

**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	12.05	12.31	12.42	12.81	13.20	13.32	13.26	13.06	12.85
Natural Gas Plant Liquids	2.55	2.56	2.35	2.70	3.02	3.05	3.11	3.13	3.13	3.20	3.23
Dry Natural Gas	20.23	19.56	20.06	20.00	20.39	20.60	21.03	21.23	21.35	21.87	22.19
Coal	23.97	22.70	22.67	23.09	23.48	24.01	24.44	24.59	25.03	25.30	25.62
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	5.97	6.41	6.52	6.66	6.78	6.90	7.02	7.21	7.36
Other 2/	0.53	1.13	0.94	0.98	0.83	0.87	0.88	0.90	0.91	0.84	0.78
Total	72.72	71.85	72.00	73.63	74.93	76.29	77.75	78.39	78.96	79.77	80.39
Imports											
Crude Oil 3/	20.26	19.84	20.68	21.15	20.83	20.66	20.91	21.11	21.57	22.16	22.67
Petroleum Products 4/	5.04	4.75	4.87	5.26	4.64	4.82	4.58	4.72	4.56	4.59	4.83
Natural Gas	4.06	4.10	4.29	4.50	4.81	5.22	5.42	5.94	6.26	6.34	6.53
Other Imports 5/	0.59	0.52	0.69	0.71	0.77	0.80	0.84	0.88	0.92	0.96	0.98
Total	29.95	29.21	30.53	31.62	31.03	31.49	31.76	32.66	33.30	34.04	35.00
Exports											
Petroleum 6/	2.01	2.03	2.03	2.08	2.03	2.06	2.07	2.07	2.08	2.09	2.08
Natural Gas	0.38	0.52	0.70	0.81	0.82	0.84	0.86	0.89	0.91	0.92	0.93
Coal	1.26	1.03	1.07	1.04	1.02	0.99	0.97	0.95	0.92	0.89	0.87
Total	3.65	3.58	3.79	3.93	3.86	3.90	3.91	3.91	3.91	3.90	3.88
Discrepancy 7/	2.09	-0.24	0.66	1.21	0.19	0.18	0.21	0.25	0.30	0.30	0.30
Consumption											
Petroleum Products 8/	38.49	38.11	38.78	39.15	39.43	39.87	40.35	40.84	41.12	41.56	42.13
Natural Gas	23.05	23.37	22.63	23.73	24.45	25.06	25.63	26.27	26.63	27.22	27.69
Coal	22.04	22.18	22.60	22.57	23.15	23.74	24.24	24.46	24.93	25.22	25.57
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	5.97	6.41	6.52	6.66	6.78	6.91	7.02	7.21	7.36
Other 9/	0.08	0.07	0.14	0.11	0.11	0.10	0.09	0.10	0.10	0.11	0.11
Total	96.94	97.72	98.09	100.10	101.92	103.71	105.39	106.89	108.05	109.61	111.22
Net Imports - Petroleum	23.29	22.56	23.52	24.33	23.44	23.41	23.42	23.76	24.05	24.66	25.42
Prices (2002 dollars per unit)											
World Oil Price (dollars per barrel) 10/	22.25	23.68	29.16	30.80	31.16	31.61	32.03	32.43	32.90	33.27	33.61
Natural Gas Wellhead Price (dollars per Mcf) 11/	4.14	2.95	4.97	3.90	3.62	3.58	3.61	3.70	3.53	3.50	3.66
Coal Minemouth Price (dollars per ton)	17.79	17.90	17.76	17.58	17.52	17.42	17.20	17.21	17.23	17.14	16.95
Average Electricity (cents per kilowatthour)	7.4	7.2	7.1	7.0	6.9	6.8	6.7	6.7	6.7	6.7	6.7

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(Quadrillion Btu per Year, Unless Otherwise Noted)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Production											
Crude Oil & Lease Condensate	12.59	12.44	12.39	12.44	12.31	12.08	12.15	11.95	11.59	11.33	11.12
Natural Gas Plant Liquids	3.25	3.28	3.30	3.30	3.36	3.45	3.54	3.58	3.62	3.62	3.62
Dry Natural Gas	22.47	22.74	22.96	23.03	23.52	24.19	24.94	25.33	25.62	25.64	25.67
Coal	25.69	25.93	26.31	26.65	27.03	27.44	27.85	28.43	29.21	29.63	30.10
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/	7.51	7.64	7.76	7.87	7.98	8.09	8.18	8.31	8.41	8.54	8.66
Other 2/	0.76	0.75	0.75	0.74	0.75	0.75	0.74	0.75	0.77	0.77	0.76
Total	80.65	81.19	81.91	82.51	83.46	84.53	85.93	86.88	87.75	88.07	88.45
Imports											
Crude Oil 3/	23.43	24.02	24.47	24.57	25.44	25.99	26.42	27.04	27.85	28.54	29.14
Petroleum Products 4/	4.94	5.17	5.27	4.84	5.06	5.29	5.50	5.41	5.47	5.60	5.52
Natural Gas	6.83	6.90	6.98	7.29	7.35	7.27	7.11	6.99	6.92	7.05	7.29
Other Imports 5/	1.00	1.03	1.05	1.07	1.07	1.08	1.10	1.08	1.12	1.13	1.15
Total	36.21	37.11	37.77	37.77	38.92	39.63	40.13	40.53	41.36	42.33	43.11
Exports											
Petroleum 6/	2.07	2.07	2.07	2.05	2.09	2.08	2.10	2.09	2.09	2.08	2.07
Natural Gas	0.93	0.93	0.92	0.94	0.95	0.96	0.98	0.99	1.01	1.01	1.02
Coal	0.80	0.78	0.79	0.80	0.81	0.81	0.82	0.77	0.75	0.68	0.68
Total	3.80	3.78	3.79	3.79	3.85	3.86	3.89	3.86	3.84	3.77	3.77
Discrepancy 7/	0.36	0.39	0.42	0.48	0.52	0.53	0.56	0.59	0.62	0.66	0.70
Consumption											
Petroleum Products 8/	42.74	43.41	44.00	43.73	44.72	45.40	46.16	46.54	47.14	47.68	47.93
Natural Gas	28.24	28.55	28.82	29.14	29.63	30.15	30.72	30.96	31.17	31.31	31.58
Coal	25.73	26.01	26.34	26.68	27.07	27.51	27.93	28.56	29.33	29.85	30.34
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/	7.51	7.64	7.76	7.87	7.98	8.09	8.18	8.31	8.41	8.54	8.66
Other 9/	0.11	0.11	0.11	0.12	0.11	0.10	0.09	0.07	0.07	0.06	0.05
Total	112.71	114.13	115.48	116.01	118.01	119.77	121.61	122.97	124.65	125.97	127.10
Net Imports - Petroleum	26.31	27.11	27.67	27.36	28.41	29.20	29.82	30.37	31.23	32.06	32.60
Prices (2002 dollars per unit)											
World Oil Price (dollars per barrel) 10/	33.82	34.01	34.16	34.23	34.30	34.39	34.47	34.55	34.63	34.70	34.79
Natural Gas Wellhead Price (dollars per Mcf) 11/	3.86	4.09	4.17	4.19	4.25	4.15	4.12	4.18	4.18	4.34	4.48
Coal Minemouth Price (dollars per ton)	16.86	16.78	16.55	16.44	16.40	16.43	16.69	16.84	16.96	16.92	16.93
Average Electricity (cents per kilowatthour)	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.8	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	11.07	10.77	10.27	-0.6%
Natural Gas Plant Liquids	3.56	3.60	3.60	1.5%
Dry Natural Gas	25.25	25.63	25.69	1.2%
Coal	30.92	31.38	31.86	1.5%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 1/ Other 2/	8.71	8.81	8.92	1.9%
	0.77	0.78	0.79	-1.6%
Total	88.81	89.49	89.67	1.0%
Imports				
Crude Oil 3/ Petroleum Products 4/	29.62	30.40	31.19	2.0%
	5.60	5.91	6.16	1.1%
Natural Gas	7.70	7.82	8.05	3.0%
Other Imports 5/	1.17	1.17	1.18	3.6%
Total	44.09	45.30	46.58	2.0%
Exports				
Petroleum 6/	2.07	2.07	2.05	0.1%
Natural Gas	1.02	1.01	1.00	2.9%
Coal	0.69	0.68	0.55	-2.7%
Total	3.78	3.77	3.61	0.0%
Discrepancy 7/	0.72	0.72	0.72	N/A
Consumption				
Petroleum Products 8/	48.34	49.20	49.83	1.2%
Natural Gas	31.59	32.08	32.39	1.4%
Coal	31.18	31.66	32.23	1.6%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 1/ Other 9/	8.71	8.81	8.92	1.9%
	0.04	0.03	0.03	-4.3%
Total	128.40	130.31	131.93	1.3%
Net Imports - Petroleum	33.15	34.24	35.30	2.0%
Prices (2002 dollars per unit)				
World Oil Price (dollars per barrel) 10/	34.87	34.95	35.03	1.7%
Natural Gas Wellhead Price (dollars per Mcf) 11/	4.52	4.57	4.66	2.0%
Coal Minemouth Price (dollars per ton)	16.78	16.89	16.80	-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 HW2004.D101703B.

**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	0.93	0.92	0.91	0.90	0.89	0.88	0.87
Kerosene	0.11	0.07	0.08	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10
Liquefied Petroleum Gas	0.50	0.53	0.50	0.51	0.51	0.52	0.52	0.53	0.53	0.53	0.54
Petroleum Subtotal	1.51	1.48	1.51	1.58	1.56	1.55	1.54	1.54	1.53	1.52	1.51
Natural Gas	4.92	5.06	5.21	5.32	5.35	5.42	5.48	5.56	5.61	5.68	5.72
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 4.56	0.40 4.63	0.41 4.72	0.40 4.78	0.40 4.86	0.40 4.93
Delivered Energy	10.91	11.28	11.52	11.76	11.82	11.95	12.07	12.24	12.34	12.47	12.59
Electricity Related Losses	9.28	9.60	9.69	9.77	9.88	10.01	10.15	10.30	10.33	10.44	10.54
Total	20.18	20.88	21.21	21.53	21.69	21.96	22.22	22.54	22.66	22.91	23.13
Commercial											
Distillate Fuel	0.49	0.49	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Residual Fuel	0.09	0.08	0.12	0.13	0.12	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	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Motor Gasoline 2/ Petroleum Subtotal	0.05 0.74	0.05 0.72	0.05 0.85	0.05 0.85	0.05 0.84	0.05 0.85	0.05 0.85	0.05 0.85	0.05 0.85	0.05 0.85	0.05 0.85
Natural Gas	3.33	3.21	3.26	3.20	3.26	3.34	3.40	3.45	3.52	3.58	3.63
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 4.67	0.10 4.79	0.10 4.90	0.10 5.02	0.10 5.14
Delivered Energy	8.34	8.25	8.44	8.52	8.71	8.93	9.11	9.28	9.47	9.65	9.82
Electricity Related Losses	9.24	9.15	9.17	9.41	9.71	9.98	10.22	10.44	10.58	10.79	11.00
Total	17.58	17.40	17.61	17.93	18.42	18.91	19.34	19.73	20.05	20.44	20.82
Industrial 4/											
Distillate Fuel	1.21	1.16	1.17	1.14	1.13	1.13	1.14	1.14	1.13	1.15	1.17
Liquefied Petroleum Gas	2.10	2.22	2.12	2.15	2.16	2.21	2.25	2.28	2.29	2.31	2.35
Petrochemical Feedstocks	1.16	1.22	1.27	1.27	1.28	1.30	1.32	1.33	1.32	1.33	1.35
Residual Fuel	0.15	0.20	0.21	0.21	0.19	0.19	0.19	0.19	0.18	0.18	0.18
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 8.88	4.00 8.93	3.98 8.97	3.97 9.03	4.01 9.11	4.00 9.08	4.00 9.13	4.01 9.22
Natural Gas	7.56	7.43	7.41	7.75	8.09	8.28	8.48	8.56	8.71	8.87	9.01
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.12 8.67	1.35 8.78	1.03 8.43	1.02 8.77	1.09 9.18	1.16 9.44	1.23 9.71	1.30 9.86	1.36 10.07	1.44 10.31	1.47 10.48
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.66	0.66	0.65	0.64	0.63
Steam Coal	1.51	1.47	1.40	1.40	1.40	1.41	1.41	1.40	1.43	1.46	1.50
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	2.10	2.12	2.14
Renewable Energy 7/	1.64	1.66	1.66	1.72	1.78	1.82	1.86	1.90	1.94	1.99	2.04
Electricity	3.29	3.39	3.34	3.41	3.49	3.58	3.65	3.70	3.75	3.81	3.88
Delivered Energy	24.89	24.94	24.51	24.90	25.48	25.91	26.35	26.65	26.94	27.35	27.76
Electricity Related Losses	7.44	7.53	7.39	7.51	7.67	7.86	7.99	8.07	8.10	8.18	8.30
Total	32.33	32.47	31.91	32.41	33.15	33.77	34.34	34.72	35.04	35.53	36.06
Transportation											
Distillate Fuel 8/	5.32	5.12	5.16	5.36	5.55	5.73	5.90	6.04	6.19	6.36	6.54
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.43	3.54	3.62	3.72	3.80	3.90	3.98
Motor Gasoline 2/	16.17	16.62	16.95	17.53	17.64	17.75	17.90	18.06	18.20	18.33	18.53
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	0.04	0.05	0.05	0.05	0.05
Other Petroleum 10/	0.19	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26
Petroleum Subtotal	25.96	26.06	26.41	27.28	27.69	28.09	28.50	28.91	29.29	29.69	30.15
Pipeline Fuel Natural Gas	0.64	0.65	0.68	0.66	0.67	0.67	0.68	0.69	0.69	0.71	0.72
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	0.08	0.09	0.09	0.09
Delivered Energy	26.69	26.79	27.18	28.05	28.47	28.88	29.31	29.72	30.12	30.54	31.02
Electricity Related Losses	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19
Total	26.85	26.96	27.35	28.22	28.65	29.06	29.49	29.91	30.31	30.73	31.21
Delivered Energy Consumption, All Sectors											
Distillate Fuel	7.92	7.66	7.83	8.01	8.17	8.34	8.50	8.65	8.78	8.95	9.14
Kerosene	0.15	0.09	0.11	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.43	3.54	3.62	3.72	3.80	3.90	3.98
Liquefied Petroleum Gas	2.70	2.86	2.73	2.78	2.81	2.85	2.91	2.95	2.96	2.99	3.03
Motor Gasoline 2/	16.37	16.83	17.16	17.73	17.85	17.96	18.11	18.26	18.40	18.54	18.74
Petrochemical Feedstocks	1.16	1.22	1.27	1.27	1.28	1.30	1.32	1.33	1.32	1.33	1.35
Residual Fuel	1.07	1.00	1.10	1.12	1.09	1.10	1.10	1.10	1.10	1.11	1.11
Other Petroleum 12/	4.45	4.26	4.28	4.18	4.23	4.20	4.20	4.24	4.22	4.23	4.25
Petroleum Subtotal	37.25	37.26	37.74	38.59	39.01	39.45	39.92	40.40	40.74	41.18	41.73
Natural Gas	15.81	15.71	15.90	16.29	16.72	17.08	17.41	17.62	17.89	18.19	18.43
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.09	1.16	1.23	1.30	1.36	1.44	1.47
Pipeline Natural Gas	0.64	0.65	0.68	0.66	0.67	0.67	0.68	0.69	0.69	0.71	0.72
Natural Gas Subtotal	17.57	17.72	17.60	17.98	18.49	18.92	19.32	19.61	19.94	20.34	20.61
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.66	0.66	0.65	0.64	0.63
Steam Coal	1.62	1.58	1.51	1.51	1.52	1.52	1.52	1.52	1.54	1.57	1.61
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
Coal Subtotal	2.36	2.23	2.22	2.22	2.22	2.21	2.20	2.19	2.21	2.23	2.25
Renewable Energy 13/	2.09	2.15	2.17	2.23	2.28	2.33	2.37	2.40	2.44	2.49	2.54
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	12.21	12.48	12.77	13.03	13.29	13.53	13.78	14.05
Delivered Energy	70.83	71.27	71.65	73.22	74.49	75.67	76.84	77.89	78.86	80.02	81.19

