

**Table 5. Commercial Sector Key Indicators and Consumption**  
 (Quadrillion Btu per Year, Unless Otherwise Noted)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Key Indicators</b>													
Total Floorspace (billion square feet)													
Surviving	68.8	70.1	71.3	72.6	73.8	75.1	76.4	77.7	79.0	80.3	81.7	83.1	84.5
New Additions	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.4
Total	70.9	72.1	73.4	74.7	76.0	77.3	78.6	79.9	81.2	82.6	84.0	85.4	86.9
Energy Consumption Intensity (thousand Btu per square foot)													
Delivered Energy Consumption	116.0	114.8	113.4	112.4	113.3	114.6	115.8	116.6	117.3	117.6	117.8	117.9	117.8
Electricity Related Losses	129.4	127.2	126.2	127.2	128.3	130.1	131.3	132.0	132.5	132.8	132.9	133.2	133.2
Total Energy Consumption	245.4	242.0	239.7	239.6	241.6	244.7	247.1	248.6	249.7	250.4	250.7	251.1	251.0
Delivered Energy Consumption by Fuel													
Purchased Electricity													
Space Heating 1/	0.14	0.15	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16
Space Cooling 1/	0.46	0.42	0.40	0.41	0.42	0.43	0.44	0.45	0.45	0.46	0.46	0.47	0.47
Water Heating 1/	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Ventilation	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18
Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Lighting	1.09	1.10	1.11	1.13	1.16	1.19	1.23	1.26	1.28	1.31	1.32	1.34	1.36
Refrigeration	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24
Office Equipment (PC)	0.13	0.14	0.15	0.17	0.19	0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28
Office Equipment (non-PC)	0.31	0.31	0.33	0.34	0.36	0.38	0.40	0.43	0.45	0.47	0.49	0.52	0.54
Other Uses 2/	1.47	1.48	1.52	1.56	1.61	1.67	1.72	1.78	1.84	1.90	1.96	2.03	2.10
Delivered Energy	4.12	4.13	4.19	4.31	4.43	4.58	4.73	4.87	5.00	5.13	5.26	5.38	5.50
Natural Gas													
Space Heating 1/	1.32	1.36	1.32	1.34	1.35	1.37	1.39	1.41	1.43	1.44	1.45	1.46	1.46
Space Cooling 1/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
Water Heating 1/	0.57	0.57	0.57	0.57	0.58	0.60	0.62	0.64	0.66	0.67	0.68	0.69	0.71
Cooking	0.26	0.26	0.26	0.26	0.27	0.28	0.29	0.30	0.31	0.31	0.32	0.33	0.33
Other Uses 3/	1.03	1.02	1.04	0.97	0.99	1.01	1.04	1.06	1.08	1.10	1.11	1.12	1.14
Delivered Energy	3.20	3.22	3.19	3.15	3.20	3.28	3.36	3.42	3.49	3.54	3.58	3.62	3.65
Distillate													
Space Heating 1/	0.20	0.22	0.23	0.24	0.26	0.28	0.30	0.31	0.32	0.33	0.34	0.35	0.36
Water Heating 1/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Other Uses 4/	0.23	0.23	0.23	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Delivered Energy	0.50	0.52	0.53	0.52	0.54	0.57	0.59	0.60	0.62	0.62	0.63	0.64	0.65
Marketed Renewables (biomass)	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Other Fuels 5/	0.33	0.33	0.32	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34

