

Table A5. Commercial sector key indicators and consumption
 (quadrillion Btu per year, unless otherwise noted)

Key indicators and consumption	Reference case							Annual growth 2010-2035 (percent)	
	2009	2010	2015	2020	2025	2030	2035		
Key indicators									
Total floorspace (billion square feet)									
Surviving	78.0	79.3	82.4	87.0	91.9	96.2	100.7	1.0%	
New additions	2.3	1.8	1.7	2.0	2.0	2.0	2.3	1.0%	
Total	80.3	81.1	84.1	89.1	93.9	98.2	103.0	1.0%	
Energy consumption intensity (thousand Btu per square foot)									
Delivered energy consumption	106.0	107.3	104.6	103.1	101.0	100.6	99.8	-0.3%	
Electricity related losses	117.0	117.3	110.2	110.6	110.6	110.2	109.0	-0.3%	
Total energy consumption	223.0	224.5	214.8	213.7	211.5	210.7	208.8	-0.3%	
Delivered energy consumption by fuel									
Purchased electricity									
Space heating ¹	0.18	0.18	0.16	0.16	0.16	0.16	0.16	-0.6%	
Space cooling ¹	0.47	0.56	0.50	0.50	0.51	0.52	0.53	-0.2%	
Water heating ¹	0.09	0.09	0.09	0.09	0.09	0.09	0.08	-0.4%	
Ventilation	0.50	0.51	0.53	0.56	0.58	0.61	0.63	0.9%	
Cooking	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.3%	
Lighting	1.03	1.01	1.00	1.03	1.06	1.10	1.13	0.4%	
Refrigeration	0.40	0.39	0.35	0.34	0.34	0.34	0.35	-0.4%	
Office equipment (PC)	0.22	0.21	0.19	0.19	0.20	0.21	0.21	0.0%	
Office equipment (non-PC)	0.25	0.26	0.31	0.37	0.40	0.44	0.46	2.3%	
Other uses ²	1.29	1.30	1.43	1.62	1.80	2.00	2.22	2.2%	
Delivered energy	4.46	4.54	4.59	4.88	5.16	5.48	5.80	1.0%	
Natural gas									
Space heating ¹	1.61	1.65	1.69	1.73	1.70	1.68	1.64	-0.0%	
Space cooling ¹	0.03	0.04	0.04	0.04	0.03	0.03	0.03	-1.1%	
Water heating ¹	0.43	0.44	0.48	0.51	0.52	0.53	0.54	0.8%	
Cooking	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.9%	
Other uses ³	0.95	0.98	1.01	1.04	1.07	1.14	1.25	1.0%	
Delivered energy	3.20	3.28	3.41	3.51	3.53	3.60	3.69	0.5%	
Distillate fuel oil									
Space heating ¹	0.16	0.14	0.12	0.11	0.10	0.10	0.09	-1.7%	
Water heating ¹	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.9%	
Other uses ⁴	0.22	0.26	0.20	0.20	0.20	0.20	0.19	-1.2%	
Delivered energy	0.41	0.43	0.35	0.34	0.33	0.33	0.32	-1.2%	
Marketed renewables (biomass)									
Other fuels ⁵	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.0%	
0.33	0.34	0.33	0.34	0.34	0.35	0.36	0.36	0.2%	
Delivered energy consumption by end use									
Purchased electricity									
Space heating ¹	1.95	1.97	1.98	2.00	1.96	1.93	1.89	-0.2%	
Space cooling ¹	0.50	0.60	0.54	0.54	0.54	0.55	0.57	-0.2%	
Water heating ¹	0.55	0.56	0.60	0.63	0.64	0.65	0.66	0.7%	
Ventilation	0.50	0.51	0.53	0.56	0.58	0.61	0.63	0.9%	
Cooking	0.20	0.20	0.21	0.23	0.23	0.24	0.24	0.8%	
Lighting	1.03	1.01	1.00	1.03	1.06	1.10	1.13	0.4%	
Refrigeration	0.40	0.39	0.35	0.34	0.34	0.34	0.35	-0.4%	
Office equipment (PC)	0.22	0.21	0.19	0.19	0.20	0.21	0.21	0.0%	
Office equipment (non-PC)	0.25	0.26	0.31	0.37	0.40	0.44	0.46	2.3%	
Other uses ⁶	2.90	2.99	3.09	3.30	3.53	3.80	4.13	1.3%	
Delivered energy	8.51	8.70	8.80	9.18	9.48	9.87	10.28	0.7%	

Table A5. Commercial sector key indicators and consumption (continued)
 (quadrillion Btu per year, unless otherwise noted)

