

Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Consumption (trillion Btu)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Building Floorspace (Square Feet)								
1,001 to 5,000	2,552	6,789	672	1,164	386	250	34	Q
5,001 to 10,000	889	6,585	516	790	262	209	36	Q
10,001 to 25,000	738	11,535	776	1,229	407	309	27	Q
25,001 to 50,000	241	8,668	673	1,058	350	258	16	Q
50,001 to 100,000	129	9,057	759	1,223	405	244	26	Q
100,001 to 200,000	65	9,064	934	1,458	483	249	37	165
200,001 to 500,000	25	7,176	725	1,090	361	205	36	123
Over 500,000	7	5,908	766	1,157	383	204	10	169
Principal Building Activity								
Education	386	9,874	820	1,121	371	268	47	134
Food Sales	226	1,255	251	629	208	39	Q	N
Food Service	297	1,654	427	654	217	203	Q	Q
Health Care	129	3,163	594	748	248	243	11	Q
Inpatient	8	1,905	475	539	178	204	9	Q
Outpatient	121	1,258	119	209	69	38	Q	Q
Lodging	142	5,096	510	709	235	215	35	Q
Retail (Other Than Mall).....	443	4,317	319	637	211	91	Q	Q
Office	824	12,208	1,134	2,170	719	269	18	128
Public Assembly	277	3,939	370	506	167	102	29	Q
Public Order and Safety	71	1,090	126	172	57	29	8	Q
Religious Worship	370	3,754	163	188	62	82	18	Q
Service	622	4,050	312	451	149	139	Q	Q
Warehouse and Storage	597	10,078	456	738	244	132	9	Q
Other	79	1,738	286	401	133	87	Q	Q
Vacant	182	2,567	54	46	15	28	Q	Q
Year Constructed								
Before 1920	330	3,769	302	271	90	143	38	Q
1920 to 1945	527	6,871	620	626	208	229	54	129
1946 to 1959	562	7,045	565	696	231	216	48	Q
1960 to 1969	579	8,101	737	989	327	255	Q	117
1970 to 1979	731	10,772	1,023	1,726	572	351	22	77
1980 to 1989	707	10,332	1,034	1,892	627	291	9	Q
1990 to 1999	876	12,360	1,098	2,082	690	314	9	Q
2000 to 2003	334	5,533	441	884	293	127	Q	Q
Census Region and Division								
Northeast	726	12,905	1,271	1,519	503	428	175	165
New England	233	2,964	294	326	108	75	69	Q
Middle Atlantic	493	9,941	978	1,192	395	353	106	Q
Midwest	1,266	17,080	1,690	2,224	737	705	24	225
East North Central	696	11,595	1,254	1,580	524	528	Q	192
West North Central	571	5,485	436	643	213	177	Q	Q
South	1,775	23,489	1,948	3,858	1,278	474	14	182
South Atlantic	874	12,258	1,064	2,166	717	217	13	117
East South Central	348	3,393	309	515	171	102	1	Q
West South Central	553	7,837	575	1,177	390	156	1	Q
West	878	11,310	911	1,568	519	320	9	Q
Mountain	299	3,675	381	576	191	167	Q	Q
Pacific	580	7,635	530	992	329	153	4	Q

