

Release date: September 2021

Revised date: December 2022

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ^a	Median operating hours per week	Median age of buildings (years)
All buildings	5,918	96,423	85,796	5.4	1,167	50	36
Building floorspace (square feet)							
1,001 to 5,000	2,833	8,025	9,717	2.6	750	45	38
5,001 to 10,000	1,359	10,204	9,085	7.5	1,500	49	36
10,001 to 25,000	981	15,838	12,244	15.0	1,967	50	34
25,001 to 50,000	386	13,957	10,744	35.0	2,217	60	33
50,001 to 100,000	218	15,302	12,846	66.6	1,515	60	31
100,001 to 200,000	93	13,003	11,428	138.0	1,692	65	28
200,001 to 500,000	40	11,776	10,508	270.7	1,710	75	31
Over 500,000	9	8,317	9,224	762.2	1,603	112	32
Principal building activity							
Education	437	13,623	10,370	8.8	1,060	50	37
Food sales	163	1,006	917	2.4	1,100	112	38
Food service	286	1,385	2,884	3.5	500	80	39
Health care	137	4,018	6,656	6.0	459	48	29
Inpatient	9	2,259	3,597	121.0	730	168	35
Outpatient	129	1,760	3,059	5.7	453	45	29
Lodging	207	6,976	2,764	13.6	1,987	168	27
Mercantile	517	10,781	8,882	8.8	1,232	55	37
Retail (other than mall)	350	5,193	3,251	6.0	1,700	55	43
Enclosed and strip malls	167	5,588	5,631	13.0	688	55	30
Office	970	16,662	32,843	5.0	609	45	38
Public assembly	488	7,192	3,338	6.1	2,072	45	43
Public order and safety	81	1,538	1,587	5.6	1,000	168	32
Religious worship	439	5,471	1,948	8.0	2,500	15	45
Service	867	6,240	4,736	4.2	1,378	45	35
Warehouse and storage	1,004	17,483	7,081	6.0	2,400	50	28
Other	113	2,435	1,598	6.0	1,429	54	28
Vacant	208	1,612	Q	3.6	4,000	0	40
Year constructed							
Before 1920	329	3,600	2,731	4.5	1,461	40	120
1920 to 1945	379	5,646	5,304	5.0	1,250	45	88
1946 to 1959	517	6,937	5,487	5.0	1,200	48	65
1960 to 1969	685	10,360	8,481	5.6	1,291	49	54
1970 to 1979	831	13,061	10,822	5.3	1,250	46	43
1980 to 1989	794	13,465	14,755	5.3	960	50	34
1990 to 1999	921	15,535	13,504	6.2	1,250	50	22
2000 to 2009	924	17,500	15,696	6.0	1,058	50	13
2010 to 2018	537	10,319	9,017	6.0	1,091	60	4

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All buildings	5,918	96,423	85,796	5.4	1,167	50	36
Census region and division							
Northeast	793	15,951	15,152	5.7	1,400	54	46
New England	275	3,749	3,616	5.0	1,400	60	44
Middle Atlantic	518	12,202	11,536	6.0	1,378	50	48
Midwest	1,719	25,932	19,924	5.3	1,386	48	38
East North Central	1,110	17,561	13,951	5.1	1,294	48	41
West North Central	609	8,372	5,973	5.5	1,422	50	34
South	2,143	34,907	30,820	5.0	1,071	48	33
South Atlantic	1,034	17,923	16,420	5.0	1,125	48	33
East South Central	347	5,404	3,923	5.5	1,091	46	36
West South Central	762	11,580	10,477	5.5	1,000	48	30
West	1,264	19,633	19,900	5.7	1,012	50	34
Mountain	484	7,680	8,119	6.6	1,055	54	33
Pacific	780	11,952	11,780	5.4	1,000	50	35
Climate zone^b							
Cold or very cold	539	7,044	5,445	5.0	1,250	50	40
Cool	1,727	26,768	22,477	5.3	1,378	50	39
Mixed mild	1,216	25,096	23,442	5.5	1,175	50	35
Warm	1,606	25,085	21,301	5.6	1,200	45	35
Hot or very hot	831	12,429	13,130	5.0	839	50	33
Number of floors							
1	4,106	43,576	34,034	4.8	1,106	49	33
2	1,286	23,300	18,268	8.0	1,276	50	42
3	370	10,516	8,316	12.0	1,500	50	66
4 to 9	142	13,031	15,293	53.1	1,160	65	44
10 or more	16	6,000	9,886	226.0	745	85	36
Elevators and escalators (more than one may apply)							
Any elevators	503	36,501	40,521	34.3	1,377	60	33
1 elevator	366	14,215	11,669	24.0	1,500	55	33
2 to 5 elevators	121	13,316	15,470	83.0	1,222	70	31
6 or more elevators	16	8,970	13,382	369.9	750	80	33
Any escalators	14	3,753	4,345	30.0	2,756	168	17

