

Table 1. Total Energy Supply and Disposition Summary (Quadrillion Btu per Year, Unless Otherwise Noted)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Production											
Crude Oil & Lease Condensate	12.16	11.91	12.04	12.27	12.41	12.56	12.89	12.94	12.82	12.56	12.32
Natural Gas Plant Liquids	2.55	2.56	2.35	2.70	2.98	3.00	3.04	3.07	3.07	3.10	3.13
Dry Natural Gas	20.23	19.56	20.09	20.04	20.11	20.19	20.49	20.76	20.80	21.05	21.36
Coal	23.97	22.70	22.66	23.12	23.51	24.03	24.50	24.66	25.03	25.25	25.41
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35
Renewable Energy 1/	5.25	5.84	5.98	6.41	6.54	6.67	6.79	6.91	7.04	7.18	7.32
Other 2/	0.53	1.13	0.94	0.98	0.76	0.82	0.88	0.91	0.94	0.88	0.81
Total	72.72	71.85	72.03	73.65	74.57	75.57	76.89	77.57	77.94	78.30	78.69
Imports											
Crude Oil 3/	20.26	19.84	20.68	21.15	21.35	22.05	22.48	23.03	23.69	24.51	25.61
Petroleum Products 4/	5.04	4.75	4.87	5.26	5.39	5.41	5.37	5.55	5.61	5.76	5.71
Natural Gas	4.06	4.10	4.29	4.50	4.78	5.22	5.40	5.78	6.07	6.54	6.81
Other Imports 5/	0.59	0.52	0.69	0.70	0.77	0.80	0.84	0.88	0.92	0.95	0.98
Total	29.95	29.21	30.53	31.62	32.29	33.47	34.09	35.24	36.28	37.76	39.11
Exports											
Petroleum 6/	2.01	2.03	2.03	2.08	2.07	2.08	2.09	2.12	2.14	2.15	2.11
Natural Gas	0.38	0.52	0.70	0.81	0.82	0.84	0.86	0.88	0.90	0.91	0.91
Coal	1.26	1.03	1.07	1.04	1.02	1.00	0.98	0.95	0.93	0.89	0.87
Total	3.65	3.58	3.79	3.93	3.90	3.91	3.93	3.95	3.98	3.95	3.89
Discrepancy 7/	2.09	-0.24	0.69	1.14	0.21	0.27	0.28	0.30	0.33	0.34	0.39
Consumption											
Petroleum Products 8/	38.49	38.11	38.75	39.18	40.52	41.40	42.16	42.94	43.50	44.15	44.90
Natural Gas	23.05	23.37	22.66	23.77	24.14	24.66	25.13	25.77	26.09	26.82	27.40
Coal	22.04	22.18	22.59	22.60	23.18	23.75	24.30	24.53	24.95	25.23	25.44
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35
Renewable Energy 1/	5.25	5.84	5.98	6.41	6.54	6.67	6.79	6.92	7.04	7.18	7.32
Other 9/	0.08	0.07	0.14	0.10	0.11	0.10	0.09	0.09	0.10	0.11	0.11
Total	96.94	97.72	98.08	100.20	102.75	104.87	106.77	108.56	109.92	111.77	113.52
Net Imports - Petroleum	23.29	22.56	23.52	24.33	24.68	25.38	25.75	26.45	27.16	28.13	29.21
Prices (2002 dollars per unit)											
World Oil Price (dollars per barrel) 10/	22.25	23.68	27.25	23.84	23.30	23.47	23.65	23.83	24.00	24.17	24.37
Natural Gas Wellhead Price (dollars per Mcf) 11/	4.14	2.95	4.90	3.88	3.54	3.48	3.53	3.64	3.47	3.40	3.56
Coal Minemouth Price (dollars per ton)	17.79	17.90	17.79	17.64	17.24	16.99	16.98	17.17	16.93	16.88	16.84
Average Electricity (cents per kilowatthour)	7.4	7.2	7.1	7.0	6.8	6.7	6.6	6.6	6.7	6.6	6.6

Table 1. Total Energy Supply and Disposition Summary (Quadrillion Btu per Year, Unless Otherwise Noted)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Production											
Crude Oil & Lease Condensate	12.10	11.97	11.78	11.71	11.47	11.16	11.14	10.88	10.49	10.25	10.00
Natural Gas Plant Liquids	3.16	3.18	3.18	3.20	3.19	3.24	3.35	3.44	3.47	3.43	3.40
Dry Natural Gas	21.68	21.88	22.01	22.20	22.16	22.58	23.44	24.18	24.43	24.18	24.01
Coal	25.53	25.69	25.87	26.14	26.44	26.77	27.05	27.47	27.92	28.45	29.19
Nuclear Power	8.38	8.41	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53
Renewable Energy 1/	7.45	7.59	7.71	7.84	7.94	8.05	8.15	8.28	8.45	8.58	8.66
Other 2/	0.79	0.77	0.79	0.79	0.79	0.79	0.79	0.77	0.81	0.81	0.82
Total	79.09	79.49	79.78	80.36	80.48	81.12	82.43	83.55	84.09	84.22	84.60
Imports											
Crude Oil 3/	26.72	27.81	28.82	29.37	29.84	30.37	30.54	30.98	31.55	32.32	33.08
Petroleum Products 4/	5.75	5.73	5.74	6.00	6.41	6.76	7.12	7.45	7.83	8.11	8.31
Natural Gas	6.95	7.10	7.25	7.29	7.84	7.87	7.72	7.51	7.56	7.77	8.08
Other Imports 5/	1.00	1.02	1.04	1.06	1.06	1.08	1.09	1.08	1.12	1.13	1.14
Total	40.41	41.65	42.85	43.72	45.14	46.08	46.48	47.01	48.06	49.34	50.61
Exports											
Petroleum 6/	2.14	2.15	2.16	2.18	2.17	2.16	2.16	2.14	2.13	2.14	2.13
Natural Gas	0.91	0.91	0.89	0.90	0.91	0.92	0.92	0.93	0.93	0.92	0.92
Coal	0.80	0.78	0.79	0.80	0.81	0.81	0.82	0.77	0.69	0.68	0.68
Total	3.85	3.84	3.85	3.88	3.88	3.89	3.90	3.84	3.75	3.74	3.73
Discrepancy 7/	0.38	0.40	0.42	0.46	0.46	0.45	0.46	0.47	0.48	0.53	0.54
Consumption											
Petroleum Products 8/	45.82	46.74	47.55	48.26	48.88	49.53	50.13	50.72	51.35	52.06	52.74
Natural Gas	27.87	28.22	28.51	28.74	29.24	29.69	30.39	30.91	31.21	31.18	31.32
Coal	25.65	25.85	26.05	26.32	26.62	26.97	27.27	27.74	28.30	28.88	29.64
Nuclear Power	8.38	8.41	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53
Renewable Energy 1/	7.45	7.59	7.71	7.84	7.94	8.05	8.15	8.28	8.46	8.58	8.66
Other 9/	0.11	0.11	0.10	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05
Total	115.28	116.92	118.36	119.75	121.28	122.86	124.55	126.25	127.92	129.29	130.93
Net Imports - Petroleum	30.32	31.39	32.40	33.20	34.07	34.97	35.50	36.28	37.25	38.30	39.25
Prices (2002 dollars per unit)											
World Oil Price (dollars per barrel) 10/	24.53	24.72	24.90	25.07	25.26	25.45	25.64	25.84	26.02	26.21	26.40
Natural Gas Wellhead Price (dollars per Mcf) 11/	3.75	3.93	4.01	4.19	4.22	4.23	4.17	4.13	4.28	4.45	4.42
Coal Minemouth Price (dollars per ton)	16.69	16.59	16.45	16.47	16.19	16.29	16.31	16.16	16.32	16.45	16.56
Average Electricity (cents per kilowatthour)	6.7	6.7	6.8	6.8	6.9	6.8	6.9	6.8	6.9	6.9	6.9

Table 1. Total Energy Supply and Disposition Summary (Quadrillion Btu per Year, Unless Otherwise Noted)

	2023	2024	2025	2002- 2025
Production				
Crude Oil & Lease Condensate	10.08	10.05	9.77	-0.9%
Natural Gas Plant Liquids	3.41	3.46	3.47	1.3%
Dry Natural Gas	24.15	24.53	24.64	1.0%
Coal	30.05	30.53	31.10	1.4%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 1/	8.73	8.85	9.00	1.9%
Other 2/	0.83	0.83	0.84	-1.3%
Total	85.77	86.78	87.33	0.9%
Imports				
Crude Oil 3/	33.49	33.71	34.21	2.4%
Petroleum Products 4/	8.49	9.03	9.63	3.1%
Natural Gas	8.10	8.19	8.29	3.1%
Other Imports 5/	1.16	1.17	1.18	3.6%
Total	51.24	52.10	53.30	2.6%
Exports				
Petroleum 6/	2.14	2.15	2.15	0.2%
Natural Gas	0.91	0.89	0.88	2.3%
Coal	0.69	0.68	0.56	-2.6%
Total	3.74	3.73	3.59	0.0%
Discrepancy 7/	0.55	0.55	0.56	N/A
Consumption				
Petroleum Products 8/	53.42	54.19	54.99	1.6%
Natural Gas	31.49	31.98	32.21	1.4%
Coal	30.52	31.03	31.73	1.6%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 1/	8.73	8.85	9.00	1.9%
Other 9/	0.04	0.03	0.03	-4.6%
Total	132.73	134.61	136.48	1.5%
Net Imports - Petroleum	39.84	40.59	41.69	2.7%
Prices (2002 dollars per unit)				
World Oil Price (dollars per barrel) 10/	26.60	26.79	27.00	0.6%
Natural Gas Wellhead Price (dollars per Mcf) 11/	4.42	4.42	4.40	1.8%
Coal Minemouth Price (dollars per ton)	16.58	16.65	16.57	-0.3%
Average Electricity (cents per kilowatthour)	6.8	6.9	6.9	-0.2%

Table 1. Total Energy Supply and Disposition Summary (Quadrillion Btu per Year, Unless Otherwise Noted)

1/ Includes grid-connected electricity from conventional hydroelectric; wood and wood waste; landfill gas; municipal solid waste; other biomass; wind; photovoltaic and solar thermal sources; non-electric energy from renewable sources, such as active and passive solar systems, and wood; and both the ethanol and gasoline components of E85, but not the ethanol components of blends less than 85 percent. Excludes electricity imports using renewable sources and nonmarketed renewable energy. See Table A18 for selected nonmarketed residential and commercial renewable energy.

2/ Includes liquid hydrogen, methanol, supplemental natural gas, and some domestic inputs to refineries.

3/ Includes imports of crude oil for the Strategic Petroleum Reserve.

4/ Includes imports of finished petroleum products, unfinished oils, alcohols, ethers, and blending components.

5/ Includes coal, coal coke (net), and electricity (net).

6/ Includes crude oil and petroleum products.

7/ Balancing item. Includes unaccounted for supply, losses, gains, net storage withdrawals, heat loss when natural gas is converted to liquid fuel, and heat loss when coal is converted to liquid fuel.

8/ Includes natural gas plant liquids, crude oil consumed as a fuel, and nonpetroleum-based liquids for blending, such as ethanol.

9/ Includes net electricity imports, methanol, and liquid hydrogen.

10/ Average refiner acquisition cost for imported crude oil.

11/ Represents lower 48 onshore and offshore supplies.

Btu = British thermal unit.

Mcf = Thousand cubic feet.

N/A = Not applicable.

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.

Sources: 2001 natural gas supply values: Energy Information Administration (EIA), Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 natural gas supply values: Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 coal minemouth prices: EIA, Annual Coal Report 2001, DOE/EIA-0584(2001) (Washington, DC, March 2003). 2002 coal minemouth prices: EIA, Preliminary Annual Coal Report 2002 Tables, http://www.eia.doe.gov/cneaf/coal/page/acr/tables/acr_html_tabs02.html (September 2003). 2001 petroleum supply values: EIA, Petroleum Supply Annual 2001, DOE/EIA-0340(2001)/1 (Washington, DC, June 2002). 2002 petroleum supply values: EIA, Petroleum Supply Annual 2002, DOE/EIA-0340(2002)/1 (Washington, DC, June 2003). Other 2001 and 2002 values: EIA, Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003), and EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Energy Consumption											
Residential											
Distillate Fuel	0.90	0.89	0.92	0.95	0.95	0.95	0.95	0.95	0.94	0.93	0.92
Kerosene	0.11	0.07	0.08	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Liquefied Petroleum Gas	0.50	0.53	0.50	0.51	0.52	0.53	0.54	0.55	0.55	0.56	0.56
Petroleum Subtotal	1.51	1.48	1.51	1.58	1.59	1.60	1.60	1.61	1.60	1.60	1.60
Natural Gas	4.92	5.06	5.21	5.32	5.35	5.44	5.50	5.57	5.62	5.69	5.74
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Energy 1/ Electricity	0.36 4.10	0.39 4.33	0.41 4.37	0.41 4.44	0.40 4.50	0.40 4.57	0.40 4.64	0.41 4.73	0.40 4.79	0.40 4.87	0.40 4.95
Delivered Energy	10.91	11.28	11.52	11.76	11.86	12.02	12.16	12.33	12.43	12.58	12.70
Electricity Related Losses	9.28	9.60	9.69	9.78	9.89	10.03	10.18	10.34	10.36	10.48	10.58
Total	20.18	20.88	21.21	21.54	21.75	22.05	22.34	22.66	22.79	23.06	23.28
Commercial											
Distillate Fuel	0.49	0.49	0.57	0.56	0.58	0.59	0.60	0.61	0.62	0.62	0.63
Residual Fuel	0.09	0.08	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Kerosene	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Liquefied Petroleum Gas	0.09	0.09	0.09	0.09	0.10	0.09	0.10	0.10	0.10	0.10	0.10
Motor Gasoline 2/ Petroleum Subtotal	0.05 0.74	0.05 0.72	0.05 0.85	0.05 0.85	0.05 0.87	0.05 0.88	0.05 0.89	0.05 0.90	0.05 0.91	0.05 0.92	0.05 0.92
Natural Gas	3.33	3.21	3.26	3.20	3.26	3.34	3.40	3.45	3.51	3.57	3.62
Coal	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Renewable Energy 3/ Electricity	0.09 4.09	0.10 4.12	0.10 4.14	0.10 4.28	0.10 4.42	0.10 4.55	0.10 4.68	0.10 4.80	0.10 4.92	0.10 5.05	0.10 5.18
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
Total	17.58	17.40	17.61	17.94	18.47	18.98	19.43	19.85	20.18	20.60	20.99
Industrial 4/											
Distillate Fuel	1.21	1.16	1.17	1.14	1.15	1.16	1.16	1.17	1.16	1.17	1.19
Liquefied Petroleum Gas	2.10	2.22	2.12	2.16	2.21	2.24	2.29	2.32	2.33	2.35	2.39
Petrochemical Feedstocks	1.16	1.22	1.27	1.28	1.30	1.32	1.33	1.34	1.33	1.35	1.37
Residual Fuel	0.15	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Motor Gasoline 2/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Other Petroleum 5/ Petroleum Subtotal	4.27 9.04	4.03 9.00	4.05 8.98	3.96 8.90	4.24 9.27	4.34 9.42	4.37 9.53	4.41 9.61	4.40 9.59	4.38 9.63	4.37 9.70
Natural Gas	7.56	7.43	7.41	7.76	7.94	8.05	8.18	8.27	8.42	8.62	8.80
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.12 8.67	1.35 8.78	1.03 8.44	1.02 8.78	1.08 9.02	1.14 9.20	1.21 9.39	1.28 9.55	1.33 9.75	1.40 10.02	1.42 10.22
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63
Steam Coal	1.51	1.47	1.40	1.40	1.41	1.41	1.41	1.41	1.40	1.41	1.41
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01

**Table 2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Coal Subtotal	2.25	2.12	2.11	2.11	2.11	2.10	2.09	2.08	2.07	2.06	2.06
Renewable Energy 7/	1.64	1.66	1.66	1.72	1.79	1.84	1.87	1.91	1.95	2.00	2.05
Electricity	3.29	3.39	3.34	3.42	3.52	3.59	3.66	3.72	3.76	3.82	3.89
Delivered Energy	24.89	24.94	24.52	24.94	25.70	26.15	26.54	26.86	27.12	27.53	27.91
Electricity Related Losses	7.44	7.53	7.39	7.53	7.73	7.89	8.03	8.12	8.13	8.22	8.32
Total	32.33	32.47	31.91	32.47	33.43	34.03	34.57	34.98	35.26	35.75	36.23
Transportation											
Distillate Fuel 8/	5.32	5.12	5.16	5.37	5.58	5.76	5.93	6.08	6.24	6.42	6.60
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.45	3.56	3.64	3.74	3.83	3.93	4.01
Motor Gasoline 2/	16.17	16.62	16.95	17.53	18.04	18.45	18.80	19.16	19.52	19.88	20.23
Residual Fuel	0.84	0.71	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.80
Liquefied Petroleum Gas	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06
Other Petroleum 10/	0.19	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26
Petroleum Subtotal	25.96	26.06	26.41	27.29	28.13	28.84	29.45	30.07	30.69	31.34	31.96
Pipeline Fuel Natural Gas	0.64	0.65	0.68	0.67	0.67	0.66	0.67	0.67	0.68	0.69	0.70
Compressed Natural Gas	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06
Renewable Energy (E85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09
Delivered Energy	26.69	26.79	27.18	28.07	28.91	29.63	30.25	30.88	31.51	32.18	32.82
Electricity Related Losses	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20
Total	26.85	26.96	27.36	28.24	29.09	29.81	30.43	31.07	31.70	32.37	33.01
Delivered Energy Consumption, All Sectors											
Distillate Fuel	7.92	7.66	7.83	8.02	8.26	8.46	8.64	8.80	8.95	9.15	9.35
Kerosene	0.15	0.09	0.11	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.45	3.56	3.64	3.74	3.83	3.93	4.01
Liquefied Petroleum Gas	2.70	2.86	2.73	2.79	2.87	2.91	2.97	3.01	3.03	3.07	3.11
Motor Gasoline 2/	16.37	16.83	17.16	17.74	18.24	18.65	19.01	19.37	19.72	20.09	20.44
Petrochemical Feedstocks	1.16	1.22	1.27	1.28	1.30	1.32	1.33	1.34	1.33	1.35	1.37
Residual Fuel	1.07	1.00	1.10	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.14
Other Petroleum 12/	4.45	4.26	4.28	4.19	4.47	4.56	4.60	4.64	4.63	4.61	4.60
Petroleum Subtotal	37.25	37.26	37.74	38.63	39.86	40.75	41.48	42.20	42.79	43.48	44.18
Natural Gas	15.81	15.71	15.90	16.31	16.58	16.87	17.12	17.34	17.60	17.94	18.23
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.08	1.14	1.21	1.28	1.33	1.40	1.42
Pipeline Natural Gas	0.64	0.65	0.68	0.67	0.67	0.66	0.67	0.67	0.68	0.69	0.70
Natural Gas Subtotal	17.57	17.72	17.60	17.99	18.33	18.68	19.00	19.29	19.61	20.03	20.35
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63
Steam Coal	1.62	1.58	1.51	1.51	1.52	1.52	1.52	1.52	1.51	1.52	1.52
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
Coal Subtotal	2.36	2.23	2.22	2.22	2.22	2.21	2.20	2.19	2.18	2.17	2.17
Renewable Energy 13/	2.09	2.15	2.17	2.23	2.29	2.34	2.38	2.41	2.45	2.50	2.56
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	11.55	11.92	11.93	12.22	12.52	12.80	13.07	13.34	13.57	13.83	14.10
Delivered Energy	70.83	71.27	71.66	73.29	75.23	76.77	78.12	79.42	80.60	82.03	83.35

**Table 2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Electricity Related Losses	26.12	26.45	26.43	26.91	27.52	28.09	28.65	29.14	29.32	29.75	30.17
Total	96.94	97.72	98.08	100.20	102.75	104.87	106.77	108.56	109.92	111.77	113.52
Electric Generators 14/											
Distillate Fuel	0.33	0.16	0.17	0.17	0.19	0.19	0.20	0.23	0.20	0.16	0.19
Residual Fuel	0.91	0.69	0.83	0.38	0.47	0.46	0.48	0.52	0.51	0.51	0.53
Petroleum Subtotal	1.25	0.85	1.01	0.55	0.66	0.65	0.68	0.75	0.71	0.66	0.72
Natural Gas	5.48	5.65	5.06	5.78	5.81	5.98	6.13	6.48	6.48	6.79	7.05
Steam Coal	19.68	19.96	20.37	20.38	20.96	21.54	22.10	22.34	22.76	23.05	23.27
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35
Renewable Energy/Other 15/	3.16	3.69	3.81	4.18	4.25	4.33	4.42	4.50	4.59	4.68	4.77
Electricity Imports	0.08	0.07	0.14	0.10	0.11	0.10	0.09	0.09	0.10	0.11	0.11
Total	37.67	38.36	38.35	39.13	40.04	40.89	41.72	42.48	42.89	43.58	44.27
Total Energy Consumption											
Distillate Fuel	8.26	7.82	8.01	8.19	8.44	8.65	8.84	9.03	9.15	9.31	9.54
Kerosene	0.15	0.09	0.11	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.45	3.56	3.64	3.74	3.83	3.93	4.01
Liquefied Petroleum Gas	2.70	2.86	2.73	2.79	2.87	2.91	2.97	3.01	3.03	3.07	3.11
Motor Gasoline 2/	16.37	16.83	17.16	17.74	18.24	18.65	19.01	19.37	19.72	20.09	20.44
Petrochemical Feedstocks	1.16	1.22	1.27	1.28	1.30	1.32	1.33	1.34	1.33	1.35	1.37
Residual Fuel	1.98	1.69	1.93	1.50	1.60	1.59	1.61	1.65	1.64	1.64	1.67
Other Petroleum 12/	4.45	4.26	4.28	4.19	4.47	4.56	4.60	4.64	4.63	4.61	4.60
Petroleum Subtotal	38.49	38.11	38.75	39.18	40.52	41.40	42.16	42.94	43.50	44.15	44.90
Natural Gas	21.30	21.36	20.96	22.09	22.39	22.85	23.25	23.82	24.08	24.73	25.28
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.08	1.14	1.21	1.28	1.33	1.40	1.42
Pipeline Natural Gas	0.64	0.65	0.68	0.67	0.67	0.66	0.67	0.67	0.68	0.69	0.70
Natural Gas Subtotal	23.05	23.37	22.66	23.77	24.14	24.66	25.13	25.77	26.09	26.82	27.40
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63
Steam Coal	21.30	21.54	21.89	21.89	22.48	23.06	23.62	23.85	24.28	24.57	24.79
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
Coal Subtotal	22.04	22.18	22.59	22.60	23.18	23.75	24.30	24.53	24.95	25.23	25.44
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35
Renewable Energy 16/	5.25	5.84	5.98	6.41	6.54	6.67	6.79	6.92	7.04	7.18	7.32
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity Imports	0.08	0.07	0.14	0.10	0.11	0.10	0.09	0.09	0.10	0.11	0.11
Total	96.94	97.72	98.08	100.20	102.75	104.87	106.77	108.56	109.92	111.77	113.52
Energy Use & Related Statistics											
Delivered Energy Use	70.83	71.27	71.66	73.29	75.23	76.77	78.12	79.42	80.60	82.03	83.35
Total Energy Use	96.94	97.72	98.08	100.20	102.75	104.87	106.77	108.56	109.92	111.77	113.52
Population (millions)	285.92	288.93	291.68	294.24	296.76	299.27	301.77	304.27	306.77	309.28	311.79
US GDP (billion 1996 dollars)	9215	9440	9657	10019	10402	10764	11129	11496	11839	12190	12543
Carbon Dioxide Emissions (million metric tons)	5691.7	5729.3	5743.3	5826.0	5985.9	6124.4	6250.5	6357.2	6452.7	6558.8	6657.4

**Table 2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Energy Consumption											
Residential											
Distillate Fuel	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83
Kerosene	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10
Liquefied Petroleum Gas	0.57	0.57	0.58	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.62
Petroleum Subtotal	1.60	1.59	1.59	1.59	1.58	1.58	1.57	1.57	1.56	1.55	1.55
Natural Gas	5.78	5.79	5.81	5.84	5.89	5.91	5.96	6.02	6.08	6.10	6.13
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Energy 1/ Electricity	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Delivered Energy	5.03	5.08	5.15	5.22	5.30	5.36	5.43	5.51	5.60	5.65	5.73
Electricity Related Losses	12.83	12.88	12.97	13.06	13.19	13.27	13.38	13.51	13.66	13.72	13.82
Total	10.71	10.76	10.83	10.92	11.04	11.11	11.18	11.30	11.43	11.49	11.60
Total	23.54	23.64	23.80	23.98	24.23	24.38	24.57	24.81	25.10	25.21	25.42
Commercial											
Distillate Fuel	0.63	0.64	0.65	0.65	0.66	0.66	0.67	0.67	0.67	0.68	0.68
Residual Fuel	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Kerosene	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Liquefied Petroleum Gas	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Motor Gasoline 2/ Petroleum Subtotal	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Natural Gas	0.93	0.94	0.94	0.95	0.96	0.96	0.97	0.97	0.97	0.98	0.99
Coal	3.65	3.68	3.70	3.72	3.75	3.79	3.84	3.89	3.94	3.97	4.01
Renewable Energy 3/ Electricity	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Delivered Energy	5.29	5.42	5.53	5.64	5.74	5.86	5.98	6.11	6.24	6.35	6.47
Electricity Related Losses	10.08	10.23	10.37	10.51	10.65	10.81	10.98	11.17	11.35	11.50	11.66
Total	11.28	11.46	11.62	11.79	11.96	12.15	12.32	12.53	12.73	12.91	13.09
Total	21.35	21.69	21.99	22.30	22.61	22.96	23.30	23.70	24.07	24.42	24.75
Industrial 4/											
Distillate Fuel	1.21	1.23	1.25	1.27	1.28	1.29	1.31	1.32	1.34	1.36	1.37
Liquefied Petroleum Gas	2.43	2.48	2.50	2.53	2.57	2.62	2.66	2.70	2.74	2.78	2.81
Petrochemical Feedstocks	1.39	1.41	1.42	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.57
Residual Fuel	0.21	0.22	0.22	0.23	0.22	0.22	0.22	0.22	0.22	0.23	0.23
Motor Gasoline 2/	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18
Other Petroleum 5/ Petroleum Subtotal	4.43	4.53	4.63	4.68	4.73	4.78	4.83	4.88	4.93	4.99	5.06
Natural Gas	9.84	10.04	10.19	10.31	10.43	10.56	10.70	10.82	10.95	11.08	11.23
Lease and Plant Fuel 6/ Natural Gas Subtotal	8.89	8.99	9.05	9.12	9.24	9.39	9.56	9.70	9.84	9.92	10.06
Metallurgical Coal	1.44	1.45	1.46	1.48	1.48	1.51	1.57	1.63	1.65	1.64	1.64
Steam Coal	10.33	10.45	10.52	10.60	10.72	10.90	11.13	11.33	11.49	11.56	11.70
Net Coal Coke Imports	0.62	0.61	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50
Total	1.42	1.42	1.43	1.43	1.43	1.43	1.44	1.44	1.45	1.45	1.45
Total	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Table 2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Coal Subtotal	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.98	1.97	1.96	1.96
Renewable Energy 7/	2.10	2.16	2.21	2.26	2.30	2.35	2.40	2.44	2.48	2.52	2.56
Electricity	3.95	4.02	4.08	4.15	4.21	4.29	4.35	4.41	4.47	4.53	4.60
Delivered Energy	28.28	28.70	29.03	29.32	29.67	30.09	30.57	30.98	31.36	31.65	32.04
Electricity Related Losses	8.42	8.52	8.59	8.67	8.77	8.88	8.96	9.04	9.12	9.20	9.32
Total	36.70	37.22	37.61	37.99	38.44	38.97	39.53	40.02	40.48	40.85	41.36
Transportation											
Distillate Fuel 8/	6.78	6.95	7.11	7.25	7.40	7.57	7.72	7.86	8.02	8.16	8.34
Jet Fuel 9/	4.11	4.20	4.29	4.36	4.42	4.49	4.56	4.63	4.69	4.74	4.79
Motor Gasoline 2/	20.61	20.99	21.31	21.62	21.91	22.20	22.50	22.80	23.11	23.45	23.79
Residual Fuel	0.80	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.82	0.82	0.82
Liquefied Petroleum Gas	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08
Other Petroleum 10/	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31
Petroleum Subtotal	32.61	33.27	33.85	34.37	34.88	35.42	35.96	36.48	37.00	37.55	38.13
Pipeline Fuel Natural Gas	0.71	0.72	0.72	0.72	0.72	0.72	0.77	0.82	0.83	0.83	0.82
Compressed Natural Gas	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10
Renewable Energy (E85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11
Delivered Energy	33.49	34.16	34.74	35.28	35.79	36.34	36.93	37.50	38.05	38.59	39.17
Electricity Related Losses	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23
Total	33.68	34.36	34.95	35.48	36.00	36.55	37.15	37.72	38.27	38.82	39.40
Delivered Energy Consumption, All Sectors											
Distillate Fuel	9.54	9.74	9.91	10.07	10.23	10.40	10.56	10.71	10.88	11.04	11.22
Kerosene	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14
Jet Fuel 9/	4.11	4.20	4.29	4.36	4.42	4.49	4.56	4.63	4.69	4.74	4.79
Liquefied Petroleum Gas	3.16	3.21	3.24	3.28	3.33	3.38	3.43	3.48	3.53	3.57	3.61
Motor Gasoline 2/	20.82	21.21	21.53	21.84	22.13	22.43	22.73	23.03	23.34	23.68	24.03
Petrochemical Feedstocks	1.39	1.41	1.42	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.57
Residual Fuel	1.14	1.15	1.15	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.18
Other Petroleum 12/	4.67	4.77	4.88	4.93	4.99	5.03	5.10	5.15	5.21	5.27	5.34
Petroleum Subtotal	44.99	45.84	46.58	47.22	47.86	48.51	49.19	49.83	50.50	51.17	51.89
Natural Gas	18.40	18.53	18.64	18.76	18.97	19.18	19.45	19.71	19.95	20.08	20.30
Lease and Plant Fuel 6/	1.44	1.45	1.46	1.48	1.48	1.51	1.57	1.63	1.65	1.64	1.64
Pipeline Natural Gas	0.71	0.72	0.72	0.72	0.72	0.72	0.77	0.82	0.83	0.83	0.82
Natural Gas Subtotal	20.55	20.70	20.82	20.96	21.16	21.41	21.79	22.16	22.43	22.55	22.76
Metallurgical Coal	0.62	0.61	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50
Steam Coal	1.53	1.53	1.54	1.54	1.54	1.54	1.55	1.55	1.56	1.56	1.56
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Subtotal	2.16	2.15	2.14	2.12	2.11	2.10	2.10	2.09	2.08	2.07	2.07
Renewable Energy 13/	2.61	2.67	2.72	2.76	2.81	2.86	2.91	2.95	2.99	3.03	3.07
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	14.37	14.62	14.87	15.11	15.36	15.61	15.88	16.14	16.41	16.65	16.91
Delivered Energy	84.67	85.97	87.11	88.17	89.30	90.50	91.87	93.16	94.42	95.47	96.69

