

Table B42. Water Heating Equipment, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	Buildings with Water Heating	Type of Water Heating Equipment			All Buildings*	Buildings with Water Heating	Type of Water Heating Equipment		
			Centralized System	Distributed System	Combination Centralized and Distributed Systems			Centralized System	Distributed System	Combination Centralized and Distributed Systems
All Buildings*	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	1,715	1,267	418	Q	6,789	4,759	3,452	1,206	Q
5,001 to 10,000	889	725	557	150	Q	6,585	5,348	4,154	1,057	Q
10,001 to 25,000	738	607	429	133	44	11,535	9,562	6,649	2,205	708
25,001 to 50,000	241	217	144	43	31	8,668	7,734	5,130	1,524	1,081
50,001 to 100,000	129	119	70	27	22	9,057	8,412	5,020	1,853	1,538
100,001 to 200,000	65	60	31	11	18	9,064	8,300	4,214	1,702	2,384
200,001 to 500,000	25	23	13	3	7	7,176	6,680	3,584	900	2,196
Over 500,000	7	6	3	1	2	5,908	5,683	2,469	1,093	2,121
Principal Building Activity										
Education	386	298	184	81	34	9,874	9,481	5,343	1,766	2,372
Food Sales	226	186	148	Q	Q	1,255	1,130	844	Q	Q
Food Service	297	297	237	46	Q	1,654	1,654	1,291	226	Q
Health Care	129	127	103	14	9	3,163	3,160	2,001	247	912
Inpatient	8	8	4	Q	3	1,905	1,905	1,041	Q	755
Outpatient	121	119	100	Q	Q	1,258	1,255	960	Q	Q
Lodging	142	142	110	16	16	5,096	5,096	3,660	302	1,135
Retail (Other Than Mall).....	443	314	227	77	Q	4,317	3,459	2,240	902	Q
Office	824	733	533	166	34	12,208	11,804	6,899	2,237	2,667
Public Assembly	277	227	165	54	7	3,939	3,632	2,380	932	320
Public Order and Safety	71	70	59	Q	Q	1,090	957	663	Q	Q
Religious Worship	370	315	221	78	16	3,754	3,512	2,352	835	325
Service	622	418	281	126	Q	4,050	3,320	1,989	1,025	Q
Warehouse and Storage	597	243	167	68	7	10,078	6,624	3,366	2,359	900
Other	79	55	36	Q	6	1,738	1,630	908	Q	494
Vacant	182	47	39	Q	Q	2,567	1,020	734	Q	Q
Year Constructed										
Before 1920	330	266	193	65	8	3,769	3,353	2,102	810	442
1920 to 1945	527	367	255	89	23	6,871	5,292	3,251	1,130	912
1946 to 1959	562	416	302	93	20	7,045	5,924	3,536	1,282	1,106
1960 to 1969	579	444	317	106	21	8,101	7,202	4,446	1,604	1,152
1970 to 1979	731	582	446	109	27	10,772	9,787	6,608	1,383	1,796
1980 to 1989	707	531	389	120	22	10,332	9,420	5,489	1,883	2,048
1990 to 1999	876	642	446	155	41	12,360	10,816	6,203	2,677	1,937
2000 to 2003	334	224	165	48	12	5,533	4,683	3,037	771	875

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			Centralized System	Distributed System	Combination Centralized and Distributed Systems			Centralized System	Distributed System	Combination Centralized and Distributed Systems
All Buildings*	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
Census Region and Division										
Northeast	726	600	480	97	22	12,905	11,789	7,770	2,325	1,695
New England	233	188	154	29	5	2,964	2,724	1,839	Q	375
Middle Atlantic	493	411	326	68	18	9,941	9,065	5,930	1,815	1,319
Midwest	1,266	987	698	241	48	17,080	14,928	9,724	2,670	2,534
East North Central	696	572	389	159	25	11,595	10,208	6,695	1,750	1,763
West North Central	571	415	310	82	23	5,485	4,720	3,029	920	771
South	1,775	1,217	854	304	60	23,489	19,913	11,537	4,564	3,812
South Atlantic	874	643	455	153	35	12,258	10,714	5,649	2,432	2,633
East South Central	348	227	174	38	14	3,393	2,858	1,890	469	499
West South Central	553	347	224	113	10	7,837	6,341	3,998	1,664	679
West	878	668	480	143	45	11,310	9,848	5,640	1,981	2,227
Mountain	299	256	189	46	21	3,675	3,422	1,928	566	928
Pacific	580	413	291	97	24	7,635	6,426	3,712	1,415	1,299
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	855	683	543	107	34	10,622	9,474	6,315	1,468	1,691
5,500-7,000 HDD	1,173	926	647	225	54	17,335	15,160	9,553	2,954	2,654
4,000-5,499 HDD	673	554	405	121	28	11,504	10,785	6,774	2,015	1,996
Fewer than 4,000 HDD	1,276	883	635	208	40	15,739	13,192	7,444	3,009	2,739
2,000 CDD or More and --										
Fewer than 4,000 HDD	669	426	284	125	18	9,584	7,867	4,585	2,094	1,187
Number of Floors										
One	3,136	2,134	1,542	511	81	25,981	20,164	13,206	4,825	2,134
Two	1,031	899	645	210	44	16,270	14,914	8,809	3,882	2,224
Three	339	304	228	52	24	7,501	6,915	4,353	1,268	1,294
Four to Nine	128	124	92	11	21	10,085	9,688	5,826	1,111	2,751
Ten or More	12	11	6	1	4	4,947	4,796	2,477	454	1,865
Number of Workers (main shift)										
Fewer than 5	2,653	1,653	1,204	420	29	15,492	9,525	6,885	2,417	224
5 to 9	778	675	509	137	29	6,166	5,393	4,019	1,095	279
10 to 19	563	514	390	103	21	7,803	7,182	5,224	1,391	567
20 to 49	398	384	265	78	41	10,989	10,480	6,210	2,827	1,442
50 to 99	147	142	89	29	24	7,934	7,688	4,468	1,408	1,812
100 to 249	77	75	43	14	18	6,871	6,815	3,679	1,090	2,046
250 or More	30	30	13	3	13	9,528	9,395	4,186	1,312	3,897
Weekly Operating Hours										
Fewer than 40	1,002	580	421	148	11	6,863	4,305	2,952	1,144	209
40 to 48	1,117	856	583	247	26	11,622	9,989	5,995	2,945	1,050
49 to 60	1,062	845	585	200	60	15,723	13,564	7,404	3,538	2,622
61 to 84	591	506	397	80	29	10,334	9,477	6,321	1,416	1,740
85 to 167	400	330	259	52	19	7,092	6,635	4,288	1,173	1,174
Open Continuously	475	356	268	58	30	13,149	12,508	7,712	1,324	3,473

