

Table E3. Electricity consumption (in British thermal units [Btu]) by end use, 2018

	Total electricity consumption (trillion Btu)										
	Total	Space heating	Cooling	Ventilation	Water heating	Lighting	Cooking	Refrigeration	Office equipment	Computing	Other
All buildings	4,081	239	580	728	80	709	90	369	47	270	969
Building floorspace (square feet)											
1,001 to 5,000	371	28	56	42	11	52	15	67	6	11	84
5,001 to 10,000	367	28	61	44	11	58	18	54	4	12	77
10,001 to 25,000	563	37	86	73	11	94	11	48	7	41	153
25,001 to 50,000	571	40	91	91	13	108	7	55	6	25	135
50,001 to 100,000	627	40	95	117	13	116	10	56	6	34	140
100,001 to 200,000	582	27	78	121	10	108	10	42	7	46	133
200,001 to 500,000	597	24	71	129	7	101	9	31	6	67	153
Over 500,000	403	15	43	112	5	72	9	18	4	33	93
Principal building activity											
Education	437	25	90	65	11	75	7	22	6	33	104
Food sales	183	7	7	13	(*)	13	7	88	1	Q	Q
Food service	207	12	25	23	11	15	35	56	2	1	27
Health care	327	8	34	98	3	49	6	12	4	23	89
Inpatient	222	4	26	65	2	27	6	9	3	16	64
Outpatient	105	4	8	34	(*)	22	1	3	2	7	25
Lodging	342	22	40	87	17	50	14	27	3	8	73
Mercantile	616	42	71	116	24	141	8	71	7	21	113
Retail (other than mall)	242	10	31	60	1	62	3	16	2	6	51
Enclosed and strip malls	373	32	39	56	23	79	5	56	5	15	62
Office	775	45	78	214	6	131	3	22	14	85	177
Public assembly	298	28	96	28	1	37	4	19	3	7	76
Public order and safety	73	4	14	9	3	18	1	3	1	4	16
Religious worship	91	6	21	16	1	19	2	5	1	2	17
Service	153	12	22	16	1	49	(*)	4	2	4	43
Warehouse and storage	325	20	51	24	2	80	(*)	36	2	8	101
Other	239	6	28	17	(*)	30	1	4	1	72	80
Vacant	16	1	3	1	(*)	3	Q	(*)	(*)	(*)	7
Year constructed											
Before 1920	120	6	14	21	1	21	3	8	1	Q	29
1920 to 1945	221	9	33	46	2	38	4	17	3	22	47
1946 to 1959	226	14	35	35	6	41	4	19	3	12	57
1960 to 1969	408	18	62	72	8	75	10	39	5	19	101
1970 to 1979	545	32	77	98	12	102	11	51	6	31	125
1980 to 1989	617	41	79	115	12	102	12	50	8	54	145
1990 to 1999	608	42	92	114	10	111	11	53	7	29	139
2000 to 2009	861	48	126	147	15	144	23	86	9	57	206
2010 to 2018	473	30	63	80	12	76	11	47	5	30	118