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				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	855	10,622	990	1,232	408	431	63	88
5,500-7,000 HDD	1,173	17,335	1,761	2,305	763	679	63	255
4,000-5,499 HDD	673	11,504	1,134	1,713	567	337	90	140
Fewer than 4,000 HDD	1,276	15,739	1,213	2,259	748	358	6	101
2,000 CDD or More and --								
Fewer than 4,000 HDD	669	9,584	724	1,659	549	122	1	Q
Number of Floors								
One	3,136	25,981	1,937	3,442	1,140	664	47	Q
Two	1,031	16,270	1,311	2,080	689	491	69	Q
Three	339	7,501	619	863	286	241	39	Q
Four to Nine	128	10,085	1,336	1,796	595	378	55	308
Ten or More	12	4,947	617	987	327	154	13	123
Elevators and Escalators (more than one may apply)								
Any Elevators	309	24,617	2,826	4,289	1,421	830	84	491
Number of Elevators								
One	208	8,221	732	1,069	354	244	23	111
Two to Five	88	10,129	1,157	1,767	585	333	46	194
Six or More	13	6,268	937	1,453	481	254	16	186
Any Escalators	6	2,350	282	583	193	61	Q	Q
Number of Workers (main shift)								
Fewer than 5	2,653	15,492	817	1,122	372	272	69	Q
5 to 9	778	6,166	468	749	248	198	17	Q
10 to 19	563	7,803	594	915	303	242	33	Q
20 to 49	398	10,989	1,050	1,581	524	395	36	96
50 to 99	147	7,934	728	1,218	403	241	27	Q
100 to 249	77	6,871	838	1,388	460	235	19	124
250 or More	30	9,528	1,325	2,195	727	344	22	232
Weekly Operating Hours								
Fewer than 40	1,002	6,863	228	272	90	107	15	Q
40 to 48	1,117	11,622	773	1,199	397	249	58	Q
49 to 60	1,062	15,723	1,179	1,805	598	374	32	176
61 to 84	591	10,334	924	1,500	497	314	40	73
85 to 167	400	7,092	889	1,579	523	257	18	91
Open Continuously	475	13,149	1,827	2,813	932	626	59	210
Ownership and Occupancy								
Nongovernment Owned	4,011	49,421	4,203	6,944	2,300	1,503	154	247
Owner Occupied	1,841	23,591	2,060	3,280	1,086	708	81	185
Nonowner Occupied	2,029	23,914	2,115	3,639	1,205	779	72	Q
Unoccupied	141	1,916	Q	25	8	Q	Q	Q
Government Owned	635	15,363	1,617	2,224	737	425	69	387
Federal	46	1,956	303	395	131	35	Q	Q
State	164	3,808	513	616	204	98	23	188
Local	425	9,599	800	1,213	402	291	39	Q
Vacancy Status								
Completely Vacant	157	2,161	37	28	9	18	Q	Q
Mostly Vacant	25	406	Q	Q	Q	Q	Q	N
Partially Vacant	548	12,382	1,086	1,736	575	318	30	164
Not At All Vacant	3,915	49,834	4,681	7,386	2,446	1,582	191	461

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	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Number of Establishments								
One	3,754	45,144	4,167	6,454	2,138	1,462	183	384
2 to 5	643	10,960	992	1,517	502	307	28	156
6 to 10	55	1,958	216	348	115	48	Q	Q
11 to 20	23	1,951	152	295	98	34	Q	Q
More than 20	14	2,609	257	526	174	58	Q	Q
Currently Unoccupied	157	2,161	37	28	9	18	Q	Q
Predominant Exterior Wall Material								
Brick, Stone or Stucco	2,044	32,817	3,186	4,549	1,507	1,127	144	408
Concrete (Block or Poured)	786	10,832	974	1,599	530	351	24	Q
Concrete Panels	131	6,559	667	1,205	399	180	Q	Q
Siding or Shingles	779	4,120	276	452	150	85	41	Q
Metal Panels	825	7,912	463	897	297	130	8	Q
Window Glass	17	1,024	95	201	67	14	0	Q
Other	47	1,113	121	190	63	35	Q	Q
No One Major Type	18	406	Q	Q	Q	Q	Q	Q
Predominant Roof Material								
Built-Up	1,036	21,170	2,083	3,143	1,041	743	37	263
Shingles (Not Wood)	1,325	10,195	823	1,247	413	310	63	Q
Metal Surfacing	1,288	11,944	630	1,184	392	194	21	Q
Synthetic or Rubber	511	14,730	1,649	2,686	890	542	46	171
Slate or Tile	263	2,462	207	313	104	67	12	Q
Wooden Materials	122	887	68	111	37	21	Q	Q
Concrete	61	2,231	236	299	99	24	Q	Q
Other	16	598	Q	125	41	Q	Q	Q
No One Major Type	25	565	40	61	20	16	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)								
Any Type of Renovation								
Since 1980	1,018	17,844	1,766	2,356	780	684	105	197
Addition or Annex	256	6,551	733	951	315	304	Q	Q
Reduction In Floorspace	22	1,012	117	158	52	52	Q	Q
Cosmetic Improvements	741	13,119	1,317	1,812	600	497	77	143
Wall or Roof Replacement	370	8,070	777	1,046	347	278	54	99
Interior Wall								
Re-Configuration	411	8,518	911	1,212	401	342	44	124
HVAC Equipment Upgrade	442	10,768	1,156	1,591	527	467	34	128
Lighting Upgrade	455	10,275	1,085	1,442	478	397	53	157
Window Replacement	310	6,354	613	757	251	242	50	Q
Plumbing System Upgrade	315	7,144	748	947	314	287	45	103
Insulation Upgrade	227	4,015	381	526	174	132	21	Q
Other Renovation	19	523	50	49	16	26	Q	Q
No Renovations Since 1980	1,710	18,714	1,482	1,953	647	512	94	229
Building Newer than 1980	1,917	28,225	2,573	4,859	1,609	732	23	208