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			Centralized System	Distributed System	Combination Centralized and Distributed Systems			Centralized System	Distributed System	Combination Centralized and Distributed Systems
All Buildings*	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
Multibuilding Facility										
Not Part of a Multibuilding Facility										
Facility	3,169	2,505	1,882	517	107	40,048	35,302	22,726	6,725	5,851
College or University	83	64	45	10	9	3,480	3,372	2,303	410	659
Primary or Secondary School	254	169	92	58	18	3,947	3,607	1,898	1,001	707
Office Complex	111	101	67	23	11	2,712	2,541	1,177	554	809
Retail Complex	151	87	64	Q	Q	1,238	855	483	Q	Q
Religious Campus or Complex	195	169	126	33	Q	2,347	2,206	1,562	406	Q
Health Care Complex	39	37	27	Q	6	2,303	2,294	1,252	Q	843
Lodging or Resort Complex	61	60	50	Q	Q	912	909	652	Q	Q
Government Complex	87	60	40	17	Q	2,014	1,348	807	408	Q
Other	496	222	119	96	6	5,783	4,044	1,810	1,526	708
Energy Sources (more than one may apply)										
Electricity	4,404	3,470	2,511	785	175	63,307	56,463	34,656	11,540	10,267
Natural Gas	2,391	2,126	1,560	438	128	43,468	41,134	25,353	7,559	8,222
Fuel Oil	451	376	290	61	26	15,157	14,560	8,411	2,183	3,965
District Heat	67	61	43	5	12	5,443	4,631	2,671	483	1,477
District Chilled Water	33	31	19	4	8	2,853	2,655	1,518	429	709
Propane	502	428	321	86	20	7,076	6,292	3,626	1,413	1,253
Other	132	95	67	25	Q	1,401	1,306	849	242	Q
Water-Heating Energy Sources (more than one may apply)										
Electricity	1,910	1,910	1,265	550	94	27,490	27,490	14,245	7,842	5,404
Natural Gas	1,445	1,445	1,103	240	102	28,820	28,820	17,917	4,435	6,468
Fuel Oil	94	94	91	Q	2	1,880	1,880	1,591	Q	248
District Heat	27	27	22	Q	3	3,088	3,088	2,073	Q	859
Propane	128	128	98	Q	Q	1,422	1,422	973	Q	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	3,337	2,423	743	171	60,028	55,154	33,965	11,021	10,167
Buildings with Cooling	3,625	3,112	2,266	675	171	56,940	53,232	32,513	10,654	10,065
Buildings with Water Heating	3,472	3,472	2,513	785	175	56,478	56,478	34,671	11,540	10,267
Buildings with Cooking	801	787	595	122	69	22,237	21,914	12,932	3,163	5,819
Buildings with Manufacturing	119	102	63	27	12	3,138	2,987	1,053	1,065	869
Buildings with Electricity Generation	149	143	105	15	23	12,821	12,612	7,062	1,566	3,984

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Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	799	785	593	122	69	22,223	21,901	12,919	3,163	5,819
Activities with Large Amounts of Hot Water	567	567	415	80	72	19,482	19,482	11,127	2,679	5,676
Separate Computer Area	553	516	348	105	63	26,873	26,129	14,844	4,200	7,085

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.

^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.

Notes: ● 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, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.