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All buildings	4,081	239	580	728	80	709	90	369	47	270	969
Census region and division											
Northeast	646	38	56	131	11	128	11	49	8	51	164
New England	148	8	10	29	3	27	3	16	2	7	43
Middle Atlantic	498	30	46	102	8	100	8	33	6	44	121
Midwest	1,015	77	101	184	19	178	24	100	11	71	252
East North Central	694	45	71	131	13	123	18	78	8	43	165
West North Central	321	32	30	53	5	55	6	22	3	28	87
South	1,627	91	344	266	35	263	36	133	18	84	357
South Atlantic	873	51	179	145	21	140	20	69	9	43	195
East South Central	223	14	44	37	5	39	4	18	3	12	47
West South Central	531	25	121	83	9	84	12	46	6	30	115
West	793	33	80	148	16	140	18	88	11	64	196
Mountain	324	17	34	62	7	56	11	37	4	30	67
Pacific	469	16	46	86	9	84	8	50	7	34	129
Climate zone^a											
Cold or very cold	296	23	13	49	4	45	9	35	3	28	87
Cool	1,013	72	79	194	22	193	24	97	12	70	250
Mixed mild	1,090	75	135	212	19	193	21	82	12	82	259
Warm	1,092	59	193	183	24	185	23	103	14	57	251
Hot or very hot	590	11	161	90	12	92	12	52	6	32	122
Number of floors											
1	1,794	125	282	241	45	318	45	221	19	87	411
2	843	47	133	143	18	162	18	75	11	44	191
3	432	28	61	81	7	77	6	30	5	33	104
4 to 9	670	25	75	157	7	105	12	31	8	64	186
10 or more	342	14	30	106	4	46	8	12	4	41	78
Elevators and escalators (more than one may apply)											
Any elevators	1,743	82	220	405	24	282	30	85	21	162	431
1 elevator	528	33	81	100	8	94	8	34	7	35	127
2 to 5 elevators	684	32	85	152	10	110	10	31	8	77	168
6 or more elevators	531	17	54	153	6	77	12	21	6	49	136
Any escalators	190	8	21	50	4	32	5	10	2	17	42
Number of workers (main shift)											
Fewer than 5	546	42	104	55	9	86	10	61	5	24	152
5 to 9	413	32	65	53	10	68	15	47	5	12	107
10 to 19	436	29	65	70	13	77	17	55	5	17	87
20 to 49	747	48	105	116	20	133	17	79	8	74	147
50 to 99	602	34	85	106	11	109	8	57	6	32	153
100 to 249	614	26	84	135	11	125	11	46	7	33	138
250 or more	723	28	72	194	8	111	12	25	9	77	186
Weekly operating hours											
Fewer than 40	236	18	47	16	3	34	5	20	3	12	76
40 to 48	579	43	96	76	8	102	6	32	9	39	168
49 to 60	771	53	116	128	17	148	13	46	11	68	170
61 to 84	684	41	90	113	17	136	16	73	9	35	154
85 to 167	589	34	79	94	10	110	21	108	4	13	116
Open continuously	1,222	50	152	301	25	179	29	89	9	102	285

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All buildings	4,081	239	580	728	80	709	90	369	47	270	969
Ownership and occupancy											
Nongovernment owned	3,215	196	423	586	67	569	67	315	36	208	747
Owner occupied	1,920	104	268	359	33	321	45	193	21	112	462
Leased to tenant or tenants	1,289	91	154	227	34	247	22	121	15	95	282
Unoccupied	5	Q	Q	(*)	Q	Q	Q	Q	Q	Q	3
Government owned	866	43	157	142	13	139	22	54	11	62	222
Federal	92	3	12	23	1	19	1	3	1	8	22
State	314	12	55	50	4	45	10	21	4	19	93
Local	460	27	90	69	8	75	11	31	6	35	107
Party responsible for operation of energy systems											
Building owner	3,322	185	479	613	59	560	77	281	38	221	809
Business owner or tenant	554	40	73	78	16	111	10	71	6	34	115
Property management	98	8	13	19	2	17	2	10	1	5	21
Other	107	6	15	19	4	21	1	7	1	9	24
Provider of direct input on energy-related equipment purchases											
Building owner	3,460	194	500	634	62	590	77	299	40	227	835
Business owner or tenant	354	25	45	47	10	70	7	48	4	25	73
Property management	56	5	6	10	2	10	Q	7	1	2	11
Other	211	14	29	37	7	38	3	16	3	15	49
Number of establishments											
1	2,650	151	403	432	47	439	68	248	28	171	664
2 to 5	726	40	104	142	14	131	12	68	9	44	162
6 to 10	273	20	27	56	7	53	4	25	4	21	56
11 to 20	213	15	23	46	7	43	2	17	3	13	43
More than 20	211	13	21	52	6	42	2	11	3	21	40
Currently unoccupied	8	Q	2	Q	Q	Q	Q	Q	Q	Q	5
Predominant exterior wall material											
Brick, stone, or stucco	2,072	119	321	388	45	339	55	179	26	129	470
Concrete (block or poured)	888	47	125	160	17	162	18	100	8	59	191
Concrete panels	328	15	40	59	3	64	2	22	4	39	81
Siding or shingles	253	23	25	32	8	41	7	28	3	9	77
Metal panels	317	20	47	37	5	69	3	25	3	8	99
Window glass	117	7	12	28	2	17	2	5	2	14	29
Other	106	8	10	24	2	17	1	10	1	12	22
Predominant roof material											
Metal surfacing	659	51	111	73	13	123	13	66	6	20	183
Synthetic or rubber	1,541	84	191	311	27	268	34	151	17	110	348
Built-up	899	46	134	179	17	153	22	71	10	75	191
Slate or tile shingles	155	11	28	25	4	25	4	17	2	6	33
Wooden materials (including shingles)	55	3	10	9	Q	10	1	7	1	1	12
Asphalt, fiberglass, or other shingles	526	34	74	91	13	95	10	39	7	28	134
Concrete	112	5	15	19	2	15	1	5	1	Q	27
Other	134	6	18	21	2	21	4	13	2	8	41