**Table 2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Electricity Related Losses	30.61	30.94	31.24	31.57	31.98	32.35	32.68	33.09	33.50	33.83	34.24
Total	115.28	116.92	118.36	119.75	121.28	122.86	124.55	126.25	127.92	129.29	130.93
Electric Generators 14/											
Distillate Fuel	0.28	0.32	0.37	0.44	0.41	0.38	0.33	0.30	0.26	0.31	0.28
Residual Fuel	0.56	0.58	0.60	0.60	0.62	0.63	0.62	0.59	0.59	0.59	0.57
Petroleum Subtotal	0.84	0.90	0.97	1.04	1.03	1.01	0.94	0.89	0.85	0.90	0.85
Natural Gas	7.32	7.52	7.69	7.78	8.07	8.28	8.59	8.75	8.78	8.62	8.55
Steam Coal	23.49	23.70	23.91	24.20	24.51	24.87	25.17	25.66	26.22	26.81	27.57
Nuclear Power	8.38	8.41	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53
Renewable Energy/Other 15/	4.84	4.93	4.99	5.08	5.13	5.19	5.24	5.34	5.47	5.56	5.60
Electricity Imports	0.11	0.11	0.10	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05
Total	44.98	45.56	46.11	46.68	47.34	47.97	48.55	49.23	49.92	50.47	51.15
Total Energy Consumption											
Distillate Fuel	9.82	10.06	10.28	10.51	10.63	10.78	10.89	11.01	11.14	11.34	11.51
Kerosene	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14
Jet Fuel 9/	4.11	4.20	4.29	4.36	4.42	4.49	4.56	4.63	4.69	4.74	4.79
Liquefied Petroleum Gas	3.16	3.21	3.24	3.28	3.33	3.38	3.43	3.48	3.53	3.57	3.61
Motor Gasoline 2/	20.82	21.21	21.53	21.84	22.13	22.43	22.73	23.03	23.34	23.68	24.03
Petrochemical Feedstocks	1.39	1.41	1.42	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.57
Residual Fuel	1.70	1.72	1.75	1.76	1.78	1.79	1.78	1.76	1.76	1.76	1.75
Other Petroleum 12/	4.67	4.77	4.88	4.93	4.99	5.03	5.10	5.15	5.21	5.27	5.34
Petroleum Subtotal	45.82	46.74	47.55	48.26	48.88	49.53	50.13	50.72	51.35	52.06	52.74
Natural Gas	25.72	26.05	26.33	26.54	27.04	27.46	28.04	28.46	28.73	28.71	28.86
Lease and Plant Fuel 6/	1.44	1.45	1.46	1.48	1.48	1.51	1.57	1.63	1.65	1.64	1.64
Pipeline Natural Gas	0.71	0.72	0.72	0.72	0.72	0.72	0.77	0.82	0.83	0.83	0.82
Natural Gas Subtotal	27.87	28.22	28.51	28.74	29.24	29.69	30.39	30.91	31.21	31.18	31.32
Metallurgical Coal	0.62	0.61	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50
Steam Coal	25.02	25.23	25.45	25.74	26.05	26.41	26.73	27.21	27.78	28.36	29.13
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Subtotal	25.65	25.85	26.05	26.32	26.62	26.97	27.27	27.74	28.30	28.88	29.64
Nuclear Power	8.38	8.41	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53
Renewable Energy 16/	7.45	7.59	7.71	7.84	7.94	8.05	8.15	8.28	8.46	8.58	8.66
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity Imports	0.11	0.11	0.10	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05
Total	115.28	116.92	118.36	119.75	121.28	122.86	124.55	126.25	127.92	129.29	130.93
Energy Use & Related Statistics											
Delivered Energy Use	84.67	85.97	87.11	88.17	89.30	90.50	91.87	93.16	94.42	95.47	96.69
Total Energy Use	115.28	116.92	118.36	119.75	121.28	122.86	124.55	126.25	127.92	129.29	130.93
Population (millions)	314.33	316.90	319.43	321.95	324.47	327.01	329.54	332.08	334.61	337.16	339.72
US GDP (billion 1996 dollars)	12906	13313	13715	14101	14497	14918	15351	15756	16188	16589	17035
Carbon Dioxide Emissions (million metric tons)	6762.7	6857.3	6944.1	7028.4	7123.0	7219.2	7320.0	7428.8	7535.6	7634.2	7754.5

**Table 2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Energy Consumption				
Residential				
Distillate Fuel	0.82	0.81	0.80	-0.5%
Kerosene	0.09	0.09	0.09	1.3%
Liquefied Petroleum Gas	0.63	0.63	0.64	0.8%
Petroleum Subtotal	1.54	1.54	1.53	0.1%
Natural Gas	6.17	6.23	6.26	0.9%
Coal	0.01	0.01	0.01	-0.3%
Renewable Energy 1/ Electricity	0.41	0.41	0.41	0.1%
Delivered Energy	5.80	5.90	5.96	1.4%
Electricity Related Losses	13.94	14.09	14.17	1.0%
Total	11.71	11.86	11.95	1.0%
Total	25.65	25.95	26.12	1.0%
Commercial				
Distillate Fuel	0.69	0.69	0.70	1.6%
Residual Fuel	0.13	0.13	0.13	2.2%
Kerosene	0.02	0.02	0.02	1.4%
Liquefied Petroleum Gas	0.10	0.10	0.10	0.3%
Motor Gasoline 2/ Petroleum Subtotal	0.05	0.05	0.05	0.2%
Total	0.99	1.00	1.00	1.4%
Natural Gas	4.05	4.10	4.16	1.1%
Coal	0.10	0.10	0.10	0.0%
Renewable Energy 3/ Electricity	0.10	0.10	0.10	0.0%
Delivered Energy	6.58	6.70	6.83	2.2%
Electricity Related Losses	11.82	12.00	12.19	1.7%
Total	13.28	13.48	13.70	1.8%
Total	25.11	25.48	25.89	1.7%
Industrial 4/				
Distillate Fuel	1.39	1.41	1.43	0.9%
Liquefied Petroleum Gas	2.86	2.90	2.94	1.2%
Petrochemical Feedstocks	1.59	1.60	1.62	1.2%
Residual Fuel	0.23	0.23	0.23	0.5%
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.19	0.19	0.19	0.8%
Total	5.11	5.13	5.17	1.1%
Total	11.36	11.46	11.59	1.1%
Natural Gas	10.24	10.40	10.58	1.5%
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.65	1.68	1.69	1.0%
Total	11.89	12.09	12.27	1.5%
Metallurgical Coal	0.49	0.48	0.47	-1.2%
Steam Coal	1.46	1.46	1.47	0.0%
Net Coal Coke Imports	0.01	0.01	0.01	-4.5%

**Table 2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Coal Subtotal	1.95	1.95	1.95	-0.4%
Renewable Energy 7/	2.60	2.65	2.70	2.1%
Electricity	4.68	4.76	4.85	1.6%
Delivered Energy	32.49	32.91	33.35	1.3%
Electricity Related Losses	9.44	9.57	9.72	1.1%
Total	41.93	42.48	43.07	1.2%
Transportation				
Distillate Fuel 8/	8.53	8.72	8.94	2.5%
Jet Fuel 9/	4.84	4.88	4.91	1.7%
Motor Gasoline 2/	24.16	24.55	24.98	1.8%
Residual Fuel	0.82	0.82	0.83	0.6%
Liquefied Petroleum Gas	0.08	0.08	0.08	6.7%
Other Petroleum 10/	0.31	0.32	0.32	1.2%
Petroleum Subtotal	38.73	39.37	40.07	1.9%
Pipeline Fuel Natural Gas	0.84	0.85	0.86	1.2%
Compressed Natural Gas	0.10	0.11	0.11	9.2%
Renewable Energy (E85) 11/	0.00	0.00	0.00	7.6%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity	0.12	0.12	0.12	2.1%
Delivered Energy	39.80	40.46	41.16	1.9%
Electricity Related Losses	0.23	0.24	0.24	1.6%
Total	40.03	40.69	41.40	1.9%
Delivered Energy Consumption, All Sectors				
Distillate Fuel	11.43	11.64	11.88	1.9%
Kerosene	0.14	0.14	0.13	1.7%
Jet Fuel 9/	4.84	4.88	4.91	1.7%
Liquefied Petroleum Gas	3.66	3.71	3.76	1.2%
Motor Gasoline 2/	24.40	24.79	25.22	1.8%
Petrochemical Feedstocks	1.59	1.60	1.62	1.2%
Residual Fuel	1.18	1.18	1.19	0.8%
Other Petroleum 12/	5.40	5.43	5.46	1.1%
Petroleum Subtotal	52.62	53.37	54.18	1.6%
Natural Gas	20.57	20.85	21.11	1.3%
Lease and Plant Fuel 6/	1.65	1.68	1.69	1.0%
Pipeline Natural Gas	0.84	0.85	0.86	1.2%
Natural Gas Subtotal	23.06	23.38	23.66	1.3%
Metallurgical Coal	0.49	0.48	0.47	-1.2%
Steam Coal	1.57	1.57	1.58	0.0%
Net Coal Coke Imports	0.01	0.01	0.01	-4.5%
Coal Subtotal	2.06	2.06	2.06	-0.3%
Renewable Energy 13/	3.11	3.16	3.21	1.8%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity	17.18	17.48	17.77	1.8%
Delivered Energy	98.05	99.45	100.87	1.5%

**Table 2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Electricity Related Losses	34.68	35.15	35.61	1.3%
Total	132.73	134.61	136.48	1.5%
Electric Generators 14/				
Distillate Fuel	0.24	0.26	0.27	2.4%
Residual Fuel	0.55	0.55	0.54	-1.1%
Petroleum Subtotal	0.79	0.82	0.81	-0.2%
Natural Gas	8.43	8.59	8.55	1.8%
Steam Coal	28.46	28.97	29.67	1.7%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy/Other 15/	5.62	5.70	5.79	2.0%
Electricity Imports	0.04	0.03	0.03	-4.6%
Total	51.86	52.63	53.37	1.4%
Total Energy Consumption				
Distillate Fuel	11.67	11.91	12.15	1.9%
Kerosene	0.14	0.14	0.13	1.7%
Jet Fuel 9/	4.84	4.88	4.91	1.7%
Liquefied Petroleum Gas	3.66	3.71	3.76	1.2%
Motor Gasoline 2/	24.40	24.79	25.22	1.8%
Petrochemical Feedstocks	1.59	1.60	1.62	1.2%
Residual Fuel	1.73	1.74	1.72	0.1%
Other Petroleum 12/	5.40	5.43	5.46	1.1%
Petroleum Subtotal	53.42	54.19	54.99	1.6%
Natural Gas	29.01	29.44	29.66	1.4%
Lease and Plant Fuel 6/	1.65	1.68	1.69	1.0%
Pipeline Natural Gas	0.84	0.85	0.86	1.2%
Natural Gas Subtotal	31.49	31.98	32.21	1.4%
Metallurgical Coal	0.49	0.48	0.47	-1.2%
Steam Coal	30.03	30.54	31.25	1.6%
Net Coal Coke Imports	0.01	0.01	0.01	-4.5%
Coal Subtotal	30.52	31.03	31.73	1.6%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 16/	8.73	8.85	9.00	1.9%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity Imports	0.04	0.03	0.03	-4.6%
Total	132.73	134.61	136.48	1.5%
Energy Use & Related Statistics				
Delivered Energy Use	98.05	99.45	100.87	1.5%
Total Energy Use	132.73	134.61	136.48	1.5%
Population (millions)	342.30	344.90	347.53	0.8%
US GDP (billion 1996 dollars)	17500	17980	18520	3.0%
Carbon Dioxide Emissions (million metric tons)	7888.9	8012.3	8142.0	1.5%

**Table 2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)**

1/ Includes wood used for residential heating. See Table A18 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.

4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.

9/ Includes only kerosene type.

10/ Includes aviation gasoline and lubricants.

11/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent ethanol was used for this forecast.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.

16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

N/A = Not applicable.

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. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2001 and 2002 consumption based on: Energy Information Administration (EIA), EIA, Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). 2001 and 2002 gross domestic product: Global Insight macroeconomic model T250803. 2001 and 2002 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

Table 3. Energy Prices by Sector and Source
(2002 Dollar per Million Btu, Unless Otherwise Noted)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Residential	15.95	14.73	15.60	15.20	14.76	14.55	14.39	14.36	14.30	14.21	14.30
Primary Energy 1/	9.85	8.14	9.58	9.26	8.71	8.54	8.46	8.43	8.26	8.15	8.27
Petroleum Products 2/	10.95	9.87	11.53	10.83	9.81	9.80	9.81	9.86	9.92	9.90	10.00
Distillate Fuel	9.09	8.23	9.11	8.31	8.02	7.93	7.86	7.89	7.88	7.82	7.84
Liquefied Petroleum Gas	15.05	12.92	16.49	16.15	13.59	13.66	13.73	13.77	13.88	13.89	14.07
Natural Gas	9.53	7.65	9.03	8.82	8.39	8.19	8.08	8.03	7.80	7.67	7.80
Electricity	25.51	24.73	24.87	24.44	24.13	23.81	23.48	23.37	23.41	23.30	23.26
Commercial	15.67	14.68	15.01	14.56	14.14	13.86	13.68	13.72	13.80	13.77	13.88
Primary Energy 1/	8.07	6.35	7.84	7.32	6.89	6.74	6.69	6.70	6.55	6.48	6.59
Petroleum Products 2/	7.25	6.88	7.62	7.01	6.45	6.35	6.34	6.36	6.37	6.34	6.38
Distillate Fuel	6.38	6.07	6.71	6.12	5.62	5.53	5.49	5.50	5.49	5.45	5.49
Residual Fuel	3.51	4.21	4.97	4.13	4.00	4.02	4.05	4.08	4.11	4.13	4.16
Natural Gas	8.44	6.37	8.08	7.57	7.17	6.99	6.93	6.93	6.74	6.64	6.78
Electricity	23.43	22.82	22.28	21.57	21.07	20.63	20.24	20.23	20.44	20.39	20.43
Industrial 3/	7.24	6.31	7.29	6.70	6.39	6.36	6.39	6.48	6.48	6.44	6.51
Primary Energy	5.87	4.77	6.09	5.42	5.09	5.08	5.12	5.20	5.17	5.14	5.23
Petroleum Products 2/	7.73	6.35	7.50	7.09	6.65	6.66	6.71	6.77	6.83	6.84	6.92
Distillate Fuel	6.62	6.21	6.87	6.27	5.79	5.69	5.68	5.68	5.68	5.68	5.72
Liquefied Petroleum Gas	12.48	8.28	10.56	10.33	9.27	9.42	9.49	9.61	9.72	9.72	9.90
Residual Fuel	3.31	3.89	4.60	3.82	3.61	3.63	3.66	3.69	3.72	3.74	3.78
Natural Gas 4/	4.91	3.75	5.60	4.50	4.17	4.09	4.13	4.24	4.11	4.05	4.19
Metallurgical Coal	1.71	1.87	2.03	2.02	1.99	1.98	1.96	1.97	1.96	1.96	1.94
Steam Coal	1.51	1.52	1.63	1.61	1.59	1.58	1.58	1.59	1.58	1.58	1.58
Electricity	15.11	14.74	13.96	13.67	13.52	13.37	13.26	13.37	13.49	13.36	13.30
Transportation	10.58	9.91	11.12	10.17	10.28	10.36	10.43	10.46	10.49	10.50	10.55
Primary Energy	10.55	9.88	11.09	10.14	10.25	10.33	10.41	10.44	10.47	10.48	10.52
Petroleum Products 2/	10.55	9.88	11.09	10.14	10.25	10.34	10.41	10.44	10.47	10.48	10.52
Distillate Fuel 5/	10.16	9.41	10.41	9.50	9.62	9.91	10.13	10.15	10.08	10.12	10.22
Jet Fuel 6/	6.27	5.97	6.72	6.33	6.02	5.78	5.72	5.74	5.75	5.76	5.83
Motor Gasoline 7/	11.99	11.15	12.54	11.42	11.63	11.71	11.77	11.81	11.87	11.87	11.89
Residual Fuel	3.94	3.77	4.45	3.70	3.48	3.50	3.53	3.55	3.58	3.60	3.63
Liquefied Petroleum Gas 8/	17.12	15.00	16.47	16.46	14.79	14.84	14.88	14.92	14.98	14.96	15.11
Natural Gas 9/	8.69	7.38	9.43	8.25	7.94	7.97	8.11	8.28	8.23	8.26	8.44
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.78	16.88	17.09	17.15	17.18	17.22	17.40
Electricity	21.58	21.10	21.35	20.74	20.22	19.77	19.45	19.46	19.61	19.57	19.63
Average End-Use Energy	10.95	10.10	11.10	10.42	10.22	10.18	10.18	10.23	10.25	10.23	10.30
Primary Energy	8.69	7.70	9.01	8.28	8.13	8.14	8.19	8.24	8.23	8.22	8.30
Electricity	21.79	21.20	20.90	20.40	20.04	19.72	19.43	19.43	19.56	19.47	19.45
Electric Generators 11/											
Fossil Fuel Average	2.27	1.89	2.22	2.01	1.93	1.91	1.91	1.96	1.92	1.92	1.97
Petroleum Products	5.00	4.32	4.91	4.50	4.22	4.23	4.24	4.25	4.23	4.21	4.27
Distillate Fuel	6.24	5.58	6.17	5.62	5.10	4.98	4.97	4.95	4.90	4.92	4.94
Residual Fuel	4.55	4.04	4.65	4.00	3.88	3.92	3.94	3.95	3.97	3.99	4.02
Natural Gas	5.30	3.77	5.62	4.50	4.18	4.10	4.14	4.23	4.11	4.04	4.19
Steam Coal	1.25	1.26	1.24	1.23	1.23	1.23	1.22	1.23	1.23	1.22	1.22

Table 3. Energy Prices by Sector and Source
(2002 Dollar per Million Btu, Unless Otherwise Noted)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Average Price to All Users 12/											
Petroleum Products 2/	9.74	8.94	10.11	9.40	9.31	9.38	9.45	9.49	9.55	9.57	9.62
Distillate Fuel	9.14	8.52	9.38	8.60	8.55	8.72	8.87	8.89	8.88	8.93	9.01
Jet Fuel	6.27	5.97	6.72	6.33	6.02	5.78	5.72	5.74	5.75	5.76	5.83
Liquefied Petroleum Gas	13.00	9.27	11.82	11.57	10.21	10.35	10.43	10.53	10.65	10.65	10.82
Motor Gasoline 7/	11.99	11.15	12.53	11.42	11.63	11.71	11.77	11.81	11.87	11.87	11.89
Residual Fuel	4.16	3.92	4.58	3.83	3.66	3.68	3.71	3.74	3.76	3.78	3.81
Natural Gas	6.63	5.07	6.85	5.99	5.62	5.50	5.49	5.52	5.36	5.27	5.39
Coal	1.27	1.28	1.27	1.26	1.26	1.25	1.25	1.25	1.25	1.25	1.25
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.78	16.88	17.09	17.15	17.18	17.22	17.40
Electricity	21.79	21.20	20.90	20.40	20.04	19.72	19.43	19.43	19.56	19.47	19.45
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)											
Residential	168.08	160.37	173.30	172.66	169.12	168.98	169.20	171.18	171.95	173.01	175.79
Commercial	129.31	119.67	125.15	122.63	122.33	123.09	124.15	126.96	130.23	132.72	136.34
Industrial	138.60	120.96	137.78	128.52	125.41	126.16	128.14	131.12	131.82	132.71	136.16
Transportation	275.57	259.11	294.76	278.63	290.33	300.06	308.56	316.07	323.50	330.65	338.69
Total Non-Renewable Expenditures	711.55	660.11	730.99	702.44	707.19	718.29	730.04	745.34	757.51	769.08	786.98
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.04
Total Expenditures	711.56	660.12	731.00	702.45	707.21	718.31	730.07	745.36	757.54	769.11	787.02

Table 3. Energy Prices by Sector and Source
(2002 Dollar per Million Btu, Unless Otherwise Noted)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Residential	14.50	14.65	14.78	14.93	15.02	15.01	15.05	14.99	15.08	15.25	15.27
Primary Energy 1/	8.39	8.53	8.61	8.72	8.76	8.77	8.74	8.69	8.76	8.91	8.91
Petroleum Products 2/	10.06	10.18	10.25	10.38	10.51	10.59	10.67	10.75	10.86	10.95	11.03
Distillate Fuel	7.88	7.96	8.00	8.06	8.13	8.17	8.28	8.33	8.39	8.43	8.45
Liquefied Petroleum Gas	14.12	14.23	14.29	14.46	14.63	14.68	14.65	14.69	14.79	14.90	14.99
Natural Gas	7.94	8.10	8.18	8.29	8.30	8.30	8.25	8.17	8.24	8.40	8.39
Electricity	23.48	23.55	23.66	23.77	23.85	23.74	23.81	23.67	23.73	23.85	23.82
Commercial	14.13	14.21	14.41	14.62	14.76	14.78	14.86	14.83	14.93	15.10	15.12
Primary Energy 1/	6.72	6.86	6.94	7.04	7.07	7.09	7.08	7.04	7.11	7.24	7.24
Petroleum Products 2/	6.40	6.45	6.48	6.53	6.60	6.66	6.74	6.78	6.83	6.86	6.89
Distillate Fuel	5.52	5.57	5.59	5.66	5.73	5.80	5.90	5.96	6.01	6.04	6.06
Residual Fuel	4.19	4.22	4.25	4.27	4.30	4.33	4.36	4.39	4.41	4.44	4.47
Natural Gas	6.93	7.10	7.20	7.32	7.34	7.34	7.30	7.24	7.31	7.47	7.46
Electricity	20.69	20.61	20.82	21.02	21.19	21.15	21.24	21.14	21.21	21.36	21.34
Industrial 3/	6.63	6.73	6.82	6.96	7.04	7.08	7.12	7.12	7.21	7.32	7.33
Primary Energy	5.33	5.45	5.51	5.64	5.70	5.75	5.77	5.79	5.88	5.99	6.00
Petroleum Products 2/	6.96	7.02	7.04	7.15	7.24	7.33	7.40	7.46	7.54	7.60	7.64
Distillate Fuel	5.75	5.78	5.79	5.85	5.93	6.03	6.14	6.19	6.24	6.27	6.29
Liquefied Petroleum Gas	9.97	10.07	10.12	10.29	10.41	10.47	10.51	10.58	10.66	10.74	10.82
Residual Fuel	3.80	3.83	3.86	3.88	3.92	3.95	3.98	4.00	4.03	4.06	4.09
Natural Gas 4/	4.37	4.55	4.65	4.81	4.84	4.84	4.81	4.78	4.89	5.05	5.02
Metallurgical Coal	1.92	1.91	1.91	1.90	1.89	1.88	1.88	1.87	1.84	1.82	1.80
Steam Coal	1.56	1.56	1.55	1.55	1.55	1.55	1.54	1.52	1.53	1.54	1.54
Electricity	13.49	13.47	13.63	13.81	13.96	13.93	14.01	13.93	13.99	14.07	14.03
Transportation	10.52	10.51	10.51	10.53	10.55	10.55	10.56	10.55	10.54	10.57	10.60
Primary Energy	10.50	10.48	10.49	10.50	10.52	10.53	10.53	10.53	10.52	10.54	10.57
Petroleum Products 2/	10.50	10.49	10.49	10.50	10.53	10.53	10.53	10.53	10.52	10.54	10.57
Distillate Fuel 5/	10.21	10.12	10.16	10.16	10.15	10.14	10.12	10.06	10.00	10.01	10.01
Jet Fuel 6/	5.84	5.85	5.83	5.85	5.90	5.96	6.03	6.04	6.06	6.08	6.10
Motor Gasoline 7/	11.86	11.86	11.86	11.87	11.90	11.89	11.89	11.90	11.90	11.92	11.96
Residual Fuel	3.65	3.68	3.71	3.73	3.76	3.79	3.82	3.85	3.88	3.90	3.93
Liquefied Petroleum Gas 8/	15.12	15.21	15.23	15.39	15.58	15.59	15.43	15.39	15.51	15.62	15.71
Natural Gas 9/	8.63	8.83	8.94	9.07	9.11	9.13	9.08	9.00	9.06	9.20	9.18
Ethanol (E85) 10/	17.57	17.66	17.73	17.79	17.85	17.89	18.47	18.50	18.28	18.37	18.43
Electricity	19.91	20.05	20.16	20.25	20.32	20.22	20.20	20.03	20.03	20.09	20.01
Average End-Use Energy	10.39	10.44	10.51	10.61	10.68	10.69	10.71	10.70	10.76	10.84	10.86
Primary Energy	8.35	8.41	8.46	8.53	8.57	8.60	8.60	8.60	8.64	8.72	8.74
Electricity	19.68	19.66	19.82	19.99	20.12	20.05	20.13	20.03	20.10	20.21	20.18
Electric Generators 11/											
Fossil Fuel Average	2.03	2.09	2.12	2.16	2.18	2.19	2.19	2.16	2.18	2.19	2.16
Petroleum Products	4.35	4.40	4.45	4.54	4.55	4.59	4.62	4.65	4.67	4.74	4.76
Distillate Fuel	4.95	4.99	5.01	5.09	5.15	5.25	5.36	5.41	5.47	5.51	5.54
Residual Fuel	4.04	4.07	4.10	4.14	4.16	4.20	4.23	4.27	4.31	4.34	4.38
Natural Gas	4.36	4.54	4.64	4.78	4.82	4.82	4.79	4.75	4.85	5.00	4.96
Steam Coal	1.22	1.22	1.22	1.22	1.21	1.21	1.20	1.19	1.20	1.20	1.21

Table 3. Energy Prices by Sector and Source
(2002 Dollar per Million Btu, Unless Otherwise Noted)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Average Price to All Users 12/											
Petroleum Products 2/	9.61	9.61	9.62	9.65	9.70	9.73	9.76	9.79	9.81	9.84	9.88
Distillate Fuel	8.99	8.94	8.96	8.97	9.01	9.04	9.09	9.09	9.07	9.08	9.11
Jet Fuel	5.84	5.85	5.83	5.85	5.90	5.96	6.03	6.04	6.06	6.08	6.10
Liquefied Petroleum Gas	10.89	10.99	11.04	11.21	11.33	11.39	11.41	11.47	11.55	11.63	11.71
Motor Gasoline 7/	11.86	11.86	11.86	11.87	11.90	11.89	11.89	11.90	11.90	11.92	11.96
Residual Fuel	3.84	3.87	3.90	3.93	3.96	3.99	4.02	4.05	4.08	4.11	4.14
Natural Gas	5.54	5.71	5.80	5.93	5.94	5.94	5.89	5.84	5.93	6.10	6.07
Coal	1.24	1.24	1.24	1.24	1.23	1.23	1.22	1.21	1.22	1.22	1.23
Ethanol (E85) 10/	17.57	17.66	17.73	17.79	17.85	17.89	18.47	18.50	18.28	18.37	18.43
Electricity	19.68	19.66	19.82	19.99	20.12	20.05	20.13	20.03	20.10	20.21	20.18
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)											
Residential	180.11	182.80	185.78	189.01	191.99	193.03	195.28	196.46	199.98	203.08	204.89
Commercial	140.98	143.94	148.04	152.16	155.75	158.35	161.80	164.12	167.90	172.27	174.81
Industrial	140.46	144.56	147.88	152.53	156.26	159.42	162.75	164.72	169.02	173.20	175.61
Transportation	344.88	351.43	357.70	363.66	370.04	375.84	381.63	387.07	392.36	398.96	406.33
Total Non-Renewable Expenditures	806.42	822.72	839.40	857.37	874.04	886.65	901.46	912.36	929.26	947.52	961.64
Transportation Renewable Expenditures	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06
Total Expenditures	806.46	822.76	839.45	857.41	874.09	886.70	901.51	912.42	929.32	947.58	961.70

Table 3. Energy Prices by Sector and Source
(2002 Dollar per Million Btu, Unless Otherwise Noted)

	2023	2024	2025	2002- 2025
Residential	15.25	15.35	15.38	0.2%
Primary Energy 1/	8.91	8.91	8.89	0.4%
Petroleum Products 2/	11.11	11.17	11.26	0.6%
Distillate Fuel	8.47	8.50	8.53	0.2%
Liquefied Petroleum Gas	15.06	15.11	15.19	0.7%
Natural Gas	8.37	8.36	8.32	0.4%
Electricity	23.70	23.86	23.88	-0.2%
Commercial	15.09	15.23	15.28	0.2%
Primary Energy 1/	7.23	7.23	7.22	0.6%
Petroleum Products 2/	6.90	6.93	6.98	0.1%
Distillate Fuel	6.07	6.10	6.15	0.1%
Residual Fuel	4.49	4.52	4.55	0.3%
Natural Gas	7.45	7.44	7.41	0.7%
Electricity	21.22	21.42	21.48	-0.3%
Industrial 3/	7.32	7.37	7.42	0.7%
Primary Energy	6.01	6.03	6.07	1.1%
Petroleum Products 2/	7.68	7.72	7.81	0.9%
Distillate Fuel	6.30	6.34	6.40	0.1%
Liquefied Petroleum Gas	10.89	10.95	11.11	1.3%
Residual Fuel	4.11	4.14	4.17	0.3%
Natural Gas 4/	5.01	5.00	4.99	1.3%
Metallurgical Coal	1.78	1.77	1.77	-0.2%
Steam Coal	1.54	1.53	1.53	0.0%
Electricity	13.92	14.08	14.09	-0.2%
Transportation	10.62	10.66	10.69	0.3%
Primary Energy	10.60	10.64	10.67	0.3%
Petroleum Products 2/	10.60	10.64	10.67	0.3%
Distillate Fuel 5/	10.05	10.02	10.03	0.3%
Jet Fuel 6/	6.12	6.15	6.21	0.2%
Motor Gasoline 7/	11.97	12.03	12.06	0.3%
Residual Fuel	3.96	3.99	4.02	0.3%
Liquefied Petroleum Gas 8/	15.75	15.76	15.83	0.2%
Natural Gas 9/	9.15	9.13	9.09	0.9%
Ethanol (E85) 10/	18.48	18.53	18.58	0.9%
Electricity	19.86	19.96	19.92	-0.2%
Average End-Use Energy	10.86	10.92	10.96	0.4%
Primary Energy	8.76	8.79	8.82	0.6%
Electricity	20.06	20.23	20.26	-0.2%
Electric Generators 11/				
Fossil Fuel Average	2.13	2.13	2.11	0.5%
Petroleum Products	4.76	4.82	4.88	0.5%
Distillate Fuel	5.56	5.58	5.62	0.0%
Residual Fuel	4.42	4.45	4.50	0.5%
Natural Gas	4.94	4.93	4.92	1.2%
Steam Coal	1.22	1.22	1.22	-0.1%

Table 3. Energy Prices by Sector and Source
(2002 Dollar per Million Btu, Unless Otherwise Noted)

	2023	2024	2025	2002- 2025
Average Price to All Users 12/				
Petroleum Products 2/	9.92	9.96	10.01	0.5%
Distillate Fuel	9.16	9.15	9.18	0.3%
Jet Fuel	6.12	6.15	6.21	0.2%
Liquefied Petroleum Gas	11.77	11.83	11.96	1.1%
Motor Gasoline 7/	11.97	12.03	12.06	0.3%
Residual Fuel	4.17	4.20	4.23	0.3%
Natural Gas	6.06	6.05	6.03	0.8%
Coal	1.23	1.23	1.24	-0.1%
Ethanol (E85) 10/	18.48	18.53	18.58	0.9%
Electricity	20.06	20.23	20.26	-0.2%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)				
Residential	206.40	210.05	211.69	1.2%
Commercial	176.89	181.19	184.74	1.9%
Industrial	178.09	181.79	185.61	1.9%
Transportation	413.84	422.28	430.99	2.2%
Total Non-Renewable Expenditures	975.22	995.32	1013.03	1.9%
Transportation Renewable Expenditures	0.06	0.07	0.07	8.6%
Total Expenditures	975.28	995.39	1013.10	1.9%

Table 3. Energy Prices by Sector and Source
(2002 Dollar per Million Btu, Unless Otherwise Noted)

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Includes combined heat and power, which produces electricity and other useful thermal energy.

4/ Excludes use for lease and plant fuel.

5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.

6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

8/ Includes Federal and State taxes while excluding county and local taxes.