**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	26.88	27.43	28.04	28.55	29.00	29.19	29.59	30.03
Total	96.94	97.72	98.09	100.10	101.92	103.71	105.39	106.89	108.05	109.61	111.22
Electric Generators 14/											
Distillate Fuel	0.33	0.16	0.19	0.17	0.18	0.17	0.17	0.17	0.12	0.12	0.12
Residual Fuel	0.91	0.69	0.85	0.38	0.24	0.25	0.26	0.27	0.25	0.25	0.28
Petroleum Subtotal	1.25	0.85	1.04	0.55	0.42	0.42	0.43	0.44	0.37	0.37	0.40
Natural Gas	5.48	5.65	5.03	5.76	5.95	6.14	6.31	6.66	6.69	6.88	7.08
Steam Coal	19.68	19.96	20.39	20.35	20.93	21.53	22.04	22.27	22.72	22.99	23.32
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	3.80	4.18	4.24	4.33	4.41	4.50	4.58	4.72	4.82
Electricity Imports	0.08	0.07	0.14	0.11	0.11	0.10	0.09	0.10	0.10	0.11	0.11
Total	37.67	38.36	38.36	39.09	39.92	40.80	41.58	42.29	42.72	43.37	44.08
Total Energy Consumption											
Distillate Fuel	8.26	7.82	8.02	8.19	8.35	8.52	8.68	8.82	8.90	9.07	9.25
Kerosene	0.15	0.09	0.11	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Jet Fuel 9/	3.43	3.34	3.26	3.34	3.43	3.54	3.62	3.72	3.80	3.90	3.98
Liquefied Petroleum Gas	2.70	2.86	2.73	2.78	2.81	2.85	2.91	2.95	2.96	2.99	3.03
Motor Gasoline 2/	16.37	16.83	17.16	17.73	17.85	17.96	18.11	18.26	18.40	18.54	18.74
Petrochemical Feedstocks	1.16	1.22	1.27	1.27	1.28	1.30	1.32	1.33	1.32	1.33	1.35
Residual Fuel	1.98	1.69	1.95	1.50	1.33	1.35	1.36	1.37	1.35	1.36	1.39
Other Petroleum 12/	4.45	4.26	4.28	4.18	4.23	4.20	4.20	4.24	4.22	4.23	4.25
Petroleum Subtotal	38.49	38.11	38.78	39.15	39.43	39.87	40.35	40.84	41.12	41.56	42.13
Natural Gas	21.30	21.36	20.93	22.05	22.68	23.22	23.72	24.29	24.57	25.06	25.51
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.09	1.16	1.23	1.30	1.36	1.44	1.47
Pipeline Natural Gas	0.64	0.65	0.68	0.66	0.67	0.67	0.68	0.69	0.69	0.71	0.72
Natural Gas Subtotal	23.05	23.37	22.63	23.73	24.45	25.06	25.63	26.27	26.63	27.22	27.69
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.66	0.66	0.65	0.64	0.63
Steam Coal	21.30	21.54	21.90	21.86	22.45	23.05	23.56	23.78	24.26	24.57	24.93
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01
Coal Subtotal	22.04	22.18	22.60	22.57	23.15	23.74	24.24	24.46	24.93	25.22	25.57
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	5.97	6.41	6.52	6.66	6.78	6.91	7.02	7.21	7.36
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	0.11	0.11	0.10	0.09	0.10	0.10	0.11	0.11
Total	96.94	97.72	98.09	100.10	101.92	103.71	105.39	106.89	108.05	109.61	111.22
Energy Use & Related Statistics											
Delivered Energy Use	70.83	71.27	71.65	73.22	74.49	75.67	76.84	77.89	78.86	80.02	81.19
Total Energy Use	96.94	97.72	98.09	100.10	101.92	103.71	105.39	106.89	108.05	109.61	111.22
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	10010	10364	10726	11101	11468	11807	12147	12503
Carbon Dioxide Emissions (million metric tons)	5691.7	5729.3	5745.5	5819.5	5924.1	6039.5	6146.6	6232.1	6314.3	6400.5	6494.1

**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	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78
Kerosene	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09
Liquefied Petroleum Gas	0.54	0.54	0.55	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58
Petroleum Subtotal	1.51	1.50	1.50	1.49	1.49	1.48	1.48	1.47	1.47	1.46	1.45
Natural Gas	5.77	5.77	5.79	5.83	5.89	5.93	5.99	6.04	6.10	6.12	6.15
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	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
Delivered Energy	12.72	12.76	12.84	12.95	13.09	13.18	13.31	13.44	13.59	13.66	13.75
Electricity Related Losses	10.67	10.73	10.80	10.89	11.02	11.10	11.18	11.31	11.45	11.51	11.62
Total	23.38	23.49	23.64	23.84	24.11	24.29	24.50	24.75	25.04	25.17	25.36
Commercial											
Distillate Fuel	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.57
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	0.09	0.09	0.09	0.09	0.09	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
Petroleum Subtotal	0.85	0.85	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.87
Natural Gas	3.66	3.68	3.71	3.75	3.79	3.84	3.90	3.95	4.01	4.05	4.09
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	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Delivered Energy	5.26	5.38	5.49	5.61	5.72	5.84	5.96	6.09	6.22	6.35	6.46
Electricity Related Losses	11.19	11.38	11.54	11.71	11.88	12.09	12.27	12.51	12.71	12.90	13.09
Total	21.16	21.50	21.79	22.12	22.44	22.83	23.20	23.61	23.99	24.36	24.70
Industrial 4/											
Distillate Fuel	1.18	1.21	1.22	1.24	1.25	1.27	1.28	1.30	1.31	1.33	1.35
Liquefied Petroleum Gas	2.38	2.42	2.44	2.47	2.51	2.55	2.59	2.62	2.66	2.68	2.71
Petrochemical Feedstocks	1.37	1.39	1.40	1.41	1.43	1.46	1.48	1.49	1.51	1.52	1.54
Residual Fuel	0.19	0.19	0.19	0.19	0.20	0.20	0.19	0.20	0.20	0.20	0.20
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	4.06	4.12	4.17	4.18	4.24	4.28	4.34	4.36	4.42	4.47	4.51
Petroleum Subtotal	9.34	9.50	9.59	9.65	9.80	9.93	10.05	10.15	10.27	10.38	10.48
Natural Gas	9.09	9.17	9.25	9.35	9.49	9.65	9.81	9.93	10.06	10.16	10.28
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.48	1.50	1.52	1.53	1.56	1.61	1.67	1.70	1.72	1.72	1.73
Natural Gas Subtotal	10.58	10.67	10.77	10.88	11.05	11.26	11.49	11.63	11.78	11.88	12.01
Metallurgical Coal	0.61	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.52	0.50	0.49
Steam Coal	1.50	1.51	1.57	1.57	1.58	1.58	1.59	1.59	1.66	1.66	1.66
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

**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	2.13	2.12	2.17	2.16	2.15	2.14	2.13	2.12	2.18	2.17	2.16
Renewable Energy 7/	2.09	2.15	2.20	2.24	2.29	2.34	2.39	2.42	2.46	2.50	2.54
Electricity	3.95	4.01	4.07	4.12	4.20	4.28	4.35	4.40	4.45	4.51	4.58
Delivered Energy	28.09	28.45	28.79	29.05	29.49	29.95	30.41	30.72	31.15	31.44	31.77
Electricity Related Losses	8.39	8.49	8.54	8.61	8.73	8.86	8.95	9.03	9.09	9.17	9.28
Total	36.48	36.93	37.33	37.66	38.22	38.80	39.36	39.74	40.24	40.62	41.05
Transportation											
Distillate Fuel 8/	6.70	6.86	7.01	7.11	7.27	7.42	7.57	7.69	7.84	7.97	8.11
Jet Fuel 9/	4.07	4.15	4.23	4.29	4.33	4.38	4.44	4.49	4.53	4.57	4.60
Motor Gasoline 2/	18.72	18.99	19.25	18.75	19.37	19.72	20.15	20.26	20.56	20.82	20.78
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	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07
Other Petroleum 10/	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30
Petroleum Subtotal	30.60	31.12	31.61	31.29	32.11	32.68	33.32	33.62	34.11	34.55	34.70
Pipeline Fuel Natural Gas	0.73	0.73	0.73	0.73	0.74	0.78	0.82	0.83	0.84	0.85	0.85
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	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11
Delivered Energy	31.49	32.02	32.51	32.20	33.04	33.65	34.34	34.65	35.15	35.60	35.76
Electricity Related Losses	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22
Total	31.68	32.21	32.71	32.40	33.24	33.86	34.55	34.86	35.37	35.82	35.98
Delivered Energy Consumption, All Sectors											
Distillate Fuel	9.31	9.48	9.64	9.75	9.92	10.08	10.23	10.36	10.51	10.65	10.81
Kerosene	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13
Jet Fuel 9/	4.07	4.15	4.23	4.29	4.33	4.38	4.44	4.49	4.53	4.57	4.60
Liquefied Petroleum Gas	3.07	3.12	3.14	3.17	3.23	3.28	3.32	3.36	3.40	3.43	3.46
Motor Gasoline 2/	18.94	19.21	19.46	18.97	19.59	19.94	20.38	20.49	20.79	21.05	21.02
Petrochemical Feedstocks	1.37	1.39	1.40	1.41	1.43	1.46	1.48	1.49	1.51	1.52	1.54
Residual Fuel	1.11	1.12	1.13	1.12	1.13	1.14	1.13	1.14	1.14	1.15	1.15
Other Petroleum 12/	4.30	4.36	4.41	4.43	4.49	4.54	4.60	4.62	4.69	4.74	4.79
Petroleum Subtotal	42.31	42.97	43.55	43.29	44.27	44.95	45.72	46.09	46.71	47.24	47.50
Natural Gas	18.59	18.70	18.83	19.00	19.25	19.51	19.79	20.01	20.27	20.43	20.61
Lease and Plant Fuel 6/	1.48	1.50	1.52	1.53	1.56	1.61	1.67	1.70	1.72	1.72	1.73
Pipeline Natural Gas	0.73	0.73	0.73	0.73	0.74	0.78	0.82	0.83	0.84	0.85	0.85
Natural Gas Subtotal	20.81	20.93	21.08	21.26	21.55	21.90	22.29	22.55	22.83	23.00	23.19
Metallurgical Coal	0.61	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.52	0.50	0.49
Steam Coal	1.61	1.62	1.68	1.68	1.69	1.69	1.70	1.70	1.76	1.77	1.77
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Coal Subtotal	2.24	2.23	2.28	2.27	2.26	2.25	2.24	2.23	2.29	2.28	2.27
Renewable Energy 13/	2.60	2.65	2.71	2.75	2.80	2.85	2.90	2.93	2.97	3.01	3.05
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	14.31	14.55	14.79	15.04	15.31	15.57	15.85	16.11	16.39	16.63	16.88
Delivered Energy	82.27	83.34	84.40	84.61	86.18	87.52	88.99	89.91	91.19	92.16	92.89

**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	30.44	30.79	31.08	31.40	31.83	32.25	32.62	33.05	33.46	33.81	34.21
Total	112.71	114.13	115.48	116.01	118.01	119.77	121.61	122.97	124.65	125.97	127.10
Electric Generators 14/											
Distillate Fuel	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Residual Fuel	0.30	0.31	0.32	0.31	0.32	0.31	0.31	0.31	0.30	0.30	0.31
Petroleum Subtotal	0.43	0.44	0.45	0.43	0.45	0.44	0.44	0.44	0.43	0.43	0.44
Natural Gas	7.43	7.61	7.74	7.87	8.08	8.26	8.43	8.42	8.34	8.31	8.39
Steam Coal	23.49	23.78	24.06	24.42	24.81	25.26	25.69	26.33	27.05	27.58	28.07
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/	4.91	4.98	5.06	5.12	5.18	5.24	5.29	5.38	5.43	5.54	5.61
Electricity Imports	0.11	0.11	0.11	0.12	0.11	0.10	0.09	0.07	0.07	0.06	0.05
Total	44.75	45.35	45.87	46.44	47.14	47.82	48.46	49.16	49.85	50.44	51.09
Total Energy Consumption											
Distillate Fuel	9.43	9.61	9.77	9.88	10.05	10.21	10.36	10.49	10.64	10.78	10.94
Kerosene	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13
Jet Fuel 9/	4.07	4.15	4.23	4.29	4.33	4.38	4.44	4.49	4.53	4.57	4.60
Liquefied Petroleum Gas	3.07	3.12	3.14	3.17	3.23	3.28	3.32	3.36	3.40	3.43	3.46
Motor Gasoline 2/	18.94	19.21	19.46	18.97	19.59	19.94	20.38	20.49	20.79	21.05	21.02
Petrochemical Feedstocks	1.37	1.39	1.40	1.41	1.43	1.46	1.48	1.49	1.51	1.52	1.54
Residual Fuel	1.42	1.43	1.45	1.43	1.45	1.45	1.45	1.45	1.44	1.45	1.46
Other Petroleum 12/	4.30	4.36	4.41	4.43	4.49	4.54	4.60	4.62	4.69	4.74	4.79
Petroleum Subtotal	42.74	43.41	44.00	43.73	44.72	45.40	46.16	46.54	47.14	47.68	47.93
Natural Gas	26.03	26.31	26.57	26.88	27.33	27.76	28.22	28.43	28.61	28.74	29.01
Lease and Plant Fuel 6/	1.48	1.50	1.52	1.53	1.56	1.61	1.67	1.70	1.72	1.72	1.73
Pipeline Natural Gas	0.73	0.73	0.73	0.73	0.74	0.78	0.82	0.83	0.84	0.85	0.85
Natural Gas Subtotal	28.24	28.55	28.82	29.14	29.63	30.15	30.72	30.96	31.17	31.31	31.58
Metallurgical Coal	0.61	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.52	0.50	0.49
Steam Coal	25.10	25.40	25.74	26.10	26.50	26.95	27.39	28.02	28.81	29.34	29.84
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Coal Subtotal	25.73	26.01	26.34	26.68	27.07	27.51	27.93	28.56	29.33	29.85	30.34
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/	7.51	7.64	7.76	7.87	7.98	8.09	8.18	8.31	8.41	8.54	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	0.11	0.12	0.11	0.10	0.09	0.07	0.07	0.06	0.05
Total	112.71	114.13	115.48	116.01	118.01	119.77	121.61	122.97	124.65	125.97	127.10
Energy Use & Related Statistics											
Delivered Energy Use	82.27	83.34	84.40	84.61	86.18	87.52	88.99	89.91	91.19	92.16	92.89
Total Energy Use	112.71	114.13	115.48	116.01	118.01	119.77	121.61	122.97	124.65	125.97	127.10
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)	12871	13279	13684	14073	14477	14903	15332	15731	16155	16555	16999
Carbon Dioxide Emissions (million metric tons)	6576.6	6661.2	6744.9	6774.4	6898.4	7009.3	7126.0	7220.9	7340.5	7432.4	7508.6

**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	0.77	0.76	0.75	-0.8%
Kerosene	0.09	0.08	0.08	0.9%
Liquefied Petroleum Gas	0.59	0.59	0.60	0.6%
Petroleum Subtotal	1.44	1.44	1.43	-0.2%
Natural Gas	6.18	6.24	6.26	0.9%
Coal	0.01	0.01	0.01	-0.3%
Renewable Energy 1/ Electricity	0.40	0.41	0.40	0.1%
Delivered Energy	5.81	5.90	5.95	1.4%
Electricity Related Losses	13.85	13.99	14.06	1.0%
Total	11.72	11.86	11.92	0.9%
Total	25.57	25.86	25.98	1.0%
Commercial				
Distillate Fuel	0.57	0.57	0.57	0.7%
Residual Fuel	0.13	0.13	0.13	2.2%
Kerosene	0.02	0.02	0.02	1.3%
Liquefied Petroleum Gas	0.10	0.10	0.10	0.2%
Motor Gasoline 2/ Petroleum Subtotal	0.05	0.05	0.05	0.2%
Petroleum Subtotal	0.87	0.87	0.87	0.8%
Natural Gas	4.13	4.18	4.23	1.2%
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	6.82	2.2%
Electricity Related Losses	11.77	11.94	12.12	1.7%
Total	13.27	13.47	13.67	1.8%
Total	25.04	25.41	25.78	1.7%
Industrial 4/				
Distillate Fuel	1.36	1.38	1.40	0.8%
Liquefied Petroleum Gas	2.74	2.77	2.80	1.0%
Petrochemical Feedstocks	1.55	1.57	1.58	1.1%
Residual Fuel	0.20	0.20	0.21	0.1%
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.19	0.19	0.19	0.8%
Petroleum Subtotal	4.55	4.64	4.72	0.7%
Petroleum Subtotal	10.59	10.75	10.89	0.8%
Natural Gas	10.41	10.52	10.65	1.6%
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.71	1.74	1.75	1.1%
Natural Gas Subtotal	12.12	12.26	12.40	1.5%
Metallurgical Coal	0.48	0.47	0.46	-1.3%
Steam Coal	1.67	1.67	1.74	0.7%
Net Coal Coke Imports	0.01	0.01	0.01	-4.4%