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All buildings	4,081	239	580	728	80	709	90	369	47	270	969
Roof tilt											
Flat	2,638	146	357	527	47	450	58	220	30	202	601
Shallow pitch	949	60	146	130	20	179	19	99	10	52	232
Steeper pitch	494	34	78	70	13	79	12	50	6	15	136
Cool roof characteristics (more than one may apply)											
White or reflective coating or paint	1,543	74	216	289	30	269	37	138	17	95	379
White or reflective tiles or shingles	147	11	22	23	5	20	4	15	1	Q	33
Aluminum coating	224	16	37	32	5	42	5	27	2	8	49
Ballasted roof system	306	19	37	65	3	46	6	17	3	32	78
Other cool roof property	83	6	9	18	2	14	1	7	1	7	18
Renovations since 2000 (more than one may apply)											
Any type of renovation	2,016	116	272	410	38	345	45	167	24	142	457
Addition or annex	506	28	73	105	11	83	14	45	6	28	115
Reduction in floorspace	91	6	11	21	2	16	2	7	1	6	19
Roof replacement	928	53	122	187	20	155	24	76	11	64	216
Interior wall reconfiguration	968	53	121	218	15	166	17	62	12	79	224
Window replacement	469	27	57	100	10	83	14	39	6	30	104
HVAC equipment upgrade	1,268	68	167	270	23	212	30	99	16	94	288
Lighting upgrade	1,351	73	165	288	24	227	32	112	16	106	309
Electrical upgrade	756	42	95	161	13	123	20	58	9	63	173
Plumbing system upgrade	734	42	93	162	14	117	20	54	9	55	169
Insulation upgrade	367	20	46	80	5	61	10	26	4	26	89
Fire, safety, or security upgrade	943	54	121	200	20	156	22	69	11	73	217
Structural upgrade	216	9	22	46	5	33	7	16	2	20	55
Other	68	2	10	19	1	13	2	4	1	2	15
No renovations	1,743	102	264	263	34	313	37	166	20	112	430
Buildings constructed 2013 or later	322	21	44	55	9	51	7	36	3	15	82
Energy sources (more than one may apply)											
Electricity	4,081	239	580	728	80	709	90	369	47	270	969
Natural gas	2,936	139	400	575	52	537	65	284	35	185	665
Fuel oil	1,201	53	136	245	15	176	26	79	13	144	314
District heat	388	6	27	96	4	56	6	16	5	36	135
District chilled water	252	6	5	52	2	35	4	13	3	27	104
Propane	407	22	50	58	9	68	16	55	4	17	108
Solar	167	7	21	36	3	31	3	18	2	10	35
Wood, coal, or other	85	6	11	13	2	16	3	10	1	6	18
Space-heating energy sources											
Electricity	2,283	239	321	374	62	376	52	210	25	142	481
Electricity main	1,428	176	221	212	41	216	34	125	15	97	291
Electricity secondary	855	63	100	162	21	161	18	86	10	45	190
Other excluding electricity	1,592	N	221	342	15	302	35	139	20	103	416
Buildings without heating	205	N	38	13	3	30	3	20	1	25	72