9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent ethanol was used for this forecast.

11/ Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e. 2001 and 2002 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, October 2002). 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. Projections: EIA, AEO2004 National Energy Modeling System run aeo2004.d101703e.

**Table 4. Residential 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											
Households (millions)											
Single-Family	73.73	74.77	75.83	76.84	77.84	78.84	79.88	80.90	81.89	82.87	83.87
Multifamily	28.96	29.20	29.41	29.59	29.74	29.90	30.09	30.30	30.50	30.71	30.93
Mobile Homes	6.37	6.31	6.23	6.15	6.09	6.06	6.07	6.11	6.17	6.25	6.33
Total	109.06	110.28	111.47	112.58	113.67	114.80	116.03	117.30	118.56	119.84	121.14
Average House Square Footage											
	1684	1689	1695	1700	1706	1712	1717	1722	1727	1731	1735
Energy Intensity (million Btu per household)											
Delivered Energy Consumption	100.0	102.3	103.3	104.5	104.3	104.7	104.8	105.1	104.9	105.0	104.8
Total Energy Consumption	185.0	189.4	190.3	191.4	191.4	192.0	192.5	193.2	192.2	192.4	192.2
(thousand Btu per square foot)											
Delivered Energy Consumption	59.4	60.6	61.0	61.5	61.1	61.2	61.0	61.0	60.7	60.6	60.4
Total Energy Consumption	109.9	112.1	112.3	112.5	112.2	112.2	112.1	112.2	111.3	111.1	110.7
Delivered Energy Consumption by Fuel											
Electricity											
Space Heating	0.38	0.40	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.43	0.43
Space Cooling	0.63	0.71	0.64	0.66	0.67	0.67	0.68	0.68	0.69	0.69	0.70
Water Heating	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Refrigeration	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.38	0.37	0.37	0.36
Cooking	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Clothes Dryers	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25
Freezers	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Lighting	0.72	0.75	0.76	0.78	0.79	0.81	0.82	0.84	0.85	0.87	0.88
Clothes Washers 1/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04
Dishwashers 1/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03
Color Televisions	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.18	0.18	0.19
Personal Computers	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08
Furnace Fans	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09
Other Uses 2/	0.79	0.88	0.97	1.01	1.04	1.08	1.12	1.17	1.21	1.25	1.29
Delivered Energy	4.10	4.33	4.37	4.44	4.50	4.57	4.64	4.73	4.79	4.87	4.95
Natural Gas											
Space Heating	3.39	3.54	3.69	3.74	3.76	3.82	3.87	3.92	3.96	4.01	4.04
Space Cooling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Heating	1.16	1.15	1.15	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26
Cooking	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23
Clothes Dryers	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09
Other Uses 3/	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11
Delivered Energy	4.92	5.06	5.21	5.32	5.35	5.44	5.50	5.57	5.62	5.69	5.74

**Table 4. Residential Sector Key Indicators and Consumption
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Distillate											
Space Heating	0.77	0.77	0.81	0.83	0.83	0.83	0.83	0.82	0.82	0.81	0.81
Water Heating	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Other Uses 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delivered Energy	0.90	0.89	0.92	0.95	0.95	0.95	0.95	0.95	0.94	0.93	0.92
Liquefied Petroleum Gas											
Space Heating	0.29	0.30	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30
Water Heating	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Uses 3/	0.14	0.15	0.14	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.18
Delivered Energy	0.50	0.53	0.50	0.51	0.52	0.53	0.54	0.55	0.55	0.56	0.56
Marketed Renewables (wood) 5/	0.36	0.39	0.41	0.41	0.40	0.40	0.40	0.41	0.40	0.40	0.40
Other Fuels 6/	0.12	0.08	0.10	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12
Delivered Energy Consumption by End-Use											
Space Heating	5.31	5.48	5.70	5.80	5.82	5.89	5.94	6.00	6.03	6.08	6.11
Space Cooling	0.63	0.71	0.64	0.66	0.67	0.67	0.68	0.68	0.69	0.69	0.70
Water Heating	1.71	1.69	1.68	1.73	1.74	1.75	1.76	1.77	1.78	1.79	1.79
Refrigeration	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.38	0.37	0.37	0.36
Cooking	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37
Clothes Dryers	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.34	0.35
Freezers	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Lighting	0.72	0.75	0.76	0.78	0.79	0.81	0.82	0.84	0.85	0.87	0.88
Clothes Washers	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04
Dishwashers	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03
Color Televisions	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.18	0.18	0.19
Personal Computers	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08
Furnace Fans	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09
Other Uses 7/	1.02	1.13	1.21	1.26	1.30	1.35	1.39	1.44	1.49	1.54	1.58
Delivered Energy	10.91	11.28	11.52	11.76	11.86	12.02	12.16	12.33	12.43	12.58	12.70
Electricity Related Losses	9.28	9.60	9.69	9.78	9.89	10.03	10.18	10.34	10.36	10.48	10.58
Total Energy Consumption by End-Use											
Space Heating	6.16	6.36	6.61	6.70	6.73	6.80	6.85	6.92	6.94	6.99	7.03
Space Cooling	2.05	2.29	2.07	2.10	2.13	2.14	2.16	2.18	2.17	2.19	2.20
Water Heating	2.57	2.51	2.50	2.55	2.55	2.57	2.57	2.58	2.58	2.58	2.58
Refrigeration	1.41	1.37	1.33	1.30	1.27	1.25	1.23	1.21	1.18	1.16	1.14
Cooking	0.57	0.57	0.57	0.58	0.58	0.59	0.60	0.60	0.60	0.61	0.61
Clothes Dryers	0.83	0.83	0.84	0.85	0.86	0.87	0.88	0.88	0.88	0.89	0.89
Freezers	0.45	0.43	0.42	0.41	0.39	0.39	0.38	0.38	0.37	0.37	0.36
Lighting	2.34	2.41	2.45	2.50	2.54	2.59	2.63	2.68	2.70	2.73	2.76
Clothes Washers	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.13
Dishwashers	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

**Table 4. Residential Sector Key Indicators and Consumption
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Color Televisions	0.38	0.40	0.42	0.44	0.47	0.49	0.52	0.54	0.56	0.58	0.60
Personal Computers	0.21	0.21	0.20	0.20	0.20	0.21	0.21	0.23	0.24	0.25	0.26
Furnace Fans	0.24	0.25	0.25	0.25	0.26	0.26	0.27	0.28	0.28	0.28	0.29
Other Uses 7/	2.79	3.09	3.36	3.48	3.60	3.72	3.86	4.00	4.09	4.22	4.33
Total	20.18	20.88	21.21	21.54	21.75	22.05	22.34	22.66	22.79	23.06	23.28
Non-Marketed Renewables											
Geothermal 8/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar 9/	0.04	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.04	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

**Table 4. Residential 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											
Households (millions)											
Single-Family	84.84	85.80	86.75	87.68	88.59	89.48	90.35	91.22	92.09	92.95	93.80
Multifamily	31.15	31.38	31.62	31.84	32.08	32.32	32.56	32.82	33.07	33.33	33.59
Mobile Homes	6.41	6.48	6.54	6.60	6.66	6.72	6.77	6.83	6.88	6.94	6.99
Total	122.40	123.66	124.91	126.12	127.32	128.52	129.69	130.86	132.04	133.21	134.38
Average House Square Footage											
	1740	1744	1748	1752	1756	1760	1764	1767	1771	1774	1778
Energy Intensity (million Btu per household)											
Delivered Energy Consumption	104.8	104.2	103.8	103.6	103.6	103.2	103.2	103.3	103.5	103.0	102.9
Total Energy Consumption	192.3	191.2	190.6	190.1	190.3	189.7	189.4	189.6	190.1	189.2	189.2
(thousand Btu per square foot)											
Delivered Energy Consumption	60.2	59.7	59.4	59.1	59.0	58.7	58.5	58.4	58.4	58.0	57.9
Total Energy Consumption	110.5	109.6	109.0	108.5	108.4	107.8	107.4	107.3	107.3	106.7	106.4
Delivered Energy Consumption by Fuel											
Electricity											
Space Heating	0.43	0.43	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45
Space Cooling	0.71	0.71	0.72	0.72	0.73	0.74	0.74	0.75	0.76	0.77	0.77
Water Heating	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36
Refrigeration	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Cooking	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Clothes Dryers	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27
Freezers	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Lighting	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99
Clothes Washers 1/	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06
Dishwashers 1/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Color Televisions	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.25	0.26	0.26	0.26
Personal Computers	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12
Furnace Fans	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11
Other Uses 2/	1.33	1.36	1.40	1.44	1.48	1.51	1.55	1.58	1.63	1.66	1.70
Delivered Energy	5.03	5.08	5.15	5.22	5.30	5.36	5.43	5.51	5.60	5.65	5.73
Natural Gas											
Space Heating	4.08	4.09	4.11	4.13	4.17	4.19	4.23	4.28	4.33	4.34	4.37
Space Cooling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Heating	1.26	1.25	1.25	1.25	1.25	1.25	1.26	1.26	1.27	1.27	1.27
Cooking	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.26
Clothes Dryers	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11
Other Uses 3/	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12
Delivered Energy	5.78	5.79	5.81	5.84	5.89	5.91	5.96	6.02	6.08	6.10	6.13

**Table 4. Residential Sector Key Indicators and Consumption
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Distillate											
Space Heating	0.80	0.79	0.79	0.78	0.78	0.77	0.76	0.75	0.75	0.74	0.73
Water Heating	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10
Other Uses 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delivered Energy	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83
Liquefied Petroleum Gas											
Space Heating	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Water Heating	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Uses 3/	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24
Delivered Energy	0.57	0.57	0.58	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.62
Marketed Renewables (wood) 5/	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Other Fuels 6/	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11
Delivered Energy Consumption by End-Use											
Space Heating	6.15	6.15	6.16	6.18	6.22	6.23	6.27	6.31	6.35	6.35	6.37
Space Cooling	0.71	0.71	0.72	0.72	0.73	0.74	0.74	0.75	0.76	0.77	0.77
Water Heating	1.80	1.79	1.78	1.78	1.78	1.77	1.78	1.78	1.78	1.78	1.77
Refrigeration	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Cooking	0.38	0.38	0.39	0.39	0.39	0.40	0.40	0.40	0.41	0.41	0.41
Clothes Dryers	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.38
Freezers	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Lighting	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99
Clothes Washers	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06
Dishwashers	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Color Televisions	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.25	0.26	0.26	0.26
Personal Computers	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12
Furnace Fans	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11
Other Uses 7/	1.63	1.67	1.71	1.75	1.80	1.84	1.88	1.92	1.97	2.01	2.06
Delivered Energy	12.83	12.88	12.97	13.06	13.19	13.27	13.38	13.51	13.66	13.72	13.82
Electricity Related Losses	10.71	10.76	10.83	10.92	11.04	11.11	11.18	11.30	11.43	11.49	11.60
Total Energy Consumption by End-Use											
Space Heating	7.07	7.07	7.08	7.10	7.14	7.15	7.18	7.22	7.27	7.27	7.29
Space Cooling	2.21	2.22	2.23	2.23	2.25	2.26	2.28	2.30	2.32	2.33	2.34
Water Heating	2.59	2.57	2.56	2.54	2.54	2.53	2.52	2.52	2.52	2.50	2.49
Refrigeration	1.13	1.12	1.11	1.10	1.10	1.09	1.09	1.09	1.09	1.09	1.09
Cooking	0.62	0.62	0.63	0.63	0.64	0.64	0.65	0.65	0.66	0.66	0.66
Clothes Dryers	0.89	0.89	0.89	0.89	0.90	0.90	0.90	0.90	0.91	0.91	0.92
Freezers	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Lighting	2.79	2.80	2.82	2.84	2.87	2.88	2.90	2.93	2.95	2.97	2.99
Clothes Washers	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.18
Dishwashers	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

**Table 4. Residential Sector Key Indicators and Consumption
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Color Televisions	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76	0.78	0.79	0.79
Personal Computers	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.33	0.35	0.36	0.37
Furnace Fans	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32
Other Uses 7/	4.46	4.55	4.65	4.76	4.87	4.96	5.06	5.17	5.29	5.38	5.50
Total	23.54	23.64	23.80	23.98	24.23	24.38	24.57	24.81	25.10	25.21	25.42
Non-Marketed Renewables											
Geothermal 8/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar 9/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
Total	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05

**Table 4. Residential Sector Key Indicators and Consumption
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Key Indicators				
Households (millions)				
Single-Family	94.66	95.49	96.32	1.1%
Multifamily	33.85	34.10	34.36	0.7%
Mobile Homes	7.03	7.08	7.12	0.5%
Total	135.53	136.67	137.79	1.0%
Average House Square Footage				
	1781	1785	1788	0.2%
Energy Intensity (million Btu per household)				
Delivered Energy Consumption				
Total Energy Consumption	102.8	103.1	102.8	0.0%
(thousand Btu per square foot)				
Delivered Energy Consumption				
Total Energy Consumption	189.3	189.9	189.5	0.0%
Delivered Energy Consumption by Fuel				
Electricity				
Space Heating	0.45	0.46	0.46	0.6%
Space Cooling	0.78	0.79	0.80	0.5%
Water Heating	0.35	0.35	0.35	-0.3%
Refrigeration	0.36	0.37	0.37	-0.6%
Cooking	0.12	0.13	0.13	0.9%
Clothes Dryers	0.27	0.27	0.27	0.6%
Freezers	0.12	0.12	0.12	-0.4%
Lighting	1.00	1.01	1.02	1.4%
Clothes Washers 1/	0.06	0.06	0.06	3.0%
Dishwashers 1/	0.03	0.03	0.03	1.3%
Color Televisions	0.27	0.27	0.27	3.5%
Personal Computers	0.13	0.13	0.14	3.3%
Furnace Fans	0.11	0.11	0.11	1.7%
Other Uses 2/	1.74	1.79	1.83	3.2%
Delivered Energy	5.80	5.90	5.96	1.4%
Natural Gas				
Space Heating	4.41	4.45	4.48	1.0%
Space Cooling	0.00	0.00	0.00	16.0%
Water Heating	1.27	1.28	1.28	0.5%
Cooking	0.26	0.27	0.27	1.1%
Clothes Dryers	0.11	0.11	0.11	2.3%
Other Uses 3/	0.12	0.12	0.12	1.1%
Delivered Energy	6.17	6.23	6.26	0.9%

**Table 4. Residential Sector Key Indicators and Consumption
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Distillate				
Space Heating	0.72	0.72	0.71	-0.4%
Water Heating	0.10	0.10	0.09	-1.1%
Other Uses 4/ Delivered Energy	0.00	0.00	0.00	N/A
	0.82	0.81	0.80	-0.5%
Liquefied Petroleum Gas				
Space Heating	0.31	0.31	0.31	0.1%
Water Heating	0.05	0.05	0.05	-0.1%
Cooking	0.03	0.03	0.03	0.4%
Other Uses 3/ Delivered Energy	0.24	0.25	0.25	2.3%
	0.63	0.63	0.64	0.8%
Marketed Renewables (wood) 5/ Other Fuels 6/				
	0.41	0.41	0.41	0.1%
	0.10	0.10	0.10	1.1%
Delivered Energy Consumption by End-Use				
Space Heating	6.40	6.45	6.46	0.7%
Space Cooling	0.78	0.79	0.80	0.5%
Water Heating	1.77	1.77	1.77	0.2%
Refrigeration	0.36	0.37	0.37	-0.6%
Cooking	0.42	0.42	0.42	1.0%
Clothes Dryers	0.38	0.39	0.39	1.1%
Freezers	0.12	0.12	0.12	-0.4%
Lighting	1.00	1.01	1.02	1.4%
Clothes Washers	0.06	0.06	0.06	3.0%
Dishwashers	0.03	0.03	0.03	1.3%
Color Televisions	0.27	0.27	0.27	3.5%
Personal Computers	0.13	0.13	0.14	3.3%
Furnace Fans	0.11	0.11	0.11	1.7%
Other Uses 7/ Delivered Energy	2.10	2.16	2.20	2.9%
	13.94	14.09	14.17	1.0%
Electricity Related Losses				
	11.71	11.86	11.95	1.0%
Total Energy Consumption by End-Use				
Space Heating	7.32	7.36	7.37	0.6%
Space Cooling	2.37	2.39	2.41	0.2%
Water Heating	2.48	2.48	2.46	-0.1%
Refrigeration	1.10	1.11	1.11	-0.9%
Cooking	0.67	0.68	0.68	0.8%
Clothes Dryers	0.93	0.94	0.94	0.5%
Freezers	0.37	0.37	0.37	-0.7%
Lighting	3.02	3.05	3.07	1.1%
Clothes Washers	0.19	0.19	0.19	2.7%
Dishwashers	0.09	0.10	0.10	1.0%

**Table 4. Residential Sector Key Indicators and Consumption
(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Color Televisions	0.80	0.81	0.82	3.2%
Personal Computers	0.38	0.40	0.41	3.0%
Furnace Fans	0.33	0.33	0.33	1.4%
Other Uses 7/	5.62	5.76	5.87	2.8%
Total	25.65	25.95	26.12	1.0%
Non-Marketed Renewables				
Geothermal 8/	0.01	0.01	0.01	9.0%
Solar 9/	0.04	0.04	0.04	2.3%
Total	0.05	0.05	0.05	3.2%

**Table 4. Residential Sector Key Indicators and Consumption
(Quadrillion Btu per Year, Unless Otherwise Noted)**

1/ Does not include electric water heating portion of load.

2/ Includes small electric devices, heating elements, and motors.

3/ Includes such appliances as swimming pool heaters, outdoor grills, and outdoor lighting (natural gas).

4/ Includes such appliances as swimming pool and hot tub heaters.

5/ Includes wood used for primary and secondary heating in wood stoves or fireplaces as reported in the Residential Energy Consumption Survey 2001.

6/ Includes kerosene and coal.

7/ Includes all other uses listed above.

8/ Includes primary energy displaced by geothermal heat pumps in space heating and cooling applications.

9/ Includes primary energy displaced by solar thermal water heaters and electricity generated using photovoltaics.

N/A = Not applicable.

Btu = British thermal unit.

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.

**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
Marketed Renewable Fuels											
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
Delivered Energy Consumption by End-Use											
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
Total Energy Consumption by End-Use											
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
Non-Marketed Renewable Fuels											
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
Marketed Renewable Fuels											
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
Delivered Energy Consumption by End-Use											
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
Total Energy Consumption by End-Use											
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
Non-Marketed Renewable Fuels											
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
Key Indicators				
Total Floorspace (billion square feet)				
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%
Energy Consumption Intensity (thousand Btu per square foot)				
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%
Delivered Energy Consumption by Fuel				
Purchased Electricity				
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%
Natural Gas				
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%
Distillate				
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
Marketed Renewable Fuels				
Biomass	0.10	0.10	0.10	0.0%
Delivered Energy	0.10	0.10	0.10	0.0%
Delivered Energy Consumption by End-Use				
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%
Total Energy Consumption by End-Use				
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%
Non-Marketed Renewable Fuels				
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.

Table 6. Industrial Sector Key Indicators and Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Value of Shipments (billion 1996 dollars)											
Manufacturing	4059	4064	4043	4219	4373	4508	4640	4754	4876	5013	5155
Nonmanufacturing	1309	1222	1183	1211	1268	1295	1318	1351	1389	1425	1457
Total	5368	5285	5226	5430	5640	5803	5958	6105	6265	6439	6612
Energy Prices (2002 dollars per million Btu)											
Distillate Oil	6.62	6.21	6.87	6.27	5.79	5.69	5.68	5.68	5.68	5.68	5.72
Liquefied Petroleum Gas	12.48	8.28	10.56	10.33	9.27	9.42	9.49	9.61	9.72	9.72	9.90
Residual Oil	3.31	3.89	4.60	3.82	3.61	3.63	3.66	3.69	3.72	3.74	3.78
Motor Gasoline	11.70	11.04	12.21	11.14	11.59	11.69	11.74	11.78	11.83	11.84	11.85
Natural Gas	4.91	3.75	5.60	4.50	4.17	4.09	4.13	4.24	4.11	4.05	4.19
Metallurgical Coal	1.71	1.87	2.03	2.02	1.99	1.98	1.96	1.97	1.96	1.96	1.94
Steam Coal	1.51	1.52	1.63	1.61	1.59	1.58	1.58	1.59	1.58	1.58	1.58
Electricity	15.11	14.74	13.96	13.67	13.52	13.37	13.26	13.37	13.49	13.36	13.30
Energy Consumption 1/ (quadrillion Btu)											
Distillate	1.21	1.16	1.17	1.14	1.15	1.16	1.16	1.17	1.16	1.17	1.19
Liquefied Petroleum Gas	2.10	2.22	2.12	2.16	2.21	2.24	2.29	2.32	2.33	2.35	2.39
Petrochemical Feedstocks	1.16	1.22	1.27	1.28	1.30	1.32	1.33	1.34	1.33	1.35	1.37
Residual Fuel	0.15	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Other Petroleum 2/	4.42	4.19	4.21	4.11	4.40	4.50	4.53	4.57	4.56	4.54	4.53
Petroleum Subtotal	9.04	9.00	8.98	8.90	9.27	9.42	9.53	9.61	9.59	9.63	9.70
Natural Gas	7.56	7.43	7.41	7.76	7.94	8.05	8.18	8.27	8.42	8.62	8.80
Lease and Plant Fuel 3/	1.12	1.35	1.03	1.02	1.08	1.14	1.21	1.28	1.33	1.40	1.42
Natural Gas Subtotal	8.67	8.78	8.44	8.78	9.02	9.20	9.39	9.55	9.75	10.02	10.22
Metallurgical Coal & Coke 4/	0.74	0.65	0.70	0.71	0.70	0.69	0.68	0.67	0.67	0.66	0.64
Steam Coal	1.51	1.47	1.40	1.40	1.41	1.41	1.41	1.41	1.40	1.41	1.41
Coal Subtotal	2.25	2.12	2.11	2.11	2.11	2.10	2.09	2.08	2.07	2.06	2.06
Renewables 5/	1.64	1.66	1.66	1.72	1.79	1.84	1.87	1.91	1.95	2.00	2.05
Purchased Electricity	3.29	3.39	3.34	3.42	3.52	3.59	3.66	3.72	3.76	3.82	3.89
Delivered Energy	24.89	24.94	24.52	24.94	25.70	26.15	26.54	26.86	27.12	27.53	27.91
Electricity Related Losses	7.44	7.53	7.39	7.53	7.73	7.89	8.03	8.12	8.13	8.22	8.32
Total	32.33	32.47	31.91	32.47	33.43	34.03	34.57	34.98	35.26	35.75	36.23
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)											
Distillate	0.23	0.22	0.22	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.18
Liquefied Petroleum Gas	0.39	0.42	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36
Petrochemical Feedstocks	0.22	0.23	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.21
Residual Fuel	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03
Other Petroleum 2/	0.82	0.79	0.81	0.76	0.78	0.77	0.76	0.75	0.73	0.71	0.69
Petroleum Subtotal	1.68	1.70	1.72	1.64	1.64	1.62	1.60	1.57	1.53	1.50	1.47
Natural Gas	1.41	1.41	1.42	1.43	1.41	1.39	1.37	1.35	1.34	1.34	1.33
Lease and Plant Fuel 3/	0.21	0.26	0.20	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.21
Natural Gas Subtotal	1.62	1.66	1.61	1.62	1.60	1.59	1.58	1.56	1.56	1.56	1.55
Metallurgical Coal & Coke 4/	0.14	0.12	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10
Steam Coal	0.28	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.22	0.22	0.21
Coal Subtotal	0.42	0.40	0.40	0.39	0.37	0.36	0.35	0.34	0.33	0.32	0.31
Renewables 5/	0.30	0.31	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31

Table 6. Industrial Sector Key Indicators and Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Purchased Electricity	0.61	0.64	0.64	0.63	0.62	0.62	0.61	0.61	0.60	0.59	0.59
Delivered Energy	4.64	4.72	4.69	4.59	4.56	4.51	4.45	4.40	4.33	4.28	4.22
Electricity Related Losses	1.39	1.42	1.41	1.39	1.37	1.36	1.35	1.33	1.30	1.28	1.26
Total	6.02	6.14	6.11	5.98	5.93	5.87	5.80	5.73	5.63	5.55	5.48

Table 6. Industrial Sector Key Indicators and Consumption

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Value of Shipments (billion 1996 dollars)											
Manufacturing	5297	5449	5601	5760	5932	6122	6307	6462	6634	6796	6988
Nonmanufacturing	1484	1527	1561	1585	1605	1628	1664	1679	1710	1730	1763
Total	6782	6976	7162	7345	7536	7749	7970	8140	8344	8526	8752
Energy Prices (2002 dollars per million Btu)											
Distillate Oil	5.75	5.78	5.79	5.85	5.93	6.03	6.14	6.19	6.24	6.27	6.29
Liquefied Petroleum Gas	9.97	10.07	10.12	10.29	10.41	10.47	10.51	10.58	10.66	10.74	10.82
Residual Oil	3.80	3.83	3.86	3.88	3.92	3.95	3.98	4.00	4.03	4.06	4.09
Motor Gasoline	11.82	11.83	11.83	11.84	11.87	11.86	11.86	11.87	11.87	11.89	11.93
Natural Gas	4.37	4.55	4.65	4.81	4.84	4.84	4.81	4.78	4.89	5.05	5.02
Metallurgical Coal	1.92	1.91	1.91	1.90	1.89	1.88	1.88	1.87	1.84	1.82	1.80
Steam Coal	1.56	1.56	1.55	1.55	1.55	1.55	1.54	1.52	1.53	1.54	1.54
Electricity	13.49	13.47	13.63	13.81	13.96	13.93	14.01	13.93	13.99	14.07	14.03
Energy Consumption 1/ (quadrillion Btu)											
Distillate	1.21	1.23	1.25	1.27	1.28	1.29	1.31	1.32	1.34	1.36	1.37
Liquefied Petroleum Gas	2.43	2.48	2.50	2.53	2.57	2.62	2.66	2.70	2.74	2.78	2.81
Petrochemical Feedstocks	1.39	1.41	1.42	1.43	1.45	1.48	1.50	1.52	1.54	1.55	1.57
Residual Fuel	0.21	0.22	0.22	0.23	0.22	0.22	0.22	0.22	0.22	0.23	0.23
Other Petroleum 2/ Petroleum Subtotal	4.60 9.84	4.70 10.04	4.80 10.19	4.85 10.31	4.91 10.43	4.95 10.56	5.01 10.70	5.06 10.82	5.12 10.95	5.18 11.08	5.25 11.23
Natural Gas	8.89	8.99	9.05	9.12	9.24	9.39	9.56	9.70	9.84	9.92	10.06
Lease and Plant Fuel 3/ Natural Gas Subtotal	1.44 10.33	1.45 10.45	1.46 10.52	1.48 10.60	1.48 10.72	1.51 10.90	1.57 11.13	1.63 11.33	1.65 11.49	1.64 11.56	1.64 11.70
Metallurgical Coal & Coke 4/ Steam Coal	0.63 1.42	0.61 1.42	0.60 1.43	0.59 1.43	0.57 1.43	0.56 1.43	0.55 1.44	0.54 1.44	0.52 1.45	0.51 1.45	0.50 1.45
Coal Subtotal	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.98	1.97	1.96	1.96
Renewables 5/ Purchased Electricity	2.10 3.95	2.16 4.02	2.21 4.08	2.26 4.15	2.30 4.21	2.35 4.29	2.40 4.35	2.44 4.41	2.48 4.47	2.52 4.53	2.56 4.60
Delivered Energy	28.28	28.70	29.03	29.32	29.67	30.09	30.57	30.98	31.36	31.65	32.04
Electricity Related Losses	8.42	8.52	8.59	8.67	8.77	8.88	8.96	9.04	9.12	9.20	9.32
Total	36.70	37.22	37.61	37.99	38.44	38.97	39.53	40.02	40.48	40.85	41.36
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)											
Distillate	0.18	0.18	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16
Liquefied Petroleum Gas	0.36	0.36	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.32
Petrochemical Feedstocks	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18
Residual Fuel	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Petroleum 2/ Petroleum Subtotal	0.68 1.45	0.67 1.44	0.67 1.42	0.66 1.40	0.65 1.38	0.64 1.36	0.63 1.34	0.62 1.33	0.61 1.31	0.61 1.30	0.60 1.28
Natural Gas	1.31	1.29	1.26	1.24	1.23	1.21	1.20	1.19	1.18	1.16	1.15
Lease and Plant Fuel 3/ Natural Gas Subtotal	0.21 1.52	0.21 1.50	0.20 1.47	0.20 1.44	0.20 1.42	0.19 1.41	0.20 1.40	0.20 1.39	0.20 1.38	0.19 1.36	0.19 1.34
Metallurgical Coal & Coke 4/ Steam Coal	0.09 0.21	0.09 0.20	0.08 0.20	0.08 0.19	0.08 0.19	0.07 0.19	0.07 0.18	0.07 0.18	0.06 0.17	0.06 0.17	0.06 0.17
Coal Subtotal	0.30	0.29	0.28	0.27	0.27	0.26	0.25	0.24	0.24	0.23	0.22
Renewables 5/ Electricity	0.31 36.70	0.31 37.22	0.31 37.61	0.31 37.99	0.31 38.44	0.30 38.97	0.30 39.53	0.30 40.02	0.30 40.48	0.30 40.85	0.29 41.36

Table 6. Industrial Sector Key Indicators and Consumption

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Purchased Electricity	0.58	0.58	0.57	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.53
Delivered Energy	4.17	4.11	4.05	3.99	3.94	3.88	3.84	3.81	3.76	3.71	3.66
Electricity Related Losses	1.24	1.22	1.20	1.18	1.16	1.15	1.12	1.11	1.09	1.08	1.06
Total	5.41	5.34	5.25	5.17	5.10	5.03	4.96	4.92	4.85	4.79	4.73

Table 6. Industrial Sector Key Indicators and Consumption

	2023	2024	2025	2002- 2025
Value of Shipments (billion 1996 dollars)				
Manufacturing	7190	7399	7636	2.8%
Nonmanufacturing	1798	1825	1855	1.8%
Total	8988	9224	9491	2.6%
Energy Prices (2002 dollars per million Btu)				
Distillate Oil	6.30	6.34	6.40	0.1%
Liquefied Petroleum Gas	10.89	10.95	11.11	1.3%
Residual Oil	4.11	4.14	4.17	0.3%
Motor Gasoline	11.95	12.01	12.03	0.4%
Natural Gas	5.01	5.00	4.99	1.3%
Metallurgical Coal	1.78	1.77	1.77	-0.2%
Steam Coal	1.54	1.53	1.53	0.0%
Electricity	13.92	14.08	14.09	-0.2%
Energy Consumption 1/ (quadrillion Btu)				
Distillate	1.39	1.41	1.43	0.9%
Liquefied Petroleum Gas	2.86	2.90	2.94	1.2%
Petrochemical Feedstocks	1.59	1.60	1.62	1.2%
Residual Fuel	0.23	0.23	0.23	0.5%
Other Petroleum 2/ Petroleum Subtotal	5.30 11.36	5.32 11.46	5.36 11.59	1.1% 1.1%
Natural Gas	10.24	10.40	10.58	1.5%
Lease and Plant Fuel 3/ Natural Gas Subtotal	1.65 11.89	1.68 12.09	1.69 12.27	1.0% 1.5%
Metallurgical Coal & Coke 4/ Steam Coal	0.49 1.46	0.49 1.46	0.48 1.47	-1.3% 0.0%
Coal Subtotal	1.95	1.95	1.95	-0.4%
Renewables 5/ Purchased Electricity	2.60 4.68	2.65 4.76	2.70 4.85	2.1% 1.6%
Delivered Energy	32.49	32.91	33.35	1.3%
Electricity Related Losses	9.44	9.57	9.72	1.1%
Total	41.93	42.48	43.07	1.2%
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)				
Distillate	0.16	0.15	0.15	-1.6%
Liquefied Petroleum Gas	0.32	0.31	0.31	-1.3%
Petrochemical Feedstocks	0.18	0.17	0.17	-1.3%
Residual Fuel	0.03	0.02	0.02	-2.0%
Other Petroleum 2/ Petroleum Subtotal	0.59 1.26	0.58 1.24	0.56 1.22	-1.5% -1.4%
Natural Gas	1.14	1.13	1.11	-1.0%
Lease and Plant Fuel 3/ Natural Gas Subtotal	0.18 1.32	0.18 1.31	0.18 1.29	-1.6% -1.1%
Metallurgical Coal & Coke 4/ Steam Coal	0.06 0.16	0.05 0.16	0.05 0.15	-3.8% -2.5%
Coal Subtotal	0.22	0.21	0.21	-2.9%
Renewables 5/	0.29	0.29	0.28	-0.4%

Table 6. Industrial Sector Key Indicators and Consumption

	2023	2024	2025	2002-2025
Purchased Electricity	0.52	0.52	0.51	-1.0%
Delivered Energy	3.61	3.57	3.51	-1.3%
Electricity Related Losses	1.05	1.04	1.02	-1.4%
Total	4.67	4.60	4.54	-1.3%

Table 6. Industrial Sector Key Indicators and Consumption

1/ Fuel consumption includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

2/ Includes petroleum coke, asphalt, road oil, lubricants, motor gasoline, still gas, and miscellaneous petroleum products.