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	All Buildings*		Total Energy Consumption (trillion Btu)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Energy Sources (more than one may apply)								
Electricity	4,404	63,307	5,820	9,168	3,037	1,927	222	634
Natural Gas	2,391	43,468	4,492	6,524	2,161	1,928	99	305
Fuel Oil	451	15,157	1,760	2,578	854	507	222	177
District Heat	67	5,443	1,017	1,011	335	47	1	634
District Chilled Water	33	2,853	538	580	192	35	2	309
Propane	502	7,076	584	1,022	339	106	54	Q
Other	132	1,401	139	233	77	47	Q	Q
Space-Heating Energy Sources (more than one may apply)								
Electricity	1,766	28,600	2,373	4,696	1,555	667	29	122
Natural Gas	2,165	36,959	3,682	5,401	1,789	1,803	30	Q
Fuel Oil	360	5,988	591	588	195	176	212	Q
District Heat	65	5,198	994	967	320	39	1	633
Propane	372	3,204	160	362	120	Q	11	Q
Other	113	842	61	122	41	18	Q	N
Primary Space-Heating Energy Source								
Electricity	1,258	15,996	1,089	2,739	907	177	3	Q
Natural Gas	1,999	32,970	3,280	4,724	1,565	1,687	15	Q
Fuel Oil	282	3,818	294	232	77	20	197	N
District Heat	63	4,907	951	935	310	23	1	618
Propane	308	1,955	71	211	70	Q	Q	Q
Other	72	382	19	47	16	Q	Q	N
Cooling Energy Sources (more than one may apply)								
Electricity	3,589	54,321	5,021	8,386	2,778	1,762	174	307
Natural Gas	17	1,018	159	189	63	92	Q	Q
District Chilled Water	33	2,853	538	580	192	35	2	309
Water-Heating Energy Sources (more than one may apply)								
Electricity	1,910	27,490	2,145	4,146	1,373	522	84	167
Natural Gas	1,445	28,820	3,206	4,592	1,521	1,509	56	Q
Fuel Oil	94	1,880	206	176	58	36	109	Q
District Heat	27	3,088	563	603	200	33	Q	329
Propane	128	1,422	81	191	63	Q	Q	Q
Cooking Energy Sources (more than one may apply)								
Electricity	410	13,161	1,579	2,561	848	538	47	146
Natural Gas	457	15,438	2,074	2,970	984	856	76	158
Propane	108	1,460	114	240	80	Q	25	Q
Energy End Uses (more than one may apply)								
Buildings with Space Heating	3,982	60,028	5,705	8,887	2,944	1,909	219	634
Buildings with Cooling	3,625	56,940	5,464	8,855	2,933	1,821	176	535
Buildings with Water Heating	3,472	56,478	5,498	8,732	2,892	1,870	213	523
Buildings with Cooking	801	22,237	2,712	4,158	1,377	997	119	219
Buildings with Manufacturing	119	3,138	254	426	141	100	7	Q
Buildings with Electricity Generation	149	12,821	1,693	2,687	890	534	31	237