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All buildings	4,081	239	580	728	80	709	90	369	47	270	969
Primary space-heating energy source											
Electricity	1,428	176	221	212	41	216	34	125	15	97	291
Natural gas	1,970	55	280	400	29	385	44	191	24	108	454
Fuel oil	57	2	6	9	1	13	1	6	1	3	16
District heat	341	3	23	85	3	51	6	15	4	34	117
Propane	71	3	10	10	3	12	3	12	1	2	16
Other sources ^b	8	Q	Q	1	Q	2	Q	1	(*)	(*)	2
Cooling energy sources											
Electricity	3,747	228	580	693	79	663	86	356	44	260	758
Other excluding electricity	164	2	N	33	1	23	2	8	2	8	86
Buildings without cooling	170	9	N	3	1	23	Q	6	(*)	1	126
Water-heating energy sources											
Electricity	2,170	169	306	348	80	376	44	193	25	150	480
Other excluding electricity	1,751	61	247	367	N	297	46	173	21	116	422
Buildings without water heating	160	9	28	13	N	35	Q	3	1	4	67
Cooking energy sources											
Electricity	1,632	96	197	308	43	257	90	194	17	79	351
Other excluding electricity	621	31	103	126	12	101	N	81	7	31	127
Buildings without cooking	1,828	112	280	294	25	350	N	94	23	160	491
Energy end uses (more than one may apply)											
Buildings with space heating	3,875	239	542	716	77	678	87	349	46	244	897
Buildings with cooling	3,911	230	580	726	80	686	88	364	46	268	843
Buildings with water heating	3,920	230	552	715	80	673	89	366	46	266	902
Buildings with cooking	2,253	127	301	434	55	358	90	276	24	110	478
Buildings with manufacturing	292	16	27	43	4	52	5	36	2	10	96
Buildings with electricity generation	1,622	82	201	328	26	251	32	122	17	165	398
Buildings with lighting	4,073	238	579	727	80	709	90	369	47	270	965
Percentage of floorspace heated											
Not heated	205	N	38	13	3	30	3	20	1	25	72
1% to 50%	321	15	49	46	5	63	3	40	3	28	70
51% to 99%	940	53	122	192	22	164	21	101	12	49	202
100%	2,615	171	371	477	51	452	62	209	31	167	625
Percentage of floorspace cooled											
Not cooled	170	9	N	3	1	23	Q	6	(*)	1	126
1% to 50%	457	32	60	65	7	115	7	41	5	17	108
51% to 99%	1,294	67	174	261	26	216	28	132	15	105	269
100%	2,160	131	346	399	47	355	53	190	27	146	466
Percentage lit when open											
0%	Q	Q	Q	Q	Q	N	N	Q	Q	Q	Q
1% to 50%	348	22	71	50	7	42	6	28	4	25	94
51% to 99%	1,841	110	241	353	43	311	40	172	22	126	424
100%	1,866	104	264	325	31	352	43	169	21	118	439
Building never open or electricity not used	18	2	3	(*)	Q	4	Q	Q	Q	Q	8