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All buildings	5,918	96,423	85,796	5.4	1,167	50	36
Number of workers (main shift)							
Fewer than 5	3,270	21,065	5,726	4.0	2,000	44	38
5 to 9	1,116	10,323	7,303	5.0	833	50	37
10 to 19	713	11,348	9,062	8.9	664	55	36
20 to 49	492	16,132	14,185	18.1	700	60	28
50 to 99	201	12,961	12,788	45.7	766	60	32
100 to 249	90	12,442	13,183	97.7	720	61	28
250 or more	37	12,152	23,548	200.0	409	64	31
Weekly operating hours							
Fewer than 40	1,370	10,766	5,897	4.0	1,800	10	42
40 to 48	1,483	18,826	16,706	5.5	1,000	40	37
49 to 60	1,250	22,845	24,636	6.5	1,071	55	38
61 to 84	645	14,736	14,659	8.0	1,046	72	31
85 to 167	465	10,038	7,655	5.3	1,175	108	27
Open continuously	705	19,213	16,243	6.1	1,350	168	28
Ownership and occupancy							
Nongovernment owned	4,982	74,728	66,568	5.4	1,200	50	36
Owner occupied	3,249	45,355	37,126	5.5	1,360	50	38
Leased to tenant or tenants	1,581	28,382	29,442	5.7	1,000	55	34
Unoccupied	152	990	0	3.6	N	0	39
Government owned	937	21,695	19,228	5.9	1,056	45	34
Federal	70	1,946	2,597	3.6	645	50	23
State	256	6,888	5,746	6.2	1,071	45	34
Local	610	12,861	10,885	5.9	1,091	45	36
Party responsible for operation of energy systems							
Building owner	4,872	79,282	70,432	5.3	1,200	48	36
Business owner or tenant	831	12,842	10,637	5.5	1,113	51	38
Property management	97	1,994	2,311	4.5	750	60	21
Other	118	2,306	2,415	6.2	900	55	37
Provider of direct input on energy-related equipment purchases							
Building owner	5,127	82,862	73,240	5.5	1,200	50	36
Business owner or tenant	483	7,585	6,376	5.4	1,000	50	36
Property management	49	1,072	1,170	4.5	1,042	55	20
Other	260	4,904	5,010	5.2	1,000	55	41

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Number of establishments							
1	4,719	65,391	50,407	5.0	1,250	50	36
2 to 5	811	16,431	15,937	8.0	1,000	50	38
6 to 10	135	5,539	7,206	17.5	688	55	33
11 to 20	63	3,894	5,751	28.0	775	72	32
More than 20	19	3,999	6,494	97.8	650	65	35
Currently unoccupied	170	1,168	0	3.6	N	0	39
Campus or complex activity							
Not part of a campus or complex	3,622	56,609	50,340	5.0	1,125	50	39
Primary or secondary school	247	5,106	3,681	7.2	1,250	40	28
College or university	103	3,761	2,700	15.8	1,560	60	36
Office complex	141	3,823	8,446	5.7	574	50	35
Retail complex	250	4,573	4,171	7.5	922	54	26
Storage complex	418	5,684	1,933	7.8	2,917	72	20
Religious campus or complex	253	3,209	1,692	8.5	2,800	12	48
Health care complex	60	2,838	4,415	8.8	724	52	24
Lodging or resort complex	102	1,575	758	4.5	1,520	168	34
Transportation complex	36	774	600	5.1	1,100	70	30
Government complex	124	1,706	1,676	3.2	880	40	21
Other	563	6,765	5,383	5.0	1,104	50	31
Predominant exterior wall material							
Brick, stone, or stucco	2,490	46,134	43,670	6.8	1,049	50	41
Concrete (block or poured)	935	19,357	14,995	6.4	1,300	50	42
Concrete panels	137	8,331	8,022	20.0	1,067	51	24
Siding or shingles	948	5,992	5,220	3.2	833	45	35
Metal panels	1,250	12,198	6,584	5.0	1,667	48	23
Window glass	19	2,192	4,522	43.0	964	64	17
Other	139	2,219	2,783	4.5	1,167	50	30
Predominant roof material							
Metal surfacing	2,198	20,936	12,924	5.0	1,500	46	28
Synthetic or rubber	940	31,563	31,789	9.5	1,189	55	42
Built-up	708	19,308	19,471	8.8	1,027	50	45
Slate or tile shingles	376	3,997	3,748	4.3	900	50	39
Wooden materials (including shingles)	166	1,568	1,496	4.8	1,000	60	34
Asphalt, fiberglass, or other shingles	1,311	14,058	11,509	5.0	1,100	45	41
Concrete	83	1,968	1,931	4.5	1,050	60	43
Other	136	3,026	2,926	6.0	800	50	42

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Roof tilt							
Flat	1,914	54,253	55,710	8.5	1,071	52	41
Shallow pitch	2,313	27,609	19,619	5.3	1,250	50	33
Steeper pitch	1,691	14,561	10,466	4.5	1,200	40	34
Cool roof characteristics (more than one may apply)							
White or reflective coating or paint	1,285	32,799	31,826	8.0	1,104	50	34
White or reflective tiles or shingles	140	2,713	2,557	5.5	1,083	55	38
Aluminum coating	528	6,149	4,472	5.0	1,400	45	33
Ballasted roof system	114	6,277	6,872	19.3	1,333	50	46
Other cool roof property	35	1,603	2,359	9.4	875	55	36
Renovations since 2000 (more than one may apply)							
Any type of renovation	2,032	45,165	44,948	6.8	1,100	50	44
Addition or annex	327	10,854	9,532	9.6	1,255	55	39
Reduction in floorspace	35	1,784	2,369	9.6	625	55	37
Roof replacement	847	20,862	20,388	7.1	1,150	50	49
Interior wall reconfiguration	709	21,283	25,724	7.8	900	50	40
Window replacement	484	10,977	11,390	7.2	1,100	50	53
HVAC equipment upgrade	1,006	27,575	28,643	8.0	1,075	50	48
Lighting upgrade	1,012	29,098	30,404	8.0	1,108	53	46
Electrical upgrade	565	15,761	17,063	7.0	1,000	50	53
Plumbing system upgrade	584	15,537	17,095	6.8	1,067	50	48
Insulation upgrade	307	7,980	8,465	5.8	1,400	56	56
Fire, safety, or security upgrade	570	19,985	20,865	9.0	1,081	58	46
Structural upgrade	147	4,203	5,041	8.0	1,000	55	54
Other	43	1,168	1,027	6.0	1,088	53	43
No renovations	3,530	43,832	34,581	5.0	1,200	48	34
Buildings constructed 2013 or later	357	7,426	6,268	6.0	1,325	55	2
Energy sources (more than one may apply)							
Electricity	5,613	94,844	85,693	5.6	1,161	50	37
Natural gas	2,974	67,722	60,519	7.8	1,200	50	38
Fuel oil	583	21,185	24,121	7.0	1,167	50	40
District heat	86	6,745	7,389	20.7	1,800	60	57
District chilled water	55	4,288	4,562	31.0	1,125	60	45
Propane	676	10,157	6,940	5.0	1,333	50	39
Wood	105	802	671	4.0	1,500	48	47
Coal	Q	Q	Q	Q	Q	Q	Q
Solar	99	3,820	3,846	10.8	942	60	30
Other	79	1,317	1,067	7.2	1,167	60	43

