2170	0.5783	0.334375
U	51.4877	52.2310	-0.7434	0.552571
U	51.2670	51.6830	-0.4160	0.173093
U	51.1544	51.2868	-0.1324	0.017542
U	50.6605	50.9696	-0.3091	0.095533
U	50.3591	50.7012	-0.3421	0.117054
U	50.2981	50.4660	-0.1679	0.028198
U	50.1029	50.2549	-0.1520	0.023099
U	49.9341	50.0620	-0.1278	0.016343
U	49.8467	49.8833	-0.0366	0.001337
U	49.0772	49.7160	-0.6388	0.408110
U	49.0772	49.5580	-0.4808	0.231165
U	49.0515	49.4076	-0.3561	0.126823
U	48.8210	49.2635	-0.4425	0.195823
U	48.7953	49.1248	-0.3295	0.108602
U	48.7696	48.9906	-0.2211	0.048875
U	48.7696	48.8602	-0.0907	0.008221
M	48.7181	48.7330	-0.0149	0.000222
M	48.4877	48.6085	-0.1208	0.014592
M	48.4620	48.4862	-0.0242	0.000585
M	48.4105	48.3656	0.0449	0.002014
M	48.3591	48.2465	0.1125	0.012660
M	48.2596	48.1285	0.1310	0.017169
M	48.1801	48.0113	0.1688	0.028488
M	48.1286	47.8945	0.2341	0.054813
M	48.1029	47.7779	0.3250	0.105649
M	48.0515	47.6611	0.3904	0.152392
M	47.7953	47.5438	0.2515	0.063232
M	47.7696	47.4258	0.3437	0.118156
M	47.7438	47.3067	0.4371	0.191060
M	47.6924	47.1862	0.5062	0.256214
M	47.6409	47.0639	0.5771	0.332990
M	47.1544	46.9393	0.2150	0.046228
L	46.7696	46.8121	-0.0426	0.001812
L	46.7696	46.6817	0.0878	0.007716
L	46.7634	46.5475	0.2159	0.046606
L	46.1862	46.4088	-0.2226	0.049550
L	46.1029	46.2648	-0.1619	0.026210
L	45.7438	46.1144	-0.3706	0.137311
L	45.4362	45.9564	-0.5201	0.270530
L	45.1544	45.7891	-0.6347	0.402854
L	45.1544	45.6104	-0.4560	0.207967
L	45.0710	45.4175	-0.3465	0.120038
L	44.2058	45.2064	-1.0006	1.001128
L	44.1862	44.9712	-0.7849	0.616140
L	44.1286	44.7028	-0.5741	0.329648
L	43.7696	44.3856	-0.6160	0.379461
L	43.3591	43.9894	-0.6303	0.397285
L	42.7120	43.4413	-0.7294	0.531984
L	41.4877	42.4553	-0.9676	0.936331
Overall RMSE ($e_{(i)}$):				0.43 °F
Upper 3rd RMSE ($e_{(i)}$):				0.41 °F
Middle 3rd RMSE ($e_{(i)}$):				0.32 °F
Lower 3rd RMSE ($e_{(i)}$):				0.60 °F

VII. The Relationship between Annual Likelihoods for Peak-Day Temperatures and “Expected Return Time”

The event whose probability distribution we’ve modeled is the likelihood that the minimum daily temperature over a calendar year is less than a specified value. And, in particular, we’ve used this probability model to infer the value of a temperature, our *peak-day design temperature* (TPDD_δ), that corresponds to a pre-defined likelihood, δ, that the observed minimum temperature is less than or equal to this design temperature.

$$(1) \quad \delta = \text{Prob}\{\text{Minimum Daily Temperature over the Year} < \text{TPDD}_\delta\}.$$

For some applications, it is useful to think of how this specified likelihood (or “risk level” δ) relates to the expected number of years until this Peak-Day event would first occur. This expected number of years is what is meant by the *return period*. The results stated below are found in the book: ***Statistics of Extremes***, E.J. Gumbel, Columbia University Press, 1958, on pages 21-25.