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All buildings	4,081	239	580	728	80	709	90	369	47	270	969
Percentage lit during off hours											
0%	395	28	75	41	7	60	7	35	5	13	125
1% to 50%	3,003	175	432	556	61	522	68	271	37	191	690
51% to 100%	527	28	55	100	9	94	11	44	4	56	125
Building always open with no off hours	156	8	18	30	3	33	4	19	1	10	29
Electricity not used	N	N	N	N	N	N	N	N	N	N	N
Heating equipment (more than one may apply)											
Packaged heating units	2,261	162	330	403	52	399	58	248	25	110	475
Furnaces	642	48	82	105	21	131	11	78	9	31	126
Individual space heaters	884	81	108	144	22	165	19	81	11	67	185
Boilers	1,299	59	178	273	18	219	30	88	15	88	331
Heat pumps	761	61	109	137	24	133	16	61	10	60	151
District heat	365	6	26	91	4	55	6	16	5	35	123
Duct reheat	434	47	48	87	10	70	6	33	5	35	94
Other	103	8	4	9	2	12	Q	24	1	1	Q
Cooling equipment (more than one may apply)											
Packaged air-conditioning units	2,622	167	386	476	57	470	65	277	30	170	524
Residential-type central air conditioners	730	44	108	129	18	134	16	75	10	50	147
Individual air conditioners	596	42	85	105	19	114	15	54	7	35	120
Central chillers	980	32	153	230	10	149	19	53	11	105	217
Heat pumps	522	35	70	102	12	88	12	37	6	48	111
District chilled water	252	6	5	52	2	35	4	13	3	27	104
Swamp coolers	92	5	13	15	1	17	2	16	1	5	18
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
HVAC features (more than one may apply)											
Economizer cycle	1,745	88	214	375	28	277	43	141	20	160	400
Variable air volume (VAV) system	1,492	72	202	308	22	232	30	88	18	136	384
Dedicated outside air system (DOAS)	521	24	58	102	5	73	20	51	6	36	146
Demand controlled ventilation (DCV)	481	23	66	88	8	84	9	36	5	57	107
Regular HVAC maintenance	3,608	204	519	676	72	618	82	326	42	255	814
Building automation system (BAS) controls heating or cooling	2,156	107	276	439	34	333	49	161	24	200	533
Internet-connected or smart thermostat	242	14	43	40	5	43	6	32	2	8	48
Programmable thermostat	743	53	119	122	20	150	15	74	10	31	148
Main equipment replaced since 2000 (more than one may apply)											
Heating	1,294	87	188	240	29	239	28	118	17	72	277
Cooling	916	48	149	182	17	163	21	69	12	68	186
Water-heating equipment											
Centralized system	2,569	158	367	458	45	431	62	250	30	163	605
Distributed system	654	41	91	104	24	117	15	61	7	50	145
Combination of centralized and distributed systems	697	30	95	154	12	125	13	55	9	53	152

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All buildings	4,081	239	580	728	80	709	90	369	47	270	969
Generation technologies (more than one may apply)											
Reciprocating engine generators	1,411	69	176	286	19	210	28	100	15	154	353
Solar panels	163	7	21	35	3	30	3	17	2	10	35
Other generation technology	128	9	11	26	4	22	3	7	2	Q	31
Lighting equipment types (more than one may apply)											
Incandescent	1,061	58	129	185	28	230	26	92	14	68	231
Standard fluorescent	3,163	187	450	581	67	547	65	274	38	219	736
Compact fluorescent	1,697	92	218	340	37	303	36	135	21	134	381
High-intensity discharge (HID)	563	22	73	111	7	111	10	32	5	55	137
Halogen	789	39	105	140	21	164	22	76	10	53	159
LED	2,934	164	390	555	60	487	67	274	35	222	680
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration equipment (more than one may apply)											
Any refrigeration	3,578	205	492	658	73	613	88	369	42	222	816
Walk-in units	1,862	93	228	359	41	278	70	275	18	86	413
Cases or cabinets	1,702	89	204	325	36	264	59	253	18	102	353
Large cold storage areas	293	11	24	37	4	34	9	75	2	10	86
Commercial ice makers	1,940	102	264	388	41	304	64	244	21	102	410
Residential-type or compact units	2,810	168	395	525	58	501	59	236	36	188	644
Vending machines	2,086	104	280	432	37	368	39	182	23	141	479
No refrigeration	503	34	88	70	8	95	1	N	5	48	153
Office equipment (more than one may apply)											
Desktop computers	3,702	210	515	687	73	646	82	336	44	253	855
With multiple monitors	2,403	123	311	491	41	421	41	167	31	201	575
Laptop computers	3,100	172	428	602	61	552	59	241	39	241	706
Dedicated servers	2,482	137	324	482	44	434	43	199	32	244	544
Tablets charged in building	2,376	131	307	471	48	417	49	193	30	193	536
Large floor-standing office devices ^c	2,450	139	331	490	45	436	38	170	35	199	568
Smaller desktop office devices ^c	3,348	190	462	626	67	594	70	296	42	220	780
Interactive whiteboards	735	39	103	151	12	121	15	39	11	67	179
Televisions or video displays	3,020	175	412	587	63	525	64	267	40	215	672
Point-of-sale devices or cash registers	1,916	109	242	365	43	311	64	252	24	101	405
Food preparation or serving areas in non-food service buildings (more than one may apply)											
Snack bar, concession stand, or coffee shop	545	27	66	119	10	86	16	63	6	35	117
Fast food or small restaurant	598	32	58	141	15	106	16	72	7	29	122
Cafeteria or large restaurant	678	30	100	157	10	113	18	44	8	48	149
Commercial kitchen or food preparation area	975	44	131	215	19	163	25	110	10	48	210
Small kitchen area	842	52	115	169	23	146	26	72	11	55	174