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All buildings	5,918	96,423	85,796	5.4	1,167	50	36
Space-heating energy sources (more than one may apply)							
Electricity	2,563	45,603	45,698	5.7	960	50	33
Natural gas	2,587	58,042	50,527	8.0	1,200	50	40
Fuel oil	266	4,134	3,709	4.8	1,350	45	54
District heat	83	6,547	7,131	21.1	1,800	60	58
Propane	431	3,896	2,736	4.0	1,344	40	43
Wood	85	422	222	4.0	2,500	48	49
Coal	Q	Q	Q	Q	Q	Q	Q
Solar	Q	Q	Q	Q	Q	Q	Q
Other	40	443	273	6.4	2,832	54	43
Primary space-heating energy source							
Electricity	1,856	27,618	29,054	5.0	946	50	32
Natural gas	2,344	50,060	42,756	7.8	1,246	50	41
Fuel oil	222	2,223	1,652	4.5	1,250	45	57
District heat	78	6,090	6,695	20.7	1,800	60	58
Propane	338	2,290	1,692	4.0	1,344	40	41
Wood	Q	Q	Q	Q	Q	Q	Q
Coal	Q	Q	Q	Q	Q	Q	Q
Solar	N	N	N	N	N	N	N
Other	Q	Q	Q	Q	Q	Q	Q
Cooling energy sources (more than one may apply)							
Electricity	4,584	84,526	79,784	6.0	1,067	50	37
Natural gas	4	400	307	42.5	973	40	57
District chilled water	55	4,288	4,562	31.0	1,125	60	45
Water-heating energy sources (more than one may apply)							
Electricity	2,785	47,125	46,374	5.7	1,035	50	37
Natural gas	1,885	46,652	42,146	8.8	1,104	54	38
Fuel oil	72	1,807	1,889	5.0	1,222	64	58
District heat	38	4,206	4,919	40.0	1,883	60	58
Propane	145	1,947	1,855	6.3	1,042	55	38
Cooking energy sources (more than one may apply)							
Electricity	1,216	30,509	29,469	7.5	1,125	57	33
Natural gas	727	27,705	26,104	10.0	1,070	68	39
Propane	159	3,101	2,430	5.5	1,100	60	43

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All buildings	5,918	96,423	85,796	5.4	1,167	50	36
Energy end uses (more than one may apply)							
Buildings with space heating	4,901	88,661	82,078	6.0	1,125	50	38
Buildings with cooling	4,631	87,506	82,835	6.1	1,067	50	37
Buildings with water heating	4,595	87,717	82,235	6.3	1,100	50	38
Buildings with cooking	1,738	43,580	41,427	7.2	1,100	60	38
Buildings with manufacturing	322	6,871	5,035	6.0	1,164	48	36
Buildings with electricity generation	706	29,457	32,409	10.8	1,164	60	29
Buildings with lighting	5,503	94,103	85,617	5.6	1,125	50	37
Percentage of floorspace heated							
Not heated	1,017	7,762	3,718	4.5	1,720	48	29
1 to 50%	693	10,620	6,404	5.6	1,533	48	39
51 to 99%	905	20,174	20,058	7.2	1,100	50	40
100%	3,303	57,867	55,616	5.6	1,070	50	36
Percentage of floorspace cooled							
Not cooled	1,288	8,917	2,961	4.2	2,375	45	33
1 to 50%	1,111	19,722	10,727	7.5	1,563	50	39
51 to 99%	998	26,277	26,432	7.8	1,081	50	42
100%	2,522	41,507	45,675	5.0	883	50	34
Percentage lit when open							
0%	Q	Q	Q	Q	Q	Q	Q
1 to 50%	1,280	14,172	6,476	5.6	2,000	45	43
51 to 99%	1,784	38,847	37,954	7.0	1,067	50	38
100%	2,272	39,877	41,135	5.0	1,000	50	33
Building never open or electricity not used	513	2,998	183	4.0	2,550	0	33
Percentage lit during off hours							
0%	2,062	15,578	10,347	4.3	1,406	43	38
1 to 50%	3,246	69,800	67,292	7.2	1,067	50	36
51 to 100%	240	7,243	6,281	7.9	1,125	75	34
Building always open with no off hours	64	2,223	1,773	6.8	1,183	168	32
Electricity not used	305	1,579	103	4.0	Q	50	25