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				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Percent of Floorspace Heated								
Not Heated	663	4,756	115	281	93	Q	Q	Q
1 to 50	523	6,850	299	565	187	97	13	Q
51 to 99	498	8,107	746	1,193	395	268	26	57
100	2,962	45,071	4,660	7,129	2,361	1,544	180	575
Percent of Floorspace Cooled								
Not Cooled	1,020	7,843	356	312	104	107	46	Q
1 to 50	985	16,598	1,026	1,339	444	452	93	Q
51 to 99	629	13,211	1,413	2,252	746	451	45	171
100	2,011	27,132	3,026	5,265	1,744	918	38	326
Percent Lit When Open								
Zero	47	293	Q	Q	Q	Q	Q	Q
1 to 50	929	10,203	540	679	225	224	50	Q
51 to 99	1,108	18,288	1,736	2,698	894	576	67	199
100	2,176	32,789	3,490	5,740	1,901	1,100	104	385
Building Never Open/ Electricity Not Used	386	3,210	46	37	12	23	Q	Q
Percent Lit When Closed								
Zero	1,964	17,385	1,132	1,639	543	395	48	Q
1 to 50	1,882	30,948	2,626	4,248	1,407	868	107	244
51 to 100	136	2,093	235	468	155	40	Q	Q
Building Never Closed/ Electricity Not Used	664	14,357	1,827	2,813	932	626	60	210
Heating Equipment (more than one may apply)								
Heat Pumps	476	8,814	805	1,578	523	224	6	Q
Packaged Heat Pumps	278	5,442	523	1,085	359	140	3	Q
Split-System Heat Pumps	166	2,581	198	410	136	42	Q	Q
Individual Room Heat Pumps	58	2,691	255	448	148	84	Q	Q
Furnaces	1,864	19,615	1,493	2,298	761	673	50	Q
Individual Space Heaters	819	12,545	1,024	1,701	563	379	31	50
District Heat	65	5,166	986	958	317	39	1	628
Boilers	579	20,423	2,244	3,045	1,009	1,040	171	Q
Packaged Heating Units	953	18,021	1,729	3,195	1,058	582	17	Q
Other	205	3,262	231	508	168	47	5	Q
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	1,006	11,035	924	1,375	455	391	56	Q
Heat Pumps	492	9,041	837	1,652	547	234	6	Q
Packaged Heat Pumps	288	5,426	529	1,086	360	145	Q	Q
Split-System Heat Pumps	174	2,606	204	421	139	45	Q	Q
Individual Room Heat Pumps	58	2,940	278	518	171	85	Q	Q
Individual Air Conditioners	742	12,558	1,080	1,445	479	410	99	91
District Chilled Water	33	2,853	538	580	192	35	2	309
Central Chillers	111	11,636	1,531	2,524	836	501	26	169
Packaged Air Conditioning Units	1,613	29,969	2,862	4,765	1,578	1,090	85	110
Swamp Coolers	122	1,561	158	227	75	81	Q	Q
Other	40	1,232	142	225	75	52	Q	Q

