

CAMBRIDGE GREENHOUSE GAS REDUCITON MODEL

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
1	Cambridge NZE GHG Model																														
2	Residential																														
3	NEW	Strategies	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	GHG's in Tonnes		
4	1-Family	Incentives leading to NZE by 2025	48	48	120	120	120	120	240	240	240	240	479	479	479	479	479	479	479	479	479	479	479	479	479	479	479	479	479	479	Total Savings
5	2-3 Family		87	87	217	217	217	217	434	434	434	434	867	867	867	867	867	867	867	867	867	867	867	867	867	867	867	867	867	867	9,200
6	4-8 Units		27	27	68	68	68	68	137	137	137	137	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274	16,609
7	8-51 Units		23	23	57	57	57	57	114	114	114	114	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	5,278
8	51+ Units		43	43	108	108	108	108	217	217	217	217	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	4,406
9	Existing																														43,822
10	1-Family	Incentives for retrofits	0	0	359	359	359	359	1,581	1,581	1,581	158	158	158	158	158	158	158	158	158	2,396	2,396	2,396	2,396	2,396	2,396	2,396	2,396	2,396	2,396	31,248
11	2-3 Family		0	0	1,301	1,301	1,301	1,301	2,861	2,861	2,861	286	286	286	286	286	286	286	286	286	4,335	4,335	4,335	4,335	4,335	4,335	4,335	4,335	4,335	4,335	59,144
12	4-8 Units		0	0	904	904	904	904	904	904	904	90	90	90	90	90	90	90	90	90	1,369	1,369	1,369	1,369	1,369	1,369	1,369	1,369	1,369	1,369	20,649
13	8-51 Units		0	0	0	228	228	228	228	228	228	685	685	685	685	685	685	685	685	685	1,141	1,141	1,141	1,141	1,141	1,141	1,141	1,141	1,141	17,570	
14	51+ Units		0	0	0	434	434	434	434	434	434	1,301	1,301	1,301	1,301	1,301	1,301	1,301	1,301	1,301	2,168	2,168	2,168	2,168	2,168	2,168	2,168	2,168	2,168	2,168	33,383
15		total	228	240	3134	3796	3796	3796	7149	7149	7149	3661	4802	4802	4802	4802	4802	4802	4802	4802	15973	13691	13691	13691	13691	13691	13691	13691	13691	13691	161,994
16	Commercial																														
17	NEW		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040				
18	Commercial Lab	LEED Gold Policy Updated and NZE by 2025	0	0	425	425	425	425	1133	1133	1133	1133	1133	2124	2124	2124	2124	2124	2124	2124	2124	2124	2124	2124	2124	2124	2124	2124	2124	2124	39,217
19	Commercial Office	Energy Positive by 20% in 2035	0	0	405	405	405	405	809	809	809	809	809	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	1618	31,875
20	Hotel	Energy Positive by 20% in 2035	0	0	121	121	121	121	243	243	243	243	243	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485	9,563
21	Retail	Energy Positive by 20% in 2035	0	0	55	55	55	55	109	109	109	109	109	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219	4,307
22	Existing																														
23	Commercial Lab	Retrofit programs start at 22% savings and move to 50%	0	1416	1416	1416	5663	8495	5663	5663	2832	2832	849	849	849	849	849	849	849	849	1416	1416	1416	1416	1416	1416	1416	1416	1416	1416	54,649
24	Commercial Office		0	809	809	809	3236	4854	4854	4854	1618	1618	485	485	485	485	485	485	485	485	809	809	809	809	809	809	809	809	809	809	34,464
25	Hotel		0	243	243	243	971	1456	1456	1456	485	485	146	146	146	146	146	146	146	146	243	243	243	243	243	243	243	243	243	243	10,339
26	Retail		0	109	109	109	437	656	656	656	656	66	66	66	66	66	66	66	66	66	109	109	109	109	109	109	109	109	109	109	5,532
27	Hospital		0	142	142	142	566	849	849	849	849	85	85	85	85	85	85	85	85	85	142	142	142	142	142	142	142	142	142	142	7,164
28	Warehouse		0	40	40	40	162	243	243	243	243	24	24	24	24	24	24	24	24	24	40	40	40	40	40	40	40	40	40	40	2,047
29	University Lab		0	1517	1517	1517	2023	2023	2023	2023	2023	607	607	607	607	607	607	607	607	607	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	31,855
30	Acedemic/Admin		0	713	713	713	951	2852	2852	2852	2852	285	285	285	285	285	285	285	285	285	475	475	475	475	475	475	475	475	475	475	26,379
31	University Residential		0	485	485	485	647	1942	1942	1942	1942	194	194	194	194	194	194	194	194	194	324	324	324	324	324	324	324	324	324	324	17,960
32	Athletics/Museums/Support		0	212	212	212	283	849	849	849	849	85	85	85	85	85	85	85	85	85	142	142	142	142	142	142	142	142	142	142	7,858
33	Government		0	212	212	212	283	849	849	849	849	85	85	85	85	85	85	85	85	85	142	142	142	142	142	142	142	142	142	142	7,858
34	Other		0	121	121	121	162	485	485	485	485	485	49	49	49	49	49	49	49	49	81	81	81	81	81	81	81	81	81	81	4,490
35		total	0	6020	7025	7025	16389	26559	25015	25015	17977	17977	12949	7406	7406	7406	7406	7406	7406	7406	9379	9379	9379	9379	9843	9843	9843	9843	9843	9843	210,593
36	Energy Supply																														
37	Cambridge Solar																														
38	Solar Roof Top	60 MW by 2020 & 160 MW installed by 2040	4,261	4,261	4,261	4,261	4,261	4,261	2,991.06	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	62,812	
39	Community Solary Projects	12.56 MW Community Solar	0	0	0	0	0	1,071	1,071	1,071	1,071	1,071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,355
40	Cogen system grows at 5% per year		0	0	0	0	0	0	150	200	200	350	350	350	350	350	350	350	350	350	500	500	500	500	500	500	500	500	500	500	8,150
41			4,261	4,261	4,261	4,261	4,261	5,332	4,212	6,271	6,271	6,421	5,350	5,350	5,350	5,350	5,350	5,350	5,350	5,500	5,500	5,500	5,500	7,500	7,500	7,500	7,500	7,500	7,500	76,318	
42	Grid Supplied Green Power (RPS)	RPS growing at 1%/year through 2040	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	5520	143,520	
43			5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	5,520	143,520
44																															
45			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040			
47	Reductions		1,037,193	1,036,965	1,030,705	1,024,445	1,013,624	993,439	973,254	941,090	908,926	876,761	855,124	837,373	819,622	807,415	795,208	7													