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All buildings	5,918	96,423	85,796	5.4	1,167	50	36
Heating equipment (more than one may apply)							
Packaged heating units	2,187	48,064	44,373	8.0	1,000	52	32
Furnaces	1,621	17,272	13,487	5.0	1,200	45	41
Individual space heaters	1,246	21,122	17,188	6.0	1,200	48	38
Boilers	703	28,831	28,263	15.0	1,389	56	43
Heat pumps	673	15,110	14,684	6.5	1,067	50	32
District heat	83	6,547	7,131	21.1	1,800	60	58
Duct reheat	134	7,418	9,848	14.2	973	51	34
Other	17	821	673	24.5	2,140	60	22
Cooling equipment (more than one may apply)							
Packaged air-conditioning units	2,565	56,290	53,354	8.1	1,000	50	35
Residential-type central air conditioners	1,309	18,270	16,384	5.0	1,074	46	38
Individual air conditioners	735	13,619	10,038	5.5	1,333	50	46
Central chillers	202	17,926	21,716	40.8	1,048	60	37
Heat pumps	492	11,098	11,637	6.4	1,120	50	33
District chilled water	55	4,288	4,562	31.0	1,125	60	45
Swamp coolers	85	2,070	2,103	7.1	890	50	29
Other	Q	Q	Q	Q	Q	Q	Q
HVAC features (more than one may apply)							
Economizer cycle	747	34,087	37,137	15.1	1,121	60	28
Variable air volume (VAV) system	698	29,268	34,745	9.9	1,111	55	34
Dedicated outside air system (DOAS)	249	9,027	9,453	10.0	1,064	56	40
Demand controlled ventilation (DCV)	349	10,474	9,818	8.5	1,042	50	35
Regular HVAC maintenance	3,554	78,015	75,319	7.2	1,062	50	36
Building automation system (BAS) controls heating or cooling	933	40,462	44,380	13.2	1,064	55	30
Internet-connected or smart thermostat	325	5,966	4,778	8.0	1,200	53	32
Programmable thermostat	1,545	20,882	17,370	6.0	1,000	50	35
Main equipment replaced since 2000 (more than one may apply)							
Heating	1,937	32,451	29,569	6.3	1,100	50	46
Cooling	1,269	23,013	21,847	6.0	1,083	50	49

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All buildings	5,918	96,423	85,796	5.4	1,167	50	36
Water-heating equipment							
Centralized system	3,538	59,280	52,744	6.0	1,116	50	38
Distributed system	782	14,307	14,110	5.7	917	50	37
Combination of centralized and distributed systems	274	14,129	15,380	15.0	1,250	55	29
Generation technologies (more than one may apply)							
Reciprocating engine generators	580	25,163	28,143	10.5	1,164	60	29
Solar panels	94	3,750	3,779	12.0	1,049	60	30
Other generation technology	43	2,055	2,213	19.6	971	83	22
Lighting equipment types (more than one may apply)							
Incandescent	1,100	21,081	20,077	6.0	1,200	48	42
Standard fluorescent	4,012	72,912	67,312	6.0	1,125	50	38
Compact fluorescent	1,130	33,691	34,888	9.5	1,067	55	36
High-intensity discharge (HID)	238	11,356	9,532	15.0	2,500	50	35
Halogen	552	15,012	15,013	9.5	1,030	55	37
LED	2,593	61,849	61,176	7.5	1,100	54	37
Other	Q	Q	Q	Q	Q	Q	Q
Refrigeration equipment (more than one may apply)							
Any refrigeration	3,850	77,589	73,331	6.2	1,071	50	37
Walk-in units	706	29,384	29,824	8.8	960	84	37
Cases or cabinets	837	28,517	29,508	8.0	1,028	75	38
Large cold storage areas	69	3,592	2,753	6.2	1,250	100	49
Commercial ice makers	872	34,672	34,910	10.4	1,058	70	33
Residential-type or compact units	3,321	64,735	62,176	6.1	1,083	50	37
Vending machines	800	42,071	42,256	20.0	1,091	65	32
No refrigeration	2,068	18,834	12,465	4.7	1,500	45	34

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ^a	Median operating hours per week	Median age of buildings (years)
All buildings	5,918	96,423	85,796	5.4	1,167	50	36
Office equipment (more than one may apply)							
Desktop computers	3,804	82,012	78,691	7.5	1,058	50	35
With multiple monitors	1,504	50,844	56,355	10.0	833	50	34
Laptop computers	2,786	69,375	69,993	8.0	1,000	50	37
Dedicated servers	1,400	51,595	56,604	12.0	875	52	33
Tablets charged in building	1,556	48,778	51,562	10.0	938	55	33
Large floor-standing office devices ^c	1,456	54,088	58,144	12.8	960	50	34
Smaller desktop office devices ^c	3,560	74,467	71,347	6.5	1,053	50	36
Interactive whiteboards	262	16,939	18,450	27.6	1,071	50	31
Televisions or video displays	2,451	63,618	63,777	8.5	1,070	55	34
Point-of-sale devices or cash registers	1,420	33,606	35,979	6.0	889	60	37
Food preparation or serving areas in non-food service buildings (more than one may apply)							
Snack bar, concession stand, or coffee shop	144	10,361	10,567	16.6	1,550	71	31
Fast food or small restaurant	160	9,759	10,823	14.0	1,050	75	34
Cafeteria or large restaurant	129	14,531	15,160	62.0	1,634	55	40
Commercial kitchen or food preparation area	284	17,698	15,081	22.0	1,413	66	35
Small kitchen area	1,018	20,519	18,600	6.3	1,200	50	38
Separate computer areas (more than one may apply)							
Server closet	1,237	48,722	51,926	12.3	947	50	29
Data center	116	11,383	14,374	24.5	1,000	60	24
Computer-based training room	228	16,556	17,081	28.5	1,056	60	32
Student or public computer center	236	12,527	9,728	20.0	1,200	50	34

Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	Number of buildings (thousand)	Total floorspace (million square feet)	Total workers (thousand)	Median square feet per building (thousand)	Median square feet per worker ^a	Median operating hours per week	Median age of buildings (years)
All buildings	5,918	96,423	85,796	5.4	1,167	50	36
Window and interior lighting features (more than one may apply)							
Multipaned windows	3,527	72,694	68,818	7.0	1,108	50	33
Tinted window glass	1,679	44,363	46,894	8.8	1,000	50	34
Reflective window glass	497	17,929	20,883	12.5	933	55	27
External overhangs or awnings	1,513	28,718	26,663	6.1	1,000	50	34
Skylights or atriums	509	19,815	18,169	10.8	1,357	50	32
Light scheduling	910	33,552	36,481	10.8	1,054	58	29
Occupancy sensors	1,025	44,304	46,637	13.0	1,150	55	28
Multilevel lighting or dimming	332	14,424	15,759	10.4	1,250	54	38
Daylight harvesting	138	7,244	9,573	12.5	1,042	55	22
Plug-load control	58	1,961	2,132	5.7	667	60	28
Demand responsive lighting	98	2,045	2,002	5.3	1,459	50	41
Building automation system (BAS) for lighting	317	16,645	18,648	15.0	1,048	60	15
Electric vehicle (EV) charging							
Charging stations associated with the building	132	10,165	11,217	23.0	1,139	68	23

Data source: U.S. Energy Information Administration, Form EIA-871A 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/>.

Data are sample survey estimates with relative standard errors published in a tab on the Excel worksheet for this table.

^aBuildings with zero workers are excluded from this column.

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

^c*Office 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.

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Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Building floorspace (square feet)							
1,001 to 5,000	4.9	5.3	5.7	—	—	—	—
5,001 to 10,000	5.9	5.8	5.6	—	—	—	—
10,001 to 25,000	5.6	6.1	7.9	—	—	—	—
25,001 to 50,000	5.6	5.6	6.6	—	—	—	—
50,001 to 100,000	5.3	5.3	6.9	—	—	—	—
100,001 to 200,000	5.6	5.5	7.0	—	—	—	—
200,001 to 500,000	5.0	5.0	6.2	—	—	—	—
Over 500,000	7.8	8.6	8.3	—	—	—	—
Principal building activity							
Education	7.8	5.3	5.9	—	—	—	—
Food sales	14.3	17.0	16.1	—	—	—	—
Food service	7.7	8.5	9.4	—	—	—	—
Health care	9.8	5.5	6.0	—	—	—	—
Inpatient	19.4	7.2	7.9	—	—	—	—
Outpatient	10.3	8.0	8.9	—	—	—	—
Lodging	9.4	8.3	10.5	—	—	—	—
Mercantile	7.3	6.0	6.7	—	—	—	—
Retail (other than mall)	10.1	8.6	10.0	—	—	—	—
Enclosed and strip malls	7.6	7.6	7.6	—	—	—	—
Office	7.2	5.5	5.6	—	—	—	—
Public assembly	9.1	5.8	9.2	—	—	—	—
Public order and safety	20.2	15.9	20.4	—	—	—	—
Religious worship	9.5	9.3	12.4	—	—	—	—
Service	7.4	8.1	8.4	—	—	—	—
Warehouse and storage	7.4	7.2	7.2	—	—	—	—
Other	17.1	15.1	22.5	—	—	—	—
Vacant	17.2	14.1	56.7	—	—	—	—
Year constructed							
Before 1920	12.8	10.8	14.9	—	—	—	—
1920 to 1945	10.7	8.8	10.4	—	—	—	—
1946 to 1959	8.1	7.6	9.7	—	—	—	—
1960 to 1969	6.4	5.2	5.2	—	—	—	—
1970 to 1979	7.4	6.0	6.9	—	—	—	—
1980 to 1989	7.0	5.9	5.5	—	—	—	—
1990 to 1999	7.5	6.6	6.7	—	—	—	—
2000 to 2009	8.0	6.3	7.1	—	—	—	—
2010 to 2018	11.0	7.6	10.2	—	—	—	—

Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Census region and division							
Northeast	9.9	7.2	6.8	—	—	—	—
New England	17.8	10.8	9.4	—	—	—	—
Middle Atlantic	12.0	8.8	8.3	—	—	—	—
Midwest	10.9	7.4	7.2	—	—	—	—
East North Central	13.1	10.4	10.0	—	—	—	—
West North Central	21.0	7.9	6.4	—	—	—	—
South	7.7	6.1	6.7	—	—	—	—
South Atlantic	11.0	6.8	8.3	—	—	—	—
East South Central	18.0	20.3	14.0	—	—	—	—
West South Central	14.7	11.5	13.7	—	—	—	—
West	8.1	7.1	7.0	—	—	—	—
Mountain	15.9	13.1	14.7	—	—	—	—
Pacific	9.0	8.1	6.1	—	—	—	—
Climate zone^a							
Cold or very cold	18.8	17.0	14.6	—	—	—	—
Cool	11.8	8.3	8.4	—	—	—	—
Mixed mild	15.1	10.5	10.8	—	—	—	—
Warm	11.4	10.0	10.1	—	—	—	—
Hot or very hot	18.8	14.1	12.7	—	—	—	—
Number of floors							
1	4.3	4.5	4.7	—	—	—	—
2	5.8	4.4	5.5	—	—	—	—
3	10.5	7.6	8.8	—	—	—	—
4 to 9	9.4	6.3	7.1	—	—	—	—
10 or more	9.8	11.0	9.6	—	—	—	—
Elevators and escalators (more than one may apply)							
Any elevators	6.5	4.5	5.0	—	—	—	—
1 elevator	7.7	6.0	7.8	—	—	—	—
2 to 5 elevators	6.7	5.2	6.8	—	—	—	—
6 or more elevators	7.8	8.4	7.6	—	—	—	—
Any escalators	28.9	13.7	15.3	—	—	—	—

Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Number of workers (main shift)							
Fewer than 5	5.5	5.9	6.0	—	—	—	—
5 to 9	6.1	6.9	6.1	—	—	—	—
10 to 19	6.5	7.4	6.5	—	—	—	—
20 to 49	6.3	4.8	6.1	—	—	—	—
50 to 99	6.7	5.9	6.6	—	—	—	—
100 to 249	7.1	5.6	7.1	—	—	—	—
250 or more	7.2	6.4	6.2	—	—	—	—
Weekly operating hours							
Fewer than 40	6.1	6.6	10.0	—	—	—	—
40 to 48	6.2	5.1	5.4	—	—	—	—
49 to 60	5.2	4.3	4.5	—	—	—	—
61 to 84	7.6	5.3	6.4	—	—	—	—
85 to 167	8.6	6.2	6.8	—	—	—	—
Open continuously	8.1	5.0	5.4	—	—	—	—
Ownership and occupancy							
Nongovernment owned	3.8	3.3	3.3	—	—	—	—
Owner occupied	4.3	3.3	3.3	—	—	—	—
Leased to tenant or tenants	5.5	4.8	4.9	—	—	—	—
Unoccupied	20.3	19.2	0.0	—	—	—	—
Government owned	9.5	6.0	8.2	—	—	—	—
Federal	26.0	16.1	18.9	—	—	—	—
State	12.9	11.8	15.9	—	—	—	—
Local	10.1	6.0	7.4	—	—	—	—
Party responsible for operation of energy systems							
Building owner	4.4	3.2	3.6	—	—	—	—
Business owner or tenant	6.5	7.2	7.6	—	—	—	—
Property management	20.7	11.7	13.3	—	—	—	—
Other	18.8	11.1	17.1	—	—	—	—
Provider of direct input on energy-related equipment purchases							
Building owner	4.4	3.1	3.6	—	—	—	—
Business owner or tenant	8.9	8.8	9.1	—	—	—	—
Property management	25.5	16.2	16.3	—	—	—	—
Other	10.5	8.1	10.1	—	—	—	—

Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Number of establishments							
1	4.6	3.6	4.5	—	—	—	—
2 to 5	6.0	5.5	5.8	—	—	—	—
6 to 10	11.5	7.9	9.2	—	—	—	—
11 to 20	18.0	8.9	10.3	—	—	—	—
More than 20	18.6	10.1	11.7	—	—	—	—
Currently unoccupied	18.7	16.5	0.0	—	—	—	—
Campus or complex activity							
Not part of a campus or complex	4.3	3.7	4.0	—	—	—	—
Primary or secondary school	12.1	9.4	11.1	—	—	—	—
College or university	21.8	15.9	17.1	—	—	—	—
Office complex	12.7	10.0	11.6	—	—	—	—
Retail complex	13.2	9.2	10.7	—	—	—	—
Storage complex	14.4	11.0	17.9	—	—	—	—
Religious campus or complex	11.5	12.0	21.0	—	—	—	—
Health care complex	18.0	8.2	8.8	—	—	—	—
Lodging or resort complex	15.1	13.7	20.4	—	—	—	—
Transportation complex	34.3	33.2	31.7	—	—	—	—
Government complex	18.1	17.0	15.3	—	—	—	—
Other	9.2	7.4	9.8	—	—	—	—
Predominant exterior wall material							
Brick, stone, or stucco	5.3	3.9	4.9	—	—	—	—
Concrete (block or poured)	5.3	4.8	4.5	—	—	—	—
Concrete panels	12.1	8.4	10.8	—	—	—	—
Siding or shingles	7.3	9.3	10.5	—	—	—	—
Metal panels	7.6	6.0	8.5	—	—	—	—
Window glass	21.3	11.4	14.3	—	—	—	—
Other	14.7	13.7	17.3	—	—	—	—
Predominant roof material							
Metal surfacing	6.2	5.6	6.6	—	—	—	—
Synthetic or rubber	6.0	4.1	5.5	—	—	—	—
Built-up	7.7	4.8	4.6	—	—	—	—
Slate or tile shingles	10.1	10.1	11.0	—	—	—	—
Wooden materials (including shingles)	12.9	17.8	16.1	—	—	—	—
Asphalt, fiberglass, or other shingles	6.2	5.6	7.1	—	—	—	—
Concrete	20.6	11.9	12.6	—	—	—	—
Other	15.6	9.8	13.1	—	—	—	—

Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Roof tilt							
Flat	4.9	3.3	3.9	—	—	—	—
Shallow pitch	5.0	4.8	4.8	—	—	—	—
Steeper pitch	7.5	5.7	7.4	—	—	—	—
Cool roof characteristics (more than one may apply)							
White or reflective coating or paint	5.8	4.4	5.5	—	—	—	—
White or reflective tiles or shingles	15.4	10.4	10.2	—	—	—	—
Aluminum coating	8.8	9.2	8.2	—	—	—	—
Ballasted roof system	14.8	9.5	9.8	—	—	—	—
Other cool roof property	29.3	19.2	26.3	—	—	—	—
Renovations since 2000 (more than one may apply)							
Any type of renovation	5.0	3.4	3.5	—	—	—	—
Addition or annex	9.4	6.0	5.7	—	—	—	—
Reduction in floorspace	22.2	13.2	18.0	—	—	—	—
Roof replacement	6.8	4.3	5.0	—	—	—	—
Interior wall reconfiguration	6.0	4.2	4.5	—	—	—	—
Window replacement	9.5	5.8	6.5	—	—	—	—
HVAC equipment upgrade	7.0	4.2	4.0	—	—	—	—
Lighting upgrade	5.9	3.9	3.8	—	—	—	—
Electrical upgrade	7.1	5.6	5.2	—	—	—	—
Plumbing system upgrade	7.8	5.2	5.3	—	—	—	—
Insulation upgrade	9.2	7.8	8.8	—	—	—	—
Fire, safety, or security upgrade	6.2	4.4	4.7	—	—	—	—
Structural upgrade	13.9	10.2	10.5	—	—	—	—
Other	29.5	14.9	15.3	—	—	—	—
No renovations	4.3	3.9	4.8	—	—	—	—
Buildings constructed 2013 or later	11.9	8.3	11.6	—	—	—	—
Energy sources (more than one may apply)							
Electricity	3.9	3.0	3.3	—	—	—	—
Natural gas	4.8	3.4	3.4	—	—	—	—
Fuel oil	9.7	5.4	5.9	—	—	—	—
District heat	14.7	11.4	10.2	—	—	—	—
District chilled water	20.1	13.7	13.4	—	—	—	—
Propane	10.0	7.6	8.4	—	—	—	—
Wood	24.8	21.5	21.8	—	—	—	—
Coal	78.7	76.5	69.2	—	—	—	—
Solar	15.5	11.5	13.0	—	—	—	—
Other	22.9	18.2	21.0	—	—	—	—

Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Space-heating energy sources (more than one may apply)							
Electricity	4.7	3.7	4.2	—	—	—	—
Natural gas	5.2	3.6	3.7	—	—	—	—
Fuel oil	13.9	11.6	14.6	—	—	—	—
District heat	15.4	11.6	10.1	—	—	—	—
Propane	13.5	13.1	14.4	—	—	—	—
Wood	27.2	27.3	26.5	—	—	—	—
Coal	62.8	64.3	62.8	—	—	—	—
Solar	90.2	61.7	69.1	—	—	—	—
Other	34.5	31.6	26.8	—	—	—	—
Primary space-heating energy source							
Electricity	6.4	5.5	5.6	—	—	—	—
Natural gas	5.5	4.1	4.0	—	—	—	—
Fuel oil	16.1	15.3	14.7	—	—	—	—
District heat	15.8	12.6	11.7	—	—	—	—
Propane	17.5	16.9	19.2	—	—	—	—
Wood	33.4	32.9	38.7	—	—	—	—
Coal	62.8	64.3	62.8	—	—	—	—
Solar	0.0	0.0	0.0	—	—	—	—
Other	42.1	51.1	38.7	—	—	—	—
Cooling energy sources (more than one may apply)							
Electricity	3.9	3.0	3.2	—	—	—	—
Natural gas	37.3	24.2	20.7	—	—	—	—
District chilled water	20.1	13.7	13.4	—	—	—	—
Water-heating energy sources (more than one may apply)							
Electricity	4.0	3.6	3.7	—	—	—	—
Natural gas	5.5	3.7	4.1	—	—	—	—
Fuel oil	24.0	15.4	22.2	—	—	—	—
District heat	17.4	12.8	12.0	—	—	—	—
Propane	15.8	14.7	17.5	—	—	—	—
Cooking energy sources (more than one may apply)							
Electricity	5.7	3.9	4.4	—	—	—	—
Natural gas	5.4	3.4	4.1	—	—	—	—
Propane	14.8	11.7	13.8	—	—	—	—

Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Energy end uses (more than one may apply)							
Buildings with space heating	4.1	3.0	3.3	—	—	—	—
Buildings with cooling	3.9	3.0	3.3	—	—	—	—
Buildings with water heating	3.9	2.9	3.3	—	—	—	—
Buildings with cooking	5.0	3.1	3.6	—	—	—	—
Buildings with manufacturing	11.3	7.9	9.7	—	—	—	—
Buildings with electricity generation	7.4	4.4	4.9	—	—	—	—
Buildings with lighting	3.9	3.0	3.3	—	—	—	—
Percentage of floorspace heated							
Not heated	8.2	10.0	13.0	—	—	—	—
1 to 50%	8.5	7.1	8.8	—	—	—	—
51 to 99%	6.7	5.3	5.8	—	—	—	—
100%	4.1	3.2	3.7	—	—	—	—
Percentage of floorspace cooled							
Not cooled	7.1	8.0	10.8	—	—	—	—
1 to 50%	5.9	5.2	5.1	—	—	—	—
51 to 99%	6.6	5.1	5.6	—	—	—	—
100%	4.3	3.5	4.3	—	—	—	—
Percentage lit when open							
0%	35.1	38.5	48.3	—	—	—	—
1 to 50%	6.7	6.0	6.9	—	—	—	—
51 to 99%	4.8	3.6	4.3	—	—	—	—
100%	4.7	3.8	4.1	—	—	—	—
Building never open or electricity not used	11.6	12.1	21.4	—	—	—	—
Percentage lit during off hours							
0%	6.5	6.7	6.9	—	—	—	—
1 to 50%	3.8	3.0	3.6	—	—	—	—
51 to 100%	10.6	6.7	8.1	—	—	—	—
Building always open with no off hours	15.2	11.6	12.7	—	—	—	—
Electricity not used	16.0	17.6	29.5	—	—	—	—

Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Heating equipment (more than one may apply)							
Packaged heating units	4.0	3.6	3.8	—	—	—	—
Furnaces	7.2	5.7	6.8	—	—	—	—
Individual space heaters	5.9	4.8	6.3	—	—	—	—
Boilers	6.2	4.0	4.6	—	—	—	—
Heat pumps	7.7	5.4	5.7	—	—	—	—
District heat	15.4	11.6	10.1	—	—	—	—
Duct reheat	12.6	7.0	8.1	—	—	—	—
Other	46.4	24.1	25.7	—	—	—	—
Cooling equipment (more than one may apply)							
Packaged air-conditioning units	4.3	3.4	3.6	—	—	—	—
Residential-type central air conditioners	7.6	5.2	5.9	—	—	—	—
Individual air conditioners	6.6	5.3	5.8	—	—	—	—
Central chillers	9.0	5.0	5.1	—	—	—	—
Heat pumps	11.0	6.8	7.4	—	—	—	—
District chilled water	20.1	13.7	13.4	—	—	—	—
Swamp coolers	12.8	13.1	14.2	—	—	—	—
Other	53.2	36.4	43.3	—	—	—	—
HVAC features (more than one may apply)							
Economizer cycle	5.6	3.9	4.6	—	—	—	—
Variable air volume (VAV) system	8.4	4.9	5.7	—	—	—	—
Dedicated outside air system (DOAS)	11.0	7.8	9.0	—	—	—	—
Demand controlled ventilation (DCV)	8.8	5.5	7.2	—	—	—	—
Regular HVAC maintenance	4.2	3.2	3.7	—	—	—	—
Building automation system (BAS) controls heating or cooling	6.4	3.7	4.5	—	—	—	—
Internet-connected or smart thermostat	12.2	10.5	13.9	—	—	—	—
Programmable thermostat	4.7	5.4	5.2	—	—	—	—
Main equipment replaced since 2000 (more than one may apply)							
Heating	4.9	3.8	4.0	—	—	—	—
Cooling	4.8	4.3	5.1	—	—	—	—

Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Water-heating equipment							
Centralized system	4.4	3.4	4.2	—	—	—	—
Distributed system	8.9	6.4	7.6	—	—	—	—
Combination of centralized and distributed systems	8.8	5.2	6.1	—	—	—	—
Generation technologies (more than one may apply)							
Reciprocating engine generators	8.8	4.8	5.1	—	—	—	—
Solar panels	15.4	11.5	13.3	—	—	—	—
Other generation technology	21.4	14.4	16.6	—	—	—	—
Lighting equipment types (more than one may apply)							
Incandescent	7.8	4.5	5.9	—	—	—	—
Standard fluorescent	4.2	3.4	3.6	—	—	—	—
Compact fluorescent	5.2	4.2	5.1	—	—	—	—
High-intensity discharge (HID)	9.8	7.1	8.0	—	—	—	—
Halogen	8.0	4.2	4.5	—	—	—	—
LED	3.6	2.9	3.6	—	—	—	—
Other	57.3	24.1	35.0	—	—	—	—
Refrigeration equipment (more than one may apply)							
Any refrigeration	4.1	3.0	3.5	—	—	—	—
Walk-in units	5.4	3.4	3.8	—	—	—	—
Cases or cabinets	5.8	3.7	4.1	—	—	—	—
Large cold storage areas	17.2	11.3	11.7	—	—	—	—
Commercial ice makers	5.5	3.5	4.4	—	—	—	—
Residential-type or compact units	4.3	3.2	3.8	—	—	—	—
Vending machines	6.1	3.8	4.5	—	—	—	—
No refrigeration	5.3	5.3	6.8	—	—	—	—

Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Office equipment (more than one may apply)							
Desktop computers	4.0	2.9	3.4	—	—	—	—
With multiple monitors	5.0	3.5	4.1	—	—	—	—
Laptop computers	4.0	3.0	3.6	—	—	—	—
Dedicated servers	4.9	3.3	3.7	—	—	—	—
Tablets charged in building	4.4	3.3	4.1	—	—	—	—
Large floor-standing office devices ^b	4.4	3.0	3.6	—	—	—	—
Smaller desktop office devices ^b	4.1	3.1	3.7	—	—	—	—
Interactive whiteboards	8.7	4.5	5.2	—	—	—	—
Televisions or video displays	3.8	3.0	3.7	—	—	—	—
Point-of-sale devices or cash registers	5.2	3.4	4.0	—	—	—	—
Food preparation or serving areas in non-food service buildings (more than one may apply)							
Snack bar, concession stand, or coffee shop	11.0	6.7	8.5	—	—	—	—
Fast food or small restaurant	9.4	5.9	7.0	—	—	—	—
Cafeteria or large restaurant	7.7	4.6	5.5	—	—	—	—
Commercial kitchen or food preparation area	8.5	4.4	5.0	—	—	—	—
Small kitchen area	6.5	4.7	5.9	—	—	—	—
Separate computer areas (more than one may apply)							
Server closet	5.3	3.4	3.7	—	—	—	—
Data center	13.1	6.7	6.3	—	—	—	—
Computer-based training room	8.4	4.6	5.0	—	—	—	—
Student or public computer center	8.0	4.6	5.2	—	—	—	—

Relative standard errors (RSEs) for Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2018

	RSEs for number of buildings	RSEs for total floorspace	RSEs for total workers	RSEs not available for medians per building	RSEs not available for medians	RSEs not available for medians	RSEs not available for medians
All buildings	3.9	3.1	3.3	—	—	—	—
Window and interior lighting features (more than one may apply)							
Multipaned windows	4.2	3.2	3.7	—	—	—	—
Tinted window glass	4.2	3.4	3.9	—	—	—	—
Reflective window glass	7.0	5.6	5.6	—	—	—	—
External overhangs or awnings	5.0	4.5	4.3	—	—	—	—
Skylights or atriums	7.1	4.5	6.1	—	—	—	—
Light scheduling	5.2	4.1	4.9	—	—	—	—
Occupancy sensors	6.5	3.8	4.5	—	—	—	—
Multilevel lighting or dimming	10.0	6.6	8.0	—	—	—	—
Daylight harvesting	12.0	6.3	8.3	—	—	—	—
Plug-load control	18.4	12.2	14.5	—	—	—	—
Demand responsive lighting	30.7	15.2	14.2	—	—	—	—
Building automation system (BAS) for lighting	9.3	5.2	6.2	—	—	—	—
Electric vehicle (EV) charging							
Charging stations associated with the building	11	7	9	—	—	—	—

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

Note: RSE is a measure of the reliability or precision of a survey statistic. Variability occurs in survey statistics because the different samples that could be drawn would each produce different values for the survey statistics. *Estimation of Standard Errors* and *What is a Relative Standard Error (RSE)?* contain more information on how RSEs are estimated and used. Both references can be accessed from <https://www.eia.gov/consumption/commercial/survey-background-technical-information.php>.

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

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