

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Key Indicators											
Total Floorspace (billion square feet)											
Surviving	67.2	68.9	70.7	72.8	74.6	76.2	77.5	78.7	79.9	81.1	82.4
New Additions	3.1	3.2	3.4	3.2	2.9	2.7	2.6	2.6	2.6	2.7	2.7
Total	70.2	72.1	74.1	76.0	77.6	78.9	80.1	81.3	82.5	83.8	85.1
Energy Consumption Intensity (thousand Btu per square foot)											
Delivered Energy Consumption	118.8	114.5	113.8	112.1	112.8	113.8	114.5	115.0	115.5	116.2	116.6
Electricity Related Losses	131.5	126.9	123.7	123.9	125.3	126.7	128.1	129.1	128.9	129.6	130.1
Total Energy Consumption	250.3	241.4	237.5	236.0	238.2	240.5	242.6	244.0	244.4	245.8	246.7
Delivered Energy Consumption by Fuel											
Purchased Electricity											
Space Heating 1/	0.14	0.15	0.16	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16
Space Cooling 1/	0.41	0.46	0.42	0.42	0.43	0.43	0.44	0.44	0.44	0.45	0.45
Water Heating 1/	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15
Ventilation	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
Lighting	1.10	1.12	1.14	1.17	1.20	1.22	1.25	1.27	1.28	1.30	1.32
Refrigeration	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.23
Office Equipment (PC)	0.14	0.14	0.15	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25
Office Equipment (non-PC)	0.30	0.31	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.46	0.49
Other Uses 2/	1.45	1.41	1.41	1.47	1.54	1.60	1.66	1.72	1.79	1.86	1.93
Delivered Energy	4.09	4.12	4.14	4.28	4.42	4.55	4.68	4.80	4.92	5.05	5.18
Natural Gas											
Space Heating 1/	1.33	1.42	1.49	1.46	1.48	1.51	1.52	1.53	1.55	1.56	1.57
Space Cooling 1/	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02
Water Heating 1/	0.57	0.59	0.59	0.61	0.62	0.64	0.65	0.67	0.68	0.70	0.71
Cooking	0.25	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.30	0.30	0.31
Other Uses 3/	1.17	0.93	0.90	0.85	0.87	0.90	0.93	0.94	0.97	0.99	1.01
Delivered Energy	3.33	3.21	3.26	3.20	3.26	3.34	3.40	3.45	3.51	3.57	3.62
Distillate											
Space Heating 1/	0.17	0.17	0.20	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.25
Water Heating 1/	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Other Uses 4/	0.25	0.24	0.30	0.28	0.29	0.29	0.29	0.29	0.29	0.30	0.30
Delivered Energy	0.49	0.49	0.57	0.56	0.58	0.59	0.60	0.61	0.62	0.62	0.63
Other Fuels 5/	0.35	0.33	0.37	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.40