3/ Represents natural gas used in the field gathering and processing plant machinery.

4/ Includes net coke coal imports.

5/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

Btu = British thermal unit.

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.

Sources: 2001 prices for motor gasoline and distillate are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2001, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (September 2002). 2002 prices for motor gasoline and distillate are based on: EIA, Petroleum Marketing Annual 2002, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (August 2003). 2001 and 2002 coal prices are based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC), March 2003 and EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E. 2001 and 2002 electricity prices: Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). 2001 and 2002 natural gas prices based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 consumption values based on: Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). 2001 and 2002 shipments: Global Insight macroeconomic model T250803. Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Key Indicators											
Level of Travel (billions)											
Light-Duty Vehicles <8500 lbs. (VMT)	2485	2504	2552	2638	2709	2776	2841	2906	2972	3041	3112
Commercial Light Trucks (VMT) 1/	64	65	65	67	70	71	73	75	77	79	81
Freight Trucks >10000 lbs. (VMT)	201	196	197	205	213	219	225	230	236	242	249
Air (seat miles available)	953	909	906	930	958	987	1014	1048	1081	1122	1159
Rail (ton miles traveled)	1417	1336	1334	1368	1402	1445	1474	1492	1521	1545	1582
Domestic Shipping (ton miles traveled)	774	724	716	731	749	763	776	787	796	805	816
Energy Efficiency											
New Light-Duty Vehicle (MPG) 2/	24.0	23.8	24.0	24.0	24.1	24.8	25.2	25.0	25.1	25.3	25.4
New Car (MPG) 2/	28.2	28.2	28.5	28.4	28.3	28.5	28.4	28.2	28.4	28.8	29.0
New Light Truck (MPG) 2/	20.5	20.5	20.6	20.8	21.0	22.0	22.8	22.5	22.6	22.8	22.9
Light-Duty Fleet (MPG) 3/	19.8	19.7	19.6	19.5	19.5	19.5	19.5	19.5	19.6	19.6	19.7
New Commercial Light Truck (MPG) 1/	13.9	13.9	14.0	13.9	14.0	14.7	15.2	15.0	15.1	15.1	15.2
Stock Commercial Light Truck (MPG) 1/	13.7	13.8	13.9	13.9	13.9	14.0	14.2	14.3	14.4	14.5	14.6
Aircraft (seat miles per gallon)	55.3	54.8	56.7	57.1	57.6	57.9	58.3	58.8	59.3	59.9	60.5
Freight Truck (MPG)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Rail (ton miles/thousand Btu)	2.8	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.1	3.1	3.1
Domestic Shipping (ton miles per thousand Btu)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Energy Use by Mode											
quadrillion Btu											
Light-Duty Vehicles	15.16	15.58	15.91	16.47	16.96	17.38	17.76	18.15	18.52	18.91	19.29
Commercial Light Trucks 1/	0.58	0.59	0.58	0.60	0.62	0.64	0.65	0.66	0.67	0.68	0.70
Bus Transportation	0.25	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26
Freight Trucks	4.22	4.09	4.11	4.26	4.42	4.55	4.67	4.78	4.89	5.03	5.16
Rail, Passenger	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13
Rail, Freight	0.50	0.47	0.46	0.47	0.48	0.49	0.49	0.49	0.50	0.50	0.51
Shipping, Domestic	0.34	0.32	0.31	0.32	0.32	0.33	0.34	0.34	0.34	0.35	0.35
Shipping, International	0.77	0.64	0.71	0.71	0.71	0.71	0.72	0.72	0.72	0.72	0.72
Recreational Boats	0.30	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34
Air	2.97	2.84	2.72	2.79	2.89	2.99	3.08	3.17	3.25	3.35	3.43
Military Use	0.62	0.66	0.72	0.74	0.75	0.75	0.76	0.76	0.77	0.77	0.78
Lubricants	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.22
Pipeline Fuel	0.64	0.65	0.68	0.67	0.67	0.66	0.67	0.67	0.68	0.69	0.70
Total	26.67	26.70	27.06	27.91	28.71	29.41	30.02	30.65	31.27	31.93	32.57
million barrels per day oil equivalent											
Light-Duty Vehicles	7.98	8.20	8.37	8.67	8.93	9.16	9.35	9.56	9.75	9.96	10.15
Commercial Light Trucks 1/	0.31	0.31	0.31	0.32	0.33	0.34	0.34	0.35	0.35	0.36	0.37
Bus Transportation	0.12	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Freight Trucks	2.00	1.94	1.95	2.02	2.09	2.15	2.21	2.26	2.31	2.38	2.44
Rail, Passenger	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Rail, Freight	0.24	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.24	0.24

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Shipping, Domestic	0.16	0.15	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16
Shipping, International	0.34	0.28	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32
Recreational Boats	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18
Air	1.44	1.38	1.32	1.35	1.40	1.45	1.49	1.53	1.57	1.62	1.66
Military Use	0.30	0.32	0.34	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37
Lubricants	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10
Pipeline Fuel	0.32	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.35	0.35
Total	13.50	13.54	13.73	14.16	14.57	14.93	15.24	15.55	15.87	16.20	16.52

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Key Indicators											
Level of Travel (billions)											
Light-Duty Vehicles <8500 lbs. (VMT)	3187	3267	3339	3409	3479	3549	3621	3694	3768	3843	3919
Commercial Light Trucks (VMT) 1/	83	85	88	90	92	94	97	99	101	103	106
Freight Trucks >10000 lbs. (VMT)	255	263	269	276	283	291	298	305	313	319	327
Air (seat miles available)	1204	1248	1294	1327	1356	1386	1411	1435	1455	1473	1489
Rail (ton miles traveled)	1610	1638	1664	1690	1731	1761	1788	1819	1852	1884	1926
Domestic Shipping (ton miles traveled)	826	838	847	857	865	877	895	908	918	925	934
Energy Efficiency											
New Light-Duty Vehicle (MPG) 2/	25.6	25.7	25.9	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7
New Car (MPG) 2/	29.3	29.5	29.7	29.9	30.0	30.1	30.2	30.3	30.4	30.5	30.6
New Light Truck (MPG) 2/	23.1	23.2	23.4	23.5	23.7	23.8	23.9	24.0	24.1	24.3	24.4
Light-Duty Fleet (MPG) 3/	19.7	19.8	19.9	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7
New Commercial Light Truck (MPG) 1/	15.3	15.4	15.5	15.6	15.7	15.8	15.9	15.9	16.0	16.1	16.2
Stock Commercial Light Truck (MPG) 1/	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7
Aircraft (seat miles per gallon)	61.2	62.0	62.7	63.3	63.9	64.3	64.7	65.1	65.4	65.7	66.0
Freight Truck (MPG)	6.0	6.1	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4
Rail (ton miles/thousand Btu)	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.5	3.5
Domestic Shipping (ton miles per thousand Btu)	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Energy Use by Mode											
quadrillion Btu											
Light-Duty Vehicles	19.68	20.09	20.43	20.75	21.07	21.38	21.69	22.01	22.34	22.69	23.05
Commercial Light Trucks 1/	0.71	0.72	0.74	0.75	0.76	0.78	0.79	0.80	0.82	0.83	0.84
Bus Transportation	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Freight Trucks	5.28	5.41	5.52	5.62	5.73	5.84	5.95	6.04	6.15	6.25	6.37
Rail, Passenger	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16
Rail, Freight	0.51	0.51	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.55	0.55
Shipping, Domestic	0.35	0.36	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.39
Shipping, International	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Recreational Boats	0.34	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37
Air	3.52	3.61	3.70	3.76	3.82	3.89	3.96	4.03	4.09	4.14	4.19
Military Use	0.78	0.79	0.79	0.79	0.80	0.80	0.81	0.81	0.81	0.81	0.82
Lubricants	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26
Pipeline Fuel	0.71	0.72	0.72	0.72	0.72	0.72	0.77	0.82	0.83	0.83	0.82
Total	33.23	33.90	34.47	35.00	35.50	36.05	36.63	37.19	37.73	38.26	38.83
million barrels per day oil equivalent											
Light-Duty Vehicles	10.36	10.57	10.75	10.92	11.08	11.24	11.41	11.57	11.74	11.92	12.11
Commercial Light Trucks 1/	0.37	0.38	0.39	0.40	0.40	0.41	0.42	0.42	0.43	0.44	0.45
Bus Transportation	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Freight Trucks	2.50	2.56	2.61	2.66	2.71	2.76	2.81	2.85	2.91	2.95	3.01
Rail, Passenger	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08
Rail, Freight	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26	0.26

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Shipping, Domestic	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18
Shipping, International	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Recreational Boats	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20
Air	1.70	1.74	1.79	1.82	1.85	1.88	1.92	1.95	1.98	2.00	2.03
Military Use	0.38	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39
Lubricants	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12
Pipeline Fuel	0.36	0.36	0.36	0.36	0.36	0.37	0.39	0.42	0.42	0.42	0.42
Total	16.86	17.20	17.49	17.75	18.01	18.28	18.58	18.86	19.13	19.40	19.68

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2023	2024	2025	2002- 2025
Key Indicators				
Level of Travel (billions)				
Light-Duty Vehicles <8500 lbs. (VMT)	3999	4083	4173	2.2%
Commercial Light Trucks (VMT) 1/	108	111	114	2.5%
Freight Trucks >10000 lbs. (VMT)	336	345	354	2.6%
Air (seat miles available)	1501	1514	1521	2.3%
Rail (ton miles traveled)	1975	2013	2056	1.9%
Domestic Shipping (ton miles traveled)	949	964	977	1.3%
Energy Efficiency				
New Light-Duty Vehicle (MPG) 2/				
New Car (MPG) 2/	30.7	30.7	30.8	0.4%
New Light Truck (MPG) 2/	24.5	24.6	24.7	0.8%
Light-Duty Fleet (MPG) 3/				
New Commercial Light Truck (MPG) 1/	16.3	16.3	16.4	0.7%
Stock Commercial Light Truck (MPG) 1/	15.7	15.8	15.9	0.6%
Aircraft (seat miles per gallon)	66.3	66.7	67.0	0.9%
Freight Truck (MPG)	6.5	6.5	6.5	0.4%
Rail (ton miles/thousand Btu)	3.5	3.6	3.6	1.0%
Domestic Shipping (ton miles per thousand Btu)	2.4	2.4	2.4	0.2%
Energy Use by Mode				
quadrillion Btu				
Light-Duty Vehicles	23.43	23.83	24.28	1.9%
Commercial Light Trucks 1/	0.86	0.88	0.90	1.9%
Bus Transportation	0.26	0.26	0.26	0.4%
Freight Trucks	6.51	6.65	6.82	2.2%
Rail, Passenger	0.17	0.17	0.17	1.8%
Rail, Freight	0.56	0.57	0.57	0.9%
Shipping, Domestic	0.40	0.40	0.41	1.1%
Shipping, International	0.73	0.74	0.74	0.6%
Recreational Boats	0.38	0.38	0.39	0.9%
Air	4.23	4.27	4.30	1.8%
Military Use	0.82	0.82	0.82	0.9%
Lubricants	0.27	0.27	0.28	1.5%
Pipeline Fuel	0.84	0.85	0.86	1.2%
Total	39.44	40.09	40.79	1.9%
million barrels per day oil equivalent				
Light-Duty Vehicles	12.31	12.52	12.75	1.9%
Commercial Light Trucks 1/	0.45	0.46	0.47	1.9%
Bus Transportation	0.12	0.12	0.12	0.4%
Freight Trucks	3.08	3.14	3.22	2.2%
Rail, Passenger	0.08	0.08	0.08	1.8%
Rail, Freight	0.26	0.27	0.27	0.9%

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2023	2024	2025	2002-2025
Shipping, Domestic	0.18	0.19	0.19	1.1%
Shipping, International	0.32	0.32	0.32	0.6%
Recreational Boats	0.20	0.20	0.20	0.9%
Air	2.05	2.07	2.08	1.8%
Military Use	0.39	0.39	0.39	0.9%
Lubricants	0.13	0.13	0.13	1.5%
Pipeline Fuel	0.42	0.43	0.43	1.2%
Total	20.00	20.33	20.68	1.9%

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

1/ Commercial trucks 8,500 to 10,000 pounds.

2/ Environmental Protection Agency rated miles per gallon.

3/ Combined car and light truck "on-the-road" estimate.

Btu = British thermal unit.

VMT = Vehicle miles traveled.

Lbs. = Pounds.

MPG = Miles per gallon.

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 report

Sources: 2001 and 2002: Energy Information Administration (EIA), Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003); Federal Highway Administration, Highway Statistics 2001 (Washington, DC, November 2002); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 22 and annual (Oak Ridge, TN, September 2002); National Highway Traffic and Safety Administration, Summary of Fuel Economy Performance (Washington, DC, February 2000); EIA, Household Vehicle Energy Consumption 1994, DOE/EIA-0464(94) (Washington, DC, August 1997); U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives To Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; EIA, State Energy Data Report 1999, DOE/EIA-0214(99) (Washington, DC, May 2001); U.S. Department of Transportation, Research and Special Programs Administration, Air Carrier Statistics Monthly, December 2002/2001 (Washington, DC, 2002); EIA, Fuel Oil and Kerosene Sales 2001, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/foks.html; and United States Department of Defense, Defense Fuel Supply Center. Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 8. Electricity Supply, Disposition, Prices, and Emissions
(Billion Kilowatthours, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Generation by Fuel Type											
Electric Power Sector 1/ Power Only 2/											
Coal	1852	1875	1944	1947	2002	2057	2110	2131	2173	2201	2222
Petroleum	113	77	95	51	62	61	64	71	68	62	69
Natural Gas 3/	427	450	420	504	505	524	537	577	597	642	681
Nuclear Power	769	780	762	779	791	794	795	796	791	794	800
Pumped Storage/Other	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
Renewable Sources 4/	259	304	339	374	379	383	389	392	396	400	405
Distributed Generation (Natural Gas)	0	0	0	0	0	0	0	0	0	0	0
Non-Utility Generation for Own Use	-20	-34	-39	-40	-40	-40	-40	-40	-37	-37	-37
Total	3391	3443	3512	3606	3690	3770	3845	3918	3977	4054	4129
Combined Heat and Power 5/											
Coal	31	32	28	29	30	32	33	33	33	33	33
Petroleum	6	6	2	0	0	0	1	1	1	1	2
Natural Gas	128	148	152	157	159	161	166	170	176	174	175
Renewable Sources	4	5	4	4	4	4	4	4	4	4	4
Non-Utility Generation for Own Use	-9	-11	-24	-24	-24	-24	-24	-24	-24	-24	-24
Total	160	183	163	166	170	173	180	184	191	188	189
Net Available to the Grid	3551	3626	3674	3773	3860	3944	4025	4102	4167	4242	4318
End-Use Sector Generation											
Combined Heat and Power 6/											
Coal	21	21	21	21	21	21	21	21	21	21	21
Petroleum	6	5	5	5	8	9	10	10	11	12	13
Natural Gas	83	84	84	86	89	94	97	100	105	109	114
Other Gaseous Fuels 7/	4	5	6	6	8	8	8	9	9	9	10
Renewable Sources 4/	29	30	31	32	34	35	36	37	38	39	40
Other 8/	9	11	11	11	11	11	11	11	11	11	11
Total	151	157	158	162	172	178	183	188	195	202	208
Other End-Use Generators 9/	3	4	4	4	4	4	5	5	5	5	5
Generation for Own Use	-129	-134	-134	-136	-144	-147	-149	-152	-155	-158	-161
Total Sales to the Grid	25	27	28	31	32	35	38	41	45	48	52
Total Electricity Generation	3734	3831	3900	4003	4100	4191	4276	4359	4428	4510	4593
Net Imports	22	22	40	30	32	29	28	28	29	31	32
Electricity Sales by Sector											
Residential	1203	1268	1282	1302	1319	1338	1360	1386	1405	1428	1450
Commercial	1197	1208	1213	1254	1296	1335	1372	1408	1443	1480	1517
Industrial	964	994	978	1003	1030	1053	1073	1089	1103	1120	1140

**Table 8. Electricity Supply, Disposition, Prices, and Emissions
(Billion Kilowatthours, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Transportation	22	22	23	23	24	24	25	25	26	26	27
Total	3386	3492	3495	3582	3669	3750	3830	3909	3977	4055	4133
End-Use Prices 10/ (2002 cents per kilowatthour)											
Residential	8.7	8.4	8.5	8.3	8.2	8.1	8.0	8.0	8.0	7.9	7.9
Commercial	8.0	7.8	7.6	7.4	7.2	7.0	6.9	6.9	7.0	7.0	7.0
Industrial	5.2	5.0	4.8	4.7	4.6	4.6	4.5	4.6	4.6	4.6	4.5
Transportation	7.4	7.2	7.3	7.1	6.9	6.7	6.6	6.6	6.7	6.7	6.7
All Sectors Average	7.4	7.2	7.1	7.0	6.8	6.7	6.6	6.6	6.7	6.6	6.6
Prices by Service Category 10/ (2002 cents per kilowatthour)											
Generation	4.8	4.6	4.6	4.4	4.3	4.2	4.2	4.1	4.2	4.1	4.1
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Distribution	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
Electric Power Sector Emissions 1/											
Sulfur Dioxide (million tons)	10.63	10.54	10.62	10.80	10.18	9.90	10.13	10.30	9.93	9.90	9.86
Nitrogen Oxide (million tons)	4.75	4.39	3.70	3.23	3.28	3.36	3.43	3.46	3.48	3.50	3.52
Mercury (tons)	49.14	50.95	50.87	49.95	50.12	50.78	52.14	52.26	52.33	52.20	52.81

**Table 8. Electricity Supply, Disposition, Prices, and Emissions
(Billion Kilowatthours, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Generation by Fuel Type											
Electric Power Sector 1/ Power Only 2/											
Coal	2244	2265	2288	2318	2353	2395	2435	2493	2560	2634	2724
Petroleum	82	88	96	103	101	100	92	87	82	87	82
Natural Gas 3/	717	755	791	814	854	891	935	961	972	962	959
Nuclear Power	803	806	809	812	814	816	816	816	816	816	816
Pumped Storage/Other	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
Renewable Sources 4/	408	412	416	420	423	426	429	434	442	448	450
Distributed Generation (Natural Gas)	0	1	1	1	1	2	2	3	3	4	4
Non-Utility Generation for Own Use	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37
Total	4206	4279	4352	4423	4500	4583	4663	4747	4829	4906	4989
Combined Heat and Power 5/											
Coal	33	34	34	34	34	33	33	33	33	33	33
Petroleum	2	3	4	5	4	4	3	3	2	3	3
Natural Gas	176	173	168	165	165	161	163	161	159	156	154
Renewable Sources	4	4	4	4	4	4	4	4	4	4	4
Non-Utility Generation for Own Use	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24
Total	191	189	185	183	183	179	179	177	175	172	169
Net Available to the Grid	4397	4468	4538	4606	4683	4762	4842	4924	5004	5077	5159
End-Use Sector Generation											
Combined Heat and Power 6/											
Coal	21	21	21	21	21	21	21	21	21	21	21
Petroleum	13	14	14	15	15	15	16	17	17	17	17
Natural Gas	118	121	125	129	133	137	142	147	153	158	163
Other Gaseous Fuels 7/	10	10	10	11	11	11	12	12	12	12	12
Renewable Sources 4/	41	43	44	45	46	47	48	49	50	51	52
Other 8/	11	11	11	11	11	11	11	11	11	11	11
Total	215	220	226	231	237	243	250	257	264	271	277
Other End-Use Generators 9/	5	5	5	5	5	5	5	5	5	6	6
Generation for Own Use	-164	-167	-170	-173	-176	-179	-182	-186	-190	-193	-197
Total Sales to the Grid	55	58	61	63	66	69	73	76	80	83	86
Total Electricity Generation	4678	4755	4830	4904	4987	5071	5159	5247	5335	5415	5503
Net Imports	31	31	30	32	30	27	24	20	21	17	13
Electricity Sales by Sector											
Residential	1474	1490	1510	1531	1554	1571	1592	1615	1641	1657	1678
Commercial	1552	1587	1621	1653	1684	1718	1754	1792	1828	1862	1895
Industrial	1159	1180	1197	1216	1235	1256	1276	1292	1310	1327	1348

**Table 8. Electricity Supply, Disposition, Prices, and Emissions
(Billion Kilowatthours, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Transportation	27	28	28	29	30	30	31	31	32	33	33
Total	4212	4285	4357	4429	4502	4576	4653	4730	4811	4879	4955
End-Use Prices 10/ (2002 cents per kilowattho											
Residential	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Commercial	7.1	7.0	7.1	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.3
Industrial	4.6	4.6	4.6	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Transportation	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.9	6.8
All Sectors Average	6.7	6.7	6.8	6.8	6.9	6.8	6.9	6.8	6.9	6.9	6.9
Prices by Service Category 10/ (2002 cents per kilowatthour)											
Generation	4.2	4.2	4.3	4.4	4.4	4.4	4.4	4.4	4.5	4.5	4.5
Transmission	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Distribution	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7
Electric Power Sector Emissions 1/											
Sulfur Dioxide (million tons)	9.37	9.15	9.09	8.95	8.95	8.95	8.94	8.95	8.94	8.94	8.94
Nitrogen Oxide (million tons)	3.54	3.56	3.57	3.60	3.63	3.65	3.64	3.65	3.67	3.66	3.68
Mercury (tons)	52.84	52.45	52.45	52.65	53.24	53.19	53.02	53.17	53.59	53.74	53.72

**Table 8. Electricity Supply, Disposition, Prices, and Emissions
(Billion Kilowatthours, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Generation by Fuel Type				
Electric Power Sector 1/ Power Only 2/				
Coal	2830	2891	2975	2.0%
Petroleum	75	78	77	0.0%
Natural Gas 3/	948	969	969	3.4%
Nuclear Power	816	816	816	0.2%
Pumped Storage/Other	-9	-9	-9	0.3%
Renewable Sources 4/	452	456	460	1.8%
Distributed Generation (Natural Gas)	5	5	5	N/A
Non-Utility Generation for Own Use	-37	-37	-37	0.4%
Total	5079	5169	5257	1.9%
Combined Heat and Power 5/				
Coal	33	33	33	0.1%
Petroleum	2	2	2	-3.8%
Natural Gas	150	150	149	0.0%
Renewable Sources	4	4	4	-0.7%
Non-Utility Generation for Own Use	-24	-24	-24	3.6%
Total	165	166	164	-0.5%
Net Available to the Grid	5244	5335	5421	1.8%
End-Use Sector Generation				
Combined Heat and Power 6/				
Coal	21	21	21	0.0%
Petroleum	17	17	18	5.6%
Natural Gas	169	175	181	3.4%
Other Gaseous Fuels 7/	13	13	13	4.3%
Renewable Sources 4/	52	53	54	2.6%
Other 8/	11	11	11	0.0%
Total	284	291	299	2.8%
Other End-Use Generators 9/	6	6	7	1.9%
Generation for Own Use	-201	-206	-210	2.0%
Total Sales to the Grid	88	92	95	5.6%
Total Electricity Generation	5595	5693	5787	1.8%
Net Imports	11	9	8	-4.6%
Electricity Sales by Sector				
Residential	1701	1729	1747	1.4%
Commercial	1929	1965	2003	2.2%
Industrial	1372	1395	1422	1.6%

**Table 8. Electricity Supply, Disposition, Prices, and Emissions
(Billion Kilowatthours, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
Transportation	34	35	35	2.1%
Total	5036	5123	5207	1.8%
End-Use Prices 10/ (2002 cents per kilowattho				
Residential	8.1	8.1	8.1	-0.2%
Commercial	7.2	7.3	7.3	-0.3%
Industrial	4.7	4.8	4.8	-0.2%
Transportation	6.8	6.8	6.8	-0.2%
All Sectors Average	6.8	6.9	6.9	-0.2%
Prices by Service Category 10/ (2002 cents per kilowatthour)				
Generation	4.5	4.5	4.5	-0.1%
Transmission	0.7	0.7	0.7	0.9%
Distribution	1.7	1.7	1.7	-0.7%
Electric Power Sector Emissions 1/				
Sulfur Dioxide (million tons)	8.94	8.95	8.95	-0.7%
Nitrogen Oxide (million tons)	3.71	3.73	3.75	-0.7%
Mercury (tons)	53.87	53.97	54.37	0.3%

**Table 8. Electricity Supply, Disposition, Prices, and Emissions
(Billion Kilowatthours, Unless Otherwise Noted)**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.

2/ Includes plants that only produce electricity.

3/ Includes electricity generation from fuel cells.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, landfill gas, other biomass, solar, and wind power.

5/ Includes combined heat and power plants whose primary business is to sell electricity and heat to the public (i.e., those that report NAICS code 22).

6/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors.

7/ Other gaseous fuels include refinery and still gas.

8/ Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

9/ Other end-use generators include small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

10/ Prices represent average revenue per kilowatthour.

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.

Sources: 2001 and 2002 power only and combined heat and power generation, sales to utilities, net imports, residential, industrial, and total electricity sales, and emissions: Energy Information Administration (EIA), Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003) and supporting databases. 2001 and 2002 commercial and transportation electricity sales: EIA estimates based on Oak Ridge National Laboratory, Transportation Energy Data Book 21 (Oak Ridge, TN, November 2001). 2001 and 2002 prices: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E. Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 9. Electricity Generating Capacity
(Gigawatts)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Electric Power Sector 2/											
Power Only 3/											
Coal Steam	305.5	305.7	305.4	304.6	303.7	302.6	301.0	301.3	302.7	305.1	306.6
Other Fossil Steam 4/	133.8	132.5	130.1	129.8	127.7	126.0	123.4	122.2	110.3	105.0	103.6
Combined Cycle	43.0	81.0	114.5	120.7	121.4	121.4	121.4	121.8	123.0	127.1	131.7
Combustion Turbine/Diesel	97.3	123.5	129.8	130.3	134.3	133.9	133.4	134.3	128.0	131.1	134.1
Nuclear Power 5/	98.2	98.7	99.2	99.5	99.8	100.1	100.2	100.4	100.4	100.6	100.7
Pumped Storage	19.9	20.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Renewable Sources 6/	90.4	91.4	93.4	93.6	93.9	94.7	95.5	96.0	96.5	97.1	97.9
Distributed Generation (Natural Gas) 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.7
Total	788.0	853.1	892.6	898.7	901.1	899.1	895.4	896.5	881.6	886.8	895.7
Combined Heat and Power 8/											
Coal Steam	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.1	5.1	5.1
Other Fossil Steam 4/	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Combined Cycle	22.5	29.4	32.3	33.1	33.1	33.1	33.1	33.1	33.1	32.9	32.9
Combustion Turbine/Diesel	4.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Renewable Sources 6/	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total	33.8	41.4	44.3	45.0	45.0	45.0	45.0	45.0	45.0	44.8	44.8
Total Electric Power Industry	821.8	894.5	936.9	943.8	946.2	944.2	940.5	941.6	926.5	931.7	940.5
Cumulative Planned Additions 9/											
Coal Steam	0.0	0.0	0.1	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1
Other Fossil Steam 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined Cycle	0.0	0.0	35.8	42.7	43.5	43.5	43.5	43.5	43.5	43.5	43.5
Combustion Turbine/Diesel	0.0	0.0	7.3	7.5	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Renewable Sources 6/	0.0	0.0	1.9	2.1	2.4	3.0	3.7	4.0	4.2	4.3	4.4
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.0	0.0	45.1	52.9	54.5	55.7	56.4	56.8	56.9	57.1	57.1
Cumulative Unplanned Additions 9/											
Coal Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	3.2	5.7	7.1
Other Fossil Steam 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined Cycle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.5	6.6	11.2
Combustion Turbine/Diesel	0.0	0.0	0.0	0.3	4.0	4.0	4.1	5.1	6.6	10.5	13.9
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewable Sources 6/	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	1.1	1.9

**Table 9. Electricity Generating Capacity
(Gigawatts)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.7
Total	0.0	0.0	0.0	0.3	4.0	4.0	4.7	7.0	13.2	24.3	34.8
Cumulative Total Additions	0.0	0.0	45.1	53.3	58.6	59.7	61.1	63.8	70.1	81.4	91.9
Cumulative Retirements 10/											
Coal Steam	0.0	0.0	0.4	1.7	2.7	4.2	6.3	6.7	7.5	7.5	7.5
Other Fossil Steam 4/	0.0	0.0	0.5	0.8	2.9	4.6	7.2	8.4	20.3	25.6	27.0
Combined Cycle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	1.1
Combustion Turbine/Diesel	0.0	0.0	0.3	0.3	0.6	1.0	1.6	1.6	9.4	10.2	10.7
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewable Sources 6/	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total	0.0	0.0	1.2	3.0	6.3	9.9	15.1	16.8	38.3	44.6	46.4
End-Use Sector Generators											
Combined Heat and Power 11/											
Coal	4.1	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Petroleum	1.0	1.0	1.0	1.0	1.2	1.3	1.3	1.4	1.5	1.6	1.7
Natural Gas	13.9	14.1	14.2	14.6	15.1	15.7	16.1	16.6	17.2	17.8	18.3
Other Gaseous Fuels	1.6	1.8	1.8	1.8	2.0	2.1	2.1	2.1	2.2	2.2	2.2
Renewable Sources 6/	4.0	4.2	4.2	4.5	4.8	5.0	5.1	5.2	5.4	5.6	5.8
Other	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total	24.8	25.5	25.7	26.3	27.6	28.5	29.1	29.8	30.7	31.7	32.6
Other End-Use Generators 12/											
Renewable Sources 13/	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4
Cumulative Additions 9/											
Combined Heat and Power 11/	0.0	0.0	0.2	0.8	2.1	3.1	3.6	4.3	5.2	6.2	7.1
Other End-Use Generators 12/	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.4