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				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Main Equipment Replaced Since 1990 (more than one may apply)								
Heating	1,197	16,403	1,367	2,161	716	605	43	Q
Cooling	1,356	20,995	1,949	2,947	976	779	103	91
Water Heating Equipment								
Centralized System	2,513	34,671	3,432	5,310	1,759	1,226	161	286
Distributed System	785	11,540	835	1,458	483	254	31	Q
Combination of Centralized and Distributed System	175	10,267	1,231	1,964	651	390	20	170
Lighting Equipment Types (more than one may apply)								
Incandescent	2,184	38,528	3,916	6,057	2,006	1,351	161	398
Standard Fluorescent	3,943	59,688	5,644	8,909	2,951	1,865	214	614
Compact Fluorescent	941	27,571	3,208	5,027	1,665	1,025	98	419
High Intensity Discharge	455	20,643	2,141	3,400	1,126	693	52	270
Halogen	565	17,703	1,982	3,226	1,069	666	65	182
Other	8	269	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)^a								
Any Refrigeration.....	3,176	52,974	5,213	8,366	2,771	1,729	200	513
Commercial Refrigeration	1,007	26,768	3,336	5,397	1,788	1,124	126	299
Walk-In Units	666	20,254	2,766	4,496	1,489	939	95	243
Cases or Cabinets	825	20,424	2,703	4,349	1,441	910	95	257
Residential-Type Units	2,370	38,884	3,466	5,342	1,769	1,181	159	357
Vending Machines	996	35,335	3,721	5,992	1,985	1,163	105	468
No Refrigeration	1,469	11,809	607	802	266	198	23	Q
Office Equipment (more than one may apply)								
Computers	3,081	55,627	5,376	8,567	2,838	1,750	196	593
With Flat Screen Monitors	877	26,417	2,966	4,797	1,589	872	88	417
Dedicated Servers	1,175	36,338	3,760	6,143	2,035	1,190	105	431
Laser Printers	1,970	33,012	3,009	4,679	1,550	1,067	124	268
Inkjet Printers	1,420	32,210	3,302	5,495	1,820	1,041	74	368
FAX Machines	2,715	52,373	5,092	8,154	2,701	1,689	184	517
Photocopiers	1,939	46,257	4,466	7,128	2,361	1,429	155	521
Number of Computers								
None	1,565	9,156	444	601	199	178	27	Q
1 to 4	1,670	12,395	1,015	1,578	523	357	74	Q
5 to 9	559	7,179	546	826	274	249	15	Q
10 to 19	370	6,610	515	859	285	196	13	Q
20 to 49	255	7,414	707	1,233	408	232	15	Q
50 to 99	110	5,376	513	781	259	147	35	Q
100 to 249	79	6,690	714	1,111	368	208	17	121
250 or More	38	9,963	1,366	2,179	722	360	27	257
Number of Dedicated Servers								
None	3,471	28,445	2,060	3,025	1,002	738	118	203
1 to 4	1,060	24,116	2,234	3,520	1,166	809	74	184
5 to 9	58	3,864	405	756	250	112	14	Q
10 to 19	30	3,027	432	653	216	101	5	109
20 to 49	17	2,583	307	552	183	76	7	Q
50 or More	10	2,748	382	662	219	91	5	Q

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				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Number of Photocopiers								
None	2,706	18,526	1,355	2,040	676	498	68	Q
One	1,250	15,475	1,130	1,792	593	429	55	Q
2 to 4	549	15,082	1,334	2,132	706	451	41	137
5 to 9	85	5,515	612	976	323	191	35	Q
10 or More	54	10,185	1,389	2,229	738	359	25	268
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	799	22,223	2,711	4,155	1,376	996	119	219
Activities with Large Amounts of Hot Water	567	19,482	2,465	3,522	1,167	931	95	273
Separate Computer Area	553	26,873	2,895	4,678	1,550	875	96	374
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	466	19,597	2,380	3,827	1,267	710	35	368
Economizer Cycle	508	21,108	2,589	4,251	1,408	805	42	334
HVAC Maintenance	2,581	51,163	5,170	8,161	2,703	1,659	196	612
Energy Management and Control System (EMCS)	252	15,630	1,782	2,881	954	477	31	320
Window and Interior Lighting Features (more than one may apply)								
Multipaned Windows	2,201	38,910	3,929	6,109	2,024	1,349	171	386
Tinted Window Glass	1,323	29,887	3,098	5,077	1,682	947	44	425
Reflective Window Glass	308	8,544	927	1,576	522	306	16	83
External Overhangs or Awnings	1,233	17,242	1,737	2,900	961	594	59	124
Skylights or Atriums	331	12,546	1,307	1,948	645	465	48	148
Daylighting Sensors	74	2,868	377	623	206	124	3	Q
Specular Reflectors	928	26,118	2,829	4,488	1,487	862	89	391
Electronic Ballasts	2,577	46,882	4,746	7,543	2,498	1,513	156	578
Energy Management and Control System (EMCS) For Lighting	60	4,781	538	939	311	133	6	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a								
Heating	2,878	42,722	3,740	5,828	1,930	1,292	162	356
Cooling	2,761	43,205	3,844	6,132	2,031	1,288	135	390
Lighting	3,685	46,987	3,818	6,057	2,006	1,250	156	406
Office Equipment	1,504	19,397	1,465	2,177	721	476	92	Q

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Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Consumption (trillion Btu)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - <http://www.eia.doe.gov/emeu/cbecs>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

N=No responding cases in sample that use the particular energy source.

Notes: • Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the generation, transmission, and distribution processes. • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.