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
<b>Marketed Renewable Fuels</b>											
Biomass	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Delivered Energy	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
<b>Delivered Energy Consumption by End-Use</b>											
Space Heating 1/	1.64	1.74	1.84	1.82	1.85	1.88	1.90	1.92	1.94	1.97	1.98
Space Cooling 1/	0.43	0.48	0.43	0.43	0.44	0.45	0.45	0.46	0.46	0.47	0.47
Water Heating 1/	0.78	0.80	0.81	0.82	0.84	0.86	0.88	0.89	0.91	0.93	0.94
Ventilation	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	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.34	0.34
Lighting	1.10	1.12	1.14	1.17	1.20	1.22	1.25	1.27	1.28	1.30	1.32
Refrigeration	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.23
Office Equipment (PC)	0.14	0.14	0.15	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25
Office Equipment (non-PC)	0.30	0.31	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.46	0.49
Other Uses 6/	3.31	3.01	3.08	3.10	3.19	3.29	3.37	3.45	3.54	3.63	3.72
Delivered Energy	8.34	8.25	8.44	8.52	8.75	8.98	9.17	9.35	9.54	9.74	9.92
Electricity Related Losses	9.24	9.15	9.17	9.42	9.72	10.00	10.26	10.49	10.64	10.86	11.07
<b>Total Energy Consumption by End-Use</b>											
Space Heating 1/	1.97	2.07	2.19	2.15	2.19	2.22	2.25	2.27	2.29	2.31	2.32
Space Cooling 1/	1.36	1.51	1.36	1.36	1.38	1.39	1.41	1.42	1.42	1.43	1.44
Water Heating 1/	1.10	1.11	1.12	1.14	1.16	1.18	1.20	1.22	1.23	1.25	1.26
Ventilation	0.53	0.52	0.53	0.53	0.54	0.55	0.55	0.55	0.55	0.56	0.56
Cooking	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.39	0.40	0.40	0.41
Lighting	3.58	3.60	3.67	3.76	3.84	3.91	3.98	4.04	4.06	4.10	4.14
Refrigeration	0.65	0.65	0.66	0.67	0.68	0.68	0.69	0.69	0.70	0.70	0.71
Office Equipment (PC)	0.46	0.44	0.49	0.55	0.61	0.65	0.68	0.71	0.74	0.76	0.79
Office Equipment (non-PC)	0.99	1.00	1.02	1.08	1.14	1.21	1.27	1.34	1.39	1.46	1.53
Other Uses 6/	6.59	6.14	6.21	6.34	6.58	6.80	7.02	7.22	7.40	7.63	7.84
Total	17.58	17.40	17.61	17.94	18.47	18.98	19.43	19.85	20.18	20.60	20.99
<b>Non-Marketed Renewable Fuels</b>											
Solar 7/	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.02	0.02	0.02	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)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Key Indicators											
Total Floorspace (billion square feet)											
Surviving	83.7	84.9	86.1	87.3	88.4	89.6	90.7	91.9	93.1	94.3	95.5
New Additions	2.7	2.7	2.7	2.6	2.7	2.7	2.7	2.8	2.8	2.8	2.7
Total	86.4	87.6	88.8	89.9	91.1	92.3	93.5	94.7	95.9	97.1	98.2
Energy Consumption Intensity (thousand Btu per square foot)											
Delivered Energy Consumption	116.7	116.7	116.8	116.9	117.0	117.2	117.5	118.0	118.3	118.5	118.7
Electricity Related Losses	130.5	130.8	130.9	131.0	131.3	131.7	131.8	132.4	132.7	133.0	133.4
Total Energy Consumption	247.2	247.6	247.7	247.9	248.3	248.9	249.3	250.3	251.0	251.5	252.1
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
Space Cooling 1/	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.48
Water Heating 1/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Ventilation	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19
Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Lighting	1.33	1.35	1.36	1.36	1.36	1.37	1.38	1.39	1.40	1.41	1.41
Refrigeration	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24
Office Equipment (PC)	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.34	0.35
Office Equipment (non-PC)	0.51	0.53	0.56	0.58	0.60	0.63	0.65	0.68	0.71	0.74	0.77
Other Uses 2/	1.99	2.06	2.14	2.21	2.27	2.34	2.41	2.48	2.55	2.62	2.69
Delivered Energy	5.29	5.42	5.53	5.64	5.74	5.86	5.98	6.11	6.24	6.35	6.47
Natural Gas											
Space Heating 1/	1.58	1.58	1.58	1.58	1.59	1.60	1.61	1.63	1.64	1.65	1.65
Space Cooling 1/	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
Water Heating 1/	0.72	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81
Cooking	0.31	0.32	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35
Other Uses 3/	1.03	1.04	1.05	1.06	1.07	1.08	1.10	1.12	1.14	1.15	1.17
Delivered Energy	3.65	3.68	3.70	3.72	3.75	3.79	3.84	3.89	3.94	3.97	4.01
Distillate											
Space Heating 1/	0.25	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30	0.30
Water Heating 1/	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Other Uses 4/	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Delivered Energy	0.63	0.64	0.65	0.65	0.66	0.66	0.67	0.67	0.67	0.68	0.68
Other Fuels 5/	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Marketed Renewable Fuels</b>											
Biomass	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Delivered Energy	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
<b>Delivered Energy Consumption by End-Use</b>											
Space Heating 1/	1.99	2.00	2.00	2.01	2.02	2.04	2.05	2.07	2.09	2.10	2.11
Space Cooling 1/	0.48	0.48	0.48	0.48	0.49	0.49	0.50	0.50	0.50	0.51	0.51
Water Heating 1/	0.95	0.96	0.96	0.97	0.98	0.99	1.00	1.02	1.03	1.04	1.05
Ventilation	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19
Cooking	0.34	0.35	0.35	0.35	0.35	0.35	0.36	0.37	0.37	0.38	0.38
Lighting	1.33	1.35	1.36	1.36	1.36	1.37	1.38	1.39	1.40	1.41	1.41
Refrigeration	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24
Office Equipment (PC)	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.34	0.35
Office Equipment (non-PC)	0.51	0.53	0.56	0.58	0.60	0.63	0.65	0.68	0.71	0.74	0.77
Other Uses 6/	3.81	3.89	3.98	4.06	4.13	4.21	4.30	4.39	4.48	4.57	4.65
Delivered Energy	10.08	10.23	10.37	10.51	10.65	10.81	10.98	11.17	11.35	11.50	11.66
Electricity Related Losses	11.28	11.46	11.62	11.79	11.96	12.15	12.32	12.53	12.73	12.91	13.09
<b>Total Energy Consumption by End-Use</b>											
Space Heating 1/	2.33	2.33	2.34	2.34	2.35	2.36	2.38	2.40	2.41	2.42	2.43
Space Cooling 1/	1.44	1.45	1.45	1.45	1.45	1.46	1.46	1.47	1.48	1.48	1.49
Water Heating 1/	1.27	1.27	1.28	1.28	1.29	1.30	1.31	1.32	1.33	1.34	1.35
Ventilation	0.56	0.56	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.56
Cooking	0.41	0.41	0.41	0.41	0.41	0.41	0.42	0.43	0.43	0.43	0.43
Lighting	4.17	4.19	4.20	4.20	4.20	4.21	4.22	4.24	4.25	4.26	4.26
Refrigeration	0.71	0.72	0.71	0.71	0.72	0.72	0.72	0.73	0.73	0.74	0.74
Office Equipment (PC)	0.81	0.84	0.86	0.89	0.92	0.95	0.98	1.01	1.03	1.04	1.06
Office Equipment (non-PC)	1.59	1.66	1.73	1.79	1.86	1.93	2.00	2.08	2.16	2.24	2.33
Other Uses 6/	8.06	8.26	8.46	8.67	8.86	9.06	9.25	9.47	9.69	9.90	10.11
Total	21.35	21.69	21.99	22.30	22.61	22.96	23.30	23.70	24.07	24.42	24.75
<b>Non-Marketed Renewable Fuels</b>											
Solar 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	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)**