$$(2) \quad E[\text{\#Yrs for Peak-Day Event to Occur}] = 1 / \delta, \\
 1 / \text{Prob}\{\text{Minimum Daily Temperature over the Year} < \text{TPDD}_\delta\}.$$

For our peak-day design temperature (43.3°F) associated with a 1-in-35 annual likelihood, the return period is 35 years (δ=1/35). For the 44.8°F peak-day design temperature, the return period is 10 years (δ=1/10). Occasionally, a less precise terminology is used. For example, the 43.3°F peak-day design temperature may be referred to as a “1-in-35 year cold day”; and the 44.8°F peak-day design temperature may be referred to as a “1-in-10 year cold day.”

The probability model for the *return period*, as a random variable, is a geometric (discrete) distribution with positive integer values for the *return period*. The parameter δ = Prob{ Minimum Daily Temperature over the Year < TPDD_δ }.

$$(3) \quad \text{Prob}\{\text{return period} = r\} = (1 - \delta)^{(r-1)} \delta, \text{ for } r = 1, 2, 3, \dots$$

The expected value of the *return period* is already given in (2) above; the variance of the *return period* is:

$$(4) \quad \text{Var}[\text{return period}] = (E[\text{return period}])^2 \times (1 - (1 / E[\text{return period}])),$$

$$(4') \quad \text{Var}[\text{return period}] = (E[\text{return period}]) \times (E[\text{return period}] - 1).$$

Equations (4) and (4') indicate that the standard deviation (square root of the variance) of the *return period* is nearly equal to its expected value. Thus, there is substantial variability about the expected value—a *return period* is not very precise.

2022 CALIFORNIA GAS REPORT

SERVICE AREA ECONOMIC FORECAST



SAN DIEGO GAS & ELECTRIC COMPANY SERVICE AREA ECONOMIC FORECAST

(Employment based on Global Insight's November 2021 Regional Forecast)

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
EMPLOYMENT (1000's)										
Total	1,431.5	1,461.0	1,491.5	1,512.9	1,394.5	1,418.4	1,488.1	1,520.9	1,538.3	1,552.9
I: Industrial (all manufacturing + mining)	108.7	109.7	112.7	116.0	114.2	114.2	115.7	116.9	116.9	116.7
C1: Office (Financial+Bus. & Professional Svcs)	307.7	313.7	325.0	332.2	322.0	327.0	344.6	353.6	359.1	365.0
C2: Restaurants	131.4	135.3	138.0	139.4	105.6	113.0	131.6	148.0	153.5	155.4
C3: Retail Trade	147.5	149.0	148.0	145.8	134.2	139.0	135.7	130.0	125.0	120.9
C4: Laundry & other Personal Services	20.1	20.1	20.7	21.8	14.5	16.1	18.4	19.0	19.3	19.6
C5: Wholesale Trade & Warehouses	45.7	45.9	46.0	46.4	43.1	41.7	43.8	45.8	47.4	49.2
C6: Primary & Secondary Schools	96.0	96.9	97.1	98.7	90.3	86.0	89.0	89.3	90.7	92.2
C7: Colleges (including other adult education)	45.4	46.2	46.3	44.6	41.0	41.8	43.2	43.4	44.1	44.8
C8: Health Services	169.0	174.7	179.5	186.4	182.9	187.1	193.6	194.1	197.3	200.6
C9: Accommodation	30.1	30.9	31.3	32.1	20.3	20.7	24.1	27.1	28.1	28.5
C10: Misc. (all other commercial employment)	63.2	64.4	65.1	64.9	49.0	50.7	58.2	60.4	61.2	62.2
C11: Government (non-education)	130.6	132.8	134.0	135.4	133.1	132.8	137.5	139.6	140.7	141.8
C12: Transportation, Information, and Utilities	51.0	53.3	54.7	55.5	53.2	52.8	54.9	56.2	58.6	60.6
C13: Construction	76.3	79.5	83.7	84.0	81.9	86.3	88.7	88.5	87.3	86.4
C14: Agriculture	8.9	8.7	9.3	9.7	9.2	9.2	9.1	9.1	9.0	9.0
OTHER INDICATORS										
Southern California Consumer Inflation*	1.9%	2.8%	3.8%	3.1%	1.6%	3.8%	5.0%	1.9%	2.1%	2.1%
Inflation--US Gross Domestic Product**	0.7%	1.9%	2.3%	1.5%	1.2%	3.9%	4.4%	2.2%	2.1%	2.1%