**Table 9. Electricity Generating Capacity
(Gigawatts)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Electric Power Sector 2/											
Power Only 3/											
Coal Steam	308.3	310.5	312.9	316.4	320.6	326.0	331.2	339.1	348.4	358.9	371.8
Other Fossil Steam 4/	102.6	102.2	101.8	101.6	101.6	101.0	100.5	100.3	100.0	98.8	98.1
Combined Cycle	134.9	142.5	151.3	158.8	162.8	170.4	174.5	179.8	184.4	190.4	193.8
Combustion Turbine/Diesel	136.9	142.6	147.2	152.7	155.4	159.2	160.9	162.4	163.9	166.8	170.8
Nuclear Power 5/	101.0	101.4	101.8	102.1	102.4	102.6	102.6	102.6	102.6	102.6	102.6
Pumped Storage	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
Fuel Cells	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Renewable Sources 6/	98.4	99.4	100.0	101.0	101.4	102.1	102.7	103.6	105.7	107.1	107.4
Distributed Generation (Natural Gas) 7/	0.9	1.2	1.7	2.4	3.3	4.4	5.2	6.4	7.6	8.8	9.8
Total	903.4	920.0	937.1	955.3	967.8	986.0	998.1	1014.6	1032.9	1053.8	1074.7
Combined Heat and Power 8/											
Coal Steam	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Other Fossil Steam 4/	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Combined Cycle	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
Combustion Turbine/Diesel	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Renewable Sources 6/	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
Total Electric Power Industry	948.3	964.8	981.9	1000.2	1012.6	1030.8	1042.9	1059.4	1077.7	1098.6	1119.5
Cumulative Planned Additions 9/											
Coal Steam	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Other Fossil Steam 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined Cycle	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
Combustion Turbine/Diesel	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Renewable Sources 6/	4.4	4.5	4.6	4.6	4.6	4.7	4.7	4.7	4.7	4.8	4.8
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	57.2	57.2	57.3	57.4	57.4	57.4	57.4	57.4	57.5	57.5	57.5
Cumulative Unplanned Additions 9/											
Coal Steam	8.9	11.0	13.9	17.5	21.7	27.0	33.6	41.4	50.7	62.1	75.0
Other Fossil Steam 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined Cycle	14.4	22.0	30.8	38.3	42.3	49.9	54.1	59.4	64.0	69.9	73.3
Combustion Turbine/Diesel	16.9	22.6	27.3	32.8	35.5	39.4	41.0	43.2	46.0	50.0	54.0
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewable Sources 6/	2.3	3.2	3.8	4.6	5.1	5.7	6.3	7.3	9.3	10.6	10.9

**Table 9. Electricity Generating Capacity
(Gigawatts)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Distributed Generation 7/ Total	0.9	1.2	1.7	2.4	3.3	4.4	5.2	6.4	7.6	8.8	9.8
Cumulative Total Additions	100.6	117.2	134.8	153.0	165.3	183.8	197.6	215.1	235.0	258.9	280.6
Cumulative Retirements 10/ Coal Steam	7.5	7.5	8.0	8.0	8.0	8.0	9.3	9.3	9.3	10.1	10.1
Other Fossil Steam 4/ Combined Cycle	28.0	28.4	28.8	29.0	29.0	29.6	30.1	30.3	30.6	31.8	32.5
Combustion Turbine/Diesel	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Nuclear Power	10.9	10.9	10.9	11.0	11.0	11.0	11.0	11.7	13.0	14.0	14.1
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewable Sources 6/ Total	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	47.6	48.1	48.9	49.3	49.3	49.9	51.6	52.6	54.2	57.2	58.0
End-Use Sector Generators											
Combined Heat and Power 11/ Coal	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Petroleum	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.2	2.2
Natural Gas	18.9	19.4	19.9	20.4	20.9	21.5	22.2	22.9	23.7	24.4	25.1
Other Gaseous Fuels	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6
Renewable Sources 6/ Other	6.1	6.3	6.5	6.7	6.9	7.0	7.2	7.4	7.5	7.6	7.8
Total	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	33.5	34.3	35.1	35.8	36.6	37.5	38.4	39.4	40.5	41.3	42.2
Other End-Use Generators 12/ Renewable Sources 13/	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.7	1.8
Cumulative Additions 9/ Combined Heat and Power 11/ Other End-Use Generators 12/	8.0	8.8	9.6	10.4	11.1	12.0	13.0	13.9	15.0	15.8	16.7
	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7

**Table 9. Electricity Generating Capacity
(Gigawatts)**

	2023	2024	2025	2002- 2025
Electric Power Sector 2/				
Power Only 3/				
Coal Steam	387.2	395.4	407.2	1.3%
Other Fossil Steam 4/	97.6	97.1	95.4	-1.4%
Combined Cycle	197.3	199.1	202.3	4.1%
Combustion Turbine/Diesel	172.6	174.2	175.0	1.5%
Nuclear Power 5/	102.6	102.6	102.6	0.2%
Pumped Storage	20.3	20.3	20.3	0.0%
Fuel Cells	0.1	0.1	0.1	N/A
Renewable Sources 6/	107.7	108.8	109.9	0.8%
Distributed Generation (Natural Gas) 7/	10.7	11.6	12.4	N/A
Total	1096.1	1109.1	1125.1	1.2%
Combined Heat and Power 8/				
Coal Steam	5.1	5.1	5.1	-0.1%
Other Fossil Steam 4/	1.1	1.1	1.1	N/A
Combined Cycle	32.9	32.9	32.9	0.5%
Combustion Turbine/Diesel	5.4	5.4	5.4	0.0%
Renewable Sources 6/	0.3	0.3	0.3	N/A
Total	44.8	44.8	44.8	0.3%
Total Electric Power Industry	1140.9	1153.9	1169.9	1.2%
Cumulative Planned Additions 9/				
Coal Steam	1.1	1.1	1.1	N/A
Other Fossil Steam 4/	0.0	0.0	0.0	N/A
Combined Cycle	43.5	43.5	43.5	N/A
Combustion Turbine/Diesel	8.1	8.1	8.1	N/A
Nuclear Power	0.0	0.0	0.0	N/A
Pumped Storage	0.0	0.0	0.0	N/A
Fuel Cells	0.1	0.1	0.1	N/A
Renewable Sources 6/	4.8	4.8	4.8	N/A
Distributed Generation 7/	0.0	0.0	0.0	N/A
Total	57.5	57.6	57.6	N/A
Cumulative Unplanned Additions 9/				
Coal Steam	90.4	98.5	110.6	N/A
Other Fossil Steam 4/	0.0	0.0	0.0	N/A
Combined Cycle	76.8	78.7	81.9	N/A
Combustion Turbine/Diesel	55.8	57.4	59.1	N/A
Nuclear Power	0.0	0.0	0.0	N/A
Pumped Storage	0.0	0.0	0.0	N/A
Fuel Cells	0.0	0.0	0.0	N/A
Renewable Sources 6/	11.2	12.3	13.3	N/A

**Table 9. Electricity Generating Capacity
(Gigawatts)**

	2023	2024	2025	2002- 2025
Distributed Generation 7/ Total	10.7	11.6	12.4	N/A
	245.0	258.4	277.2	N/A
Cumulative Total Additions	302.5	315.9	334.8	N/A
Cumulative Retirements 10/ Coal Steam	10.1	10.1	10.4	N/A
Other Fossil Steam 4/ Combined Cycle	33.0	33.5	35.2	N/A
Combustion Turbine/Diesel	1.1	1.1	1.1	N/A
Nuclear Power	14.1	14.1	14.9	N/A
Pumped Storage	0.0	0.0	0.0	N/A
Fuel Cells	0.0	0.0	0.0	N/A
Renewable Sources 6/ Total	0.1	0.1	0.1	N/A
	58.4	59.0	61.8	N/A
End-Use Sector Generators				
Combined Heat and Power 11/ Coal	4.1	4.1	4.1	0.0%
Petroleum	2.2	2.3	2.3	3.8%
Natural Gas	25.8	26.7	27.6	3.0%
Other Gaseous Fuels	2.6	2.7	2.7	1.8%
Renewable Sources 6/ Other	8.0	8.1	8.3	3.0%
Total	0.3	0.3	0.3	N/A
	43.2	44.2	45.3	2.5%
Other End-Use Generators 12/ Renewable Sources 13/	1.9	2.0	2.1	3.1%
Cumulative Additions 9/ Combined Heat and Power 11/ Other End-Use Generators 12/	17.7	18.7	19.8	N/A
	0.8	1.0	1.1	N/A

**Table 9. Electricity Generating Capacity
(Gigawatts)**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

2/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.

3/ Includes plants that only produce electricity. Includes capacity increases (uprates) at existing units.

4/ Includes oil-, gas-, and dual-fired capacity.

5/ Nuclear capacity reflects operating capacity of existing units, including 3.9 gigawatts of uprates through 2025.

6/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, landfill gas, other biomass, solar and wind power. Facilities co-firing biomass and coal are classified as coal.

7/ Primarily peak-load capacity fueled by natural gas.

8/ Includes combined heat and power plants whose primary business is to sell electricity and heat to the public (i.e., those that report NAICS code 22).

9/ Cumulative additions after December 31, 2002.

10/ Cumulative retirements after December 31, 2002.

11/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors.

12/ Other end-use generators include small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

13/ See Table 17 for more detail.

N/A = Not applicable.

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.

Sources: 2001 and 2002 electric generating capacity and projected planned additions: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," 2002 (preliminary). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 10. Electricity Trade
(Billion Kilowatthours, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Interregional Electricity Trade											
Gross Domestic Firm Power Sales	142.7	138.9	136.7	132.4	125.3	117.0	117.0	115.0	114.4	107.1	99.8
Gross Domestic Economy Sales	182.1	209.9	225.5	214.7	212.7	222.2	235.8	242.9	239.4	229.7	230.1
Gross Domestic Trade	324.8	348.8	362.2	347.2	338.0	339.2	352.8	357.9	353.7	336.8	329.9
Gross Domestic Firm Power Sales (million 2002 dollars)											
	7126.8	6932.4	6823.1	6611.7	6255.6	5840.8	5839.5	5743.2	5709.3	5345.8	4982.3
Gross Domestic Economy Sales (million 2002 dollars)											
	8870.2	6809.8	9021.4	7184.0	6769.1	7042.2	7556.4	8074.7	8016.2	7629.6	7933.2
Gross Domestic Sales (million 2002 dollars)											
	15997.0	13742.1	15844.6	13795.8	13024.7	12883.1	13395.9	13817.9	13725.4	12975.3	12915.5
International Electricity Trade											
Firm Power Imports from Canada & Mexico	12.1	9.5	13.6	11.1	10.7	6.7	6.7	6.7	6.5	5.8	5.2
Economy Imports from Canada & Mexico	26.3	26.8	38.8	35.4	38.2	38.8	37.9	38.1	39.4	41.3	42.3
Gross Imports from Canada & Mexico	38.4	36.3	52.4	46.5	48.9	45.5	44.6	44.8	45.9	47.2	47.5
Firm Power Exports to Canada & Mexico	6.6	5.6	6.0	9.7	9.7	9.7	9.7	9.7	9.7	8.7	7.8
Economy Exports to Canada & Mexico	9.8	8.7	6.7	6.9	7.0	7.1	7.2	7.4	7.5	7.7	7.7
Gross Exports to Canada & Mexico	16.4	14.3	12.7	16.6	16.7	16.8	16.9	17.1	17.2	16.4	15.4

**Table 10. Electricity Trade
(Billion Kilowatthours, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Interregional Electricity Trade											
Gross Domestic Firm Power Sales	92.5	85.2	78.0	70.7	63.4	56.1	48.8	45.2	41.5	41.5	41.5
Gross Domestic Economy Sales	225.8	223.6	221.4	221.2	214.4	219.2	217.1	216.9	218.4	211.0	197.4
Gross Domestic Trade	318.3	308.8	299.4	291.8	277.8	275.3	265.9	262.1	259.9	252.6	238.9
Gross Domestic Firm Power Sales (million 2002 dollars)	4618.7	4255.2	3891.7	3528.2	3164.7	2801.2	2437.7	2256.0	2074.2	2074.2	2074.2
Gross Domestic Economy Sales (million 2002 dollars)	8188.0	8385.2	8466.0	8674.0	8500.6	8718.5	8643.4	8595.8	8663.8	8472.5	7857.2
Gross Domestic Sales (million 2002 dollars)	12806.8	12640.4	12357.7	12202.2	11665.4	11519.8	11081.1	10851.7	10738.0	10546.7	9931.4
International Electricity Trade											
Firm Power Imports from Canada & Mexico	4.6	3.9	3.3	2.6	2.0	1.3	0.7	0.4	0.0	0.0	0.0
Economy Imports from Canada & Mexico	40.9	40.7	39.2	40.9	38.3	34.8	31.7	27.7	28.9	24.6	20.9
Gross Imports from Canada & Mexico	45.5	44.6	42.4	43.5	40.2	36.1	32.4	28.1	28.9	24.6	21.0
Firm Power Exports to Canada & Mexico	6.8	5.8	4.8	3.9	2.9	1.9	1.0	0.5	0.0	0.0	0.0
Economy Exports to Canada & Mexico	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
Gross Exports to Canada & Mexico	14.4	13.5	12.5	11.5	10.6	9.6	8.6	8.1	7.7	7.7	7.7

Table 10. Electricity Trade
(Billion Kilowatthours, Unless Otherwise Noted)

	2023	2024	2025	2002- 2025
Interregional Electricity Trade				
Gross Domestic Firm Power Sales	41.5	41.5	41.5	-5.1%
Gross Domestic Economy Sales	192.8	182.5	183.4	-0.6%
Gross Domestic Trade	234.3	224.1	224.9	-1.9%
Gross Domestic Firm Power Sales (million 2002 dollars)				
	2074.2	2074.2	2074.2	-5.1%
Gross Domestic Economy Sales (million 2002 dollars)				
	7551.5	7260.9	7319.5	0.3%
Gross Domestic Sales (million 2002 dollars)				
	9625.7	9335.1	9393.7	-1.6%
International Electricity Trade				
Firm Power Imports from Canada & Mexico	0.0	0.0	0.0	-21.9%
Economy Imports from Canada & Mexico	18.3	16.3	15.1	-2.5%
Gross Imports from Canada & Mexico	18.3	16.3	15.2	-3.7%
Firm Power Exports to Canada & Mexico				
	0.0	0.0	0.0	N/A
Economy Exports to Canada & Mexico				
	7.7	7.7	7.7	-0.6%
Gross Exports to Canada & Mexico				
	7.7	7.7	7.7	-2.7%

Table 10. Electricity Trade
(Billion Kilowatthours, Unless Otherwise Noted)

N/A = Not applicable.

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. Firm Power Sales are capacity sales, meaning the delivery of the power is scheduled as part of the normal operating conditions of the affected electric systems. Economy Sales are subject to curtailment or cessation of delivery by the supplier in accordance with prior agreements or under specified conditions.

Sources: 2001 and 2002 interregional firm electricity trade data: North American Electric Reliability Council (NERC), Electricity Sales and Demand Database 1999. 2001 and 2002 Mexican international electricity trade data: DOE Form FE-718R, "Annual Report of International Electrical Export/Import Data." 2001 Canadian international trade data: National Energy Board, Annual Report 2001. 2002 Canadian international trade data: National Energy Board, Annual Report 2002. Projections: Energy Information Administration, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 11. Petroleum Supply and Disposition Balance
(Million Barrels per Day, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Crude Oil												
Domestic Crude Production 1/	5.74	5.62	5.69	5.80	5.86	5.93	6.09	6.11	6.05	5.93	5.82	5.71
Alaska	0.96	0.98	0.98	0.95	0.90	0.88	0.91	0.93	0.94	0.92	0.92	0.92
Lower 48 States	4.78	4.64	4.71	4.85	4.97	5.06	5.18	5.18	5.12	5.01	4.90	4.79
Net Imports	9.31	9.13	9.52	9.73	9.76	10.08	10.27	10.53	10.83	11.21	11.73	12.24
Gross Imports	9.33	9.14	9.53	9.74	9.84	10.15	10.35	10.61	10.91	11.29	11.80	12.31
Exports	0.02	0.01	0.01	0.01	0.07	0.08	0.08	0.08	0.08	0.08	0.07	0.07
Other Crude Supply 2/	0.02	0.07	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Crude Supply	15.07	14.83	15.39	15.71	15.62	16.01	16.36	16.64	16.89	17.15	17.54	17.95
Natural Gas Plant Liquids	1.87	1.88	1.72	1.90	2.17	2.18	2.21	2.23	2.22	2.24	2.26	2.28
Other Inputs 3/	0.30	0.67	0.35	0.39	0.41	0.44	0.46	0.48	0.49	0.47	0.44	0.44
Refinery Processing Gain 4/	0.93	0.98	0.93	0.94	0.88	0.87	0.87	0.87	0.88	0.88	0.89	0.92
Net Product Imports 5/	1.59	1.41	1.47	1.68	1.76	1.79	1.78	1.86	1.88	1.95	1.94	1.95
Gross Refined Product Imports 6/	2.08	1.92	2.00	2.09	2.08	2.13	2.08	2.13	2.14	2.17	2.24	2.29
Unfinished Oil Imports	0.38	0.41	0.39	0.50	0.59	0.57	0.61	0.65	0.68	0.72	0.64	0.62
Ether Imports	0.08	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exports	0.95	0.97	0.97	0.97	0.91	0.91	0.91	0.92	0.94	0.94	0.93	0.95
Total Primary Supply 7/	19.75	19.77	19.87	20.60	20.84	21.29	21.68	22.07	22.36	22.69	23.08	23.54
Refined Petroleum Products Supplied												
Motor Gasoline 8/	8.62	8.86	9.04	9.34	9.62	9.83	10.02	10.21	10.40	10.59	10.78	10.97
Jet Fuel 9/	1.66	1.61	1.57	1.62	1.67	1.72	1.76	1.81	1.85	1.90	1.94	1.99
Distillate Fuel 10/	3.88	3.68	3.77	3.85	3.97	4.07	4.16	4.25	4.30	4.38	4.49	4.62
Residual Fuel	0.86	0.74	0.84	0.65	0.70	0.69	0.70	0.72	0.72	0.71	0.73	0.74
Other 11/	4.69	4.72	4.67	4.70	4.89	4.98	5.05	5.11	5.11	5.13	5.17	5.25
Total	19.71	19.61	19.89	20.16	20.84	21.29	21.69	22.09	22.38	22.71	23.10	23.57
Refined Petroleum Products Supplied												
Residential and Commercial	1.23	1.22	1.28	1.32	1.34	1.35	1.36	1.37	1.37	1.38	1.38	1.38
Industrial 12/	4.79	4.80	4.77	4.75	4.93	5.01	5.07	5.12	5.11	5.14	5.18	5.26
Transportation	13.14	13.21	13.40	13.85	14.28	14.64	14.95	15.27	15.58	15.91	16.22	16.55
Electric Generators 13/	0.55	0.38	0.44	0.25	0.29	0.29	0.30	0.33	0.32	0.29	0.32	0.37
Total	19.71	19.61	19.89	20.16	20.84	21.29	21.69	22.09	22.38	22.71	23.10	23.57
Discrepancy 14/	0.04	0.16	-0.02	0.44	0.00	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02
World Oil Price (2002 dollars per barrel) 15/	22.25	23.68	27.25	23.84	23.30	23.47	23.65	23.83	24.00	24.17	24.37	24.53
Import Share of Product Supplied	0.55	0.54	0.55	0.57	0.55	0.56	0.56	0.56	0.57	0.58	0.59	0.60
Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2002 dollars)	90.15	90.38	109.40	100.86	99.64	103.17	105.62	109.48	113.21	118.31	123.89	129.23
Domestic Refinery Distillation Capacity 16/	16.8	16.8	17.0	16.9	17.1	17.4	17.7	18.0	18.3	18.7	19.0	19.4
Capacity Utilization Rate (percent)	93.0	91.0	91.0	94.0	92.6	93.2	93.6	93.6	93.3	93.1	93.7	93.8

**Table 11. Petroleum Supply and Disposition Balance
(Million Barrels per Day, Unless Otherwise Noted)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Crude Oil												
Domestic Crude Production 1/	5.66	5.56	5.53	5.42	5.27	5.26	5.14	4.95	4.84	4.73	4.76	4.75
Alaska	0.93	0.95	0.93	0.91	0.87	0.82	0.77	0.72	0.67	0.63	0.58	0.54
Lower 48 States	4.72	4.61	4.59	4.51	4.40	4.44	4.37	4.23	4.17	4.10	4.18	4.21
Net Imports	12.75	13.21	13.47	13.69	13.94	14.02	14.23	14.50	14.86	15.21	15.40	15.50
Gross Imports	12.81	13.27	13.53	13.74	13.99	14.07	14.27	14.53	14.89	15.23	15.43	15.53
Exports	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.03	0.02
Other Crude Supply 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Crude Supply	18.40	18.78	19.00	19.11	19.21	19.28	19.36	19.45	19.70	19.94	20.16	20.25
Natural Gas Plant Liquids	2.29	2.30	2.31	2.30	2.33	2.41	2.47	2.48	2.45	2.42	2.43	2.47
Other Inputs 3/	0.43	0.44	0.44	0.44	0.45	0.44	0.44	0.46	0.46	0.47	0.47	0.47
Refinery Processing Gain 4/	0.94	0.96	0.97	0.98	0.99	0.99	1.00	1.00	1.02	1.03	1.03	1.03
Net Product Imports 5/	1.94	1.93	2.05	2.27	2.45	2.62	2.80	2.99	3.12	3.24	3.34	3.63
Gross Refined Product Imports 6/	2.27	2.22	2.29	2.50	2.65	2.74	2.77	2.82	2.85	3.02	3.14	3.35
Unfinished Oil Imports	0.63	0.68	0.74	0.75	0.78	0.87	1.01	1.15	1.26	1.21	1.21	1.28
Ether Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exports	0.96	0.97	0.98	0.98	0.98	0.98	0.98	0.98	0.99	1.00	1.00	1.00
Total Primary Supply 7/	24.01	24.41	24.77	25.10	25.43	25.75	26.06	26.38	26.74	27.09	27.44	27.85
Refined Petroleum Products Supplied												
Motor Gasoline 8/	11.18	11.35	11.51	11.67	11.82	11.98	12.14	12.30	12.48	12.66	12.86	13.07
Jet Fuel 9/	2.03	2.07	2.10	2.13	2.17	2.21	2.24	2.27	2.29	2.32	2.34	2.36
Distillate Fuel 10/	4.73	4.83	4.94	5.00	5.07	5.12	5.18	5.24	5.34	5.41	5.49	5.60
Residual Fuel	0.75	0.76	0.77	0.78	0.78	0.78	0.77	0.77	0.77	0.76	0.75	0.76
Other 11/	5.35	5.42	5.48	5.55	5.62	5.69	5.76	5.84	5.90	5.97	6.04	6.10
Total	24.04	24.44	24.80	25.12	25.46	25.78	26.09	26.41	26.78	27.13	27.48	27.88
Refined Petroleum Products Supplied												
Residential and Commercial	1.39	1.39	1.39	1.40	1.39	1.40	1.40	1.40	1.40	1.40	1.40	1.41
Industrial 12/	5.36	5.44	5.50	5.57	5.64	5.72	5.79	5.86	5.93	6.01	6.08	6.14
Transportation	16.89	17.18	17.44	17.70	17.97	18.24	18.50	18.77	19.05	19.34	19.65	19.97
Electric Generators 13/	0.40	0.44	0.47	0.46	0.45	0.42	0.40	0.38	0.40	0.38	0.35	0.37
Total	24.04	24.44	24.80	25.12	25.46	25.78	26.09	26.41	26.78	27.13	27.48	27.88
Discrepancy 14/	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.04	-0.03	-0.04	-0.04	-0.03
World Oil Price (2002 dollars per barrel) 15/	24.72	24.90	25.07	25.26	25.45	25.64	25.84	26.02	26.21	26.40	26.60	26.79
Import Share of Product Supplied	0.61	0.62	0.63	0.64	0.64	0.65	0.65	0.66	0.67	0.68	0.68	0.69
Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2002 dollars)	134.56	139.27	143.82	149.22	154.67	158.29	163.19	168.99	175.25	181.38	186.22	192.18
Domestic Refinery Distillation Capacity 16/	19.8	20.2	20.4	20.5	20.6	20.7	20.7	20.8	21.1	21.3	21.6	21.7
Capacity Utilization Rate (percent)	94.1	94.1	94.7	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.7	94.8

**Table 11. Petroleum Supply and Disposition Balance
(Million Barrels per Day, Unless Otherwise Noted)**

	2025	2002- 2025
Crude Oil		
Domestic Crude Production 1/	4.61	-0.9%
Alaska	0.51	-2.8%
Lower 48 States	4.11	-0.5%
Net Imports	15.74	2.4%
Gross Imports	15.76	2.4%
Exports	0.02	3.3%
Other Crude Supply 2/	0.00	N/A
Total Crude Supply	20.35	1.4%
Natural Gas Plant Liquids	2.47	1.2%
Other Inputs 3/	0.48	-1.5%
Refinery Processing Gain 4/	1.04	0.2%
Net Product Imports 5/	3.94	4.6%
Gross Refined Product Imports 6/	3.60	2.8%
Unfinished Oil Imports	1.34	5.3%
Ether Imports	0.00	N/A
Exports	1.01	0.1%
Total Primary Supply 7/	28.27	1.6%
Refined Petroleum Products Supplied		
Motor Gasoline 8/	13.30	1.8%
Jet Fuel 9/	2.37	1.7%
Distillate Fuel 10/	5.71	1.9%
Residual Fuel	0.75	0.1%
Other 11/	6.16	1.2%
Total	28.30	1.6%
Refined Petroleum Products Supplied		
Residential and Commercial	1.40	0.6%
Industrial 12/	6.21	1.1%
Transportation	20.32	1.9%
Electric Generators 13/	0.36	-0.2%
Total	28.30	1.6%
Discrepancy 14/	-0.03	N/A
World Oil Price (2002 dollars per barrel) 15/	27.00	0.6%
Import Share of Product Supplied	0.70	1.1%
Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2002 dollars)	200.24	3.5%
Domestic Refinery Distillation Capacity 16/	21.8	1.1%
Capacity Utilization Rate (percent)	94.8	0.2%

**Table 11. Petroleum Supply and Disposition Balance
(Million Barrels per Day, Unless Otherwise Noted)**

- 1/ Includes lease condensate.
 - 2/ Strategic petroleum reserve stock additions plus unaccounted for crude oil and crude stock withdrawals minus crude product supplied.
 - 3/ Includes alcohols, ethers, petroleum product stock withdrawals, domestic sources of blending components, other hydrocarbons, natural gas converted to liquid fuel, and coal converted to liquid fuel.
 - 4/ Represents volumetric gain in refinery distillation and cracking processes.
 - 5/ Includes net imports of finished petroleum products, unfinished oils, other hydrocarbons, alcohols, ethers, and blending components.
 - 6/ Includes other hydrocarbons, alcohols, and blending components.
 - 7/ Total crude supply plus natural gas plant liquids, other inputs, refinery processing gain, and net product imports.
 - 8/ Includes ethanol and ethers blended into gasoline.
 - 9/ Includes only kerosene type.
 - 10/ Includes distillate and kerosene.
 - 11/ Includes aviation gasoline, liquefied petroleum gas, petrochemical feedstocks, lubricants, waxes, asphalt, road oil, still gas, special naphthas, petroleum coke, crude oil product supplied, and miscellaneous petroleum products.
 - 12/ Includes consumption for combined heat and power, which produces electricity and other useful thermal energy.
 - 13/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
 - 14/ Balancing item. Includes unaccounted for supply, losses and gains.
 - 15/ Average refiner acquisition cost for imported crude oil.
 - 16/ End-of-year capacity.
- N/A = Not applicable.

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.

Sources: 2001 and 2002 product supplied based on: Energy Information Administration (EIA), Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003).