	2023	2024	2025	2002- 2025
<b>Key Indicators</b>				
<b>Total Floorspace (billion square feet)</b>				
Surviving	96.5	97.7	98.8	1.6%
New Additions	2.8	2.9	3.0	-0.3%
Total	99.3	100.5	101.8	1.5%
<b>Energy Consumption Intensity (thousand Btu per square foot)</b>				
Delivered Energy Consumption	119.0	119.4	119.7	0.2%
Electricity Related Losses	133.7	134.1	134.6	0.3%
Total Energy Consumption	252.8	253.5	254.3	0.2%
<b>Delivered Energy Consumption by Fuel</b>				
<b>Purchased Electricity</b>				
Space Heating 1/	0.16	0.16	0.16	0.2%
Space Cooling 1/	0.48	0.49	0.49	0.2%
Water Heating 1/	0.15	0.15	0.15	0.3%
Ventilation	0.19	0.19	0.19	0.7%
Cooking	0.03	0.03	0.03	-0.7%
Lighting	1.42	1.42	1.43	1.1%
Refrigeration	0.25	0.25	0.25	0.9%
Office Equipment (PC)	0.36	0.36	0.37	4.4%
Office Equipment (non-PC)	0.80	0.83	0.87	4.6%
Other Uses 2/	2.76	2.83	2.91	3.2%
Delivered Energy	6.58	6.70	6.83	2.2%
<b>Natural Gas</b>				
Space Heating 1/	1.66	1.68	1.69	0.8%
Space Cooling 1/	0.03	0.03	0.03	3.9%
Water Heating 1/	0.82	0.83	0.84	1.5%
Cooking	0.35	0.35	0.36	1.4%
Other Uses 3/	1.19	1.21	1.24	1.3%
Delivered Energy	4.05	4.10	4.16	1.1%
<b>Distillate</b>				
Space Heating 1/	0.31	0.31	0.31	2.6%
Water Heating 1/	0.09	0.09	0.09	1.0%
Other Uses 4/	0.29	0.29	0.29	0.9%
Delivered Energy	0.69	0.69	0.70	1.6%
Other Fuels 5/	0.40	0.40	0.40	0.8%

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

	2023	2024	2025	2002- 2025
<b>Marketed Renewable Fuels</b>				
Biomass	0.10	0.10	0.10	0.0%
Delivered Energy	0.10	0.10	0.10	0.0%
<b>Delivered Energy Consumption by End-Use</b>				
Space Heating 1/	2.13	2.14	2.16	0.9%
Space Cooling 1/	0.51	0.52	0.52	0.4%
Water Heating 1/	1.05	1.06	1.08	1.3%
Ventilation	0.19	0.19	0.19	0.7%
Cooking	0.38	0.38	0.39	1.2%
Lighting	1.42	1.42	1.43	1.1%
Refrigeration	0.25	0.25	0.25	0.9%
Office Equipment (PC)	0.36	0.36	0.37	4.4%
Office Equipment (non-PC)	0.80	0.83	0.87	4.6%
Other Uses 6/	4.75	4.84	4.94	2.2%
Delivered Energy	11.82	12.00	12.19	1.7%
Electricity Related Losses	13.28	13.48	13.70	1.8%
<b>Total Energy Consumption by End-Use</b>				
Space Heating 1/	2.44	2.46	2.47	0.8%
Space Cooling 1/	1.49	1.49	1.50	0.0%
Water Heating 1/	1.36	1.36	1.37	0.9%
Ventilation	0.56	0.56	0.57	0.4%
Cooking	0.44	0.44	0.44	0.8%
Lighting	4.27	4.28	4.30	0.8%
Refrigeration	0.74	0.74	0.75	0.6%
Office Equipment (PC)	1.07	1.09	1.10	4.1%
Office Equipment (non-PC)	2.41	2.51	2.61	4.3%
Other Uses 6/	10.32	10.54	10.77	2.5%
Total	25.11	25.48	25.89	1.7%
<b>Non-Marketed Renewable Fuels</b>				
Solar 7/	0.03	0.03	0.03	1.5%
Total	0.03	0.03	0.03	1.5%

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

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 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Source: 2001 and 2002: Energy Information Administration (EIA), Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.