* Consumer Price Index for Greater Los Angeles area (Los Angeles and Orange Counties), from Global Insight's February 2022 Regional Forecast.

** Chained Price Index--US GDP: from Global Insight's February 2022 Forecast of the U.S. Economy; beyond 2032 is from their November 2021 long-term forecast.

SAN DIEGO GAS & ELECTRIC COMPANY SERVICE AREA ECONOMIC FORECAST

(Employment based on Global Insight's November 2021 Regional Forecast)

	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
EMPLOYMENT (1000's)										
Total	1,568.5	1,580.8	1,591.6	1,601.0	1,609.5	1,615.5	1,622.0	1,630.2	1,637.6	1,644.7
I: Industrial (all manufacturing + mining)	116.8	117.1	116.8	116.6	116.2	116.2	116.1	116.1	116.0	115.9
C1: Office (Financial+Bus. & Professional Svcs)	370.5	375.2	379.5	382.7	385.2	384.8	384.5	386.0	387.9	389.7
C2: Restaurants	156.6	157.6	159.1	161.0	163.0	163.8	163.8	164.1	163.7	163.5
C3: Retail Trade	119.5	117.9	117.0	116.4	116.6	117.3	118.6	120.4	122.0	123.8
C4: Laundry & other Personal Services	19.9	20.2	20.5	20.7	20.9	21.0	21.1	21.1	21.2	21.3
C5: Wholesale Trade & Warehouses	50.6	51.2	51.1	51.0	50.7	50.6	50.4	50.1	49.8	49.5
C6: Primary & Secondary Schools	93.8	95.2	96.3	97.2	97.7	98.9	100.2	101.1	102.0	102.6
C7: Colleges (including other adult education)	45.6	46.2	46.8	47.2	47.5	48.0	48.6	49.1	49.5	49.8
C8: Health Services	204.0	207.0	209.5	211.4	212.5	215.1	217.8	219.8	221.8	223.0
C9: Accommodation	28.7	28.9	29.1	29.5	29.9	30.0	30.0	30.0	30.0	29.9
C10: Misc. (all other commercial employment)	63.2	64.2	65.1	65.7	66.2	66.7	66.9	67.0	67.3	67.5
C11: Government (non-education)	142.9	143.7	144.3	144.8	146.1	145.9	146.4	147.0	147.5	148.0
C12: Transportation, Information, and Utilities	61.8	61.8	61.5	61.1	60.6	60.4	60.3	60.0	59.5	59.2
C13: Construction	85.6	85.6	86.0	86.9	87.7	87.9	88.5	89.7	91.0	92.4
C14: Agriculture	8.9	8.9	8.8	8.8	8.8	8.7	8.7	8.6	8.6	8.5
OTHER INDICATORS										
Southern California Consumer Inflation*	2.2%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.2%	2.3%	2.3%
Inflation--US Gross Domestic Product**	2.1%	2.2%	2.2%	2.2%	2.2%	2.1%	2.1%	2.1%	2.1%	2.1%

* Consumer Price Index for Greater Los Angeles area (Los Angeles and Orange Counties), from Global Insight's February 2022 Regional Forecast.

** Chained Price Index--US GDP: from Global Insight's February 2022 Forecast of the U.S. Economy; beyond 2032 is from their November 2021 long-term forecast.