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	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Delivered Energy Consumption by End-Use													
Space Heating 1/	1.66	1.73	1.69	1.73	1.76	1.80	1.84	1.88	1.90	1.93	1.95	1.96	1.98
Space Cooling 1/	0.47	0.43	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.48	0.48	0.49
Water Heating 1/	0.77	0.78	0.78	0.78	0.80	0.82	0.84	0.86	0.88	0.90	0.91	0.92	0.93
Ventilation	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18
Cooking	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.35	0.36	0.36
Lighting	1.09	1.10	1.11	1.13	1.16	1.19	1.23	1.26	1.28	1.31	1.32	1.34	1.36
Refrigeration	0.20	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24
Office Equipment (PC)	0.13	0.14	0.15	0.17	0.19	0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28
Office Equipment (non-PC)	0.31	0.31	0.33	0.34	0.36	0.38	0.40	0.43	0.45	0.47	0.49	0.52	0.54
Other Uses 6/	3.14	3.15	3.20	3.16	3.24	3.32	3.40	3.48	3.56	3.64	3.72	3.80	3.88
Delivered Energy	8.23	8.29	8.33	8.40	8.60	8.85	9.10	9.32	9.53	9.72	9.90	10.07	10.24
Electricity Related Losses	9.18	9.18	9.27	9.50	9.75	10.05	10.32	10.55	10.76	10.97	11.17	11.38	11.58
Total Energy Consumption by End-Use													
Space Heating 1/	1.98	2.06	2.01	2.06	2.09	2.13	2.18	2.21	2.24	2.26	2.28	2.29	2.31
Space Cooling 1/	1.48	1.37	1.29	1.34	1.35	1.38	1.41	1.43	1.44	1.46	1.47	1.47	1.48
Water Heating 1/	1.08	1.08	1.08	1.09	1.11	1.13	1.16	1.18	1.20	1.22	1.23	1.24	1.25
Ventilation	0.52	0.52	0.52	0.52	0.52	0.53	0.54	0.54	0.55	0.55	0.55	0.55	0.55
Cooking	0.36	0.36	0.36	0.36	0.37	0.38	0.39	0.40	0.41	0.41	0.42	0.42	0.43
Lighting	3.51	3.55	3.58	3.62	3.70	3.80	3.90	3.98	4.04	4.10	4.14	4.18	4.21
Refrigeration	0.64	0.65	0.66	0.67	0.67	0.69	0.70	0.71	0.71	0.72	0.73	0.74	0.75
Office Equipment (PC)	0.43	0.44	0.48	0.54	0.59	0.65	0.69	0.73	0.76	0.79	0.82	0.85	0.87
Office Equipment (non-PC)	0.99	1.00	1.05	1.10	1.16	1.23	1.29	1.35	1.41	1.48	1.54	1.62	1.68
Other Uses 6/	6.41	6.44	6.57	6.60	6.78	6.98	7.16	7.34	7.52	7.71	7.89	8.09	8.29
Total	17.40	17.46	17.60	17.90	18.35	18.90	19.42	19.87	20.29	20.69	21.06	21.45	21.81
Non-Marketed Renewable Fuels													
Solar 7/	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

**Table 5. Commercial Sector Key Indicators and Consumption**  
 (Quadrillion Btu per Year, Unless Otherwise Noted)

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
<b>Key Indicators</b>												
Total Floorspace (billion square feet)												
Surviving	85.9	87.4	88.9	90.5	92.0	93.6	95.1	96.7	98.4	100.1	101.8	1.7%
New Additions	2.5	2.5	2.5	2.6	2.6	2.6	2.7	2.7	2.8	2.9	3.0	1.6%
Total	88.4	89.9	91.5	93.0	94.6	96.2	97.8	99.5	101.2	103.0	104.8	1.7%
Energy Consumption Intensity (thousand Btu per square foot)												
Delivered Energy Consumption	117.7	117.9	118.2	118.3	118.3	118.3	118.3	118.5	118.7	119.0	119.2	0.2%
Electricity Related Losses	133.1	133.2	133.5	133.5	133.7	133.7	134.1	134.5	134.9	135.5	136.0	0.3%
Total Energy Consumption	250.8	251.1	251.7	251.8	252.0	252.0	252.4	252.9	253.7	254.5	255.2	0.2%
Delivered Energy Consumption by Fuel												
Purchased Electricity												
Space Heating 1/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.4%
Space Cooling 1/	0.48	0.48	0.49	0.49	0.50	0.51	0.51	0.52	0.53	0.53	0.54	1.2%
Water Heating 1/	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.7%
Ventilation	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.20	0.9%
Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.1%
Lighting	1.37	1.39	1.41	1.42	1.43	1.44	1.45	1.47	1.48	1.50	1.52	1.5%
Refrigeration	0.24	0.25	0.25	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.28	1.6%
Office Equipment (PC)	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	4.5%
Office Equipment (non-PC)	0.57	0.59	0.62	0.64	0.67	0.70	0.73	0.76	0.80	0.83	0.87	4.8%
Other Uses 2/	2.17	2.24	2.32	2.40	2.48	2.56	2.64	2.73	2.81	2.91	3.00	3.3%
Delivered Energy	5.63	5.77	5.91	6.05	6.19	6.33	6.47	6.62	6.79	6.95	7.12	2.5%
Natural Gas												
Space Heating 1/	1.47	1.48	1.49	1.50	1.51	1.51	1.52	1.53	1.54	1.55	1.56	0.7%
Space Cooling 1/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	4.0%
Water Heating 1/	0.72	0.73	0.74	0.76	0.77	0.78	0.79	0.80	0.82	0.83	0.85	1.8%
Cooking	0.34	0.34	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.40	2.0%
Other Uses 3/	1.15	1.16	1.18	1.20	1.21	1.23	1.24	1.26	1.29	1.31	1.33	1.2%
Delivered Energy	3.69	3.73	3.79	3.83	3.87	3.91	3.95	4.00	4.05	4.11	4.17	1.2%
Distillate												
Space Heating 1/	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	3.5%
Water Heating 1/	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.4%
Other Uses 4/	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	-0.3%
Delivered Energy	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.77	1.8%
Marketed Renewables (biomass)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.0%
Other Fuels 5/	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.2%