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

	2023	2024	2025	2002- 2025
Coal Subtotal	2.16	2.15	2.21	0.2%
Renewable Energy 7/	2.58	2.63	2.68	2.1%
Electricity	4.65	4.73	4.81	1.5%
Delivered Energy	32.11	32.52	32.99	1.2%
Electricity Related Losses	9.39	9.51	9.64	1.1%
Total	41.50	42.03	42.63	1.2%
Transportation				
Distillate Fuel 8/	8.27	8.46	8.65	2.3%
Jet Fuel 9/	4.64	4.67	4.70	1.5%
Motor Gasoline 2/	20.90	21.37	21.63	1.2%
Residual Fuel	0.82	0.82	0.83	0.6%
Liquefied Petroleum Gas	0.07	0.08	0.08	6.3%
Other Petroleum 10/	0.31	0.31	0.32	1.2%
Petroleum Subtotal	35.01	35.71	36.20	1.4%
Pipeline Fuel Natural Gas	0.84	0.86	0.87	1.3%
Compressed Natural Gas	0.10	0.10	0.11	9.2%
Renewable Energy (E85) 11/	0.00	0.00	0.00	7.1%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity	0.11	0.11	0.12	1.9%
Delivered Energy	36.07	36.79	37.30	1.4%
Electricity Related Losses	0.22	0.23	0.23	1.4%
Total	36.29	37.02	37.53	1.4%
Delivered Energy Consumption, All Sectors				
Distillate Fuel	10.97	11.16	11.36	1.7%
Kerosene	0.13	0.13	0.13	1.5%
Jet Fuel 9/	4.64	4.67	4.70	1.5%
Liquefied Petroleum Gas	3.50	3.53	3.57	1.0%
Motor Gasoline 2/	21.14	21.61	21.87	1.1%
Petrochemical Feedstocks	1.55	1.57	1.58	1.1%
Residual Fuel	1.16	1.16	1.16	0.7%
Other Petroleum 12/	4.84	4.94	5.02	0.7%
Petroleum Subtotal	47.92	48.76	49.39	1.2%
Natural Gas	20.82	21.05	21.25	1.3%
Lease and Plant Fuel 6/	1.71	1.74	1.75	1.1%
Pipeline Natural Gas	0.84	0.86	0.87	1.3%
Natural Gas Subtotal	23.37	23.65	23.87	1.3%
Metallurgical Coal	0.48	0.47	0.46	-1.3%
Steam Coal	1.78	1.78	1.85	0.7%
Net Coal Coke Imports	0.01	0.01	0.01	-4.4%
Coal Subtotal	2.26	2.26	2.32	0.2%
Renewable Energy 13/	3.09	3.14	3.18	1.7%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity	17.15	17.44	17.71	1.7%
Delivered Energy	93.80	95.24	96.47	1.3%

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

	2023	2024	2025	2002- 2025
Electricity Related Losses	34.60	35.07	35.46	1.3%
Total	128.40	130.31	131.93	1.3%
Electric Generators 14/				
Distillate Fuel	0.13	0.13	0.14	-0.7%
Residual Fuel	0.30	0.31	0.31	-3.4%
Petroleum Subtotal	0.43	0.44	0.45	-2.7%
Natural Gas	8.22	8.43	8.52	1.8%
Steam Coal	28.92	29.40	29.91	1.8%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy/Other 15/	5.62	5.68	5.74	1.9%
Electricity Imports	0.04	0.03	0.03	-4.3%
Total	51.75	52.51	53.17	1.4%
Total Energy Consumption				
Distillate Fuel	11.10	11.30	11.50	1.7%
Kerosene	0.13	0.13	0.13	1.5%
Jet Fuel 9/	4.64	4.67	4.70	1.5%
Liquefied Petroleum Gas	3.50	3.53	3.57	1.0%
Motor Gasoline 2/	21.14	21.61	21.87	1.1%
Petrochemical Feedstocks	1.55	1.57	1.58	1.1%
Residual Fuel	1.46	1.47	1.48	-0.6%
Other Petroleum 12/	4.84	4.94	5.02	0.7%
Petroleum Subtotal	48.34	49.20	49.83	1.2%
Natural Gas	29.04	29.48	29.77	1.5%
Lease and Plant Fuel 6/	1.71	1.74	1.75	1.1%
Pipeline Natural Gas	0.84	0.86	0.87	1.3%
Natural Gas Subtotal	31.59	32.08	32.39	1.4%
Metallurgical Coal	0.48	0.47	0.46	-1.3%
Steam Coal	30.69	31.18	31.76	1.7%
Net Coal Coke Imports	0.01	0.01	0.01	-4.4%
Coal Subtotal	31.18	31.66	32.23	1.6%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 16/	8.71	8.81	8.92	1.9%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity Imports	0.04	0.03	0.03	-4.3%
Total	128.40	130.31	131.93	1.3%
Energy Use & Related Statistics				
Delivered Energy Use	93.80	95.24	96.47	1.3%
Total Energy Use	128.40	130.31	131.93	1.3%
Population (millions)	342.30	344.90	347.53	0.8%
US GDP (billion 1996 dollars)	17452	17925	18456	3.0%
Carbon Dioxide Emissions (million metric tons)	7614.0	7738.0	7849.1	1.4%

**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 HW2004.D101703B.

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Residential	15.95	14.73	15.64	15.24	15.08	14.89	14.73	14.68	14.62	14.61	14.68
Primary Energy 1/	9.85	8.14	9.62	9.28	9.12	8.96	8.86	8.82	8.66	8.60	8.70
Petroleum Products 2/	10.95	9.87	11.53	10.83	11.32	11.35	11.36	11.46	11.57	11.68	11.76
Distillate Fuel	9.09	8.23	9.11	8.31	9.27	9.16	9.17	9.20	9.26	9.33	9.36
Liquefied Petroleum Gas	15.05	12.92	16.49	16.15	15.62	15.84	15.72	15.90	16.03	16.14	16.26
Natural Gas	9.53	7.65	9.09	8.84	8.50	8.30	8.18	8.10	7.88	7.79	7.91
Electricity	25.51	24.73	24.91	24.51	24.24	23.96	23.64	23.51	23.53	23.53	23.46
Commercial	15.67	14.68	15.05	14.60	14.42	14.16	14.00	14.04	14.12	14.19	14.28
Primary Energy 1/	8.07	6.35	7.88	7.33	7.24	7.10	7.05	7.04	6.91	6.87	6.99
Petroleum Products 2/	7.25	6.88	7.62	7.01	7.79	7.71	7.76	7.84	7.89	7.97	8.01
Distillate Fuel	6.38	6.07	6.71	6.12	6.86	6.77	6.79	6.85	6.89	6.96	6.99
Residual Fuel	3.51	4.21	4.97	4.13	5.19	5.26	5.33	5.39	5.46	5.52	5.58
Natural Gas	8.44	6.37	8.14	7.59	7.27	7.10	7.03	7.00	6.82	6.76	6.89
Electricity	23.43	22.82	22.33	21.65	21.23	20.83	20.48	20.48	20.68	20.78	20.78
Industrial 3/	7.24	6.31	7.32	6.71	7.02	7.01	7.06	7.17	7.17	7.19	7.25
Primary Energy	5.87	4.77	6.11	5.43	5.82	5.81	5.88	5.98	5.95	5.97	6.06
Petroleum Products 2/	7.73	6.35	7.50	7.09	8.19	8.26	8.40	8.54	8.64	8.72	8.78
Distillate Fuel	6.62	6.21	6.87	6.27	7.02	6.94	6.97	7.07	7.10	7.16	7.19
Liquefied Petroleum Gas	12.48	8.28	10.56	10.33	11.34	11.51	11.76	11.99	12.13	12.24	12.34
Residual Fuel	3.31	3.89	4.60	3.82	4.79	4.86	4.94	5.01	5.08	5.13	5.19
Natural Gas 4/	4.91	3.75	5.66	4.51	4.25	4.18	4.21	4.28	4.17	4.15	4.30
Metallurgical Coal	1.71	1.87	2.03	2.02	2.01	2.00	1.97	1.97	1.97	1.97	1.95
Steam Coal	1.51	1.52	1.63	1.61	1.61	1.61	1.59	1.60	1.60	1.60	1.59
Electricity	15.11	14.74	13.99	13.72	13.60	13.47	13.39	13.50	13.63	13.59	13.50
Transportation	10.58	9.91	11.12	10.17	11.58	11.61	11.68	11.73	11.75	11.80	11.82
Primary Energy	10.55	9.88	11.09	10.14	11.56	11.59	11.65	11.70	11.73	11.77	11.80
Petroleum Products 2/	10.55	9.88	11.09	10.14	11.56	11.59	11.66	11.71	11.73	11.78	11.81
Distillate Fuel 5/	10.16	9.41	10.41	9.50	10.88	11.12	11.43	11.48	11.44	11.51	11.62
Jet Fuel 6/	6.27	5.97	6.72	6.33	7.34	7.06	7.06	7.16	7.23	7.30	7.34
Motor Gasoline 7/	11.99	11.15	12.54	11.42	12.97	13.02	13.04	13.09	13.14	13.19	13.19
Residual Fuel	3.94	3.77	4.45	3.70	4.72	4.79	4.86	4.92	4.99	5.05	5.10
Liquefied Petroleum Gas8/	17.12	15.00	16.47	16.46	16.70	16.95	16.88	17.02	17.11	17.21	17.30
Natural Gas 9/	8.69	7.38	9.49	8.28	8.05	8.07	8.19	8.33	8.28	8.33	8.50
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	18.27	18.36	18.54	18.64	18.58	18.65	18.86
Electricity	21.58	21.10	21.39	20.82	20.35	19.92	19.62	19.62	19.78	19.84	19.87
Average End-Use Energy	10.95	10.10	11.12	10.43	11.03	10.98	10.98	11.04	11.06	11.09	11.14
Primary Energy	8.69	7.70	9.03	8.29	9.06	9.04	9.09	9.15	9.13	9.15	9.21
Electricity	21.79	21.20	20.94	20.47	20.18	19.88	19.61	19.61	19.73	19.75	19.70
Electric Generators 11/											
Fossil Fuel Average	2.27	1.89	2.23	2.02	1.99	1.96	1.96	2.01	1.96	1.96	2.01
Petroleum Products	5.00	4.32	4.93	4.51	5.81	5.80	5.83	5.88	5.85	5.90	5.89
Distillate Fuel	6.24	5.58	6.16	5.62	6.32	6.22	6.25	6.35	6.32	6.39	6.41
Residual Fuel	4.55	4.04	4.65	4.00	5.45	5.51	5.55	5.57	5.63	5.67	5.67
Natural Gas	5.30	3.77	5.68	4.53	4.30	4.22	4.25	4.32	4.21	4.17	4.31
Steam Coal	1.25	1.26	1.24	1.24	1.25	1.25	1.23	1.24	1.24	1.24	1.24

Average Price to All Users 12/

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Petroleum Products 2/	9.74	8.94	10.11	9.40	10.72	10.76	10.85	10.92	10.99	11.05	11.08
Distillate Fuel	9.14	8.52	9.38	8.60	9.82	9.96	10.21	10.28	10.31	10.40	10.50
Jet Fuel	6.27	5.97	6.72	6.33	7.34	7.06	7.06	7.16	7.23	7.30	7.34
Liquefied Petroleum Gas	13.00	9.27	11.82	11.58	12.27	12.45	12.61	12.84	12.97	13.09	13.19
Motor Gasoline 7/	11.99	11.15	12.53	11.42	12.97	13.02	13.04	13.09	13.14	13.19	13.19
Residual Fuel	4.16	3.92	4.59	3.83	4.91	4.98	5.04	5.10	5.16	5.22	5.27
Natural Gas	6.63	5.07	6.91	6.01	5.70	5.58	5.55	5.56	5.42	5.36	5.49
Coal	1.27	1.28	1.27	1.26	1.28	1.27	1.26	1.26	1.27	1.27	1.27
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	18.27	18.36	18.54	18.64	18.58	18.65	18.86
Electricity	21.79	21.20	20.94	20.47	20.18	19.88	19.61	19.61	19.73	19.75	19.70
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)											
Residential	168.08	160.37	173.75	172.97	172.03	171.82	171.87	173.68	174.51	176.32	178.83
Commercial	129.31	119.67	125.50	122.98	124.18	125.10	126.22	129.01	132.25	135.53	138.90
Industrial	138.60	120.96	138.27	128.49	135.78	137.35	140.30	143.63	144.56	146.74	150.30
Transportation	275.57	259.11	294.77	278.48	321.97	327.48	334.27	340.46	345.73	351.89	358.20
Total Non-Renewable Expenditures	711.55	660.11	732.29	702.91	753.96	761.76	772.66	786.78	797.05	810.48	826.23
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	732.31	702.93	753.98	761.78	772.69	786.81	797.08	810.51	826.26

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Residential	14.87	15.09	15.21	15.19	15.28	15.19	15.18	15.20	15.20	15.30	15.48
Primary Energy 1/	8.84	9.03	9.11	9.09	9.12	9.03	8.97	9.01	9.03	9.14	9.24
Petroleum Products 2/	11.87	11.97	12.07	12.13	12.22	12.25	12.27	12.36	12.47	12.58	12.63
Distillate Fuel	9.41	9.48	9.52	9.51	9.54	9.59	9.61	9.64	9.66	9.68	9.70
Liquefied Petroleum Gas	16.40	16.48	16.59	16.71	16.81	16.73	16.64	16.73	16.90	17.06	17.08
Natural Gas	8.06	8.28	8.37	8.32	8.35	8.24	8.17	8.21	8.22	8.34	8.46
Electricity	23.64	23.80	23.88	23.77	23.88	23.71	23.72	23.65	23.55	23.56	23.76
Commercial	14.52	14.68	14.87	14.89	15.05	14.98	15.00	15.03	15.02	15.11	15.32
Primary Energy 1/	7.13	7.32	7.40	7.37	7.41	7.34	7.30	7.33	7.34	7.44	7.55
Petroleum Products 2/	8.05	8.11	8.15	8.15	8.18	8.22	8.24	8.26	8.30	8.34	8.34
Distillate Fuel	7.03	7.09	7.13	7.11	7.14	7.19	7.21	7.24	7.25	7.28	7.29
Residual Fuel	5.61	5.64	5.66	5.67	5.68	5.69	5.70	5.71	5.72	5.73	5.75
Natural Gas	7.06	7.28	7.38	7.34	7.39	7.29	7.24	7.27	7.27	7.40	7.52
Electricity	21.00	21.04	21.20	21.20	21.39	21.26	21.27	21.24	21.15	21.16	21.39
Industrial 3/	7.39	7.53	7.59	7.61	7.69	7.67	7.68	7.71	7.70	7.78	7.87
Primary Energy	6.18	6.32	6.38	6.39	6.45	6.43	6.43	6.48	6.49	6.57	6.64
Petroleum Products 2/	8.85	8.91	8.95	8.98	9.02	9.06	9.08	9.13	9.19	9.23	9.23
Distillate Fuel	7.22	7.29	7.31	7.29	7.31	7.36	7.39	7.42	7.44	7.46	7.47
Liquefied Petroleum Gas	12.49	12.57	12.69	12.79	12.89	12.90	12.89	13.00	13.14	13.22	13.25
Residual Fuel	5.22	5.25	5.28	5.28	5.30	5.31	5.33	5.33	5.34	5.35	5.37
Natural Gas 4/	4.49	4.72	4.81	4.81	4.86	4.78	4.76	4.80	4.78	4.91	5.06
Metallurgical Coal	1.93	1.92	1.91	1.91	1.90	1.89	1.89	1.87	1.84	1.82	1.81
Steam Coal	1.57	1.57	1.57	1.56	1.55	1.55	1.56	1.56	1.57	1.56	1.56
Electricity	13.66	13.75	13.87	13.87	14.04	13.95	13.97	13.94	13.86	13.85	14.03
Transportation	11.84	11.84	11.83	11.75	11.73	11.76	11.86	11.77	11.79	11.92	11.72
Primary Energy	11.81	11.81	11.80	11.72	11.70	11.73	11.84	11.74	11.76	11.89	11.69
Petroleum Products 2/	11.82	11.82	11.81	11.73	11.71	11.74	11.84	11.75	11.77	11.90	11.70
Distillate Fuel 5/	11.60	11.60	11.58	11.59	11.51	11.49	11.47	11.36	11.19	11.20	11.13
Jet Fuel 6/	7.37	7.38	7.37	7.34	7.34	7.35	7.37	7.37	7.35	7.37	7.36
Motor Gasoline 7/	13.22	13.22	13.21	13.13	13.10	13.14	13.31	13.19	13.29	13.50	13.20
Residual Fuel	5.13	5.16	5.18	5.19	5.20	5.21	5.22	5.24	5.25	5.26	5.27
Liquefied Petroleum Gas8/	17.41	17.46	17.54	17.64	17.74	17.51	17.27	17.32	17.50	17.72	17.71
Natural Gas 9/	8.70	8.94	9.06	9.01	9.08	8.98	8.92	8.94	8.92	9.03	9.14
Ethanol (E85) 10/	19.08	19.17	19.23	18.88	19.24	19.30	19.23	19.67	19.78	19.94	19.86
Electricity	20.12	20.35	20.43	20.33	20.42	20.23	20.16	20.08	19.94	19.92	20.07
Average End-Use Energy	11.25	11.35	11.41	11.38	11.44	11.41	11.46	11.45	11.45	11.56	11.56
Primary Energy	9.29	9.38	9.42	9.36	9.39	9.39	9.44	9.41	9.43	9.55	9.49
Electricity	19.90	19.99	20.11	20.08	20.23	20.09	20.10	20.06	19.98	19.99	20.19
Electric Generators 11/											
Fossil Fuel Average	2.07	2.14	2.16	2.15	2.17	2.15	2.15	2.14	2.11	2.12	2.15
Petroleum Products	5.89	5.93	5.96	5.98	5.99	6.03	6.05	6.08	6.14	6.15	6.17
Distillate Fuel	6.46	6.52	6.55	6.54	6.56	6.61	6.63	6.66	6.68	6.70	6.72
Residual Fuel	5.66	5.68	5.71	5.75	5.75	5.79	5.81	5.84	5.90	5.91	5.93
Natural Gas	4.50	4.72	4.81	4.79	4.85	4.76	4.73	4.76	4.72	4.85	5.00
Steam Coal	1.24	1.24	1.24	1.23	1.23	1.22	1.23	1.23	1.23	1.24	1.24