Other 2001 data: EIA, Petroleum Supply Annual 2001, DOE/EIA-0340(2001)/1 (Washington, DC, June 2002). Other 2002 data: EIA, Petroleum Supply Annual 2002, DOE/EIA-0340(2002)/1 (Washington, DC, June 2003). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 12. Petroleum Product Prices
(2002 Cents per Gallon, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
World Oil Price (2002 dollars per barrel)	22.25	23.68	27.25	23.84	23.30	23.47	23.65	23.83	24.00	24.17	24.37
Delivered Sector Product Prices											
Residential											
Distillate Fuel	126.1	114.2	126.3	115.2	111.2	110.0	109.1	109.4	109.3	108.4	108.8
Liquefied Petroleum Gas	129.1	110.8	141.4	138.6	116.6	117.1	117.8	118.2	119.0	119.1	120.7
Commercial											
Distillate Fuel	88.5	84.1	93.1	84.9	77.9	76.7	76.1	76.2	76.1	75.6	76.1
Residual Fuel	52.5	63.1	74.4	61.9	59.9	60.2	60.6	61.1	61.5	61.8	62.3
Residual Fuel (2002 dollars per barrel)	22.07	26.48	31.23	25.98	25.17	25.29	25.46	25.65	25.81	25.97	26.18
Industrial 1/											
Distillate Fuel	91.8	86.2	95.2	86.9	80.2	79.0	78.8	78.8	78.8	78.8	79.3
Liquefied Petroleum Gas	107.1	71.1	90.6	88.6	79.5	80.8	81.5	82.4	83.4	83.4	84.9
Residual Fuel	49.6	58.3	68.8	57.2	54.1	54.4	54.8	55.3	55.7	56.0	56.5
Residual Fuel (2002 dollars per barrel)	20.82	24.48	28.89	24.04	22.71	22.85	23.03	23.23	23.40	23.54	23.74
Transportation											
Diesel Fuel (Distillate) 2/	141.0	130.6	144.3	131.8	133.5	137.5	140.5	140.8	139.8	140.3	141.8
Jet Fuel 3/	84.7	80.6	90.7	85.4	81.3	78.1	77.2	77.4	77.6	77.8	78.7
Motor Gasoline 4/	148.6	138.1	155.2	141.5	143.9	145.0	145.6	146.1	146.9	146.9	147.2
Liquefied Petroleum Gas	146.9	128.7	141.3	141.2	126.9	127.3	127.6	128.0	128.5	128.3	129.7
Residual Fuel	59.0	56.5	66.7	55.4	52.0	52.4	52.8	53.2	53.5	53.9	54.3
Residual Fuel (2002 dollars per barrel)	24.80	23.71	28.00	23.28	21.85	22.00	22.16	22.33	22.48	22.62	22.81
Ethanol (E85) 5/	148.1	135.8	150.5	150.5	150.0	150.9	152.7	153.3	153.6	153.9	155.5
Electric Generators 6/											
Distillate Fuel	86.5	77.4	85.6	77.9	70.7	69.1	68.9	68.6	67.9	68.2	68.5
Residual Fuel	68.1	60.4	69.6	59.9	58.1	58.7	58.9	59.1	59.4	59.7	60.2
Residual Fuel (2002 dollars per barrel)	28.61	25.38	29.24	25.16	24.41	24.66	24.75	24.84	24.93	25.07	25.27
Refined Petroleum Product Prices 7/											
Distillate Fuel	126.8	118.1	130.1	119.3	118.5	121.0	123.0	123.3	123.1	123.8	125.0
Jet Fuel 3/	84.7	80.6	90.7	85.4	81.3	78.1	77.2	77.4	77.6	77.8	78.7
Liquefied Petroleum Gas	111.5	79.6	101.4	99.3	87.6	88.8	89.4	90.3	91.3	91.3	92.8
Motor Gasoline 4/	148.5	138.1	155.2	141.4	143.9	145.0	145.6	146.1	146.9	146.9	147.1
Residual Fuel	62.2	58.6	68.6	57.4	54.7	55.1	55.5	55.9	56.2	56.6	57.1
Residual Fuel (2002 dollars per barrel)	26.14	24.62	28.83	24.10	22.99	23.15	23.31	23.49	23.62	23.76	23.97
Average	126.7	116.1	131.5	121.8	120.8	121.8	122.6	123.0	123.6	123.9	124.5

**Table 12. Petroleum Product Prices
(2002 Cents per Gallon, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
World Oil Price (2002 dollars per barrel)	24.53	24.72	24.90	25.07	25.26	25.45	25.64	25.84	26.02	26.21	26.40
Delivered Sector Product Prices											
Residential											
Distillate Fuel	109.2	110.3	110.9	111.8	112.8	113.3	114.8	115.6	116.4	116.9	117.2
Liquefied Petroleum Gas	121.1	122.1	122.6	124.1	125.5	126.0	125.7	126.0	126.9	127.8	128.6
Commercial											
Distillate Fuel	76.5	77.3	77.6	78.4	79.4	80.4	81.9	82.6	83.3	83.7	84.0
Residual Fuel	62.7	63.2	63.6	64.0	64.4	64.8	65.2	65.6	66.1	66.5	66.9
Residual Fuel (2002 dollars per barrel)	26.35	26.54	26.72	26.87	27.06	27.23	27.40	27.57	27.75	27.92	28.08
Industrial 1/											
Distillate Fuel	79.7	80.1	80.3	81.1	82.3	83.6	85.1	85.9	86.6	86.9	87.2
Liquefied Petroleum Gas	85.5	86.4	86.8	88.3	89.3	89.8	90.2	90.8	91.4	92.1	92.8
Residual Fuel	56.9	57.4	57.8	58.2	58.7	59.1	59.5	59.9	60.3	60.8	61.2
Residual Fuel (2002 dollars per barrel)	23.91	24.10	24.28	24.42	24.64	24.83	25.00	25.17	25.34	25.53	25.69
Transportation											
Diesel Fuel (Distillate) 2/	141.6	140.3	140.9	140.9	140.8	140.6	140.3	139.6	138.6	138.8	138.9
Jet Fuel 3/	78.8	78.9	78.7	79.0	79.6	80.4	81.4	81.6	81.8	82.1	82.4
Motor Gasoline 4/	146.7	146.8	146.7	146.8	147.2	147.2	147.1	147.3	147.3	147.5	148.0
Liquefied Petroleum Gas	129.7	130.4	130.6	132.0	133.6	133.8	132.3	132.0	133.0	134.0	134.8
Residual Fuel	54.7	55.1	55.5	55.9	56.3	56.7	57.2	57.6	58.0	58.4	58.9
Residual Fuel (2002 dollars per barrel)	22.97	23.14	23.31	23.48	23.66	23.83	24.01	24.19	24.37	24.55	24.72
Ethanol (E85) 5/	157.1	157.8	158.5	159.1	159.6	160.0	165.2	165.4	163.4	164.2	164.7
Electric Generators 6/											
Distillate Fuel	68.6	69.2	69.5	70.5	71.5	72.8	74.3	75.0	75.8	76.4	76.9
Residual Fuel	60.5	61.0	61.4	61.9	62.3	62.8	63.3	63.9	64.5	64.9	65.5
Residual Fuel (2002 dollars per barrel)	25.42	25.61	25.77	26.01	26.17	26.37	26.59	26.86	27.07	27.26	27.51
Refined Petroleum Product Prices 7/											
Distillate Fuel	124.6	123.9	124.3	124.4	125.0	125.4	126.1	126.0	125.9	126.0	126.4
Jet Fuel 3/	78.8	78.9	78.7	79.0	79.6	80.4	81.4	81.6	81.8	82.1	82.4
Liquefied Petroleum Gas	93.4	94.3	94.7	96.1	97.2	97.7	97.9	98.4	99.1	99.8	100.4
Motor Gasoline 4/	146.7	146.8	146.7	146.8	147.2	147.2	147.1	147.3	147.3	147.5	148.0
Residual Fuel	57.5	58.0	58.4	58.8	59.3	59.8	60.2	60.6	61.1	61.5	61.9
Residual Fuel (2002 dollars per barrel)	24.15	24.35	24.53	24.71	24.91	25.10	25.28	25.47	25.65	25.83	26.01
Average	124.3	124.3	124.5	124.8	125.3	125.6	125.9	126.1	126.3	126.6	127.1

**Table 12. Petroleum Product Prices
(2002 Cents per Gallon, Unless Otherwise Noted)**

	2023	2024	2025	2002- 2025
World Oil Price (2002 dollars per barrel)	26.60	26.79	27.00	0.6%
Delivered Sector Product Prices				
Residential				
Distillate Fuel	117.5	117.9	118.4	0.2%
Liquefied Petroleum Gas	129.2	129.6	130.3	0.7%
Commercial				
Distillate Fuel	84.2	84.6	85.3	0.1%
Residual Fuel	67.3	67.7	68.1	0.3%
Residual Fuel (2002 dollars per barrel)	28.26	28.42	28.59	0.3%
Industrial 1/				
Distillate Fuel	87.4	87.9	88.8	0.1%
Liquefied Petroleum Gas	93.4	93.9	95.3	1.3%
Residual Fuel	61.6	62.0	62.4	0.3%
Residual Fuel (2002 dollars per barrel)	25.86	26.04	26.22	0.3%
Transportation				
Diesel Fuel (Distillate) 2/	139.3	139.0	139.0	0.3%
Jet Fuel 3/	82.7	83.0	83.9	0.2%
Motor Gasoline 4/	148.2	148.9	149.2	0.3%
Liquefied Petroleum Gas	135.1	135.2	135.8	0.2%
Residual Fuel	59.3	59.7	60.2	0.3%
Residual Fuel (2002 dollars per barrel)	24.90	25.08	25.28	0.3%
Ethanol (E85) 5/	165.2	165.7	166.1	0.9%
Electric Generators 6/				
Distillate Fuel	77.1	77.3	77.9	0.0%
Residual Fuel	66.1	66.7	67.4	0.5%
Residual Fuel (2002 dollars per barrel)	27.78	27.99	28.30	0.5%
Refined Petroleum Product Prices 7/				
Distillate Fuel	127.1	126.9	127.3	0.3%
Jet Fuel 3/	82.7	83.0	83.9	0.2%
Liquefied Petroleum Gas	101.0	101.5	102.6	1.1%
Motor Gasoline 4/	148.2	148.9	149.2	0.3%
Residual Fuel	62.4	62.8	63.3	0.3%
Residual Fuel (2002 dollars per barrel)	26.20	26.39	26.60	0.3%
Average	127.5	128.1	128.6	0.4%

**Table 12. Petroleum Product Prices
(2002 Cents per Gallon, Unless Otherwise Noted)**

1/ Includes combined heat and power, which produces electricity and other useful thermal energy.

2/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Includes Federal and State taxes while excluding county and local taxes.

3/ Includes only kerosene type.

4/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.

5/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent ethanol was used for this forecast.

6/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

7/ Weighted averages of end-use fuel prices are derived from the prices in each sector and the corresponding sectoral consumption.

Note: Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001 prices for motor gasoline, distillate, and jet fuel are based on: Energy Information Administration (EIA), Petroleum Marketing Annual 2001, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (September 2002). 2002 prices for motor gasoline, distillate, and jet fuel are based on: EIA, Petroleum Marketing Annual 2002, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (August 2003).

2001 and 2002 residential, commercial, industrial, and transportation sector petroleum product prices are derived from: EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report." 2001 and 2002 electric power prices based on: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 ethanol prices derived from weekly spot prices in the Oxy Fuel News. 2001 and 2002 world oil price: EIA, Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 13. Natural Gas Supply and Disposition
(Trillion Cubic Feet per Year)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Production											
Dry Gas Production 1/	19.70	19.05	19.57	19.51	19.58	19.66	19.95	20.21	20.25	20.50	20.80
Supplemental Natural Gas 2/	0.09	0.08	0.08	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Net Imports	3.60	3.49	3.51	3.60	3.87	4.28	4.43	4.78	5.04	5.50	5.76
Canada	3.56	3.59	3.40	3.50	3.46	3.42	3.44	3.51	3.60	3.68	3.62
Mexico	-0.13	-0.26	-0.31	-0.42	-0.43	-0.45	-0.41	-0.37	-0.33	-0.34	-0.34
Liquefied Natural Gas	0.17	0.17	0.43	0.52	0.84	1.31	1.40	1.64	1.77	2.16	2.48
Total Supply	23.39	22.62	23.15	23.19	23.54	24.04	24.48	25.09	25.39	26.09	26.65
Consumption by Sector											
Residential	4.78	4.92	5.07	5.18	5.21	5.29	5.35	5.42	5.47	5.53	5.58
Commercial	3.24	3.12	3.17	3.11	3.17	3.25	3.31	3.35	3.41	3.48	3.52
Industrial 3/	7.35	7.23	7.21	7.55	7.72	7.83	7.95	8.05	8.19	8.39	8.56
Electric Generators 4/	5.38	5.55	4.97	5.67	5.70	5.87	6.02	6.36	6.36	6.66	6.92
Transportation 5/	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06
Pipeline Fuel	0.62	0.63	0.66	0.65	0.65	0.65	0.65	0.65	0.66	0.67	0.68
Lease and Plant Fuel 6/	1.09	1.32	1.00	0.99	1.06	1.11	1.18	1.24	1.30	1.36	1.38
Total	22.48	22.78	22.09	23.17	23.53	24.04	24.50	25.12	25.43	26.15	26.71
Gas to Liquids	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Discrepancy 7/	0.92	-0.16	1.06	0.02	0.01	-0.01	-0.02	-0.04	-0.05	-0.06	-0.06

**Table 13. Natural Gas Supply and Disposition
(Trillion Cubic Feet per Year)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Production											
Dry Gas Production 1/	21.11	21.30	21.43	21.62	21.58	21.99	22.82	23.54	23.79	23.55	23.37
Supplemental Natural Gas 2/	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Net Imports	5.90	6.05	6.20	6.24	6.76	6.79	6.64	6.43	6.47	6.69	6.99
Canada	3.60	3.47	3.25	3.17	2.98	2.83	2.71	2.50	2.51	2.53	2.47
Mexico	-0.28	-0.21	-0.14	-0.15	-0.16	-0.16	-0.17	-0.18	-0.18	-0.17	-0.16
Liquefied Natural Gas	2.58	2.79	3.10	3.22	3.94	4.13	4.10	4.10	4.14	4.32	4.68
Total Supply	27.11	27.44	27.73	27.95	28.44	28.88	29.56	30.06	30.36	30.33	30.46
Consumption by Sector											
Residential	5.62	5.63	5.65	5.68	5.73	5.75	5.80	5.85	5.92	5.93	5.96
Commercial	3.55	3.58	3.60	3.62	3.65	3.69	3.73	3.78	3.83	3.86	3.90
Industrial 3/	8.65	8.75	8.81	8.87	8.99	9.14	9.30	9.44	9.57	9.65	9.79
Electric Generators 4/	7.19	7.38	7.54	7.64	7.92	8.12	8.43	8.59	8.61	8.46	8.39
Transportation 5/	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10
Pipeline Fuel	0.69	0.70	0.70	0.70	0.70	0.71	0.75	0.80	0.81	0.81	0.80
Lease and Plant Fuel 6/	1.40	1.42	1.43	1.44	1.44	1.47	1.53	1.59	1.61	1.60	1.60
Total	27.18	27.51	27.80	28.03	28.51	28.96	29.63	30.14	30.44	30.41	30.54
Gas to Liquids	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Discrepancy 7/	-0.07	-0.07	-0.07	-0.07	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08

**Table 13. Natural Gas Supply and Disposition
(Trillion Cubic Feet per Year)**

	2023	2024	2025	2002- 2025
Production				
Dry Gas Production 1/	23.51	23.88	23.99	1.0%
Supplemental Natural Gas 2/	0.10	0.10	0.10	0.8%
Net Imports	7.02	7.12	7.24	3.2%
Canada	2.46	2.51	2.56	-1.4%
Mexico	-0.15	-0.14	-0.12	-3.2%
Liquefied Natural Gas	4.72	4.75	4.80	15.8%
Total Supply	30.63	31.10	31.33	1.4%
Consumption by Sector				
Residential	6.01	6.06	6.09	0.9%
Commercial	3.94	3.99	4.04	1.1%
Industrial 3/	9.96	10.12	10.29	1.5%
Electric Generators 4/	8.27	8.43	8.39	1.8%
Transportation 5/	0.10	0.11	0.11	9.5%
Pipeline Fuel	0.81	0.83	0.84	1.2%
Lease and Plant Fuel 6/	1.61	1.64	1.65	1.0%
Total	30.71	31.18	31.41	1.4%
Gas to Liquids	0.00	0.00	0.00	N/A
Discrepancy 7/	-0.08	-0.09	-0.09	N/A

**Table 13. Natural Gas Supply and Disposition
(Trillion Cubic Feet per Year)**

1/ Marketed production (wet) minus extraction losses.

2/ Synthetic natural gas, propane air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

3/ Includes consumption for combined heat and power, which produces electricity and other useful thermal energy.

4/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

5/ Compressed natural gas used as vehicle fuel.

6/ Represents natural gas used in the field gathering and processing plant machinery.

7/ Balancing item. Natural gas lost as a result of converting flow data measured at varying temperatures and pressures to a standard temperature and pressure and the merger of different data reporting systems which vary in scope, format, definition, and respondent type. In addition, 2001 and 2002 values include net storage injections.

Btu = British thermal unit.

N/A = Not applicable.

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.

Sources: 2001 supply values: Energy Information Administration (EIA), Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 supply values: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 imports and 2002 consumption based on: EIA, Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E

**Table 14. Natural Gas Prices, Margins and Revenues
(2002 Dollars per Thousand Cubic Feet, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Source Price												
Average Lower 48 Wellhead Price 1/	4.14	2.95	4.90	3.88	3.54	3.48	3.53	3.64	3.47	3.40	3.56	3.75
Average Import Price	4.49	3.14	5.36	3.92	3.68	3.59	3.65	3.75	3.75	3.78	3.93	4.09
Average 2/	4.20	2.98	4.98	3.89	3.57	3.50	3.55	3.67	3.53	3.49	3.65	3.83
Delivered Prices												
Residential	9.79	7.86	9.29	9.07	8.63	8.42	8.31	8.26	8.02	7.88	8.02	8.16
Commercial	8.67	6.55	8.31	7.78	7.37	7.19	7.13	7.12	6.93	6.83	6.97	7.13
Industrial 3/	5.04	3.85	5.76	4.62	4.28	4.21	4.25	4.35	4.23	4.16	4.31	4.49
Electric Generators 4/	5.40	3.85	5.73	4.59	4.26	4.18	4.22	4.31	4.19	4.12	4.27	4.45
Transportation 5/	8.94	7.58	9.70	8.48	8.16	8.20	8.34	8.51	8.46	8.49	8.68	8.87
Average 6/	6.81	5.21	7.03	6.15	5.77	5.65	5.63	5.67	5.51	5.41	5.54	5.69
Transmission & Distribution Margins 7/												
Residential	5.59	4.88	4.30	5.18	5.06	4.92	4.75	4.59	4.49	4.40	4.37	4.33
Commercial	4.47	3.56	3.33	3.90	3.80	3.69	3.57	3.46	3.40	3.34	3.32	3.29
Industrial 3/	0.84	0.87	0.78	0.74	0.71	0.70	0.70	0.69	0.69	0.68	0.65	0.66
Electric Generators 4/	1.20	0.86	0.75	0.70	0.69	0.68	0.66	0.65	0.66	0.63	0.62	0.61
Transportation 5/	4.74	4.60	4.72	4.59	4.60	4.69	4.78	4.85	4.93	5.00	5.03	5.04
Average 6/	2.61	2.23	2.05	2.26	2.21	2.15	2.08	2.00	1.98	1.92	1.89	1.86
Transmission & Distribution Revenue (billion 2002 dollars)												
Residential	26.74	24.02	21.83	26.81	26.36	25.99	25.43	24.87	24.54	24.33	24.38	24.32
Commercial	14.49	11.12	10.53	12.12	12.05	11.99	11.82	11.60	11.59	11.61	11.70	11.71
Industrial 3/	6.20	6.27	5.62	5.55	5.51	5.52	5.53	5.54	5.69	5.67	5.61	5.69
Electric Generators 4/	6.46	4.78	3.72	3.97	3.94	3.97	3.98	4.13	4.19	4.21	4.29	4.40
Transportation 5/	0.05	0.06	0.10	0.12	0.14	0.17	0.20	0.22	0.25	0.28	0.31	0.34
Total	53.93	46.25	41.80	48.56	48.00	47.63	46.96	46.37	46.26	46.11	46.29	46.47

**Table 14. Natural Gas Prices, Margins and Revenues
(2002 Dollars per Thousand Cubic Feet, Unless Otherwise Noted)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Source Price												
Average Lower 48 Wellhead Price 1/	3.93	4.01	4.19	4.22	4.23	4.17	4.13	4.28	4.45	4.42	4.42	4.42
Average Import Price	4.30	4.50	4.59	4.60	4.60	4.58	4.55	4.58	4.74	4.71	4.70	4.67
Average 2/	4.02	4.13	4.29	4.32	4.33	4.27	4.23	4.35	4.52	4.50	4.49	4.48
Delivered Prices												
Residential	8.32	8.41	8.52	8.53	8.53	8.48	8.40	8.47	8.64	8.62	8.61	8.60
Commercial	7.30	7.40	7.52	7.54	7.55	7.51	7.44	7.52	7.68	7.67	7.66	7.65
Industrial 3/	4.67	4.78	4.94	4.97	4.98	4.95	4.91	5.02	5.19	5.16	5.15	5.14
Electric Generators 4/	4.63	4.73	4.87	4.91	4.91	4.89	4.85	4.94	5.10	5.06	5.04	5.03
Transportation 5/	9.07	9.19	9.32	9.37	9.38	9.33	9.25	9.32	9.46	9.43	9.41	9.39
Average 6/	5.86	5.96	6.09	6.11	6.10	6.05	5.99	6.09	6.26	6.24	6.23	6.21
Transmission & Distribution Margins 7/												
Residential	4.30	4.28	4.23	4.21	4.20	4.20	4.17	4.11	4.11	4.13	4.11	4.11
Commercial	3.28	3.27	3.23	3.22	3.22	3.23	3.21	3.17	3.16	3.17	3.17	3.17
Industrial 3/	0.65	0.65	0.65	0.65	0.65	0.67	0.68	0.67	0.67	0.66	0.66	0.66
Electric Generators 4/	0.61	0.60	0.58	0.59	0.59	0.61	0.62	0.59	0.57	0.56	0.55	0.55
Transportation 5/	5.05	5.06	5.03	5.05	5.05	5.06	5.02	4.96	4.94	4.94	4.92	4.91
Average 6/	1.84	1.82	1.80	1.78	1.77	1.77	1.77	1.74	1.74	1.74	1.73	1.73
Transmission & Distribution Revenue (billion 2002 dollars)												
Residential	24.22	24.17	24.02	24.09	24.17	24.36	24.40	24.34	24.38	24.61	24.71	24.94
Commercial	11.73	11.76	11.71	11.76	11.88	12.06	12.15	12.13	12.21	12.37	12.48	12.64
Industrial 3/	5.71	5.69	5.78	5.83	5.95	6.24	6.44	6.42	6.43	6.46	6.53	6.65
Electric Generators 4/	4.49	4.50	4.46	4.65	4.76	5.14	5.31	5.10	4.84	4.73	4.51	4.60
Transportation 5/	0.36	0.38	0.40	0.42	0.44	0.46	0.47	0.48	0.49	0.50	0.51	0.53
Total	46.51	46.51	46.37	46.76	47.20	48.26	48.77	48.46	48.35	48.68	48.76	49.36

**Table 14. Natural Gas Prices, Margins and Revenues
(2002 Dollars per Thousand Cubic Feet, Unless Otherwise Noted)**

	2025	2002- 2025
Source Price		
Average Lower 48 Wellhead Price 1/	4.40	1.8%
Average Import Price	4.67	1.7%
Average 2/	4.47	1.8%
Delivered Prices		
Residential	8.56	0.4%
Commercial	7.62	0.7%
Industrial 3/	5.13	1.3%
Electric Generators 4/	5.01	1.2%
Transportation 5/	9.34	0.9%
Average 6/	6.19	0.8%
Transmission & Distribution Margins 7/		
Residential	4.09	-0.8%
Commercial	3.15	-0.5%
Industrial 3/	0.66	-1.2%
Electric Generators 4/	0.54	-2.0%
Transportation 5/	4.87	0.2%
Average 6/	1.72	-1.1%
Transmission & Distribution Revenue (billion 2002 dollars)		
Residential	24.89	0.2%
Commercial	12.72	0.6%
Industrial 3/	6.80	0.3%
Electric Generators 4/	4.54	-0.2%
Transportation 5/	0.54	9.7%
Total	49.49	0.3%

**Table 14. Natural Gas Prices, Margins and Revenues
(2002 Dollars per Thousand Cubic Feet, Unless Otherwise Noted)**

1/ Represents lower 48 onshore and offshore supplies.

2/ Quantity-weighted average of the average lower 48 wellhead price and the average price of imports at the U.S. border.

3/ Includes consumption for combined heat and power, which produces electricity and other useful thermal energy.

4/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

5/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

6/ Weighted average prices and margins. Weights used are the sectoral consumption values excluding lease, plant, and pipeline fuel.

7/ Within the table, "transmission and distribution" margins equal the difference between the delivered price and the source price (average of the wellhead price and the price of imports at the U.S. border) of natural gas and, thus, reflect the total cost of bringing natural gas to market. When the term "transmission and distribution" margins is used in today's natural gas market, it generally does not include the cost of independent natural gas marketers or costs associated with aggregation of supplies, provisions of storage, and other services. As used here, the term includes the cost of all services and the cost of pipeline fuel used in compressor stations.

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.

Sources: 2001 residential, commercial, and transportation delivered prices; average lower 48 wellhead price; and average import price: Energy Information Administration (EIA), Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2001 and 2002 electric generators delivered price: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial delivered prices based on EIA, Manufacturing Energy Consumption Survey 1998. 2002 residential, commercial, and transportation delivered prices; average lower 48 wellhead price; and average import price: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). Other 2001 and 2002 values: EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

Table 15. Oil and Gas Supply

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Crude Oil											
Lower 48 Average Wellhead Price 1/ (2002 dollars per barrel)	23.16	24.54	27.29	24.36	22.75	22.89	23.13	23.28	23.47	23.61	24.11
Production (million barrels per day) 2/											
U.S. Total	5.74	5.62	5.69	5.80	5.86	5.93	6.09	6.11	6.05	5.93	5.82
Lower 48 Onshore	3.14	3.11	2.93	2.95	2.90	2.83	2.77	2.72	2.66	2.61	2.56
Lower 48 Offshore	1.64	1.53	1.78	1.90	2.06	2.22	2.40	2.46	2.45	2.40	2.34
Alaska	0.96	0.98	0.98	0.95	0.90	0.88	0.91	0.93	0.94	0.92	0.92
Lower 48 End of Year Reserves (billion barrels) 2/	19.14	19.05	19.23	18.96	18.59	18.61	18.89	18.86	18.66	18.36	18.05
Natural Gas											
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	4.14	2.95	4.90	3.88	3.54	3.48	3.53	3.64	3.47	3.40	3.56
Dry Production (trillion cubic feet) 3/											
U.S. Total	19.70	19.05	19.57	19.51	19.58	19.67	19.96	20.22	20.25	20.50	20.80
Lower 48 Onshore	13.90	13.76	13.82	13.92	13.99	14.10	14.28	14.54	14.54	14.48	14.79
Associated-Dissolved 4/	1.63	1.60	1.54	1.54	1.52	1.50	1.47	1.45	1.43	1.41	1.38
Non-Associated	12.27	12.16	12.29	12.37	12.47	12.61	12.80	13.09	13.11	13.08	13.40
Conventional	6.62	6.23	6.07	6.26	6.29	6.16	6.09	6.03	5.87	5.80	5.86
Unconventional	5.65	5.93	6.22	6.12	6.18	6.45	6.71	7.06	7.24	7.28	7.54
Lower 48 Offshore	5.37	4.86	5.23	5.06	5.03	4.99	5.10	5.09	5.12	5.41	5.40
Associated-Dissolved 4/	1.15	1.05	1.13	1.16	1.16	1.16	1.48	1.76	1.70	1.61	1.52
Non-Associated	4.21	3.81	4.10	3.90	3.88	3.83	3.62	3.33	3.43	3.80	3.88
Alaska	0.44	0.43	0.51	0.54	0.56	0.57	0.58	0.59	0.59	0.60	0.61
Lower 48 End of Year Dry Reserves (tcf) 3/	174.66	180.03	182.47	187.40	191.09	194.13	195.36	197.69	199.90	201.20	202.24
Supplemental Gas Supplies (tcf) 5/	0.09	0.08	0.08	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Lower 48 Wells (thousands)	34.10	24.47	28.27	27.67	26.60	25.83	25.68	26.11	25.07	24.78	25.31

Table 15. Oil and Gas Supply

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Crude Oil											
Lower 48 Average Wellhead Price 1/ (2002 dollars per barrel)	23.98	24.18	24.41	24.56	24.78	24.97	25.43	25.39	25.82	25.78	26.28
Production (million barrels per day) 2/											
U.S. Total	5.71	5.66	5.56	5.53	5.42	5.27	5.26	5.14	4.95	4.84	4.73
Lower 48 Onshore	2.51	2.47	2.42	2.38	2.34	2.30	2.27	2.23	2.20	2.17	2.13
Lower 48 Offshore	2.28	2.26	2.19	2.21	2.17	2.10	2.17	2.14	2.03	2.00	1.96
Alaska	0.92	0.93	0.95	0.93	0.91	0.87	0.82	0.77	0.72	0.67	0.63
Lower 48 End of Year Reserves (billion barrels) 2/	17.72	17.52	17.20	17.13	16.87	16.55	16.62	16.46	16.20	15.84	15.50
Natural Gas											
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	3.75	3.93	4.01	4.19	4.22	4.23	4.17	4.13	4.28	4.45	4.42
Dry Production (trillion cubic feet) 3/											
U.S. Total	21.12	21.31	21.43	21.62	21.58	21.99	22.82	23.55	23.79	23.55	23.38
Lower 48 Onshore	15.20	15.43	15.66	16.11	16.18	16.42	16.28	16.10	16.41	16.53	16.42
Associated-Dissolved 4/	1.37	1.35	1.33	1.31	1.29	1.28	1.26	1.25	1.23	1.22	1.21
Non-Associated	13.84	14.09	14.33	14.81	14.89	15.15	15.02	14.85	15.18	15.31	15.22
Conventional	5.98	6.01	6.01	6.13	6.06	6.10	6.04	5.96	6.07	6.10	6.02
Unconventional	7.86	8.08	8.32	8.67	8.83	9.04	8.98	8.89	9.11	9.21	9.20
Lower 48 Offshore	5.30	5.25	5.14	4.87	4.76	4.92	5.07	5.17	5.09	4.72	4.64
Associated-Dissolved 4/	1.44	1.37	1.36	1.33	1.38	1.38	1.33	1.35	1.34	1.25	1.25
Non-Associated	3.86	3.88	3.78	3.54	3.38	3.53	3.74	3.82	3.75	3.47	3.39
Alaska	0.62	0.62	0.63	0.64	0.65	0.66	1.47	2.29	2.29	2.30	2.31
Lower 48 End of Year Dry Reserves (tcf) 3/	203.05	204.21	203.96	203.74	203.74	204.30	204.20	203.53	200.97	199.48	197.62
Supplemental Gas Supplies (tcf) 5/	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Lower 48 Wells (thousands)	25.78	26.11	26.26	26.80	26.98	27.12	27.30	26.74	26.83	26.98	26.70

Table 15. Oil and Gas Supply

	2023	2024	2025	2002- 2025
Crude Oil				
Lower 48 Average Wellhead Price 1/ (2002 dollars per barrel)	26.54	26.50	26.72	0.4%
Production (million barrels per day) 2/				
U.S. Total	4.76	4.75	4.61	-0.9%
Lower 48 Onshore	2.11	2.08	2.04	-1.8%
Lower 48 Offshore	2.07	2.13	2.06	1.3%
Alaska	0.58	0.54	0.51	-2.8%
Lower 48 End of Year Reserves (billion barrels) 2/	15.51	15.36	14.98	-1.0%
Natural Gas				
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	4.42	4.42	4.40	1.8%
Dry Production (trillion cubic feet) 3/				
U.S. Total	23.52	23.88	23.99	1.0%
Lower 48 Onshore	16.32	16.22	16.26	0.7%
Associated-Dissolved 4/	1.19	1.18	1.17	-1.4%
Non-Associated	15.13	15.04	15.09	0.9%
Conventional	6.00	5.96	5.92	-0.2%
Unconventional	9.13	9.08	9.16	1.9%
Lower 48 Offshore	4.69	4.97	5.03	0.1%
Associated-Dissolved 4/	1.24	1.38	1.43	1.4%
Non-Associated	3.45	3.59	3.60	-0.3%
Alaska	2.50	2.70	2.71	8.3%
Lower 48 End of Year Dry Reserves (tcf) 3/	196.54	195.64	193.51	0.3%
Supplemental Gas Supplies (tcf) 5/	0.10	0.10	0.10	0.8%
Lower 48 Wells (thousands)	26.70	26.38	26.00	0.3%

Table 15. Oil and Gas Supply

1/ Represents lower 48 onshore and offshore supplies.

2/ Includes lease condensate.

3/ Marketed production (wet) minus extraction losses.

4/ Gas which occurs in crude oil reserves either as free gas (associated) or as gas in solution with crude oil (dissolved).

5/ Synthetic natural gas, propane air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Tcf = Trillion cubic feet.

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.