Key indicators and consumption	Reference case							Annual growth 2010-2035 (percent)
	2009	2010	2015	2020	2025	2030	2035	
Electricity related losses	9.39	9.52	9.27	9.85	10.38	10.82	11.23	0.7%
Total energy consumption by end use								
Space heating ¹	2.34	2.35	2.31	2.33	2.28	2.24	2.19	-0.3%
Space cooling ¹	1.50	1.77	1.54	1.55	1.57	1.58	1.60	-0.4%
Water heating ¹	0.75	0.75	0.78	0.80	0.81	0.82	0.82	0.4%
Ventilation	1.56	1.57	1.60	1.69	1.75	1.81	1.84	0.6%
Cooking	0.25	0.25	0.26	0.27	0.27	0.28	0.29	0.5%
Lighting	3.21	3.14	3.01	3.12	3.21	3.27	3.32	0.2%
Refrigeration	1.24	1.21	1.06	1.02	1.02	1.02	1.04	-0.6%
Office equipment (PC)	0.67	0.66	0.57	0.58	0.59	0.61	0.63	-0.2%
Office equipment (non-PC)	0.77	0.81	0.95	1.10	1.21	1.30	1.36	2.1%
Other uses ⁶	5.62	5.71	5.98	6.56	7.15	7.75	8.42	1.6%
Total	17.90	18.22	18.06	19.03	19.86	20.69	21.50	0.7%
Nonmarketed renewable fuels⁷								
Solar thermal	0.03	0.03	0.03	0.03	0.03	0.04	0.04	1.4%
Solar photovoltaic	0.00	0.01	0.01	0.01	0.01	0.01	0.01	2.8%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3%
Total	0.03	0.03	0.04	0.04	0.04	0.05	0.05	1.7%
Heating Degree Days								
New England	6649	5944	6349	6351	6355	6358	6360	0.3%
Middle Atlantic	5798	5453	5588	5587	5586	5585	5583	0.1%
East North Central	6542	6209	6215	6215	6215	6215	6215	0.0%
West North Central	6837	6585	6456	6461	6463	6466	6468	-0.1%
South Atlantic	2839	3183	2728	2703	2677	2651	2625	-0.8%
East South Central	3599	4003	3474	3480	3485	3491	3496	-0.5%
West South Central	2198	2503	2156	2149	2143	2137	2131	-0.6%
Mountain	4852	4808	4780	4749	4713	4677	4641	-0.1%
Pacific	3188	3202	3130	3135	3138	3140	3143	-0.1%
United States	4408	4382	4208	4172	4136	4101	4067	-0.3%
Cooling Degree Days								
New England	363	655	518	518	517	517	516	-0.9%
Middle Atlantic	587	997	783	783	783	784	784	-1.0%
East North Central	547	978	779	780	780	781	781	-0.9%
West North Central	720	1123	976	975	974	973	973	-0.6%
South Atlantic	2047	2289	2103	2118	2134	2149	2165	-0.2%
East South Central	1491	1999	1668	1665	1662	1658	1655	-0.8%
West South Central	2582	2755	2602	2607	2611	2615	2619	-0.2%
Mountain	1551	1489	1578	1595	1617	1637	1658	0.4%
Pacific	967	746	891	888	887	885	883	0.7%
United States	1279	1498	1392	1409	1426	1443	1459	-0.1%

¹Includes fuel consumption for district services.²Includes miscellaneous uses, such as service station equipment, automated teller machines, telecommunications equipment, and medical equipment.³Includes miscellaneous uses, such as pumps, emergency generators, combined heat and power in commercial buildings, and manufacturing performed in commercial buildings.⁴Includes miscellaneous uses, such as cooking, emergency generators, and combined heat and power in commercial buildings.⁵Includes residual fuel oil, liquefied petroleum gases, coal, motor gasoline, and kerosene.⁶Includes miscellaneous uses, such as service station equipment, automated teller machines, telecommunications equipment, medical equipment, pumps, emergency generators, combined heat and power in commercial buildings, manufacturing performed in commercial buildings, and cooking (distillate), plus residual fuel oil, liquefied petroleum gases, coal, motor gasoline, and kerosene.⁷Represents delivered energy displaced.

Btu = British thermal unit.

PC = Personal computer.

Note: Totals may not equal sum of components due to independent rounding. Data for 2009 and 2010 are model results and may differ slightly from official EIA data reports.

Sources: 2009 and 2010 consumption based on: U.S. Energy Information Administration (EIA), *Annual Energy Review 2010*, DOE/EIA-0384(2010) (Washington, DC, October 2011). 2009 and 2010 degree days based on state-level data from the National Oceanic and Atmospheric Administration's Climatic Data Center and Climate Prediction Center. **Projections:** EIA, AEO2012 National Energy Modeling System run REF2012.D020112C.