Average Price to All Users 12/

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Petroleum Products 2/	11.11	11.13	11.13	11.08	11.08	11.12	11.20	11.15	11.19	11.30	11.15
Distillate Fuel	10.51	10.54	10.54	10.55	10.52	10.52	10.52	10.46	10.35	10.37	10.32
Jet Fuel	7.37	7.38	7.37	7.34	7.34	7.35	7.37	7.37	7.35	7.37	7.36
Liquefied Petroleum Gas	13.33	13.41	13.53	13.63	13.73	13.71	13.68	13.78	13.93	14.03	14.05
Motor Gasoline 7/	13.22	13.22	13.21	13.13	13.10	13.14	13.31	13.19	13.29	13.50	13.20
Residual Fuel	5.30	5.33	5.35	5.37	5.38	5.39	5.41	5.42	5.44	5.45	5.46
Natural Gas	5.66	5.87	5.96	5.93	5.97	5.87	5.83	5.87	5.86	5.99	6.12
Coal	1.26	1.27	1.27	1.26	1.26	1.25	1.26	1.26	1.27	1.27	1.27
Ethanol (E85) 10/	19.08	19.17	19.23	18.88	19.24	19.30	19.23	19.67	19.78	19.94	19.86
Electricity	19.90	19.99	20.11	20.08	20.23	20.09	20.10	20.06	19.98	19.99	20.19
Non-Renewable Energy Expenditures by Sector											
(billion 2002 dollars)											
Residential	183.04	186.40	189.21	190.59	193.90	194.10	195.92	198.11	200.47	202.77	206.52
Commercial	143.38	147.09	150.97	153.51	157.43	159.32	162.31	165.45	168.10	171.65	176.27
Industrial	154.98	160.05	163.44	165.68	169.74	171.70	174.47	176.99	179.28	182.76	187.34
Transportation	364.15	370.33	375.82	369.69	378.74	386.44	397.56	397.86	404.44	414.23	409.01
Total Non-Renewable Expenditures	845.55	863.87	879.44	879.48	899.82	911.56	930.26	938.41	952.29	971.41	979.14
Transportation Renewable Expenditures	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06
Total Expenditures	845.59	863.91	879.48	879.52	899.87	911.61	930.32	938.46	952.34	971.47	979.20

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

	2023	2024	2025	2002- 2025
Residential	15.44	15.57	15.68	0.3%
Primary Energy 1/	9.25	9.26	9.33	0.6%
Petroleum Products 2/	12.69	12.81	12.89	1.2%
Distillate Fuel	9.72	9.84	9.86	0.8%
Liquefied Petroleum Gas	17.12	17.14	17.20	1.3%
Natural Gas	8.46	8.46	8.53	0.5%
Electricity	23.58	23.80	23.91	-0.1%
Commercial	15.25	15.42	15.56	0.3%
Primary Energy 1/	7.55	7.59	7.65	0.8%
Petroleum Products 2/	8.35	8.46	8.48	0.9%
Distillate Fuel	7.30	7.43	7.45	0.9%
Residual Fuel	5.76	5.77	5.78	1.4%
Natural Gas	7.53	7.54	7.62	0.8%
Electricity	21.21	21.44	21.59	-0.2%
Industrial 3/	7.87	7.98	8.05	1.1%
Primary Energy	6.66	6.74	6.80	1.6%
Petroleum Products 2/	9.25	9.33	9.37	1.7%
Distillate Fuel	7.49	7.61	7.63	0.9%
Liquefied Petroleum Gas	13.28	13.31	13.39	2.1%
Residual Fuel	5.38	5.39	5.40	1.4%
Natural Gas 4/	5.08	5.14	5.24	1.5%
Metallurgical Coal	1.79	1.78	1.77	-0.2%
Steam Coal	1.55	1.54	1.54	0.0%
Electricity	13.87	14.08	14.20	-0.2%
Transportation	11.68	11.92	11.91	0.8%
Primary Energy	11.65	11.89	11.88	0.8%
Petroleum Products 2/	11.66	11.90	11.89	0.8%
Distillate Fuel 5/	11.08	11.24	11.19	0.8%
Jet Fuel 6/	7.36	7.48	7.48	1.0%
Motor Gasoline 7/	13.16	13.45	13.45	0.8%
Residual Fuel	5.28	5.29	5.30	1.5%
Liquefied Petroleum Gas8/	17.73	17.70	17.71	0.7%
Natural Gas 9/	9.12	9.13	9.19	1.0%
Ethanol (E85) 10/	19.88	20.09	20.15	1.2%
Electricity	19.87	20.00	20.06	-0.2%
Average End-Use Energy	11.52	11.70	11.75	0.7%
Primary Energy	9.47	9.63	9.66	1.0%
Electricity	20.01	20.23	20.35	-0.2%
Electric Generators 11/				
Fossil Fuel Average	2.12	2.14	2.16	0.6%
Petroleum Products	6.20	6.24	6.26	1.6%
Distillate Fuel	6.74	6.86	6.88	0.9%
Residual Fuel	5.97	5.97	5.99	1.7%
Natural Gas	5.00	5.07	5.16	1.4%
Steam Coal	1.24	1.24	1.24	-0.1%

Average Price to All Users 12/

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

	2023	2024	2025	2002- 2025
Petroleum Products 2/	11.13	11.33	11.33	1.0%
Distillate Fuel	10.30	10.46	10.43	0.9%
Jet Fuel	7.36	7.48	7.48	1.0%
Liquefied Petroleum Gas	14.08	14.10	14.18	1.9%
Motor Gasoline 7/	13.16	13.45	13.45	0.8%
Residual Fuel	5.48	5.49	5.51	1.5%
Natural Gas	6.14	6.18	6.26	0.9%
Coal	1.27	1.27	1.27	0.0%
Ethanol (E85) 10/	19.88	20.09	20.15	1.2%
Electricity	20.01	20.23	20.35	-0.2%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)				
Residential	207.60	211.59	214.19	1.3%
Commercial	177.94	182.57	187.06	2.0%
Industrial	189.41	194.14	198.70	2.2%
Transportation	411.45	428.14	433.72	2.3%
Total Non-Renewable Expenditures	986.40	1016.43	1033.67	2.0%
Transportation Renewable Expenditures	0.06	0.07	0.07	8.5%
Total Expenditures	986.46	1016.50	1033.73	2.0%

Table 3. Energy Prices by Sector and Source
(2002 Dollars 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 actual 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 Commission, 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 HW2004.D101703B. 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 HW2004.D101703B

**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	78.83	79.85	80.85	81.83	82.80	83.79
Multifamily	28.96	29.20	29.41	29.59	29.73	29.88	30.07	30.27	30.48	30.70	30.92
Mobile Homes	6.37	6.31	6.23	6.14	6.08	6.05	6.06	6.10	6.17	6.25	6.34
Total	109.06	110.28	111.47	112.58	113.65	114.77	115.98	117.23	118.49	119.75	121.05
Average House Square Footage											
	1684	1689	1695	1700	1706	1712	1717	1722	1726	1731	1735
Energy Intensity (million Btu per household)											
Delivered Energy Consumption	100.0	102.3	103.3	104.4	104.0	104.1	104.1	104.4	104.1	104.2	104.0
Total Energy Consumption	185.0	189.4	190.3	191.3	190.9	191.4	191.6	192.3	191.3	191.3	191.1
(thousand Btu per square foot)											
Delivered Energy Consumption	59.4	60.6	61.0	61.4	60.9	60.8	60.6	60.6	60.3	60.2	59.9
Total Energy Consumption	109.9	112.1	112.3	112.5	111.9	111.8	111.6	111.7	110.8	110.5	110.1
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	0.42	0.43
Space Cooling	0.63	0.71	0.64	0.66	0.66	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	0.86	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	1.16	1.20	1.24	1.28
Delivered Energy	4.10	4.33	4.37	4.44	4.50	4.56	4.63	4.72	4.78	4.86	4.93
Natural Gas											
Space Heating	3.39	3.54	3.69	3.74	3.75	3.81	3.86	3.91	3.95	4.00	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	1.19	1.21	1.22	1.23	1.24	1.25	1.25
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	5.42	5.48	5.56	5.61	5.68	5.72

**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	0.81	0.80	0.79	0.79	0.78	0.77	0.76
Water Heating	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11
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	0.93	0.92	0.91	0.90	0.89	0.88	0.87
Liquefied Petroleum Gas											
Space Heating	0.29	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28
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	0.16	0.17	0.17	0.17	0.18
Delivered Energy	0.50	0.53	0.50	0.51	0.51	0.52	0.52	0.53	0.53	0.53	0.54
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	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Delivered Energy Consumption by End-Use											
Space Heating	5.31	5.48	5.70	5.79	5.79	5.84	5.88	5.93	5.96	6.00	6.03
Space Cooling	0.63	0.71	0.64	0.66	0.66	0.67	0.68	0.68	0.69	0.69	0.70
Water Heating	1.71	1.69	1.68	1.73	1.73	1.75	1.75	1.76	1.77	1.78	1.78
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	0.33	0.34	0.34	0.34
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	0.86	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	1.34	1.39	1.44	1.48	1.53	1.57
Delivered Energy	10.91	11.28	11.52	11.76	11.82	11.95	12.07	12.24	12.34	12.47	12.59
Electricity Related Losses	9.28	9.60	9.69	9.77	9.88	10.01	10.15	10.30	10.33	10.44	10.54
Total Energy Consumption by End-Use											
Space Heating	6.16	6.36	6.61	6.69	6.69	6.74	6.79	6.85	6.87	6.91	6.95
Space Cooling	2.05	2.29	2.07	2.10	2.12	2.14	2.16	2.17	2.17	2.18	2.19
Water Heating	2.57	2.51	2.50	2.55	2.54	2.56	2.56	2.57	2.57	2.57	2.57
Refrigeration	1.41	1.37	1.33	1.30	1.27	1.25	1.22	1.21	1.18	1.16	1.14
Cooking	0.57	0.57	0.57	0.58	0.58	0.59	0.59	0.60	0.60	0.61	0.61
Clothes Dryers	0.83	0.83	0.84	0.85	0.86	0.87	0.87	0.88	0.88	0.88	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	2.58	2.63	2.67	2.69	2.72	2.75
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	0.51	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	0.27	0.28	0.28	0.28
Other Uses 7/	2.79	3.09	3.36	3.48	3.59	3.71	3.84	3.98	4.08	4.20	4.31
Total	20.18	20.88	21.21	21.53	21.69	21.96	22.22	22.54	22.66	22.91	23.13
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	84.76	85.71	86.65	87.57	88.48	89.37	90.24	91.10	91.96	92.81	93.67
Multifamily	31.14	31.37	31.61	31.84	32.08	32.33	32.58	32.83	33.09	33.35	33.61
Mobile Homes	6.41	6.48	6.55	6.61	6.67	6.73	6.79	6.85	6.90	6.96	7.01
Total	122.31	123.56	124.81	126.02	127.23	128.43	129.61	130.78	131.96	133.12	134.29
Average House Square Footage											
	1739	1744	1748	1752	1756	1759	1763	1766	1770	1773	1777
Energy Intensity (million Btu per household)											
Delivered Energy Consumption	104.0	103.2	102.9	102.8	102.9	102.7	102.7	102.7	103.0	102.6	102.4
Total Energy Consumption	191.2	190.1	189.4	189.2	189.5	189.1	189.0	189.2	189.7	189.1	188.9
(thousand Btu per square foot)											
Delivered Energy Consumption	59.8	59.2	58.9	58.7	58.6	58.3	58.3	58.2	58.2	57.8	57.6
Total Energy Consumption	109.9	109.0	108.4	108.0	107.9	107.5	107.2	107.1	107.2	106.6	106.3
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	0.71	0.72	0.73	0.74	0.74	0.75	0.76	0.77	0.78
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	0.25	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	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11
Other Uses 2/	1.32	1.36	1.39	1.44	1.47	1.51	1.55	1.58	1.63	1.66	1.70
Delivered Energy	5.02	5.07	5.14	5.21	5.30	5.36	5.43	5.51	5.61	5.66	5.73
Natural Gas											
Space Heating	4.07	4.08	4.09	4.13	4.17	4.21	4.25	4.29	4.34	4.36	4.38
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	1.27	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	5.77	5.77	5.79	5.83	5.89	5.93	5.99	6.04	6.10	6.12	6.15