Sources: 2001 and 2002 lower 48 onshore, lower 48 offshore, and Alaska crude oil production: Energy Information Administration (EIA), Petroleum Supply Annual 2002, DOE/EIA-0340(2002)/1 (Washington, DC, June 2003). 2001 U.S. crude oil and natural gas reserves: EIA, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, DOE/EIA-0216(2001) (Washington, DC, November 2002). 2001 natural gas lower 48 average wellhead price, natural gas production, and supplemental gas supplies: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 natural gas lower 48 average wellhead price, natural gas production, and supplemental gas supplies: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). Other 2001 and 2002 values: EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

Table 16. Coal Supply, Disposition, and Prices
(Million Short Tons per Year, Unless Otherwise Noted)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Production 1/ Appalachia	443	408	388	396	399	402	404	407	404	408	406
Interior	147	147	152	156	152	160	167	174	168	169	171
West	548	550	560	569	589	607	621	618	648	653	663
East of the Mississippi	539	504	485	497	500	509	518	523	519	524	524
West of the Mississippi	599	601	615	624	641	659	674	677	701	706	715
Total	1138	1105	1100	1121	1141	1168	1192	1199	1220	1230	1240
Net Imports											
Imports	20	17	21	23	25	27	29	31	32	33	34
Exports	49	40	42	41	40	39	39	37	37	35	34
Total	-29	-23	-21	-18	-15	-12	-9	-7	-5	-2	0
Total Supply 2/	1109	1083	1079	1103	1126	1156	1183	1193	1216	1228	1240
Consumption by Sector											
Residential and Commercial	4	4	5	5	5	5	5	5	5	5	5
Industrial 3/ of which: Coal to Liquids	65	63	64	64	65	65	65	64	64	65	65
Coke Plants	0	0	0	0	0	0	0	0	0	0	0
Electric Generators 4/ Total	26	23	25	25	25	25	24	24	24	23	23
	964	976	1005	1004	1032	1062	1089	1100	1123	1136	1148
	1060	1066	1100	1098	1126	1156	1183	1193	1216	1229	1240
Discrepancy and Stock Change 5/	49	17	-21	5	0	0	0	0	0	0	0
Average Minemouth Price (2002 dollars per short ton)	17.79	17.90	17.79	17.64	17.24	16.99	16.98	17.17	16.93	16.88	16.84
(2002 dollars per million Btu)	0.87	0.87	0.86	0.86	0.84	0.83	0.83	0.84	0.82	0.82	0.82
Delivered Price (2002 dollars per short ton)											
Industrial	32.96	33.24	35.53	35.02	34.66	34.53	34.42	34.64	34.50	34.46	34.36
Coke Plants	46.94	51.27	55.61	55.29	54.55	54.29	53.76	53.90	53.71	53.68	53.28
Electric Generators (2002 dollars / short ton)	25.13	25.96	25.00	24.94	24.89	24.75	24.64	24.77	24.71	24.67	24.64
(2002 dollars /million Btu)	1.25	1.26	1.24	1.23	1.23	1.23	1.22	1.23	1.23	1.22	1.22
Average	26.15	26.93	26.31	26.23	26.11	25.93	25.77	25.90	25.80	25.74	25.68
Exports 7/	37.39	40.44	37.40	36.92	36.60	36.41	36.14	36.48	36.28	36.47	36.28

Table 16. Coal Supply, Disposition, and Prices
(Million Short Tons per Year, Unless Otherwise Noted)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Production 1/ Appalachia	398	391	391	395	388	393	399	401	402	406	413
Interior	163	163	163	162	160	158	165	167	170	174	176
West	688	706	717	728	756	768	766	786	805	823	850
East of the Mississippi	509	502	503	505	497	500	514	517	522	530	540
West of the Mississippi	740	758	768	780	807	819	816	836	854	873	900
Total	1250	1260	1271	1285	1304	1319	1330	1353	1377	1403	1440
Net Imports											
Imports	35	36	37	38	38	39	40	40	42	43	44
Exports	32	31	31	32	32	32	32	30	27	27	27
Total	4	5	6	6	6	7	8	10	14	16	16
Total Supply 2/	1253	1265	1277	1291	1311	1326	1338	1363	1391	1419	1457
Consumption by Sector											
Residential and Commercial	5	5	5	5	5	5	5	5	5	5	5
Industrial 3/ of which: Coal to Liquids	65	65	65	65	66	66	66	66	66	66	67
Coke Plants	23	22	22	21	21	20	20	19	19	19	18
Electric Generators 4/ Total	1161	1174	1185	1200	1220	1236	1248	1273	1301	1330	1367
	1254	1266	1277	1291	1311	1327	1339	1363	1391	1420	1457
Discrepancy and Stock Change 5/	0	0	0	0	0	0	0	-1	0	-1	-1
Average Minemouth Price (2002 dollars per short ton)	16.69	16.59	16.45	16.47	16.19	16.29	16.31	16.16	16.32	16.45	16.56
(2002 dollars per million Btu)	0.82	0.81	0.81	0.81	0.80	0.80	0.80	0.80	0.80	0.81	0.82
Delivered Price (2002 dollars per short ton)											
Industrial	34.10	33.99	33.87	33.83	33.73	33.75	33.52	33.20	33.43	33.49	33.59
Coke Plants	52.77	52.42	52.33	52.13	51.97	51.67	51.67	51.25	50.45	49.98	49.45
Electric Generators (2002 dollars / short ton)	24.56	24.53	24.34	24.34	24.17	24.16	24.08	23.84	24.01	24.09	24.23
(2002 dollars /million Btu)	1.22	1.22	1.22	1.22	1.21	1.21	1.20	1.19	1.20	1.20	1.21
Average	25.57	25.51	25.31	25.28	25.09	25.06	24.96	24.69	24.83	24.87	24.98
Exports 7/	35.46	35.30	35.28	35.25	35.27	35.20	35.32	34.89	34.13	33.94	33.33

Table 16. Coal Supply, Disposition, and Prices
(Million Short Tons per Year, Unless Otherwise Noted)

	2023	2024	2025	2002- 2025
Production 1/ Appalachia	417	418	419	0.1%
Interior	177	176	178	0.8%
West	893	917	946	2.4%
East of the Mississippi	545	545	547	0.4%
West of the Mississippi	942	967	996	2.2%
Total	1487	1512	1543	1.5%
Net Imports				
Imports	45	45	46	4.4%
Exports	28	27	23	-2.3%
Total	17	18	23	N/A
Total Supply 2/	1504	1529	1566	1.6%
Consumption by Sector				
Residential and Commercial	5	5	5	0.4%
Industrial 3/	67	67	67	0.3%
of which: Coal to Liquids	0	0	0	N/A
Coke Plants	18	17	17	-1.2%
Electric Generators 4/	1415	1441	1477	1.8%
Total	1505	1530	1567	1.7%
Discrepancy and Stock Change 5/	-1	-1	-1	N/A
Average Minemouth Price				
(2002 dollars per short ton)	16.58	16.65	16.57	-0.3%
(2002 dollars per million Btu)	0.82	0.82	0.82	-0.2%
Delivered Price (2002 dollars per short ton)				
Industrial	33.51	33.43	33.33	0.0%
Coke Plants	48.95	48.64	48.42	-0.2%
Electric Generators				
(2002 dollars / short ton)	24.27	24.30	24.31	-0.3%
(2002 dollars /million Btu)	1.22	1.22	1.22	-0.1%
Average	24.98	24.98	24.96	-0.3%
Exports 7/	33.21	33.10	32.34	-1.0%

Table 16. Coal Supply, Disposition, and Prices
(Million Short Tons per Year, Unless Otherwise Noted)

1/ Includes anthracite, bituminous coal, lignite, and waste coal delivered to independent power producers. Waste coal deliveries totaled 10.6 million tons in 2001 and 11.1 million tons in 2002.

2/ Production plus net imports plus net storage withdrawals.

3/ Includes consumption for combined heat and power plants, except those plants whose primary business is to sell electricity, or electricity and heat, to the public.

4/ Includes all electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Balancing item: the sum of production, net imports, and net storage withdrawals minus total consumption.

6/ Sectoral prices weighted by consumption tonnage; weighted average excludes residential/ commercial prices and export free-alongside-ship (f.a.s.) prices.

7/ F.a.s. price at U.S. port of exit.

N/A = Not applicable.

Btu = British thermal unit.

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.

Sources: 2001: Energy Information Administration (EIA), Annual Coal Report 2001, DOE/EIA-0584(2001) (Washington, DC, March 2003). 2002 data based on: EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0121(2002/4Q) (Washington, DC, March 2003), EIA, Annual Coal Report 2002, DOE/EIA-0584(2002) (Washington, DC, November 2003), and EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E. Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 17. Renewable Energy Generating Capacity and Generation
(Gigawatts, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Electric Power Sector 1/												
Net Summer Capacity												
Conventional Hydropower	78.13	78.29	78.43	78.50	78.57	78.71	78.71	78.71	78.71	78.69	78.68	78.68
Geothermal 2/	2.88	2.89	2.90	2.81	2.90	3.15	3.28	3.51	3.76	4.01	4.27	4.49
Municipal Solid Waste 3/	3.38	3.49	3.61	3.65	3.66	3.69	3.83	3.89	3.89	3.92	3.92	3.92
Wood and Other Biomass 4,5/	1.79	1.83	1.85	1.87	1.89	1.99	2.04	2.09	2.14	2.20	2.24	2.24
Solar Thermal	0.33	0.33	0.33	0.34	0.42	0.42	0.42	0.43	0.43	0.43	0.46	0.46
Solar Photovoltaic 6/	0.02	0.02	0.04	0.05	0.06	0.08	0.10	0.12	0.14	0.15	0.17	0.18
Wind	4.15	4.83	6.50	6.62	6.68	6.91	7.40	7.57	7.68	8.01	8.46	8.69
Total	90.67	91.69	93.66	93.83	94.19	94.96	95.78	96.31	96.74	97.42	98.20	98.66
Generation (billion kilowatthours)												
Conventional Hydropower	213.75	255.78	269.65	303.07	303.43	304.15	304.43	304.45	304.47	304.37	304.34	304.37
Geothermal 2/	13.74	13.36	13.82	13.66	14.23	15.95	17.23	19.14	21.21	23.25	25.38	27.21
Municipal Solid Waste 3/	19.22	20.02	25.58	25.97	26.12	26.30	27.36	27.81	27.90	28.11	28.12	28.13
Wood and Other Biomass 5/	8.56	8.67	15.74	15.90	19.14	20.01	21.05	21.64	22.31	23.53	23.77	23.98
Dedicated Plants	7.22	6.32	10.75	10.86	11.16	11.72	12.15	12.56	12.90	13.26	13.48	13.62
Cofiring	1.34	2.35	4.99	5.05	7.98	8.29	8.90	9.07	9.42	10.26	10.29	10.37
Solar Thermal	0.54	0.54	0.52	0.52	0.72	0.80	0.81	0.82	0.83	0.84	0.90	0.93
Solar Photovoltaic 6/	0.00	0.00	0.08	0.11	0.15	0.19	0.23	0.28	0.32	0.36	0.40	0.44
Wind	6.74	10.51	17.38	19.08	19.40	20.07	21.56	22.46	22.94	24.07	25.78	26.59
Total	262.55	308.87	342.77	378.32	383.19	387.46	392.67	396.60	399.98	404.52	408.69	411.66
End Use Sector												
Net Summer Capacity												
Combined Heat and Power 7/												
Municipal Solid Waste	0.21	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Biomass	3.80	3.91	3.97	4.26	4.54	4.73	4.86	4.98	5.15	5.36	5.57	5.81
Total	4.01	4.16	4.23	4.51	4.79	4.98	5.11	5.23	5.40	5.61	5.83	6.06
Other End-Use Generators 8/												
Conventional Hydropower 9/	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic	0.03	0.04	0.06	0.08	0.10	0.14	0.19	0.24	0.31	0.39	0.39	0.40
Total	1.05	1.06	1.08	1.10	1.12	1.16	1.21	1.27	1.33	1.41	1.42	1.42
Generation (billion kwh)												
Combined Heat and Power 7/												
Municipal Solid Waste	1.78	1.84	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
Biomass	26.91	28.16	28.56	30.23	31.85	32.96	33.72	34.45	35.40	36.63	37.90	39.25
Total	28.68	30.00	30.66	32.33	33.95	35.06	35.82	36.55	37.50	38.73	40.00	41.36
Other End-Use Generators 8/												
Conventional Hydropower 9/	3.21	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic	0.06	0.09	0.12	0.16	0.22	0.30	0.41	0.52	0.66	0.82	0.84	0.86
Total	3.27	4.20	4.23	4.27	4.33	4.41	4.52	4.63	4.77	4.93	4.95	4.9795

**Table 17. Renewable Energy Generating Capacity and Generation
(Gigawatts, Unless Otherwise Noted)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Electric Power Sector 1/												
Net Summer Capacity												
Conventional Hydropower	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68
Geothermal 2/	4.73	4.91	5.11	5.24	5.43	5.54	5.82	6.06	6.24	6.34	6.39	6.57
Municipal Solid Waste 3/	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.95	3.95	3.95	3.95	3.95
Wood and Other Biomass 4,5/	2.24	2.27	2.31	2.31	2.55	2.69	2.85	3.04	3.22	3.25	3.28	3.40
Solar Thermal	0.47	0.47	0.47	0.48	0.48	0.49	0.49	0.49	0.50	0.50	0.51	0.51
Solar Photovoltaic 6/	0.20	0.22	0.24	0.25	0.27	0.29	0.31	0.32	0.34	0.36	0.38	0.39
Wind	9.38	9.81	10.48	10.78	11.00	11.33	11.84	13.39	14.42	14.57	14.79	15.52
Total	99.62	100.28	101.22	101.67	102.33	102.94	103.91	105.93	107.35	107.65	107.97	109.02
Generation (billion kilowatthours)												
Conventional Hydropower	304.41	304.45	304.48	304.51	304.54	304.57	304.60	304.63	304.66	304.70	304.73	304.77
Geothermal 2/	29.21	30.69	32.31	33.44	34.99	35.94	38.16	40.14	41.70	42.59	43.08	44.53
Municipal Solid Waste 3/	28.14	28.17	28.18	28.19	28.20	28.21	28.21	28.44	28.45	28.46	28.47	28.48
Wood and Other Biomass 5/	24.18	24.40	25.07	25.49	26.12	26.43	27.13	27.64	28.17	28.66	28.71	28.86
Dedicated Plants	13.66	13.79	14.03	14.13	15.19	16.11	17.30	18.47	19.68	20.33	20.73	21.32
Cofiring	10.51	10.62	11.05	11.35	10.93	10.32	9.83	9.17	8.49	8.33	7.98	7.54
Solar Thermal	0.94	0.96	0.97	0.98	1.00	1.01	1.02	1.04	1.05	1.06	1.08	1.09
Solar Photovoltaic 6/	0.49	0.53	0.57	0.62	0.66	0.71	0.75	0.79	0.84	0.88	0.93	0.97
Wind	29.05	30.56	32.95	34.04	34.85	36.03	37.88	43.54	47.34	47.87	48.69	51.40
Total	416.41	419.76	424.54	427.27	430.35	432.89	437.76	446.22	452.20	454.23	455.69	460.10
End Use Sector												
Net Summer Capacity												
Combined Heat and Power 7/												
Municipal Solid Waste	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Biomass	6.05	6.27	6.44	6.61	6.79	6.97	7.11	7.26	7.40	7.55	7.71	7.86
Total	6.30	6.52	6.69	6.86	7.04	7.22	7.36	7.51	7.65	7.80	7.96	8.11
Other End-Use Generators 8/												
Conventional Hydropower 9/	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic	0.41	0.42	0.42	0.43	0.44	0.48	0.51	0.58	0.67	0.78	0.88	1.00
Total	1.43	1.44	1.45	1.45	1.46	1.50	1.54	1.61	1.70	1.80	1.91	2.02
Generation (billion kwh)												
Combined Heat and Power 7/												
Municipal Solid Waste	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
Biomass	40.69	41.95	42.96	43.93	45.01	46.05	46.87	47.72	48.54	49.41	50.35	51.25
Total	42.79	44.05	45.06	46.03	47.11	48.15	48.97	49.82	50.64	51.51	52.45	53.35
Other End-Use Generators 8/												
Conventional Hydropower 9/	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic	0.87	0.89	0.91	0.92	0.94	1.02	1.10	1.26	1.45	1.67	1.90	2.14
Total	4.98	5.00	5.02	5.03	5.05	5.13	5.21	5.37	5.56	5.78	6.01	6.25

**Table 17. Renewable Energy Generating Capacity and Generation
(Gigawatts, Unless Otherwise Noted)**

	2025	2002- 2025
Electric Power Sector 1/		
Net Summer Capacity		
Conventional Hydropower	78.68	0.0%
Geothermal 2/	6.84	3.8%
Municipal Solid Waste 3/	3.95	0.5%
Wood and Other Biomass 4,5/	3.74	3.2%
Solar Thermal	0.52	1.9%
Solar Photovoltaic 6/	0.41	13.5%
Wind	15.99	5.3%
Total	110.13	0.8%
Generation (billion kilowatthours)		
Conventional Hydropower	304.80	0.8%
Geothermal 2/	46.66	5.6%
Municipal Solid Waste 3/	28.50	1.5%
Wood and Other Biomass 5/	29.16	5.4%
Dedicated Plants	22.90	5.8%
Cofiring	6.25	4.3%
Solar Thermal	1.11	3.2%
Solar Photovoltaic 6/	1.02	28.8%
Wind	53.16	7.3%
Total	464.40	1.8%
End Use Sector		
Net Summer Capacity		
Combined Heat and Power 7/		
Municipal Solid Waste	0.25	0.0%
Biomass	8.03	3.2%
Total	8.29	3.0%
Other End-Use Generators 8/		
Conventional Hydropower 9/	1.02	0.0%
Geothermal	0.00	N/A
Solar Photovoltaic	1.13	15.4%
Total	2.15	3.1%
Generation (billion kwh)		
Combined Heat and Power 7/		
Municipal Solid Waste	2.10	0.6%
Biomass	52.26	2.7%
Total	54.36	2.6%
Other End-Use Generators 8/		
Conventional Hydropower 9/	4.11	0.0%
Geothermal	0.00	N/A
Solar Photovoltaic	2.42	15.4%
Total	6.53	1.9%

**Table 17. Renewable Energy Generating Capacity and Generation
(Gigawatts, Unless Otherwise Noted)**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Facilities co-firing biomass and coal are classified as coal.

5/ Includes projections for energy crops after 2010.

6/ Does not include off-grid photovoltaics (PV). See Annual Energy Review 2001 Table 10.6 for estimates of 1989-2000 PV shipments, including exports, for both grid-connected and off-grid applications.

7/ Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors.

8/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

8/ Represents own-use industrial hydroelectric power.

N/A = Not applicable.

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.

Sources: 2001 and 2002 capacity: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," 2002 (preliminary). 2001 and 2002 generation: EIA, Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 18. Renewable Energy Consumption by Sector and Source 1/
(Quadrillion Btu per Year)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Marketed Renewable Energy 2/												
Residential	0.36	0.39	0.41	0.41	0.40	0.40	0.40	0.41	0.40	0.40	0.40	0.41
Wood	0.36	0.39	0.41	0.41	0.40	0.40	0.40	0.41	0.40	0.40	0.40	0.41
Commercial	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Biomass	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Industrial 3/	1.64	1.66	1.66	1.72	1.79	1.84	1.87	1.91	1.95	2.00	2.05	2.10
Conventional Hydroelectric	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Biomass	1.59	1.60	1.61	1.67	1.74	1.78	1.82	1.85	1.89	1.95	2.00	2.05
Transportation	0.14	0.17	0.23	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30
Ethanol used in E85 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol used in Gasoline Blending	0.14	0.17	0.23	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30
Electric Generators 5/	3.16	3.69	3.81	4.18	4.25	4.33	4.42	4.50	4.59	4.68	4.77	4.84
Conventional Hydroelectric	2.29	2.75	2.78	3.12	3.12	3.13	3.13	3.13	3.13	3.13	3.13	3.13
Geothermal	0.29	0.30	0.30	0.30	0.32	0.37	0.41	0.47	0.54	0.61	0.67	0.73
Municipal Solid Waste 6/	0.33	0.34	0.35	0.36	0.36	0.36	0.38	0.38	0.38	0.39	0.39	0.39
Biomass	0.15	0.17	0.20	0.20	0.24	0.25	0.26	0.27	0.28	0.29	0.29	0.30
Dedicated Plants	0.12	0.11	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.15
Cofiring	0.03	0.06	0.07	0.08	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.14
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.08	0.13	0.18	0.20	0.20	0.21	0.22	0.23	0.24	0.25	0.27	0.27
Total Marketed Renewable Energy	5.40	6.01	6.22	6.67	6.81	6.94	7.07	7.20	7.32	7.47	7.61	7.74
Sources of Ethanol												
From Corn	0.14	0.17	0.23	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.29	0.29
From Cellulose	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total	0.14	0.17	0.23	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30
Non-Marketed Renewable Energy												
-- Selected Consumption 7/												
Residential	0.04	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
Solar Hot Water Heating	0.04	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal Heat Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Commercial	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Thermal	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Table 18. Renewable Energy Consumption by Sector and Source 1/
(Quadrillion Btu per Year)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Marketed Renewable Energy 2/												
Residential	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Wood	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Commercial	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Biomass	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Industrial 3/	2.16	2.21	2.26	2.30	2.35	2.40	2.44	2.48	2.52	2.56	2.60	2.65
Conventional Hydroelectric	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Biomass	2.11	2.16	2.20	2.25	2.30	2.35	2.39	2.43	2.47	2.51	2.55	2.60
Transportation	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35
Ethanol used in E85 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol used in Gasoline Blending	0.30	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35
Electric Generators 5/	4.93	4.99	5.08	5.13	5.19	5.24	5.34	5.47	5.56	5.60	5.62	5.70
Conventional Hydroelectric	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
Geothermal	0.80	0.84	0.90	0.93	0.98	1.01	1.09	1.15	1.20	1.23	1.24	1.29
Municipal Solid Waste 6/	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Biomass	0.30	0.30	0.30	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33
Dedicated Plants	0.15	0.15	0.16	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.23	0.24
Cofiring	0.14	0.14	0.15	0.15	0.14	0.14	0.13	0.12	0.11	0.11	0.10	0.10
Solar Thermal	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.30	0.31	0.34	0.35	0.36	0.37	0.39	0.45	0.49	0.49	0.50	0.53
Total Marketed Renewable Energy	7.89	8.02	8.15	8.25	8.37	8.47	8.61	8.78	8.92	9.00	9.07	9.20
Sources of Ethanol												
From Corn	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31
From Cellulose	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04
Total	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35
Non-Marketed Renewable Energy												
-- Selected Consumption 7/												
Residential	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05
Solar Hot Water Heating	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
Geothermal Heat Pumps	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Commercial	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Thermal	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

**Table 18. Renewable Energy Consumption by Sector and Source 1/
(Quadrillion Btu per Year)**

	2025	2002- 2025
Marketed Renewable Energy 2/		
Residential	0.41	0.1%
Wood	0.41	0.1%
Commercial	0.10	0.0%
Biomass	0.10	0.0%
Industrial 3/	2.70	2.1%
Conventional Hydroelectric	0.04	N/A
Municipal Solid Waste	0.01	N/A
Biomass	2.65	2.2%
Transportation	0.35	3.2%
Ethanol used in E85 4/	0.00	N/A
Ethanol used in Gasoline Blending	0.35	3.2%
Electric Generators 5/	5.79	2.0%
Conventional Hydroelectric	3.13	0.6%
Geothermal	1.36	6.9%
Municipal Solid Waste 6/	0.39	0.6%
Biomass	0.34	3.1%
Dedicated Plants	0.26	3.8%
Cofiring	0.08	1.4%
Solar Thermal	0.02	6.0%
Solar Photovoltaic	0.00	N/A
Wind	0.55	6.6%
Total Marketed Renewable Energy	9.35	1.9%
Sources of Ethanol		
From Corn	0.31	2.5%
From Cellulose	0.05	N/A
Total	0.35	3.2%
Non-Marketed Renewable Energy		
-- Selected Consumption 7/		
Residential	0.05	3.2%
Solar Hot Water Heating	0.04	2.2%
Geothermal Heat Pumps	0.01	9.0%
Solar Photovoltaic	0.00	15.0%
Commercial	0.03	1.5%
Solar Thermal	0.03	0.6%
Solar Photovoltaic	0.01	15.5%

**Table 18. Renewable Energy Consumption by Sector and Source 1/
(Quadrillion Btu per Year)**

1/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,280 Btu per kilowatthour.

2/ Includes nonelectric renewable energy groups for which the energy source is bought and sold in the marketplace, although all transactions may not necessarily be marketed, and marketed renewable energy inputs for electricity entering the marketplace on the electric power grid. Excludes electricity imports; see Table A8.

3/ Includes all electricity production by industrial and other combined heat and power for the grid and for own use.

4/ Excludes motor gasoline component of E85.

5/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

6/ Includes landfill gas.

7/ Includes selected renewable energy consumption data for which the energy is not bought or sold, either directly or indirectly as an input to marketed energy. The Energy Information Administration does not estimate or project total consumption of nonmarketed renewable energy.

N/A = Not applicable.

Btu = British thermal unit.

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.

Sources: 2001 and 2002 ethanol: Energy Information Administration (EIA), Annual Energy Review 2002, DOE/EIA-0384(2002) (Washington, DC, October 2003). 2001 and 2002 electric generators: EIA, Form EIA-860, "Annual Electric Generator Report," 2002 (preliminary). Other 2001 and 2002 values: EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 19. Carbon Dioxide Emissions by Sector and Source
(million metric tons, unless otherwise noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Residential													
Petroleum	105.6	104.0	104.2	109.2	109.8	110.7	110.8	111.0	110.5	110.4	110.2	110.3	109.7
Natural Gas	259.5	267.2	275.2	281.1	282.7	287.0	290.3	294.0	296.8	300.4	302.9	305.3	305.5
Coal	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1
Electricity	790.8	816.7	826.9	820.5	834.6	851.0	869.2	884.2	893.9	905.3	915.2	928.6	935.0
Total	1157.0	1189.0	1207.5	1212.1	1228.3	1249.9	1271.5	1290.4	1302.3	1317.2	1329.4	1345.3	1351.3
Commercial													
Petroleum	52.9	52.6	60.9	61.5	62.8	63.5	64.4	65.0	65.5	66.2	66.6	67.1	67.6
Natural Gas	165.0	169.4	171.9	168.8	172.2	176.5	179.6	182.1	185.2	188.7	191.2	192.9	194.1
Coal	9.2	9.2	9.3	9.0	9.3	9.4	9.3	9.3	9.3	9.3	9.3	9.3	9.3
Electricity	787.4	778.0	782.5	790.1	820.1	848.8	876.4	897.7	918.2	938.4	957.6	977.6	995.9
Total	1014.5	1009.1	1024.5	1029.4	1064.4	1098.2	1129.8	1154.0	1178.2	1202.5	1224.8	1247.0	1266.9
Industrial 1/													
Petroleum	409.9	412.8	345.3	338.2	354.8	362.1	365.9	368.8	366.9	365.4	365.2	370.4	377.0
Natural Gas 2/	441.5	432.7	439.1	457.1	469.7	479.0	488.8	497.2	507.9	522.1	532.8	538.5	544.4
Coal	196.8	185.1	195.8	196.2	196.1	195.2	194.4	193.4	192.8	191.9	191.1	190.2	189.2
Electricity	634.1	640.0	630.7	632.1	652.0	669.3	685.8	694.7	702.0	710.3	719.6	730.2	740.2
Total	1682.3	1670.6	1610.8	1623.6	1672.7	1705.6	1734.9	1754.0	1769.5	1789.6	1808.8	1829.3	1850.9
Transportation													
Petroleum 3/	1789.7	1811.2	1848.9	1909.7	1968.5	2018.1	2061.0	2104.5	2147.6	2193.2	2237.1	2282.7	2329.1
Natural Gas 4/	33.9	35.2	36.9	36.6	36.9	37.0	37.4	38.0	38.5	39.5	40.3	41.1	41.7
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	14.2	14.2	14.6	14.7	15.1	15.5	15.9	16.2	16.4	16.7	17.0	17.3	17.5
Total	1837.8	1860.6	1900.4	1960.9	2020.5	2070.6	2114.4	2158.7	2202.6	2249.5	2294.4	2341.1	2388.3
Total by Delivered Fuel													
Petroleum 3/	2358.2	2380.5	2359.3	2418.6	2495.8	2554.4	2602.2	2649.3	2690.5	2735.2	2779.2	2830.6	2883.4
Natural Gas	899.9	904.4	923.1	943.6	961.5	979.5	996.2	1011.3	1028.3	1050.7	1067.2	1077.8	1085.7
Coal	207.1	195.4	206.3	206.4	206.6	205.8	204.9	203.9	203.2	202.4	201.6	200.6	199.7
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	2226.6	2249.0	2254.6	2257.4	2321.9	2384.7	2447.3	2492.7	2530.6	2570.6	2609.4	2653.8	2688.6
Total	5691.7	5729.3	5743.3	5826.0	5985.9	6124.4	6250.5	6357.2	6452.7	6558.8	6657.4	6762.7	6857.3
Electric Power Sector 6/													
Petroleum	99.6	72.2	77.6	41.9	50.4	49.8	52.0	57.0	54.4	51.0	55.4	63.7	68.4
Natural Gas	289.1	299.1	267.3	305.0	306.7	316.0	323.7	342.3	342.0	358.5	372.3	386.6	397.0
Coal	1838.0	1877.8	1909.7	1910.4	1964.8	2019.0	2071.6	2093.5	2134.1	2161.2	2181.7	2203.5	2223.2
Total	2226.6	2249.0	2254.6	2257.4	2321.9	2384.7	2447.3	2492.7	2530.6	2570.6	2609.4	2653.8	2688.6
Total by Primary Fuel 7/													
Petroleum 3/	2457.7	2452.7	2436.9	2460.5	2546.3	2604.2	2654.1	2706.2	2744.9	2786.1	2834.6	2894.3	2951.8
Natural Gas	1189.0	1203.4	1190.3	1248.6	1268.2	1295.4	1319.9	1353.6	1370.4	1409.2	1439.5	1464.4	1482.6
Coal	2045.0	2073.2	2116.0	2116.8	2171.4	2224.8	2276.5	2297.3	2337.3	2363.6	2383.3	2404.1	2422.9
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	5691.7	5729.3	5743.3	5826.0	5985.9	6124.4	6250.5	6357.2	6452.7	6558.8	6657.4	6762.7	6857.3
Carbon Dioxide Emissions (tons per person)													
	19.9	19.8	19.7	19.8	20.2	20.5	20.7	20.9	21.0	21.2	21.4	21.5	21.6

**Table 19. Carbon Dioxide Emissions by Sector and Source
(million metric tons, unless otherwise noted)**

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residential													
Petroleum	109.4	109.1	108.9	108.2	107.8	107.4	107.1	106.4	105.9	105.5	105.3	104.5	0.0%
Natural Gas	306.8	308.1	310.8	312.2	314.8	317.7	321.2	321.9	323.7	326.0	329.2	330.7	0.9%
Coal	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-0.3%
Electricity	943.9	954.0	968.2	977.9	988.1	1003.1	1019.9	1032.2	1051.3	1073.1	1091.8	1106.7	1.3%
Total	1361.2	1372.3	1389.0	1399.4	1411.7	1429.3	1449.2	1461.6	1482.0	1505.7	1527.3	1543.0	1.1%
Commercial													
Petroleum	68.1	68.6	69.0	69.3	69.6	69.9	70.2	70.7	71.0	71.5	71.9	72.2	1.4%
Natural Gas	195.3	196.5	198.2	200.2	202.6	205.4	207.9	209.7	211.6	214.0	216.5	219.4	1.1%
Coal	9.3	9.3	9.3	9.3	9.3	9.2	9.2	9.2	9.2	9.2	9.2	9.2	0.0%
Electricity	1012.9	1030.1	1048.7	1069.1	1088.3	1112.5	1135.5	1160.1	1187.1	1216.9	1240.9	1269.2	2.2%
Total	1285.6	1304.4	1325.2	1347.9	1369.7	1397.0	1422.9	1449.8	1479.0	1511.6	1538.5	1570.1	1.9%
Industrial 1/													
Petroleum	383.3	388.2	391.6	395.2	399.2	404.0	408.0	413.1	417.8	421.4	424.9	428.4	0.2%
Natural Gas 2/	548.1	552.2	558.8	567.8	579.9	590.7	598.6	602.5	609.7	619.9	629.7	639.4	1.7%
Coal	188.3	187.1	186.2	185.4	185.0	183.9	183.3	182.3	182.0	181.6	181.2	181.1	-0.1%
Electricity	748.2	757.4	769.2	781.9	791.8	802.1	813.8	826.5	844.6	865.2	880.9	900.7	1.5%
Total	1868.0	1885.0	1905.8	1930.4	1956.0	1980.8	2003.6	2024.5	2054.0	2088.1	2116.7	2149.5	1.1%
Transportation													
Petroleum 3/	2369.6	2406.2	2442.2	2479.8	2517.6	2553.8	2590.9	2629.0	2669.5	2712.3	2757.1	2805.8	1.9%
Natural Gas 4/	41.9	42.4	42.3	43.0	45.8	48.5	49.1	49.1	49.0	49.8	50.8	51.3	1.7%
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electricity	17.8	18.1	18.4	18.8	19.1	19.5	19.9	20.4	20.9	21.5	21.9	22.4	2.0%
Total	2429.3	2466.7	2503.0	2541.5	2582.5	2621.7	2659.9	2698.5	2739.4	2783.5	2829.8	2879.5	1.9%
Total by Delivered Fuel													
Petroleum 3/	2930.5	2972.0	3011.7	3052.5	3094.3	3135.1	3176.2	3219.2	3264.3	3310.6	3359.1	3410.9	1.6%
Natural Gas	1092.1	1099.2	1110.1	1123.2	1143.1	1162.2	1176.8	1183.2	1194.0	1209.6	1226.2	1240.8	1.4%
Coal	198.7	197.5	196.5	195.8	195.4	194.3	193.6	192.7	192.3	191.9	191.5	191.4	-0.1%
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electricity	2722.8	2759.6	2804.6	2847.7	2887.2	2937.3	2989.0	3039.2	3103.8	3176.7	3235.5	3299.0	1.7%
Total	6944.1	7028.4	7123.0	7219.2	7320.0	7428.8	7535.6	7634.2	7754.5	7888.9	8012.3	8142.0	1.5%
Electric Power Sector 6/													
Petroleum	73.6	78.6	77.9	76.8	71.7	68.0	65.2	68.4	65.1	60.4	62.4	61.6	-0.7%
Natural Gas	405.8	410.9	426.2	437.0	453.7	462.0	463.3	455.3	451.6	445.1	453.8	451.6	1.8%
Coal	2243.4	2270.2	2300.5	2333.9	2361.8	2407.3	2460.5	2515.5	2587.1	2671.2	2719.4	2785.8	1.7%
Total	2722.8	2759.6	2804.6	2847.7	2887.2	2937.3	2989.0	3039.2	3103.8	3176.7	3235.5	3299.0	1.7%
Total by Primary Fuel 7/													
Petroleum 3/	3004.1	3050.6	3089.6	3129.3	3166.0	3203.0	3241.4	3287.5	3329.4	3371.0	3421.5	3472.5	1.5%
Natural Gas	1497.9	1510.1	1536.4	1560.2	1596.8	1624.2	1640.1	1638.5	1645.6	1654.7	1680.0	1692.4	1.5%
Coal	2442.2	2467.7	2497.0	2529.7	2557.2	2601.6	2654.1	2708.1	2779.4	2863.2	2910.8	2977.1	1.6%
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	6944.1	7028.4	7123.0	7219.2	7320.0	7428.8	7535.6	7634.2	7754.5	7888.9	8012.3	8142.0	1.5%
Carbon Dioxide Emissions (tons per person)													
	21.7	21.8	22.0	22.1	22.2	22.4	22.5	22.6	22.8	23.0	23.2	23.4	0.7%

**Table 19. Carbon Dioxide Emissions by Sector and Source
(million metric tons, unless otherwise noted)**

1/ Fuel consumption includes energy for combined heat and power plants, except those plants whose primary business is to sell electricity, or electricity and heat, to the public.