Table E3. Electricity consumption (in British thermal units [Btu]) by end use, 2018

Total electricity consumption (trillion Btu)											
	Total	Space heating	Cooling	Ventilation	Water heating	Lighting	Cooking	Refrigeration	Office equipment	Computing	Other
All buildings	4,081	239	580	728	80	709	90	369	47	270	969
Separate computer areas (more than one may apply)											
Server closet	2,237	127	296	453	44	403	41	188	29	153	503
Data center	630	23	67	150	7	99	11	36	8	63	168
Computer-based training room	786	40	106	168	15	138	16	53	10	62	179
Student or public computer center	523	28	85	93	10	88	13	38	7	38	122
Window and interior lighting features (more than one may apply)											
Multipaned windows	3,291	200	450	605	70	556	77	304	39	236	754
Tinted window glass	2,125	129	307	401	44	361	42	188	27	159	467
Reflective window glass	950	56	107	188	22	159	19	75	11	87	226
External overhangs or awnings	1,397	84	192	246	36	239	38	162	19	83	298
Skylights or atriums	876	43	116	186	12	152	18	69	10	65	205
Light scheduling	1,778	93	215	365	39	281	44	162	21	161	397
Occupancy sensors	2,088	111	257	432	38	338	38	170	26	165	511
Multilevel lighting or dimming	760	39	96	166	12	109	22	67	9	53	186
Daylight harvesting	405	19	43	92	7	63	6	34	5	46	90
Plug-load control	123	5	13	22	3	14	3	8	1	Q	35
Demand responsive lighting	86	4	10	19	2	15	2	8	1	5	21
Building automation system (BAS) for lighting	916	48	114	192	20	146	24	91	10	66	205
Electric vehicle (EV) charging											
Charging stations associated with the building	449	21	52	100	7	80	9	37	5	36	101
Annual consumption (kilowatthours)											
10,000 or less	13	1	1	1	(*)	4	(*)	(*)	(*)	(*)	6
10,001 to 50,000	198	13	34	22	3	47	2	11	4	8	54
50,001 to 100,000	242	19	40	30	5	50	3	24	4	10	58
100,001 to 500,000	926	61	155	136	24	166	25	112	13	44	190
500,001 to 1,000,000	602	49	94	101	14	102	22	50	7	36	128
1,000,001 to 5,000,000	1,272	69	167	240	26	220	24	128	12	75	311
Over 5,000,000	828	28	88	198	10	119	15	44	8	97	221

Data source: U.S. Energy Information Administration, Forms EIA-871A and E of the 2018 Commercial Buildings Energy Consumption Survey

Notes: Because of rounding, data may not sum to totals. The *Guide to the 2018 CBECS Tables* and *CBECS Terminology* contain definitions of terms used in these tables and comparisons between previous CBECS tables. You can access both references from <http://www.eia.gov/consumption/commercial/data/2018/>.

Estimates for types of equipment represent consumption in buildings that have the equipment, not the consumption by the specific piece of equipment.

HVAC = Heating, ventilation, and air conditioning.

^aClimate zones are based on ASHRAE Standard 169-2021; see <https://www.eia.gov/consumption/commercial/maps.php#defined>.

^bOther sources includes wood, coal, solar, and all other energy sources.

^cOffice devices refers to any combination of printers, copiers, scanners, or FAX machines.

Q = Data withheld either because the relative standard error was greater than 50% or the reporting sample had fewer than 20 buildings.

N = No buildings in reporting sample.

(*) = Value rounds to zero in the units displayed.