**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	0.76	0.75	0.74	0.73	0.73	0.72	0.71	0.71	0.70	0.69	0.69
Water Heating	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09
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	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78
Liquefied Petroleum Gas											
Space Heating	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
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/	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23
Delivered Energy	0.54	0.54	0.55	0.55	0.56	0.56	0.57	0.57	0.58	0.58	0.58
Marketed Renewables (wood) 5/	0.41	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
Other Fuels 6/	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10
Delivered Energy Consumption by End-Use											
Space Heating	6.07	6.06	6.07	6.10	6.15	6.17	6.21	6.25	6.29	6.29	6.31
Space Cooling	0.71	0.71	0.71	0.72	0.73	0.74	0.74	0.75	0.76	0.77	0.78
Water Heating	1.78	1.77	1.77	1.76	1.77	1.77	1.77	1.77	1.78	1.77	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	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11
Other Uses 7/	1.62	1.65	1.70	1.74	1.79	1.83	1.87	1.92	1.97	2.01	2.05
Delivered Energy	12.72	12.76	12.84	12.95	13.09	13.18	13.31	13.44	13.59	13.66	13.75
Electricity Related Losses	10.67	10.73	10.80	10.89	11.02	11.10	11.18	11.31	11.45	11.51	11.62
Total Energy Consumption by End-Use											
Space Heating	6.99	6.98	6.99	7.02	7.07	7.09	7.13	7.17	7.22	7.21	7.23
Space Cooling	2.21	2.21	2.22	2.23	2.25	2.26	2.27	2.30	2.32	2.33	2.35
Water Heating	2.57	2.55	2.54	2.53	2.53	2.52	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	0.89	0.89	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	2.78	2.79	2.81	2.83	2.86	2.88	2.90	2.93	2.96	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	0.08	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	0.80
Personal Computers	0.27	0.28	0.29	0.30	0.31	0.32	0.32	0.33	0.35	0.36	0.37
Furnace Fans	0.29	0.29	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32
Other Uses 7/	4.43	4.52	4.63	4.74	4.85	4.95	5.05	5.17	5.29	5.39	5.50
Total	23.38	23.49	23.64	23.84	24.11	24.29	24.50	24.75	25.04	25.17	25.36
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	94.51	95.34	96.16	1.1%
Multifamily	33.87	34.13	34.38	0.7%
Mobile Homes	7.06	7.10	7.14	0.5%
Total	135.44	136.57	137.68	1.0%
Average House Square Footage	1780	1784	1787	0.2%
Energy Intensity (million Btu per household)				
Delivered Energy Consumption	102.3	102.5	102.1	0.0%
Total Energy Consumption (thousand Btu per square foot)	188.8	189.3	188.7	0.0%
Delivered Energy Consumption	57.4	57.4	57.1	-0.3%
Total Energy Consumption	106.1	106.1	105.6	-0.3%
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	5.81	5.90	5.95	1.4%
Natural Gas				
Space Heating	4.41	4.46	4.48	1.0%
Space Cooling	0.00	0.00	0.00	18.2%
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	2.2%
Other Uses 3/	0.12	0.12	0.12	1.1%
Delivered Energy	6.18	6.24	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	0.68	0.67	0.66	-0.7%
Water Heating	0.09	0.09	0.09	-1.4%
Other Uses 4/ Delivered Energy	0.00 0.77	0.00 0.76	0.00 0.75	N/A -0.8%
Liquefied Petroleum Gas				
Space Heating	0.28	0.28	0.28	-0.3%
Water Heating	0.05	0.05	0.04	-0.4%
Cooking	0.03	0.03	0.03	0.2%
Other Uses 3/ Delivered Energy	0.23 0.59	0.24 0.59	0.24 0.60	2.1% 0.6%
Marketed Renewables (wood) 5/ Other Fuels 6/				
	0.40	0.41	0.40	0.1%
	0.10	0.10	0.09	0.7%
Delivered Energy Consumption by End-Use				
Space Heating	6.33	6.37	6.38	0.7%
Space Cooling	0.78	0.79	0.80	0.5%
Water Heating	1.76	1.76	1.75	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	1.0%
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 13.85	2.15 13.99	2.19 14.06	2.9% 1.0%
Electricity Related Losses				
	11.72	11.86	11.92	0.9%
Total Energy Consumption by End-Use				
Space Heating	7.25	7.29	7.29	0.6%
Space Cooling	2.37	2.39	2.40	0.2%
Water Heating	2.48	2.47	2.45	-0.1%
Refrigeration	1.10	1.11	1.11	-0.9%
Cooking	0.67	0.67	0.68	0.8%
Clothes Dryers	0.93	0.93	0.94	0.5%
Freezers	0.37	0.37	0.37	-0.7%
Lighting	3.02	3.05	3.06	1.0%
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	1.3%
Other Uses 7/	5.61	5.75	5.85	2.8%
Total	25.57	25.86	25.98	1.0%
Non-Marketed Renewables				
Geothermal 8/	0.01	0.01	0.01	9.2%
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 HW2004.D101703B.

**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	78.6	79.8	80.9	82.1
New Additions	3.1	3.2	3.4	3.2	2.9	2.7	2.6	2.5	2.6	2.6	2.7
Total	70.2	72.1	74.1	76.0	77.5	78.9	80.0	81.2	82.4	83.6	84.8
Energy Consumption Intensity (thousand Btu per square foot)											
Delivered Energy Consumption	118.8	114.5	113.8	112.1	112.4	113.3	113.9	114.4	114.9	115.5	115.8
Electricity Related Losses	131.5	126.9	123.7	123.8	125.2	126.6	127.8	128.6	128.5	129.1	129.7
Total Energy Consumption	250.3	241.4	237.5	235.9	237.5	239.9	241.7	243.0	243.4	244.6	245.5
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	0.14	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	0.17	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	1.24	1.26	1.28	1.29	1.31
Refrigeration	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22
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	0.48
Other Uses 2/	1.45	1.41	1.41	1.47	1.54	1.60	1.66	1.72	1.78	1.85	1.92
Delivered Energy	4.09	4.12	4.14	4.28	4.42	4.55	4.67	4.79	4.90	5.02	5.14
Natural Gas											
Space Heating 1/	1.33	1.42	1.49	1.46	1.48	1.51	1.53	1.54	1.56	1.58	1.59
Space Cooling 1/	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
Water Heating 1/	0.57	0.59	0.59	0.61	0.62	0.64	0.65	0.67	0.68	0.69	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	0.92	0.94	0.96	0.98	1.00
Delivered Energy	3.33	3.21	3.26	3.20	3.26	3.34	3.40	3.45	3.52	3.58	3.63
Distillate											
Space Heating 1/	0.17	0.17	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Water Heating 1/	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Other Uses 4/	0.25	0.24	0.30	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Delivered Energy	0.49	0.49	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Other Fuels 5/	0.35	0.33	0.37	0.39	0.38	0.39	0.39	0.39	0.39	0.39	0.39

**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	1.81	1.84	1.86	1.88	1.90	1.92	1.94	1.95
Space Cooling 1/	0.43	0.48	0.43	0.43	0.44	0.45	0.45	0.46	0.46	0.46	0.47
Water Heating 1/	0.78	0.80	0.81	0.82	0.84	0.86	0.87	0.89	0.90	0.92	0.93
Ventilation	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18
Cooking	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.32	0.33	0.33	0.34
Lighting	1.10	1.12	1.14	1.17	1.20	1.22	1.24	1.26	1.28	1.29	1.31
Refrigeration	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22
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	0.48
Other Uses 6/	3.31	3.01	3.08	3.10	3.17	3.27	3.35	3.43	3.51	3.60	3.69
Delivered Energy	8.34	8.25	8.44	8.52	8.71	8.93	9.11	9.28	9.47	9.65	9.82
Electricity Related Losses	9.24	9.15	9.17	9.41	9.71	9.98	10.22	10.44	10.58	10.79	11.00
Total Energy Consumption by End-Use											
Space Heating 1/	1.97	2.07	2.19	2.15	2.18	2.21	2.23	2.24	2.26	2.28	2.29
Space Cooling 1/	1.36	1.51	1.36	1.36	1.38	1.39	1.40	1.41	1.42	1.42	1.43
Water Heating 1/	1.10	1.11	1.12	1.14	1.15	1.17	1.19	1.21	1.22	1.23	1.25
Ventilation	0.53	0.52	0.53	0.53	0.54	0.54	0.55	0.55	0.55	0.55	0.55
Cooking	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40
Lighting	3.58	3.60	3.67	3.75	3.83	3.90	3.96	4.01	4.03	4.07	4.10
Refrigeration	0.65	0.65	0.66	0.67	0.68	0.68	0.68	0.69	0.69	0.70	0.71
Office Equipment (PC)	0.46	0.44	0.49	0.55	0.61	0.65	0.68	0.71	0.73	0.76	0.78
Office Equipment (non-PC)	0.99	1.00	1.02	1.08	1.14	1.21	1.27	1.33	1.39	1.45	1.52
Other Uses 6/	6.59	6.14	6.21	6.34	6.55	6.78	6.99	7.18	7.36	7.58	7.79
Total	17.58	17.40	17.61	17.93	18.42	18.91	19.34	19.73	20.05	20.44	20.82
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	83.4	84.6	85.8	86.9	88.0	89.2	90.4	91.6	92.8	94.0	95.2
New Additions	2.7	2.7	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.8	2.8
Total	86.0	87.2	88.4	89.6	90.7	91.9	93.1	94.4	95.6	96.8	98.0
Energy Consumption Intensity (thousand Btu per square foot)											
Delivered Energy Consumption	116.0	115.9	116.0	116.2	116.4	116.8	117.3	117.7	118.1	118.4	118.5
Electricity Related Losses	130.1	130.5	130.5	130.7	131.0	131.5	131.8	132.5	132.9	133.3	133.6
Total Energy Consumption	246.0	246.4	246.5	247.0	247.4	248.4	249.1	250.2	250.9	251.6	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	0.45	0.46	0.46	0.46	0.46	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	1.32	1.33	1.34	1.35	1.35	1.36	1.37	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	0.55	0.58	0.60	0.63	0.65	0.68	0.71	0.74	0.77
Other Uses 2/	1.99	2.05	2.12	2.20	2.26	2.33	2.40	2.47	2.55	2.62	2.69
Delivered Energy	5.26	5.38	5.49	5.61	5.72	5.84	5.96	6.09	6.22	6.35	6.46
Natural Gas											
Space Heating 1/	1.60	1.60	1.61	1.62	1.63	1.65	1.67	1.69	1.71	1.72	1.73
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/	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.80	0.81	0.81
Cooking	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.34	0.34	0.35	0.35
Other Uses 3/	1.02	1.03	1.04	1.05	1.07	1.08	1.10	1.12	1.13	1.15	1.17
Delivered Energy	3.66	3.68	3.71	3.75	3.79	3.84	3.90	3.95	4.01	4.05	4.09
Distillate											
Space Heating 1/	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Water Heating 1/	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Other Uses 4/	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Delivered Energy	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.57
Other Fuels 5/	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	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/	1.96	1.96	1.97	1.98	2.00	2.02	2.04	2.05	2.07	2.09	2.09
Space Cooling 1/	0.47	0.47	0.48	0.48	0.48	0.49	0.49	0.50	0.50	0.51	0.51
Water Heating 1/	0.94	0.94	0.95	0.96	0.97	0.98	1.00	1.01	1.02	1.03	1.04
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	0.34	0.34	0.34	0.35	0.35	0.36	0.37	0.37	0.38	0.38
Lighting	1.32	1.33	1.34	1.35	1.35	1.36	1.37	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	0.55	0.58	0.60	0.63	0.65	0.68	0.71	0.74	0.77
Other Uses 6/	3.78	3.86	3.94	4.02	4.10	4.19	4.27	4.36	4.46	4.55	4.63
Delivered Energy	9.98	10.12	10.25	10.41	10.56	10.74	10.92	11.11	11.29	11.46	11.61
Electricity Related Losses	11.19	11.38	11.54	11.71	11.88	12.09	12.27	12.51	12.71	12.90	13.09
Total Energy Consumption by End-Use											
Space Heating 1/	2.30	2.30	2.30	2.31	2.32	2.34	2.36	2.38	2.39	2.41	2.41
Space Cooling 1/	1.43	1.43	1.43	1.44	1.44	1.45	1.46	1.47	1.48	1.48	1.49
Water Heating 1/	1.25	1.26	1.26	1.27	1.28	1.29	1.30	1.31	1.33	1.34	1.34
Ventilation	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56
Cooking	0.41	0.41	0.40	0.41	0.41	0.41	0.42	0.42	0.43	0.43	0.43
Lighting	4.13	4.15	4.16	4.16	4.17	4.19	4.20	4.23	4.25	4.27	4.27
Refrigeration	0.71	0.71	0.71	0.71	0.71	0.72	0.72	0.73	0.73	0.74	0.74
Office Equipment (PC)	0.81	0.83	0.86	0.89	0.92	0.95	0.98	1.00	1.02	1.04	1.06
Office Equipment (non-PC)	1.59	1.66	1.72	1.78	1.85	1.92	1.99	2.07	2.15	2.24	2.32
Other Uses 6/	8.00	8.20	8.40	8.61	8.80	9.01	9.21	9.44	9.65	9.87	10.08
Total	21.16	21.50	21.79	22.12	22.44	22.83	23.20	23.61	23.99	24.36	24.70
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	96.3	97.5	98.6	1.6%
New Additions	2.8	2.9	3.0	-0.3%
Total	99.1	100.3	101.6	1.5%
Energy Consumption Intensity (thousand Btu per square foot)				
Delivered Energy Consumption	118.7	119.0	119.2	0.2%
Electricity Related Losses	133.9	134.2	134.5	0.3%
Total Energy Consumption	252.6	253.2	253.7	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	0.6%
Cooking	0.03	0.03	0.03	-0.7%
Lighting	1.42	1.42	1.43	1.1%
Refrigeration	0.24	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	2.90	3.2%
Delivered Energy	6.58	6.70	6.82	2.2%
Natural Gas				
Space Heating 1/	1.74	1.75	1.77	1.0%
Space Cooling 1/	0.03	0.03	0.03	3.9%
Water Heating 1/	0.82	0.83	0.84	1.6%
Cooking	0.35	0.35	0.36	1.4%
Other Uses 3/	1.19	1.21	1.23	1.2%
Delivered Energy	4.13	4.18	4.23	1.2%
Distillate				
Space Heating 1/	0.21	0.21	0.21	0.9%
Water Heating 1/	0.08	0.08	0.08	0.2%
Other Uses 4/	0.28	0.28	0.28	0.7%
Delivered Energy	0.57	0.57	0.57	0.7%
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/	2.11	2.12	2.14	0.9%
Space Cooling 1/	0.51	0.52	0.52	0.4%
Water Heating 1/	1.05	1.06	1.07	1.2%
Ventilation	0.19	0.19	0.19	0.6%
Cooking	0.38	0.38	0.38	1.2%
Lighting	1.42	1.42	1.43	1.1%
Refrigeration	0.24	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/	4.72	4.82	4.91	2.2%
Delivered Energy	11.77	11.94	12.12	1.7%
Electricity Related Losses	13.27	13.47	13.67	1.8%
Total Energy Consumption by End-Use				
Space Heating 1/	2.42	2.43	2.45	0.7%
Space Cooling 1/	1.49	1.49	1.50	0.0%
Water Heating 1/	1.35	1.35	1.36	0.9%
Ventilation	0.56	0.56	0.57	0.3%
Cooking	0.43	0.43	0.44	0.8%
Lighting	4.28	4.29	4.30	0.8%
Refrigeration	0.74	0.74	0.74	0.6%
Office Equipment (PC)	1.07	1.09	1.10	4.1%
Office Equipment (non-PC)	2.41	2.51	2.60	4.3%
Other Uses 6/	10.29	10.51	10.73	2.5%
Total	25.04	25.41	25.78	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 HW2004.D101703B.