2/ Includes lease and plant fuel.

3/ This includes international bunker fuel, which by convention are excluded from the international accounting of carbon dioxide emissions. In the years from 1990 through 2000, international bunker fuels accounted for 24 to 30 million metric tons of carbon dioxide annually.

4/ Includes pipeline fuel natural gas and compressed natural gas used as vehicle fuel.

5/ Includes methanol and liquid hydrogen.

6/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Does not include emissions from the nonbiogenic component of municipal solid waste because under international guidelines these are accounted for as waste, not energy.

7/ Emissions from the electric power sector are distributed to the primary fuels.

N/A = Not applicable.

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.

Sources: 2001 and 2002 emissions and emission factors: Energy Information Administration (EIA), Emissions of Greenhouse Gases in the United States 2002, DOE/EIA-0573(2002) (Washington, DC, October 2003). Projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.

**Table 20. Macroeconomic Indicators
(Billion 1996 Chain-Weighted Dollars, Unless Otherwise Noted)**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Real Gross Domestic Product	9215	9440	9657	10019	10402	10764	11129	11496	11839	12190	12543	12906	13313
Real Potential Gross Domestic Product	9433	9726	10008	10303	10619	10954	11299	11637	11972	12313	12669	13014	13374
Real Disposable Personal Income	6748	7032	7244	7557	7755	7968	8164	8388	8625	8894	9150	9448	9768
Components of Real Gross Domestic Product													
Real Consumption	6377	6576	6754	7021	7266	7482	7706	7951	8187	8437	8686	8952	9248
Real Investment	1575	1590	1637	1747	1871	1985	2102	2202	2288	2387	2500	2606	2744
Real Government Spending	1640	1713	1754	1778	1807	1842	1873	1903	1933	1961	1981	2006	2033
Real Exports	1076	1059	1062	1140	1266	1389	1501	1614	1726	1838	1957	2081	2211
Real Imports	1492	1547	1608	1721	1854	1970	2077	2190	2304	2436	2576	2729	2905
Energy Intensity (thousand Btu per 1996 dollar of GDP)													
Delivered Energy	7.69	7.55	7.43	7.32	7.24	7.14	7.02	6.91	6.81	6.73	6.65	6.57	6.46
Total Energy	10.53	10.36	10.16	10.01	9.88	9.75	9.60	9.45	9.29	9.17	9.06	8.94	8.79
Price Indices													
GDP Chain-Type Price Index (1996=1.000)	1.094	1.107	1.123	1.140	1.162	1.186	1.211	1.238	1.268	1.301	1.337	1.374	1.414
Consumer Price Index (1982-4=1.00)	1.77	1.80	1.84	1.86	1.89	1.93	1.97	2.01	2.06	2.11	2.17	2.23	2.30
Wholesale Price Index (1982=1.00)													
All Commodities	1.34	1.31	1.37	1.36	1.37	1.39	1.40	1.42	1.44	1.46	1.48	1.50	1.52
Fuel and Power	1.05	0.93	1.11	1.02	1.00	1.01	1.03	1.03	1.05	1.06	1.07	1.10	1.12
Interest Rates (percent, nominal)													
Federal Funds Rate	3.89	1.67	1.12	1.07	1.85	2.24	2.53	3.36	4.43	5.42	5.48	5.49	5.50
10-Year Treasury Note	5.02	4.61	4.15	4.85	5.23	5.25	5.35	5.73	6.19	6.60	6.49	6.46	6.50
AA Utility Bond Rate	7.57	7.19	6.57	6.74	6.90	6.71	6.68	6.98	7.49	7.99	7.89	7.93	8.02
Unemployment Rate (percent)	4.77	5.78	6.08	6.08	5.76	5.64	5.49	5.24	5.08	4.93	4.85	4.71	4.46
Housing Starts (millions)	1.79	1.88	1.85	1.77	1.76	1.81	1.90	1.94	1.95	1.97	2.00	1.97	1.97
Commercial Floorspace, Total (billion square feet)	70.2	72.1	74.1	76.0	77.6	78.9	80.1	81.3	82.5	83.8	85.1	86.4	87.6
Unit Sales of Light-Duty Vehicles (millions)	17.11	16.78	16.36	16.91	17.32	17.63	17.78	17.84	17.89	18.01	18.20	18.29	18.51
Value of Shipments (billion 1996 dollars)													
Total Industrial	5368	5285	5226	5430	5640	5803	5958	6105	6265	6439	6612	6782	6976
Non-Manufacturing	1309	1222	1183	1211	1268	1295	1318	1351	1389	1425	1457	1484	1527
Manufacturing	4059	4064	4043	4219	4373	4508	4640	4754	4876	5013	5155	5297	5449
Energy Intensive	1085	1120	1103	1136	1166	1189	1210	1229	1248	1273	1297	1322	1349
Non-Intensive	2974	2944	2940	3083	3207	3319	3429	3525	3628	3741	3858	3975	4100
Population and Employment (millions)													
Population, with Armed Forces Overseas	285.9	288.9	291.7	294.2	296.8	299.3	301.8	304.3	306.8	309.3	311.8	314.3	316.9
Population, aged 16 and over	221.5	224.3	226.9	229.4	231.9	234.5	237.0	239.5	241.8	244.1	246.2	248.3	250.4
Employment, Nonfarm	131.6	130.5	130.1	131.6	134.1	136.5	138.8	141.1	143.1	145.0	146.8	148.3	150.2
Employment, Manufacturing	17.7	16.7	16.1	15.8	15.9	16.0	16.1	16.0	16.0	16.1	16.2	16.2	16.3
Labor Force	143.9	145.1	146.6	148.2	150.1	152.2	154.2	156.1	158.0	159.8	161.3	162.3	163.4

**Table 20. Macroeconomic Indicators
(Billion 1996 Chain-Weighted Dollars, Unless Otherwise Noted)**

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Real Gross Domestic Product	13715	14101	14497	14918	15351	15756	16188	16589	17035	17500	17980	18520	3.0%
Real Potential Gross Domestic Product	13752	14144	14533	14915	15346	15755	16186	16595	17043	17508	17991	18520	2.8%
Real Disposable Personal Income	10044	10330	10622	10911	11223	11533	11864	12193	12546	12930	13357	13826	3.0%
Components of Real Gross Domestic Product													
Real Consumption	9530	9802	10090	10384	10682	10984	11296	11600	11915	12243	12584	12946	3.0%
Real Investment	2889	3021	3146	3292	3441	3563	3726	3872	4053	4243	4425	4661	4.8%
Real Government Spending	2062	2092	2124	2157	2191	2225	2265	2291	2324	2358	2391	2423	1.5%
Real Exports	2346	2481	2629	2801	2993	3185	3376	3576	3794	4029	4279	4546	6.5%
Real Imports	3088	3265	3460	3676	3907	4153	4433	4715	5018	5341	5670	6015	6.1%
Energy Intensity (thousand Btu per 1996 dollar of GDP)													
Delivered Energy	6.36	6.26	6.17	6.07	5.99	5.92	5.84	5.76	5.68	5.61	5.54	5.45	-1.4%
Total Energy	8.63	8.50	8.37	8.24	8.12	8.02	7.91	7.80	7.69	7.59	7.49	7.37	-1.5%
Price Indices													
GDP Chain-Type Price Index (1996=1.000)	1.458	1.503	1.550	1.600	1.655	1.713	1.774	1.838	1.905	1.975	2.046	2.121	2.9%
Consumer Price Index (1982-4=1.00)	2.37	2.44	2.52	2.60	2.69	2.79	2.89	3.00	3.11	3.23	3.36	3.49	2.9%
Wholesale Price Index (1982=1.00)													
All Commodities	1.55	1.57	1.60	1.63	1.66	1.70	1.74	1.78	1.82	1.86	1.90	1.94	1.7%
Fuel and Power	1.15	1.18	1.21	1.23	1.25	1.29	1.33	1.38	1.42	1.46	1.49	1.52	2.2%
Interest Rates (percent, nominal)													
Federal Funds Rate	5.74	5.74	5.74	5.74	6.23	6.26	6.30	6.33	6.36	6.40	6.69	7.00	N/A
10-Year Treasury Note	6.61	6.52	6.54	6.56	6.89	6.95	7.07	7.20	7.32	7.41	7.69	7.95	N/A
AA Utility Bond Rate	8.21	8.19	8.23	8.22	8.50	8.50	8.59	8.75	8.84	8.90	9.13	9.27	N/A
Unemployment Rate (percent)	4.35	4.53	4.57	4.52	4.46	4.41	4.41	4.43	4.44	4.44	4.42	4.44	N/A
Housing Starts (millions)	1.97	1.94	1.94	1.94	1.92	1.93	1.94	1.94	1.94	1.94	1.93	1.92	0.1%
Commercial Floorspace, Total (billion square feet)	88.8	89.9	91.1	92.3	93.5	94.7	95.9	97.1	98.2	99.3	100.5	101.8	1.5%
Unit Sales of Light-Duty Vehicles (millions)	18.60	18.71	18.98	19.35	19.72	20.00	20.25	20.25	20.41	20.67	20.97	21.32	1.0%
Value of Shipments (billion 1996 dollars)													
Total Industrial	7162	7345	7536	7749	7970	8140	8344	8526	8752	8988	9224	9491	2.6%
Non-Manufacturing	1561	1585	1605	1628	1664	1679	1710	1730	1763	1798	1825	1855	1.8%
Manufacturing	5601	5760	5932	6122	6307	6462	6634	6796	6988	7190	7399	7636	2.8%
Energy Intensive	1372	1393	1413	1436	1459	1479	1500	1519	1541	1563	1585	1610	1.6%
Non-Intensive	4229	4367	4518	4686	4848	4983	5135	5277	5448	5626	5814	6026	3.2%
Population and Employment (millions)													
Population, with Armed Forces Overseas	319.4	321.9	324.5	327.0	329.5	332.1	334.6	337.2	339.7	342.3	344.9	347.5	0.8%
Population, aged 16 and over	252.5	254.5	256.5	258.4	260.4	262.3	264.3	266.2	268.2	270.2	272.2	274.3	0.9%
Employment, Nonfarm	152.0	153.4	154.9	156.4	158.1	159.7	161.2	162.6	164.1	165.5	167.0	168.6	1.1%
Employment, Manufacturing	16.2	16.2	16.1	16.1	16.1	16.1	16.0	16.0	16.0	16.1	16.2	16.2	-0.1%
Labor Force	165.0	166.3	167.1	168.0	169.1	170.2	171.3	172.1	172.8	173.7	175.0	176.8	0.9%

**Table 20. Macroeconomic Indicators
(Billion 1996 Chain-Weighted Dollars, Unless Otherwise Noted)**

GDP = Gross domestic product.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 2001 and 2002: Global Insight macroeconomic model T250803. Projections: Energy Information Administration, AEO2004 National Energy Modeling System run AEO2004.D101703E.

Table 21. International Petroleum Supply and Disposition Summary
(Million Barrels per Day, KUnless Otherwise Noted)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
World Oil Price (2002 dollars per barrel) 1/	22.25	23.68	27.25	23.84	23.30	23.47	23.65	23.83	24.00	24.17	24.37
Production (Conventional) 2/											
Industrialized Countries											
U.S. (50 states)	8.84	9.16	8.69	9.02	9.31	9.42	9.63	9.69	9.65	9.53	9.41
Canada	2.09	2.14	2.13	2.11	2.10	2.06	2.02	1.97	1.90	1.83	1.78
Mexico	3.62	3.61	3.67	3.72	3.78	3.87	3.95	4.03	4.12	4.20	4.27
Western Europe 3/	6.82	6.76	6.67	6.59	6.50	6.47	6.43	6.40	6.37	6.34	6.25
Japan	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08
Australia and New Zealand	0.79	0.75	0.79	0.83	0.86	0.88	0.90	0.92	0.94	0.96	0.94
Total Industrialized	22.24	22.51	22.03	22.35	22.64	22.78	23.01	23.10	23.05	22.93	22.72
Eurasia											
Former Soviet Union											
Russia	7.30	7.67	8.24	8.60	9.17	9.36	9.56	9.76	9.86	9.92	9.97
Caspian Area 4/	1.48	1.66	1.75	1.84	1.93	2.17	2.40	2.64	2.88	3.12	3.37
Eastern Europe 5/	0.24	0.23	0.25	0.28	0.30	0.31	0.31	0.32	0.33	0.33	0.34
Total Eurasia	9.02	9.56	10.25	10.72	11.40	11.83	12.28	12.72	13.07	13.37	13.69
Developing Countries											
OPEC 6/											
Asia	1.41	1.36	1.34	1.32	1.30	1.28	1.27	1.26	1.26	1.26	1.26
Middle East	20.99	20.79	20.93	21.05	21.18	21.69	22.15	22.72	23.36	24.18	24.89
North Africa	3.09	2.99	2.95	2.90	2.85	2.86	2.86	2.88	2.90	2.95	2.98
West Africa	2.06	2.02	2.01	2.00	1.99	2.02	2.05	2.09	2.13	2.19	2.27
South America	2.63	2.55	2.51	2.47	2.43	2.46	2.49	2.53	2.58	2.65	2.67
Non-OPEC											
China	3.30	3.39	3.42	3.44	3.47	3.50	3.53	3.56	3.59	3.62	3.59
Other Asia	2.46	2.50	2.51	2.53	2.54	2.55	2.57	2.59	2.61	2.63	2.65
Middle East 7/	2.02	1.96	1.98	1.99	2.01	2.05	2.10	2.15	2.19	2.24	2.28
Africa	2.77	2.89	3.01	3.13	3.24	3.34	3.43	3.52	3.62	3.71	3.91
South and Central America	3.70	3.79	3.90	4.01	4.12	4.19	4.27	4.35	4.43	4.50	4.67
Total Developing Country	44.44	44.24	44.54	44.82	45.12	45.95	46.72	47.64	48.66	49.94	51.18
Total Production (Conventional)	75.70	76.30	76.82	77.89	79.15	80.56	82.01	83.46	84.77	86.24	87.59
Production (Nonconventional) 8/											
U.S. (50 states)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other North America	0.72	0.79	0.86	0.93	1.00	1.11	1.23	1.37	1.52	1.69	1.89
Western Europe	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Asia	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Middle East	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Africa	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20
South and Central America	0.49	0.54	0.58	0.63	0.68	0.71	0.75	0.78	0.82	0.85	0.94
Total Production (Nonconventional)	1.42	1.55	1.67	1.80	1.92	2.08	2.24	2.41	2.61	2.81	3.11
Total Production	77.12	77.85	78.50	79.69	81.08	82.64	84.25	85.88	87.38	89.05	90.70
Consumption 9/											
Industrialized Countries											
U.S. (50 states)	19.71	19.61	19.89	20.16	20.84	21.29	21.69	22.09	22.38	22.71	23.10
U.S. Territories	0.28	0.29	0.31	0.33	0.34	0.35	0.36	0.37	0.37	0.38	0.39
Canada	1.91	1.96	2.00	2.05	2.10	2.13	2.15	2.18	2.21	2.23	2.25

Table 21. International Petroleum Supply and Disposition Summary
(Million Barrels per Day, KUnless Otherwise Noted)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Mexico	1.94	2.01	2.09	2.16	2.24	2.32	2.40	2.49	2.57	2.65	2.76
Western Europe	13.98	14.02	14.05	14.08	14.11	14.16	14.21	14.26	14.31	14.36	14.42
Japan	5.42	5.45	5.48	5.51	5.54	5.59	5.64	5.69	5.74	5.79	5.85
Australia and New Zealand	1.01	1.04	1.08	1.11	1.14	1.17	1.20	1.23	1.25	1.28	1.31
Total Industrialized	44.25	44.39	44.90	45.41	46.32	47.02	47.65	48.30	48.83	49.41	50.07
Eurasia											
Former Soviet Union	3.90	4.05	4.21	4.36	4.52	4.64	4.75	4.87	4.98	5.10	5.13
Eastern Europe	1.41	1.44	1.48	1.51	1.55	1.58	1.62	1.66	1.70	1.74	1.78
Total Eurasia	5.30	5.49	5.68	5.87	6.07	6.22	6.38	6.53	6.69	6.84	6.92
Developing Countries											
China	4.97	5.11	5.24	5.37	5.49	5.69	5.89	6.09	6.29	6.48	6.72
India	2.13	2.16	2.20	2.23	2.27	2.37	2.48	2.59	2.69	2.80	2.95
South Korea	2.14	2.20	2.26	2.32	2.38	2.45	2.53	2.60	2.68	2.75	2.80
Other Asia	5.53	5.63	5.74	5.84	5.94	6.08	6.22	6.36	6.50	6.65	6.88
Middle East 7/	5.36	5.34	5.32	5.30	5.43	5.44	5.61	5.77	5.93	6.19	6.26
Africa	2.58	2.56	2.54	2.52	2.44	2.53	2.57	2.61	2.65	2.68	2.72
South and Central America	4.87	4.91	4.94	4.98	5.03	5.12	5.22	5.33	5.43	5.54	5.68
Total Developing Countries	27.59	27.91	28.23	28.55	28.99	29.70	30.52	31.34	32.17	33.10	34.01
Total Consumption	77.14	77.79	78.82	79.84	81.38	82.93	84.55	86.17	87.68	89.35	91.00
OPEC Production 10/	30.55	30.11	30.17	30.21	30.27	30.86	31.39	32.07	32.85	33.89	34.80
Non-OPEC Production 10/	46.56	47.74	48.32	49.48	50.81	51.78	52.86	53.80	54.53	55.16	55.90
Net Eurasia Exports	3.73	4.08	4.58	4.86	5.34	5.62	5.92	6.21	6.40	6.54	6.79
OPEC Market Share	0.40	0.39	0.38	0.38	0.37	0.37	0.37	0.37	0.38	0.38	0.38

Table 21. International Petroleum Supply and Disposition Summary
(Million Barrels per Day, KUnless Otherwise Noted)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
World Oil Price (2002 dollars per barrel) 1/	24.53	24.72	24.90	25.07	25.26	25.45	25.64	25.84	26.02	26.21	26.40
Production (Conventional) 2/											
Industrialized Countries											
U.S. (50 states)	9.35	9.32	9.26	9.25	9.14	9.04	9.11	9.04	8.89	8.76	8.64
Canada	1.75	1.69	1.66	1.64	1.63	1.63	1.62	1.61	1.60	1.59	1.59
Mexico	4.33	4.40	4.46	4.53	4.54	4.56	4.57	4.59	4.60	4.64	4.69
Western Europe 3/	6.15	6.06	5.97	5.87	5.80	5.72	5.64	5.56	5.48	5.38	5.28
Japan	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06
Australia and New Zealand	0.94	0.92	0.92	0.91	0.90	0.90	0.89	0.89	0.88	0.88	0.87
Total Industrialized	22.60	22.47	22.35	22.28	22.09	21.91	21.90	21.75	21.52	21.32	21.14
Eurasia											
Former Soviet Union											
Russia	10.11	10.29	10.44	10.52	10.58	10.65	10.70	10.73	10.77	10.80	10.84
Caspian Area 4/	3.63	3.89	4.15	4.40	4.55	4.70	4.85	5.00	5.15	5.34	5.53
Eastern Europe 5/	0.35	0.36	0.37	0.37	0.38	0.39	0.40	0.40	0.41	0.42	0.43
Total Eurasia	14.09	14.54	14.95	15.30	15.52	15.74	15.95	16.13	16.32	16.56	16.80
Developing Countries											
OPEC 6/											
Asia	1.26	1.26	1.25	1.25	1.26	1.27	1.27	1.27	1.29	1.30	1.30
Middle East	25.60	26.26	26.87	27.51	28.63	29.81	30.89	32.04	33.39	34.66	36.01
North Africa	3.01	3.04	3.06	3.09	3.17	3.26	3.33	3.42	3.52	3.59	3.67
West Africa	2.36	2.44	2.51	2.59	2.67	2.75	2.82	2.91	3.01	3.07	3.15
South America	2.68	2.70	2.70	2.72	2.81	2.91	3.00	3.10	3.23	3.35	3.48
Non-OPEC											
China	3.56	3.53	3.50	3.47	3.47	3.46	3.46	3.46	3.45	3.44	3.42
Other Asia	2.67	2.69	2.71	2.74	2.72	2.71	2.70	2.69	2.67	2.66	2.64
Middle East 7/	2.33	2.37	2.42	2.46	2.48	2.50	2.52	2.54	2.56	2.60	2.64
Africa	4.10	4.29	4.49	4.68	4.82	4.95	5.08	5.21	5.34	5.56	5.77
South and Central America	4.84	5.00	5.17	5.34	5.44	5.55	5.65	5.75	5.86	5.96	6.05
Total Developing Country	52.41	53.58	54.69	55.84	57.47	59.16	60.72	62.39	64.32	66.18	68.15
Total Production (Conventional)	89.10	90.60	91.99	93.42	95.07	96.82	98.57	100.27	102.17	104.07	106.08
Production (Nonconventional) 8/											
U.S. (50 states)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other North America	2.12	2.37	2.65	2.97	3.02	3.06	3.11	3.15	3.20	3.22	3.23
Western Europe	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Asia	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Middle East	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Africa	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.25	0.26	0.26
South and Central America	1.02	1.11	1.19	1.27	1.30	1.33	1.36	1.39	1.42	1.42	1.43
Total Production (Nonconventional)	3.43	3.77	4.14	4.55	4.63	4.71	4.80	4.88	4.97	5.00	5.03
Total Production	92.53	94.37	96.13	97.97	99.70	101.53	103.36	105.15	107.13	109.06	111.11
Consumption 9/											
Industrialized Countries											
U.S. (50 states)	23.57	24.04	24.44	24.80	25.12	25.46	25.78	26.09	26.41	26.78	27.13
U.S. Territories	0.39	0.39	0.40	0.40	0.41	0.41	0.42	0.42	0.43	0.44	0.44
Canada	2.27	2.28	2.30	2.32	2.32	2.33	2.34	2.35	2.36	2.38	2.40

Table 21. International Petroleum Supply and Disposition Summary
(Million Barrels per Day, KUnless Otherwise Noted)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Mexico	2.87	2.98	3.08	3.19	3.28	3.37	3.45	3.54	3.62	3.72	3.81
Western Europe	14.47	14.53	14.59	14.64	14.68	14.71	14.74	14.77	14.80	14.89	14.98
Japan	5.90	5.96	6.02	6.07	6.11	6.15	6.19	6.23	6.26	6.32	6.37
Australia and New Zealand	1.34	1.37	1.40	1.43	1.46	1.49	1.52	1.55	1.58	1.61	1.65
Total Industrialized	50.81	51.55	52.23	52.86	53.39	53.92	54.44	54.95	55.47	56.13	56.78
Eurasia											
Former Soviet Union	5.17	5.20	5.23	5.26	5.36	5.45	5.54	5.63	5.73	5.83	5.93
Eastern Europe	1.83	1.87	1.92	1.96	2.01	2.06	2.11	2.16	2.21	2.28	2.34
Total Eurasia	6.99	7.07	7.15	7.22	7.37	7.51	7.65	7.80	7.94	8.11	8.28
Developing Countries											
China	6.96	7.20	7.44	7.68	8.02	8.35	8.68	9.01	9.39	9.64	9.94
India	3.09	3.24	3.38	3.53	3.71	3.90	4.09	4.28	4.47	4.67	4.88
South Korea	2.85	2.90	2.94	2.99	3.02	3.05	3.08	3.11	3.15	3.18	3.22
Other Asia	7.11	7.34	7.58	7.81	8.04	8.26	8.48	8.70	8.93	9.17	9.42
Middle East 7/	6.43	6.60	6.77	6.98	7.11	7.28	7.46	7.63	7.87	8.00	8.20
Africa	2.76	2.80	2.84	2.91	2.93	2.99	3.04	3.10	3.16	3.21	3.26
South and Central America	5.82	5.97	6.11	6.28	6.41	6.56	6.72	6.87	7.03	7.22	7.41
Total Developing Countries	35.03	36.04	37.06	38.19	39.24	40.40	41.55	42.71	44.00	45.10	46.32
Total Consumption	92.83	94.67	96.44	98.27	99.99	101.83	103.65	105.45	107.40	109.34	111.39
OPEC Production 10/	35.70	36.54	37.31	38.12	39.53	41.01	42.36	43.81	45.51	47.06	48.71
Non-OPEC Production 10/	56.83	57.83	58.82	59.85	60.17	60.52	61.01	61.34	61.62	62.00	62.40
Net Eurasia Exports	7.11	7.48	7.82	8.09	8.17	8.25	8.31	8.35	8.40	8.47	8.54
OPEC Market Share	0.39	0.39	0.39	0.39	0.40	0.40	0.41	0.42	0.42	0.43	0.44

Table 21. International Petroleum Supply and Disposition Summary
(Million Barrels per Day, KUnless Otherwise Noted)

	2023	2024	2025	2002- 2025
World Oil Price (2002 dollars per barrel) 1/	26.60	26.79	27.00	0.6%
Production (Conventional) 2/				
Industrialized Countries				
U.S. (50 states)	8.70	8.72	8.59	-0.3%
Canada	1.58	1.58	1.57	-1.3%
Mexico	4.73	4.77	4.82	1.3%
Western Europe 3/	5.18	5.08	4.97	-1.3%
Japan	0.06	0.06	0.06	-1.1%
Australia and New Zealand	0.87	0.86	0.86	0.6%
Total Industrialized	21.12	21.07	20.87	-0.3%
Eurasia				
Former Soviet Union				
Russia	10.87	10.91	10.93	1.6%
Caspian Area 4/	5.72	5.92	6.11	5.8%
Eastern Europe 5/	0.43	0.44	0.45	3.0%
Total Eurasia	17.03	17.27	17.48	2.7%
Developing Countries				
OPEC 6/				
Asia	1.31	1.32	1.33	-0.1%
Middle East	37.24	38.50	40.07	2.9%
North Africa	3.74	3.81	3.90	1.2%
West Africa	3.21	3.28	3.37	2.3%
South America	3.60	3.72	3.88	1.9%
Non-OPEC				
China	3.40	3.38	3.37	0.0%
Other Asia	2.63	2.61	2.60	0.2%
Middle East 7/	2.68	2.72	2.77	1.5%
Africa	5.99	6.21	6.42	3.5%
South and Central America	6.15	6.25	6.35	2.3%
Total Developing Country	69.96	71.80	74.05	2.3%
Total Production (Conventional)	108.11	110.14	112.41	1.7%
Production (Nonconventional) 8/				
U.S. (50 states)	0.00	0.00	0.00	N/A
Other North America	3.25	3.27	3.28	6.4%
Western Europe	0.04	0.04	0.04	0.8%
Asia	0.03	0.03	0.03	1.3%
Middle East	0.02	0.03	0.03	6.8%
Africa	0.27	0.28	0.28	2.6%
South and Central America	1.44	1.44	1.45	4.4%
Total Production (Nonconventional)	5.06	5.09	5.11	5.3%
Total Production	113.17	115.23	117.53	1.8%
Consumption 9/				
Industrialized Countries				
U.S. (50 states)	27.48	27.88	28.30	1.6%
U.S. Territories	0.45	0.46	0.47	2.1%
Canada	2.41	2.43	2.44	1.0%

Table 21. International Petroleum Supply and Disposition Summary
(Million Barrels per Day, KUnless Otherwise Noted)

	2023	2024	2025	2002- 2025
Mexico	3.90	4.00	4.09	3.1%
Western Europe	15.08	15.17	15.26	0.4%
Japan	6.43	6.49	6.54	0.8%
Australia and New Zealand	1.68	1.71	1.75	2.3%
Total Industrialized	57.44	58.14	58.85	1.2%
Eurasia				
Former Soviet Union	6.04	6.14	6.25	1.9%
Eastern Europe	2.41	2.47	2.54	2.5%
Total Eurasia	8.45	8.62	8.79	2.1%
Developing Countries				
China	10.24	10.54	10.88	3.3%
India	5.08	5.28	5.48	4.1%
South Korea	3.25	3.28	3.32	1.8%
Other Asia	9.66	9.91	10.17	2.6%
Middle East 7/	8.40	8.61	8.88	2.2%
Africa	3.32	3.38	3.50	1.4%
South and Central America	7.60	7.79	7.99	2.1%
Total Developing Countries	47.55	48.78	50.22	2.6%
Total Consumption	113.44	115.54	117.86	1.8%
OPEC Production 10/	50.21	51.73	53.67	2.5%
Non-OPEC Production 10/	62.96	63.49	63.86	1.3%
Net Eurasia Exports	8.60	8.67	8.71	3.4%
OPEC Market Share	0.44	0.45	0.46	0.7%

Table 21. International Petroleum Supply and Disposition Summary
(Million Barrels per Day, Unless Otherwise Noted)

1/ Average refiner acquisition cost of imported crude oil.

2/ Includes production of crude oil (including lease condensates), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, alcohol and other sources, and refinery gains.

3/ Western Europe = Austria, Belgium, Bosnia and Herzegovina, Croatia, Denmark, Finland, France, the unified Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Macedonia, Netherlands, Norway, Portugal, Slovenia, Spain, Sweden, Switzerland, United Kingdom, and Yugoslavia.

4/ Caspian Area includes Other Former Soviet Union.

5/ Eastern Europe = Albania, Bulgaria, Czech Republic, Hungary, Poland, Romania, and Slovakia.

6/ OPEC = Organization of Petroleum Exporting Countries - Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

7/ Non-OPEC Middle East includes Turkey.

8/ Includes liquids produced from energy crops, natural gas, coal, oil sands, and shale. Includes both OPEC and non-OPEC producers in the regional breakdown.

9/ Includes both OPEC and non-OPEC consumers in the regional breakdown.

10/ Includes both conventional and nonconventional liquids production.

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.

N/A = Not applicable.

Sources: 2001 data derived from: Energy Information Administration (EIA), International Energy Annual 2001, DOE/EIA-0219(2001) (Washington, DC, February 2003).
2002 and projections: EIA, AEO2004 National Energy Modeling System run AEO2004.D101703E.