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	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2003-2025
Delivered Energy Consumption by End-Use												
Space Heating 1/	2.00	2.02	2.04	2.06	2.08	2.09	2.11	2.13	2.15	2.18	2.20	1.1%
Space Cooling 1/	0.49	0.50	0.51	0.52	0.52	0.53	0.54	0.54	0.55	0.56	0.57	1.3%
Water Heating 1/	0.94	0.96	0.97	0.99	1.00	1.01	1.02	1.04	1.05	1.07	1.09	1.5%
Ventilation	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.20	0.9%
Cooking	0.37	0.37	0.38	0.39	0.39	0.40	0.40	0.41	0.42	0.42	0.43	1.8%
Lighting	1.37	1.39	1.41	1.42	1.43	1.44	1.45	1.47	1.48	1.50	1.52	1.5%
Refrigeration	0.24	0.25	0.25	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.28	1.6%
Office Equipment (PC)	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	4.5%
Office Equipment (non-PC)	0.57	0.59	0.62	0.64	0.67	0.70	0.73	0.76	0.80	0.83	0.87	4.8%
Other Uses 6/	3.96	4.05	4.15	4.24	4.33	4.43	4.53	4.63	4.75	4.86	4.98	2.1%
Delivered Energy	10.41	10.60	10.81	11.01	11.19	11.38	11.57	11.78	12.01	12.25	12.49	1.9%
Electricity Related Losses	11.77	11.98	12.21	12.42	12.65	12.86	13.11	13.37	13.65	13.95	14.25	2.0%
Total Energy Consumption by End-Use												
Space Heating 1/	2.32	2.34	2.36	2.38	2.40	2.41	2.43	2.45	2.47	2.50	2.52	0.9%
Space Cooling 1/	1.49	1.50	1.52	1.53	1.55	1.56	1.57	1.59	1.61	1.63	1.66	0.9%
Water Heating 1/	1.26	1.28	1.29	1.31	1.32	1.33	1.34	1.36	1.37	1.39	1.41	1.2%
Ventilation	0.55	0.55	0.56	0.56	0.56	0.56	0.57	0.57	0.58	0.58	0.59	0.6%
Cooking	0.43	0.44	0.44	0.45	0.45	0.46	0.46	0.47	0.48	0.48	0.49	1.4%
Lighting	4.23	4.27	4.31	4.33	4.35	4.36	4.39	4.42	4.47	4.51	4.56	1.1%
Refrigeration	0.75	0.76	0.77	0.78	0.79	0.80	0.80	0.82	0.83	0.84	0.85	1.2%
Office Equipment (PC)	0.90	0.92	0.95	0.97	0.99	1.01	1.02	1.04	1.05	1.07	1.08	4.2%
Office Equipment (non-PC)	1.75	1.82	1.89	1.97	2.04	2.13	2.21	2.30	2.40	2.50	2.61	4.5%
Other Uses 6/	8.49	8.71	8.94	9.16	9.39	9.63	9.88	10.14	10.41	10.69	10.98	2.5%
Total	22.18	22.58	23.03	23.43	23.84	24.24	24.69	25.16	25.66	26.20	26.74	2.0%
Non-Marketed Renewable Fuels												
Solar 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	2.1%

**Table 5. Commercial Sector Key Indicators and Consumption**  
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1/ Includes fuel consumption for district services.

2/ Includes miscellaneous uses, such as service station equipment, automated teller machines, telecommunications equipment, and medical equipment.

3/ Includes miscellaneous uses, such as pumps, emergency electric generators, combined heat and power in commercial buildings, and manufacturing performed in commercial buildings.

4/ Includes miscellaneous uses, such as cooking, emergency electric generators, and combined heat and power in commercial buildings.

5/ Includes residual fuel oil, liquefied petroleum gas, coal, motor gasoline, and kerosene.

6/ Includes miscellaneous uses, such as service station equipment, automated teller machines, telecommunications equipment, medical equipment, pumps, emergency electric generators, combined heat and power in commercial buildings, manufacturing performed in commercial buildings, and cooking (distillate), plus residual fuel oil, liquefied petroleum gas, coal, motor gasoline, and kerosene.

7/ Includes primary energy displaced by solar thermal space heating and water heating, and electricity generation by solar photovoltaic systems.

N/A = Not applicable.

Btu = British thermal unit.

PC = Personal computer.

Note: Totals may not equal sum of components due to independent rounding. Data for 2002 and 2003 are model results and may differ slightly from official EIA data reports.

Source: 2002 and 2003 based on: Energy Information Administration (EIA), Annual Energy Review 2003, DOE/EIA-0384(2003) (Washington, DC, September 2004).

Projections: EIA, AEO2005 National Energy Modeling System run aeo2005.d102004a.