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	4209	4343	4497	4643	4753	4875	5005	5150
Nonmanufacturing	1309	1222	1183	1213	1265	1286	1313	1348	1386	1422	1455
Total	5368	5285	5226	5422	5608	5783	5956	6100	6261	6427	6605
Energy Prices (2002 dollars per million Btu)											
Distillate Oil	6.62	6.21	6.87	6.27	7.02	6.94	6.97	7.07	7.10	7.16	7.19
Liquefied Petroleum Gas	12.48	8.28	10.56	10.33	11.34	11.51	11.76	11.99	12.13	12.24	12.34
Residual Oil	3.31	3.89	4.60	3.82	4.79	4.86	4.94	5.01	5.08	5.13	5.19
Motor Gasoline	11.70	11.04	12.21	11.14	12.93	13.00	13.01	13.07	13.11	13.16	13.16
Natural Gas	4.91	3.75	5.66	4.51	4.25	4.18	4.21	4.28	4.17	4.15	4.30
Metallurgical Coal	1.71	1.87	2.03	2.02	2.01	2.00	1.97	1.97	1.97	1.97	1.95
Steam Coal	1.51	1.52	1.63	1.61	1.61	1.61	1.59	1.60	1.60	1.60	1.59
Electricity	15.11	14.74	13.99	13.72	13.60	13.47	13.39	13.50	13.63	13.59	13.50
Energy Consumption 1/ (quadrillion Btu)											
Distillate	1.21	1.16	1.17	1.14	1.13	1.13	1.14	1.14	1.13	1.15	1.17
Liquefied Petroleum Gas	2.10	2.22	2.12	2.15	2.16	2.21	2.25	2.28	2.29	2.31	2.35
Petrochemical Feedstocks	1.16	1.22	1.27	1.27	1.28	1.30	1.32	1.33	1.32	1.33	1.35
Residual Fuel	0.15	0.20	0.21	0.21	0.19	0.19	0.19	0.19	0.18	0.18	0.18
Other Petroleum 2/ Petroleum Subtotal	4.42 9.04	4.19 9.00	4.21 8.98	4.11 8.88	4.16 8.93	4.14 8.97	4.13 9.03	4.17 9.11	4.15 9.08	4.16 9.13	4.18 9.22
Natural Gas	7.56	7.43	7.41	7.75	8.09	8.28	8.48	8.56	8.71	8.87	9.01
Lease and Plant Fuel 3/ Natural Gas Subtotal	1.12 8.67	1.35 8.78	1.03 8.43	1.02 8.77	1.09 9.18	1.16 9.44	1.23 9.71	1.30 9.86	1.36 10.07	1.44 10.31	1.47 10.48
Metallurgical Coal & Coke 4/ Steam Coal	0.74 1.51	0.65 1.47	0.70 1.40	0.71 1.40	0.70 1.40	0.69 1.41	0.68 1.41	0.67 1.40	0.67 1.43	0.65 1.46	0.64 1.50
Coal Subtotal	2.25	2.12	2.11	2.11	2.11	2.10	2.09	2.08	2.10	2.12	2.14
Renewables 5/ Purchased Electricity	1.64 3.29	1.66 3.39	1.66 3.34	1.72 3.41	1.78 3.49	1.82 3.58	1.86 3.65	1.90 3.70	1.94 3.75	1.99 3.81	2.04 3.88
Delivered Energy	24.89	24.94	24.51	24.90	25.48	25.91	26.35	26.65	26.94	27.35	27.76
Electricity Related Losses	7.44	7.53	7.39	7.51	7.67	7.86	7.99	8.07	8.10	8.18	8.30
Total	32.33	32.47	31.91	32.41	33.15	33.77	34.34	34.72	35.04	35.53	36.06
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	0.38	0.38	0.37	0.37	0.36	0.36
Petrochemical Feedstocks	0.22	0.23	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20
Residual Fuel	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Petroleum 2/ Petroleum Subtotal	0.82 1.68	0.79 1.70	0.81 1.72	0.76 1.64	0.74 1.59	0.72 1.55	0.69 1.52	0.68 1.49	0.66 1.45	0.65 1.42	0.63 1.40
Natural Gas	1.41	1.41	1.42	1.43	1.44	1.43	1.42	1.40	1.39	1.38	1.36
Lease and Plant Fuel 3/ Natural Gas Subtotal	0.21 1.62	0.26 1.66	0.20 1.61	0.19 1.62	0.20 1.64	0.20 1.63	0.21 1.63	0.21 1.62	0.22 1.61	0.22 1.60	0.22 1.59
Metallurgical Coal & Coke 4/ Steam Coal	0.14 0.28	0.12 0.28	0.13 0.27	0.13 0.26	0.12 0.25	0.12 0.24	0.11 0.24	0.11 0.23	0.11 0.23	0.10 0.23	0.10 0.23
Coal Subtotal	0.42	0.40	0.40	0.39	0.38	0.36	0.35	0.34	0.34	0.33	0.32
Renewables 5/ Total	0.30 32.33	0.31 32.47	0.32 31.91	0.32 32.41	0.32 33.15	0.32 33.77	0.31 34.34	0.31 34.72	0.31 35.04	0.31 35.53	0.31 36.06

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	4.54	4.48	4.42	4.37	4.30	4.26	4.20
Electricity Related Losses	1.39	1.42	1.41	1.39	1.37	1.36	1.34	1.32	1.29	1.27	1.26
Total	6.02	6.14	6.11	5.98	5.91	5.84	5.77	5.69	5.60	5.53	5.46

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	5294	5438	5588	5746	5920	6108	6284	6429	6595	6753	6938
Nonmanufacturing	1484	1528	1564	1588	1611	1637	1672	1685	1714	1734	1769
Total	6777	6966	7152	7334	7531	7745	7956	8115	8309	8488	8707
Energy Prices (2002 dollars per million Btu)											
Distillate Oil	7.22	7.29	7.31	7.29	7.31	7.36	7.39	7.42	7.44	7.46	7.47
Liquefied Petroleum Gas	12.49	12.57	12.69	12.79	12.89	12.90	12.89	13.00	13.14	13.22	13.25
Residual Oil	5.22	5.25	5.28	5.28	5.30	5.31	5.33	5.33	5.34	5.35	5.37
Motor Gasoline	13.19	13.19	13.18	13.10	13.07	13.12	13.28	13.17	13.27	13.48	13.18
Natural Gas	4.49	4.72	4.81	4.81	4.86	4.78	4.76	4.80	4.78	4.91	5.06
Metallurgical Coal	1.93	1.92	1.91	1.91	1.90	1.89	1.89	1.87	1.84	1.82	1.81
Steam Coal	1.57	1.57	1.57	1.56	1.55	1.55	1.56	1.56	1.57	1.56	1.56
Electricity	13.66	13.75	13.87	13.87	14.04	13.95	13.97	13.94	13.86	13.85	14.03
Energy Consumption 1/ (quadrillion Btu)											
Distillate	1.18	1.21	1.22	1.24	1.25	1.27	1.28	1.30	1.31	1.33	1.35
Liquefied Petroleum Gas	2.38	2.42	2.44	2.47	2.51	2.55	2.59	2.62	2.66	2.68	2.71
Petrochemical Feedstocks	1.37	1.39	1.40	1.41	1.43	1.46	1.48	1.49	1.51	1.52	1.54
Residual Fuel	0.19	0.19	0.19	0.19	0.20	0.20	0.19	0.20	0.20	0.20	0.20
Other Petroleum 2/	4.22	4.29	4.33	4.35	4.41	4.46	4.51	4.54	4.60	4.65	4.69
Petroleum Subtotal	9.34	9.50	9.59	9.65	9.80	9.93	10.05	10.15	10.27	10.38	10.48
Natural Gas	9.09	9.17	9.25	9.35	9.49	9.65	9.81	9.93	10.06	10.16	10.28
Lease and Plant Fuel 3/	1.48	1.50	1.52	1.53	1.56	1.61	1.67	1.70	1.72	1.72	1.73
Natural Gas Subtotal	10.58	10.67	10.77	10.88	11.05	11.26	11.49	11.63	11.78	11.88	12.01
Metallurgical Coal & Coke 4/	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50
Steam Coal	1.50	1.51	1.57	1.57	1.58	1.58	1.59	1.59	1.66	1.66	1.66
Coal Subtotal	2.13	2.12	2.17	2.16	2.15	2.14	2.13	2.12	2.18	2.17	2.16
Renewables 5/	2.09	2.15	2.20	2.24	2.29	2.34	2.39	2.42	2.46	2.50	2.54
Purchased Electricity	3.95	4.01	4.07	4.12	4.20	4.28	4.35	4.40	4.45	4.51	4.58
Delivered Energy	28.09	28.45	28.79	29.05	29.49	29.95	30.41	30.72	31.15	31.44	31.77
Electricity Related Losses	8.39	8.49	8.54	8.61	8.73	8.86	8.95	9.03	9.09	9.17	9.28
Total	36.48	36.93	37.33	37.66	38.22	38.80	39.36	39.74	40.24	40.62	41.05
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)											
Distillate	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.15
Liquefied Petroleum Gas	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31
Petrochemical Feedstocks	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18
Residual Fuel	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02
Other Petroleum 2/	0.62	0.62	0.61	0.59	0.59	0.58	0.57	0.56	0.55	0.55	0.54
Petroleum Subtotal	1.38	1.36	1.34	1.32	1.30	1.28	1.26	1.25	1.24	1.22	1.20
Natural Gas	1.34	1.32	1.29	1.27	1.26	1.25	1.23	1.22	1.21	1.20	1.18
Lease and Plant Fuel 3/	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20
Natural Gas Subtotal	1.56	1.53	1.51	1.48	1.47	1.45	1.44	1.43	1.42	1.40	1.38
Metallurgical Coal & Coke 4/	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06
Steam Coal	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.19
Coal Subtotal	0.31	0.30	0.30	0.29	0.29	0.28	0.27	0.26	0.26	0.26	0.25
Renewables 5/	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.29	0.29

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	4.14	4.08	4.03	3.96	3.92	3.87	3.82	3.79	3.75	3.70	3.65
Electricity Related Losses	1.24	1.22	1.19	1.17	1.16	1.14	1.13	1.11	1.09	1.08	1.07
Total	5.38	5.30	5.22	5.14	5.07	5.01	4.95	4.90	4.84	4.79	4.72

Table 6. Industrial Sector Key Indicators and Consumption

	2023	2024	2025	2002- 2025
Value of Shipments (billion 1996 dollars)				
Manufacturing	7124	7327	7554	2.7%
Nonmanufacturing	1801	1825	1853	1.8%
Total	8925	9153	9407	2.5%
Energy Prices (2002 dollars per million Btu)				
Distillate Oil	7.49	7.61	7.63	0.9%
Liquefied Petroleum Gas	13.28	13.31	13.39	2.1%
Residual Oil	5.38	5.39	5.40	1.4%
Motor Gasoline	13.14	13.43	13.43	0.9%
Natural Gas	5.08	5.14	5.24	1.5%
Metallurgical Coal	1.79	1.78	1.77	-0.2%
Steam Coal	1.55	1.54	1.54	0.0%
Electricity	13.87	14.08	14.20	-0.2%
Energy Consumption 1/ (quadrillion Btu)				
Distillate	1.36	1.38	1.40	0.8%
Liquefied Petroleum Gas	2.74	2.77	2.80	1.0%
Petrochemical Feedstocks	1.55	1.57	1.58	1.1%
Residual Fuel	0.20	0.20	0.21	0.1%
Other Petroleum 2/ Petroleum Subtotal	4.74 10.59	4.83 10.75	4.91 10.89	0.7% 0.8%
Natural Gas	10.41	10.52	10.65	1.6%
Lease and Plant Fuel 3/ Natural Gas Subtotal	1.71 12.12	1.74 12.26	1.75 12.40	1.1% 1.5%
Metallurgical Coal & Coke 4/ Steam Coal	0.49 1.67	0.48 1.67	0.47 1.74	-1.4% 0.7%
Coal Subtotal	2.16	2.15	2.21	0.2%
Renewables 5/ Purchased Electricity	2.58 4.65	2.63 4.73	2.68 4.81	2.1% 1.5%
Delivered Energy	32.11	32.52	32.99	1.2%
Electricity Related Losses	9.39	9.51	9.64	1.1%
Total	41.50	42.03	42.63	1.2%
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)				
Distillate	0.15	0.15	0.15	-1.7%
Liquefied Petroleum Gas	0.31	0.30	0.30	-1.5%
Petrochemical Feedstocks	0.17	0.17	0.17	-1.4%
Residual Fuel	0.02	0.02	0.02	-2.4%
Other Petroleum 2/ Petroleum Subtotal	0.53 1.19	0.53 1.17	0.52 1.16	-1.8% -1.7%
Natural Gas	1.17	1.15	1.13	-0.9%
Lease and Plant Fuel 3/ Natural Gas Subtotal	0.19 1.36	0.19 1.34	0.19 1.32	-1.4% -1.0%
Metallurgical Coal & Coke 4/ Steam Coal	0.05 0.19	0.05 0.18	0.05 0.18	-3.8% -1.8%
Coal Subtotal	0.24	0.23	0.24	-2.3%
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	3.60	3.55	3.51	-1.3%
Electricity Related Losses	1.05	1.04	1.02	-1.4%
Total	4.65	4.59	4.53	-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 HW2004.D101703B. 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 HW2004.D101703B.

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	2649	2670	2698	2732	2766	2802	2850
Commercial Light Trucks (VMT) 1/	64	65	65	67	69	70	72	73	75	77	78
Freight Trucks >10000 lbs. (VMT)	201	196	197	205	212	218	224	229	235	241	248
Air (seat miles available)	953	909	906	930	955	983	1008	1041	1072	1112	1147
Rail (ton miles traveled)	1417	1336	1335	1367	1398	1439	1469	1488	1516	1542	1586
Domestic Shipping (ton miles traveled)	774	724	716	730	749	765	780	790	799	810	821
Energy Efficiency											
New Light-Duty Vehicle (MPG) 2/	24.0	23.8	24.0	24.0	24.3	24.9	24.7	25.2	25.4	25.7	25.8
New Car (MPG) 2/	28.2	28.2	28.5	28.4	28.5	28.6	28.5	28.3	28.8	29.3	29.5
New Light Truck (MPG) 2/	20.5	20.5	20.6	20.8	21.1	22.1	21.9	22.8	22.9	23.1	23.2
Light-Duty Fleet (MPG) 3/	19.8	19.7	19.6	19.5	19.5	19.5	19.5	19.5	19.6	19.7	19.8
New Commercial Light Truck (MPG) 1/	13.9	13.9	14.0	13.9	14.0	14.7	14.6	15.2	15.2	15.3	15.4
Stock Commercial Light Truck (MPG) 1/	13.7	13.8	13.9	13.9	13.9	14.0	14.1	14.2	14.3	14.5	14.6
Aircraft (seat miles per gallon)	55.3	54.8	56.7	57.1	57.5	57.9	58.3	58.7	59.3	59.8	60.6
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	16.57	16.69	16.87	17.04	17.20	17.36	17.57
Commercial Light Trucks 1/	0.58	0.59	0.58	0.60	0.62	0.63	0.64	0.64	0.65	0.66	0.67
Bus Transportation	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25
Freight Trucks	4.22	4.09	4.11	4.25	4.40	4.53	4.65	4.76	4.88	5.00	5.13
Rail, Passenger	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13
Rail, Freight	0.50	0.47	0.46	0.47	0.48	0.48	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	0.33	0.34
Air	2.97	2.84	2.72	2.78	2.87	2.97	3.06	3.15	3.23	3.32	3.39
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	0.20	0.21	0.21	0.21	0.21
Pipeline Fuel	0.64	0.65	0.68	0.66	0.67	0.67	0.68	0.69	0.69	0.71	0.72
Total	26.67	26.70	27.06	27.89	28.27	28.67	29.09	29.50	29.89	30.31	30.78
million barrels per day oil equivalent											
Light-Duty Vehicles	7.98	8.20	8.37	8.67	8.73	8.79	8.88	8.97	9.06	9.14	9.25
Commercial Light Trucks 1/	0.31	0.31	0.31	0.32	0.33	0.33	0.34	0.34	0.34	0.35	0.35
Bus Transportation	0.12	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12
Freight Trucks	2.00	1.94	1.95	2.01	2.08	2.14	2.20	2.25	2.31	2.37	2.43
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	0.23	0.24
Shipping, Domestic	0.16	0.15	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Shipping, International	0.34	0.28	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32
Recreational Boats	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18
Air	1.44	1.38	1.32	1.35	1.39	1.44	1.48	1.52	1.56	1.61	1.64
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	0.35	0.35	0.36	0.36
Total	13.50	13.54	13.73	14.15	14.34	14.54	14.75	14.95	15.14	15.35	15.59

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)	2902	2966	3029	2969	3095	3178	3275	3320	3396	3460	3473
Commercial Light Trucks (VMT) 1/	80	82	84	85	88	90	93	95	97	99	101
Freight Trucks >10000 lbs. (VMT)	255	262	268	275	282	290	297	304	311	318	326
Air (seat miles available)	1192	1236	1284	1327	1356	1386	1411	1435	1455	1473	1489
Rail (ton miles traveled)	1610	1642	1675	1703	1742	1775	1806	1837	1878	1910	1945
Domestic Shipping (ton miles traveled)	831	843	854	864	878	894	911	923	934	942	951
Energy Efficiency											
New Light-Duty Vehicle (MPG) 2/	26.2	26.3	26.4	26.6	26.7	26.8	27.0	27.1	27.1	27.3	27.4
New Car (MPG) 2/	30.1	30.1	30.3	30.6	30.6	30.9	31.1	31.2	31.2	31.3	31.5
New Light Truck (MPG) 2/	23.5	23.6	23.7	24.0	24.1	24.2	24.4	24.5	24.6	24.8	24.9
Light-Duty Fleet (MPG) 3/	19.9	20.0	20.1	20.2	20.3	20.5	20.6	20.7	20.9	21.0	21.1
New Commercial Light Truck (MPG) 1/	15.6	15.6	15.7	15.9	16.0	16.1	16.2	16.3	16.3	16.4	16.5
Stock Commercial Light Truck (MPG) 1/	14.7	14.8	14.9	15.1	15.2	15.3	15.4	15.6	15.7	15.8	15.9
Aircraft (seat miles per gallon)	61.3	62.3	63.3	64.3	65.2	66.0	66.7	67.4	68.0	68.5	69.0
Freight Truck (MPG)	6.1	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.5	6.5
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	17.79	18.07	18.35	17.86	18.50	18.87	19.32	19.45	19.77	20.04	20.01
Commercial Light Trucks 1/	0.68	0.70	0.71	0.71	0.72	0.74	0.75	0.76	0.77	0.78	0.79
Bus Transportation	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Freight Trucks	5.25	5.37	5.48	5.57	5.66	5.77	5.87	5.95	6.04	6.14	6.25
Rail, Passenger	0.13	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16
Rail, Freight	0.51	0.52	0.52	0.52	0.53	0.54	0.54	0.54	0.55	0.55	0.56
Shipping, Domestic	0.36	0.36	0.36	0.37	0.37	0.38	0.39	0.39	0.39	0.40	0.40
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	0.35	0.36	0.36	0.36	0.37	0.37	0.37
Air	3.48	3.56	3.63	3.70	3.74	3.78	3.84	3.89	3.92	3.96	4.00
Military Use	0.78	0.79	0.79	0.80	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	0.73	0.73	0.73	0.73	0.74	0.78	0.82	0.83	0.84	0.85	0.85
Total	31.25	31.77	32.26	31.94	32.77	33.38	34.06	34.36	34.86	35.29	35.45
million barrels per day oil equivalent											
Light-Duty Vehicles	9.36	9.51	9.65	9.40	9.73	9.92	10.16	10.23	10.39	10.53	10.52
Commercial Light Trucks 1/	0.36	0.37	0.37	0.37	0.38	0.39	0.40	0.40	0.41	0.41	0.42
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	2.48	2.54	2.59	2.63	2.68	2.73	2.77	2.81	2.86	2.90	2.95
Rail, Passenger	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Rail, Freight	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
Shipping, Domestic	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
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	1.68	1.72	1.76	1.79	1.81	1.83	1.86	1.88	1.90	1.92	1.93
Military Use	0.38	0.38	0.38	0.38	0.38	0.39	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	0.37	0.37	0.37	0.37	0.37	0.39	0.42	0.42	0.43	0.43	0.43
Total	15.82	16.08	16.33	16.15	16.57	16.88	17.23	17.38	17.63	17.85	17.92

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)	3511	3612	3675	1.7%
Commercial Light Trucks (VMT) 1/	103	106	108	2.3%
Freight Trucks >10000 lbs. (VMT)	334	342	352	2.6%
Air (seat miles available)	1501	1514	1521	2.3%
Rail (ton miles traveled)	1992	2028	2069	1.9%
Domestic Shipping (ton miles traveled)	960	973	982	1.3%
Energy Efficiency				
New Light-Duty Vehicle (MPG) 2/				
New Car (MPG) 2/	31.5	31.6	31.7	0.5%
New Light Truck (MPG) 2/	25.0	25.2	25.3	0.9%
Light-Duty Fleet (MPG) 3/				
New Commercial Light Truck (MPG) 1/	16.6	16.7	16.8	0.8%
Stock Commercial Light Truck (MPG) 1/	16.0	16.1	16.2	0.7%
Aircraft (seat miles per gallon)	69.5	69.9	70.3	1.1%
Freight Truck (MPG)	6.6	6.6	6.6	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	20.14	20.62	20.89	1.3%
Commercial Light Trucks 1/	0.80	0.82	0.84	1.5%
Bus Transportation	0.25	0.25	0.25	0.1%
Freight Trucks	6.37	6.50	6.65	2.1%
Rail, Passenger	0.16	0.16	0.16	1.6%
Rail, Freight	0.57	0.57	0.58	0.9%
Shipping, Domestic	0.40	0.41	0.41	1.1%
Shipping, International	0.73	0.73	0.74	0.6%
Recreational Boats	0.38	0.38	0.39	0.9%
Air	4.03	4.06	4.09	1.6%
Military Use	0.82	0.82	0.82	0.9%
Lubricants	0.27	0.27	0.28	1.4%
Pipeline Fuel	0.84	0.86	0.87	1.3%
Total	35.75	36.46	36.96	1.4%
million barrels per day oil equivalent				
Light-Duty Vehicles	10.58	10.83	10.97	1.3%
Commercial Light Trucks 1/	0.42	0.43	0.44	1.6%
Bus Transportation	0.12	0.12	0.12	0.1%
Freight Trucks	3.01	3.07	3.14	2.1%
Rail, Passenger	0.07	0.08	0.08	1.6%
Rail, Freight	0.27	0.27	0.27	0.9%
Shipping, Domestic	0.18	0.19	0.19	1.1%

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2023	2024	2025	2002-2025
Shipping, International	0.32	0.32	0.32	0.6%
Recreational Boats	0.20	0.20	0.20	0.9%
Air	1.95	1.96	1.98	1.6%
Military Use	0.39	0.39	0.39	0.9%
Lubricants	0.13	0.13	0.13	1.4%
Pipeline Fuel	0.43	0.44	0.44	1.3%
Total	18.07	18.43	18.68	1.4%

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 reports.

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 HW2004.D101703B.

**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	1946	1944	2000	2056	2104	2126	2169	2196	2228
Petroleum	113	77	97	52	38	39	40	40	34	34	36
Natural Gas 3/	427	450	417	502	520	540	557	596	617	647	680
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	337	374	379	383	388	392	396	405	411
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	3602	3679	3763	3834	3901	3960	4030	4110
Combined Heat and Power 5/											
Coal	31	32	28	29	30	32	33	33	33	33	33
Petroleum	6	6	3	0	0	0	0	0	0	0	0
Natural Gas	128	148	151	157	160	162	166	171	178	178	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	162	166	170	174	179	185	192	191	189
Net Available to the Grid	3551	3626	3674	3768	3849	3936	4013	4086	4152	4221	4298
End-Use Sector Generation											
Combined Heat and Power 6/											
Coal	21	21	21	21	21	21	21	21	23	24	26
Petroleum	6	5	5	5	8	8	10	11	11	11	11
Natural Gas	83	84	84	86	89	93	96	100	104	109	113
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	36	37	38	40
Other 8/	9	11	11	11	11	11	11	11	11	11	11
Total	151	157	158	162	172	176	182	188	195	203	211
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	-151	-154	-157	-160
Total Sales to the Grid	25	27	28	30	32	34	38	42	46	51	55
Total Electricity Generation	3734	3831	3899	3997	4089	4181	4265	4343	4413	4491	4575
Net Imports	22	22	40	31	32	28	28	29	29	33	32
Electricity Sales by Sector											
Residential	1203	1268	1282	1302	1318	1337	1358	1384	1402	1424	1446
Commercial	1197	1208	1213	1253	1295	1332	1368	1402	1437	1472	1508
Industrial	964	994	978	1001	1023	1049	1069	1084	1100	1116	1138

**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	24	25	25	26	26
Total	3386	3492	3495	3579	3659	3742	3819	3895	3964	4039	4117
End-Use Prices 10/ (2002 cents per kilowatthour)											
Residential	8.7	8.4	8.5	8.4	8.3	8.2	8.1	8.0	8.0	8.0	8.0
Commercial	8.0	7.8	7.6	7.4	7.2	7.1	7.0	7.0	7.1	7.1	7.1
Industrial	5.2	5.0	4.8	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Transportation	7.4	7.2	7.3	7.1	6.9	6.8	6.7	6.7	6.7	6.8	6.8
All Sectors Average	7.4	7.2	7.1	7.0	6.9	6.8	6.7	6.7	6.7	6.7	6.7
Prices by Service Category 10/ (2002 cents per kilowatthour)											
Generation	4.8	4.6	4.6	4.4	4.4	4.3	4.2	4.2	4.2	4.2	4.2
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	10.55	10.50	10.62	10.41	10.24	9.88	9.96	9.93	9.68
Nitrogen Oxide (million tons)	4.75	4.39	3.70	3.23	3.27	3.35	3.42	3.44	3.46	3.48	3.50
Mercury (tons)	49.14	50.95	50.69	49.47	50.69	51.73	51.97	51.11	51.73	52.19	52.58

**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	2245	2276	2307	2347	2393	2445	2500	2575	2661	2728	2785
Petroleum	39	41	41	40	41	40	40	40	39	39	39
Natural Gas 3/	729	757	791	819	847	874	901	906	902	908	924
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/	415	418	422	425	428	432	434	438	440	445	449
Distributed Generation (Natural Gas)	0	1	1	1	1	2	2	2	3	3	4
Non-Utility Generation for Own Use	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37
Total	4185	4252	4324	4397	4479	4563	4647	4732	4814	4893	4971
Combined Heat and Power 5/											
Coal	33	34	34	34	33	33	33	33	33	33	33
Petroleum	0	1	1	1	1	1	1	1	0	0	1
Natural Gas	177	176	170	166	166	165	165	162	160	158	156
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	190	190	184	181	180	179	179	176	173	172	170
Net Available to the Grid	4375	4442	4508	4578	4659	4742	4826	4908	4988	5064	5141
End-Use Sector Generation											
Combined Heat and Power 6/											
Coal	26	26	30	30	30	30	30	30	33	33	33
Petroleum	12	12	13	13	13	13	13	14	14	14	14
Natural Gas	117	120	124	127	131	135	140	144	149	154	159
Other Gaseous Fuels 7/	10	10	10	11	11	11	11	11	11	11	11
Renewable Sources 4/	41	42	44	45	46	47	48	48	49	50	51
Other 8/	11	11	11	11	11	11	11	11	11	11	11
Total	217	223	232	237	242	247	253	259	268	274	280
Other End-Use Generators 9/	5	5	5	5	5	5	5	5	5	6	6
Generation for Own Use	-164	-166	-169	-172	-174	-177	-180	-183	-186	-189	-193
Total Sales to the Grid	58	61	68	70	73	75	78	81	87	90	93
Total Electricity Generation	4658	4731	4806	4881	4967	5055	5145	5233	5323	5405	5488
Net Imports	32	33	33	34	31	28	25	21	22	18	16
Electricity Sales by Sector											
Residential	1470	1486	1506	1528	1553	1571	1592	1615	1643	1660	1680
Commercial	1542	1577	1610	1643	1675	1710	1748	1786	1824	1860	1893
Industrial	1156	1175	1192	1208	1231	1253	1274	1289	1306	1323	1342

**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	26	27	27	28	28	29	30	30	31	31	32
Total	4195	4265	4335	4407	4487	4563	4644	4721	4803	4875	4947
End-Use Prices 10/ (2002 cents per kilowatthour)											
Residential	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.0	8.0	8.1
Commercial	7.2	7.2	7.2	7.2	7.3	7.3	7.3	7.2	7.2	7.2	7.3
Industrial	4.7	4.7	4.7	4.7	4.8	4.8	4.8	4.8	4.7	4.7	4.8
Transportation	6.9	6.9	7.0	6.9	7.0	6.9	6.9	6.9	6.8	6.8	6.8
All Sectors Average	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.9
Prices by Service Category 10/ (2002 cents per kilowatthour)											
Generation	4.3	4.4	4.4	4.4	4.5	4.4	4.5	4.5	4.4	4.4	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	1.7	1.7	1.7
Electric Power Sector Emissions 1/											
Sulfur Dioxide (million tons)	9.36	9.14	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95
Nitrogen Oxide (million tons)	3.52	3.54	3.55	3.57	3.60	3.62	3.61	3.63	3.65	3.65	3.67
Mercury (tons)	52.68	52.59	52.66	52.93	53.07	53.35	53.41	53.80	53.76	53.95	54.00

**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	2886	2941	3002	2.1%
Petroleum	39	39	40	-2.8%
Natural Gas 3/	913	940	955	3.3%
Nuclear Power	816	816	816	0.2%
Pumped Storage/Other	-9	-9	-9	0.3%
Renewable Sources 4/	450	453	456	1.8%
Distributed Generation (Natural Gas)	4	5	5	N/A
Non-Utility Generation for Own Use	-37	-37	-37	0.4%
Total	5062	5148	5228	1.8%
Combined Heat and Power 5/				
Coal	33	33	33	0.1%
Petroleum	0	1	1	-8.6%
Natural Gas	150	152	151	0.1%
Renewable Sources	4	4	4	-0.7%
Non-Utility Generation for Own Use	-24	-24	-24	3.6%
Total	164	166	165	-0.4%
Net Available to the Grid	5226	5314	5394	1.7%
End-Use Sector Generation				
Combined Heat and Power 6/				
Coal	33	33	37	2.5%
Petroleum	14	14	14	4.5%
Natural Gas	163	169	174	3.2%
Other Gaseous Fuels 7/	11	12	12	3.8%
Renewable Sources 4/	52	53	54	2.6%
Other 8/	11	11	11	0.0%
Total	285	292	302	2.9%
Other End-Use Generators 9/	6	6	6	1.9%
Generation for Own Use	-196	-200	-204	1.8%
Total Sales to the Grid	95	98	105	6.0%
Total Electricity Generation	5579	5673	5763	1.8%
Net Imports	12	10	8	-4.3%
Electricity Sales by Sector				
Residential	1703	1729	1745	1.4%
Commercial	1927	1962	2000	2.2%
Industrial	1364	1386	1411	1.5%

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

	2023	2024	2025	2002- 2025
Transportation	32	33	34	1.9%
Total	5026	5110	5190	1.7%
End-Use Prices 10/ (2002 cents per kilowatthour)				
Residential	8.0	8.1	8.2	-0.1%
Commercial	7.2	7.3	7.4	-0.2%
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	4.6	0.0%
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)	8.95	8.95	8.95	-0.7%
Nitrogen Oxide (million tons)	3.69	3.72	3.73	-0.7%
Mercury (tons)	53.97	54.04	54.05	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 HW2004.D101703B. Projections: EIA, AEO2004 National Energy Modeling System run HW2004.D101703B.

**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	302.1	299.9	300.6	302.0	304.4	307.3
Other Fossil Steam 4/	133.8	132.5	130.1	129.8	127.7	126.0	123.4	122.2	110.0	103.7	101.8
Combined Cycle	43.0	81.0	114.5	120.7	121.4	121.4	121.8	121.8	122.8	126.0	130.5
Combustion Turbine/Diesel	97.3	123.5	129.8	130.2	134.2	133.9	133.3	133.8	127.3	129.6	132.8
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	95.4	96.0	96.5	98.6	99.7
Distributed Generation (Natural Gas) 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.5	0.7
Total	788.0	853.1	892.6	898.7	901.0	898.6	894.5	895.4	879.6	883.7	893.8
Combined Heat and Power 8/											
Coal Steam	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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	44.9	44.9
Total Electric Power Industry	821.8	894.5	936.9	943.7	946.1	943.7	939.6	940.5	924.6	928.6	938.7
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	0.0	1.2	3.2	5.6	8.5
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	0.4	0.4	2.3	5.5	10.0
Combustion Turbine/Diesel	0.0	0.0	0.0	0.3	4.0	4.0	4.0	4.5	6.4	9.9	13.2
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	0.0	0.3	0.6	2.6	3.7

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Distributed Generation 7/ Total	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.5	0.7
Cumulative Total Additions	0.0	0.0	45.1	53.2	58.5	59.7	60.9	63.4	69.8	81.1	93.2
Cumulative Retirements 10/ Coal Steam	0.0	0.0	0.4	1.7	2.7	4.7	7.0	7.5	8.1	8.1	8.1
Other Fossil Steam 4/ Combined Cycle	0.0	0.0	0.5	0.8	2.9	4.6	7.2	8.4	20.6	26.9	28.8
Combustion Turbine/Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	1.1
Nuclear Power	0.0	0.0	0.3	0.3	0.6	1.0	1.6	1.6	10.0	11.1	11.2
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	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	0.0	0.0	1.2	3.0	6.3	10.4	15.8	17.6	39.9	47.4	49.5
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	4.4	4.6	4.8
Petroleum	1.0	1.0	1.0	1.0	1.2	1.3	1.3	1.4	1.5	1.5	1.5
Natural Gas	13.9	14.1	14.2	14.6	15.1	15.6	16.0	16.5	17.1	17.7	18.2
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/ Other	4.0	4.2	4.2	4.5	4.7	4.9	5.1	5.2	5.3	5.5	5.8
	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	27.5	28.5	29.0	29.7	30.8	31.8	32.9
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/ Other End-Use Generators 12/	0.0	0.0	0.2	0.8	2.0	3.0	3.5	4.3	5.3	6.3	7.4
	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	308.5	312.0	315.6	320.6	326.6	333.9	341.2	351.9	364.3	373.8	381.7
Other Fossil Steam 4/	100.9	100.5	100.2	99.0	99.0	98.4	98.0	97.3	96.7	96.7	96.3
Combined Cycle	134.5	139.0	147.4	154.8	157.2	161.3	165.7	169.5	173.1	179.7	184.4
Combustion Turbine/Diesel	136.1	141.2	144.4	150.8	151.2	154.0	157.6	160.5	161.8	166.0	170.1
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/	100.5	101.0	101.5	102.1	102.9	103.8	104.3	105.2	105.5	106.5	107.2
Distributed Generation (Natural Gas) 7/	0.9	1.2	1.6	2.2	2.6	3.5	4.5	5.6	6.6	7.7	8.8
Total	902.8	916.6	932.8	951.9	962.2	978.0	994.3	1013.1	1031.0	1053.4	1071.5
Combined Heat and Power 8/											
Coal Steam	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
Total Electric Power Industry	947.6	961.5	977.7	996.7	1007.1	1022.8	1039.1	1058.0	1075.9	1098.3	1116.4
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	9.8	13.2	17.4	22.4	28.3	35.7	44.3	54.9	67.3	77.7	85.6
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	14.0	18.5	26.9	34.3	36.7	40.9	45.2	49.1	52.7	59.2	64.0
Combustion Turbine/Diesel	16.7	21.9	25.1	31.5	31.9	34.7	38.3	41.2	42.8	47.7	51.9
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/	4.4	4.8	5.2	5.7	6.6	7.4	7.9	8.8	9.1	10.1	10.7

**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	1.6	2.2	2.6	3.5	4.5	5.6	6.6	7.7	8.8
Cumulative Total Additions	102.9	116.9	133.6	153.4	163.5	179.6	197.6	217.2	236.0	259.9	278.4
Cumulative Retirements 10/ Coal Steam	8.1	8.1	8.7	8.7	8.7	8.7	10.0	10.0	10.0	10.8	10.8
Other Fossil Steam 4/ Combined Cycle	29.7	30.1	30.4	31.6	31.6	32.2	32.6	33.3	33.9	33.9	34.3
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	11.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.9	12.6	12.6
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
	50.6	51.1	51.9	53.1	53.1	53.7	55.4	56.1	57.0	58.6	59.0
End-Use Sector Generators											
Combined Heat and Power 11/ Coal	4.8	4.8	5.3	5.3	5.3	5.3	5.3	5.3	5.7	5.7	5.7
Petroleum	1.6	1.6	1.7	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8
Natural Gas	18.8	19.2	19.7	20.2	20.7	21.3	21.9	22.5	23.2	23.8	24.5
Other Gaseous Fuels	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5
Renewable Sources 6/ Other	6.0	6.2	6.4	6.6	6.8	7.0	7.1	7.3	7.4	7.6	7.7
Other	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	34.6	35.9	36.6	37.3	38.0	38.8	39.6	40.9	41.7	42.6
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/	8.3	9.1	10.4	11.1	11.8	12.5	13.3	14.1	15.4	16.2	17.1
	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	397.1	404.4	412.9	1.3%
Other Fossil Steam 4/	95.5	95.4	94.8	-1.4%
Combined Cycle	189.2	192.3	195.2	3.9%
Combustion Turbine/Diesel	171.6	173.8	176.6	1.6%
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/	107.3	107.9	108.5	0.7%
Distributed Generation (Natural Gas) 7/	9.7	10.8	11.8	N/A
Total	1093.5	1107.6	1122.7	1.2%
Combined Heat and Power 8/				
Coal Steam	5.2	5.2	5.2	0.0%
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	44.9	44.9	44.9	0.3%
Total Electric Power Industry	1138.3	1152.5	1167.6	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	101.0	108.3	117.0	N/A
Other Fossil Steam 4/	0.0	0.0	0.0	N/A
Combined Cycle	68.8	71.9	74.7	N/A
Combustion Turbine/Diesel	53.9	56.0	58.8	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/	10.8	11.4	12.0	N/A

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

	2023	2024	2025	2002- 2025
Distributed Generation 7/ Total	9.7	10.8	11.8	N/A
	244.2	258.3	274.3	N/A
Cumulative Total Additions	301.7	315.9	331.9	N/A
Cumulative Retirements 10/ Coal Steam	10.8	10.8	11.1	N/A
Other Fossil Steam 4/ Combined Cycle	35.1	35.2	35.8	N/A
Combustion Turbine/Diesel	1.1	1.1	1.1	N/A
Nuclear Power	13.1	13.1	13.1	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
	60.3	60.3	61.2	N/A
End-Use Sector Generators				
Combined Heat and Power 11/ Coal	5.7	5.7	6.2	1.7%
Petroleum	1.8	1.8	1.8	2.8%
Natural Gas	25.1	25.9	26.6	2.8%
Other Gaseous Fuels	2.5	2.5	2.5	1.5%
Renewable Sources 6/ Other	7.9	8.0	8.2	3.0%
Total	0.3	0.3	0.3	N/A
	43.3	44.2	45.6	2.6%
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/	17.9	18.7	20.1	N/A
	0.8	0.9	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 HW2004.D101703B.

**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	208.7	214.8	230.5	240.5	244.9	247.1	239.6	238.5
Gross Domestic Trade	324.8	348.8	362.1	341.1	340.1	347.5	357.5	360.0	361.5	346.7	338.3
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	9126.4	7025.9	7124.5	7617.0	8057.2	8436.0	8605.7	8387.5	8631.9
Gross Domestic Sales (million 2002 dollars)											
	15997.0	13742.1	15949.5	13637.6	13380.2	13457.8	13896.7	14179.3	14314.9	13733.2	13614.1
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	39.2	36.3	38.4	38.5	37.9	39.2	40.1	43.0	42.7
Gross Imports from Canada & Mexico	38.4	36.3	52.8	47.4	49.1	45.3	44.6	46.0	46.6	48.9	47.9
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	228.8	229.9	231.9	232.2	229.4	235.9	221.7	217.9	210.6	202.6	198.6
Gross Domestic Trade	321.3	315.2	309.8	302.8	292.8	292.0	270.6	263.1	252.1	244.1	240.1
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)											
	8729.0	9128.5	9328.2	9317.2	9342.9	9439.7	8878.4	8774.7	8340.6	8132.6	8055.4
Gross Domestic Sales (million 2002 dollars)											
	13347.7	13383.7	13219.9	12845.5	12507.7	12240.9	11316.1	11030.7	10414.8	10206.8	10129.6
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	42.0	42.6	41.8	42.8	39.9	36.5	33.4	28.9	29.5	25.4	23.6
Gross Imports from Canada & Mexico	46.5	46.5	45.0	45.4	41.9	37.9	34.1	29.2	29.5	25.4	23.7
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	194.1	194.5	198.2	-0.3%
Gross Domestic Trade	235.7	236.1	239.8	-1.6%
Gross Domestic Firm Power Sales (million 2002 dollars)				
	2074.2	2074.2	2074.2	-5.1%
Gross Domestic Economy Sales (million 2002 dollars)				
	7714.2	7857.6	8162.0	0.8%
Gross Domestic Sales (million 2002 dollars)				
	9788.4	9931.8	10236.2	-1.3%
International Electricity Trade				
Firm Power Imports from Canada & Mexico	0.0	0.0	0.0	-21.9%
Economy Imports from Canada & Mexico	19.5	17.1	15.7	-2.3%
Gross Imports from Canada & Mexico	19.5	17.2	15.7	-3.6%
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 HW2004.D101703B.

**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
Crude Oil											
Domestic Crude Production 1/	5.74	5.62	5.69	5.82	5.87	6.05	6.24	6.29	6.26	6.17	6.07
Alaska	0.96	0.98	0.98	0.97	0.89	0.88	0.93	0.96	0.98	0.97	0.98
Lower 48 States	4.78	4.64	4.71	4.85	4.97	5.17	5.31	5.33	5.29	5.20	5.10
Net Imports	9.31	9.13	9.52	9.73	9.52	9.43	9.54	9.63	9.84	10.12	10.36
Gross Imports	9.33	9.14	9.53	9.74	9.59	9.52	9.63	9.73	9.93	10.21	10.44
Exports	0.02	0.01	0.01	0.01	0.07	0.08	0.09	0.09	0.09	0.09	0.08
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
Total Crude Supply	15.07	14.83	15.39	15.72	15.39	15.48	15.78	15.93	16.11	16.29	16.43
Natural Gas Plant Liquids	1.87	1.88	1.72	1.90	2.19	2.22	2.26	2.26	2.27	2.31	2.33
Other Inputs 3/	0.30	0.67	0.35	0.39	0.44	0.45	0.48	0.50	0.54	0.53	0.53
Refinery Processing Gain 4/	0.93	0.98	0.93	0.94	0.86	0.86	0.84	0.84	0.84	0.84	0.85
Net Product Imports 5/	1.59	1.41	1.47	1.68	1.43	1.52	1.42	1.50	1.42	1.42	1.54
Gross Refined Product Imports 6/	2.08	1.92	2.00	2.09	1.97	2.06	1.93	2.00	1.90	1.89	2.01
Unfinished Oil Imports	0.38	0.41	0.39	0.50	0.35	0.36	0.38	0.40	0.41	0.43	0.44
Ether Imports	0.08	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exports	0.95	0.97	0.97	0.97	0.89	0.90	0.89	0.89	0.90	0.90	0.90
Total Primary Supply 7/	19.75	19.77	19.87	20.62	20.31	20.53	20.78	21.03	21.17	21.39	21.68
Refined Petroleum Products Supplied											
Motor Gasoline 8/	8.62	8.86	9.04	9.34	9.41	9.47	9.55	9.63	9.70	9.77	9.88
Jet Fuel 9/	1.66	1.61	1.57	1.61	1.66	1.71	1.75	1.80	1.84	1.88	1.92
Distillate Fuel 10/	3.88	3.68	3.77	3.85	3.93	4.01	4.08	4.15	4.19	4.27	4.35
Residual Fuel	0.86	0.74	0.85	0.65	0.58	0.59	0.59	0.60	0.59	0.59	0.60
Other 11/	4.69	4.72	4.67	4.69	4.73	4.76	4.81	4.86	4.86	4.88	4.93
Total	19.71	19.61	19.90	20.14	20.30	20.53	20.78	21.03	21.17	21.39	21.69
Refined Petroleum Products Supplied											
Residential and Commercial	1.23	1.22	1.28	1.32	1.30	1.30	1.30	1.30	1.30	1.30	1.29
Industrial 12/	4.79	4.80	4.77	4.73	4.76	4.79	4.83	4.88	4.86	4.89	4.95
Transportation	13.14	13.21	13.40	13.84	14.05	14.25	14.46	14.65	14.84	15.04	15.27
Electric Generators 13/	0.55	0.38	0.46	0.25	0.19	0.19	0.19	0.20	0.17	0.17	0.18
Total	19.71	19.61	19.90	20.14	20.30	20.53	20.78	21.03	21.17	21.39	21.69
Discrepancy 14/	0.04	0.16	-0.04	0.48	0.01	0.00	0.00	0.00	0.00	0.00	-0.01
World Oil Price (2002 dollars per barrel) 15/	22.25	23.68	29.16	30.80	31.16	31.61	32.03	32.43	32.90	33.27	33.61
Import Share of Product Supplied	0.55	0.54	0.55	0.57	0.54	0.53	0.53	0.53	0.53	0.54	0.55
Net Expenditures for Imports of Crude Oil and											

**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
Petroleum Products (billion 2002 dollars)	90.15	90.38	116.06	125.59	125.68	127.54	129.19	132.70	135.89	140.96	147.02
Domestic Refinery Distillation Capacity 16/	16.8	16.8	16.9	16.9	17.0	17.3	17.5	17.7	17.9	18.0	18.1
Capacity Utilization Rate (percent)	93.0	91.0	91.0	94.0	91.6	90.9	91.5	91.1	91.4	91.7	91.8

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Crude Oil											
Domestic Crude Production 1/	5.95	5.88	5.85	5.87	5.81	5.70	5.74	5.65	5.48	5.35	5.25
Alaska	0.98	1.00	1.03	1.01	0.98	0.94	0.89	0.83	0.78	0.73	0.68
Lower 48 States	4.96	4.88	4.82	4.86	4.83	4.76	4.84	4.82	4.69	4.63	4.57
Net Imports	10.72	10.99	11.20	11.24	11.65	11.90	12.10	12.39	12.77	13.10	13.38
Gross Imports	10.79	11.06	11.27	11.32	11.72	11.97	12.17	12.46	12.83	13.15	13.42
Exports	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.05	0.05
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
Total Crude Supply	16.66	16.87	17.05	17.12	17.46	17.61	17.84	18.04	18.25	18.45	18.63
Natural Gas Plant Liquids	2.35	2.36	2.38	2.38	2.42	2.47	2.53	2.56	2.58	2.58	2.58
Other Inputs 3/	0.53	0.53	0.57	0.58	0.60	0.62	0.62	0.63	0.67	0.67	0.67
Refinery Processing Gain 4/	0.85	0.86	0.86	0.85	0.87	0.88	0.88	0.89	0.90	0.91	0.91
Net Product Imports 5/	1.61	1.71	1.77	1.55	1.65	1.77	1.87	1.83	1.85	1.91	1.87
Gross Refined Product Imports 6/	2.04	2.14	2.18	1.94	2.03	2.14	2.23	2.16	2.17	2.22	2.16
Unfinished Oil Imports	0.47	0.48	0.50	0.51	0.54	0.55	0.58	0.59	0.61	0.63	0.65
Ether Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exports	0.91	0.91	0.91	0.90	0.92	0.93	0.93	0.93	0.94	0.94	0.94
Total Primary Supply 7/	21.99	22.33	22.63	22.48	22.99	23.34	23.74	23.94	24.25	24.52	24.65
Refined Petroleum Products Supplied											
Motor Gasoline 8/	9.98	10.12	10.26	10.00	10.32	10.51	10.74	10.80	10.96	11.10	11.08
Jet Fuel 9/	1.97	2.00	2.04	2.07	2.09	2.12	2.14	2.17	2.19	2.21	2.22
Distillate Fuel 10/	4.44	4.52	4.59	4.65	4.73	4.80	4.87	4.93	5.00	5.07	5.14
Residual Fuel	0.62	0.62	0.63	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.64
Other 11/	5.00	5.07	5.11	5.15	5.23	5.30	5.37	5.42	5.48	5.53	5.58
Total	22.00	22.34	22.63	22.49	23.01	23.36	23.76	23.95	24.26	24.54	24.66
Refined Petroleum Products Supplied											
Residential and Commercial	1.30	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
Industrial 12/	5.01	5.09	5.14	5.18	5.26	5.33	5.40	5.45	5.52	5.58	5.63
Transportation	15.50	15.76	16.00	15.83	16.25	16.54	16.87	17.01	17.26	17.48	17.55
Electric Generators 13/	0.19	0.20	0.20	0.19	0.20	0.20	0.20	0.20	0.19	0.19	0.19
Total	22.00	22.34	22.63	22.49	23.01	23.36	23.76	23.95	24.26	24.54	24.66
Discrepancy 14/	-0.01	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.01	-0.01	-0.01
World Oil Price (2002 dollars per barrel) 15/	33.82	34.01	34.16	34.23	34.30	34.39	34.47	34.55	34.63	34.70	34.79
Import Share of Product Supplied	0.56	0.57	0.57	0.57	0.58	0.59	0.59	0.59	0.60	0.61	0.62
Net Expenditures for Imports of Crude Oil and											

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Petroleum Products (billion 2002 dollars)	153.03	158.77	162.88	160.30	167.20	172.74	177.24	180.66	186.21	191.72	194.95
Domestic Refinery Distillation Capacity 16/	18.3	18.6	18.8	19.0	19.1	19.3	19.5	19.7	19.8	20.0	20.2
Capacity Utilization Rate (percent)	92.1	92.2	92.2	91.6	92.5	92.3	92.7	93.0	93.3	93.4	93.5

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

	2023	2024	2025	2002- 2025
Crude Oil				
Domestic Crude Production 1/	5.23	5.09	4.85	-0.6%
Alaska	0.62	0.58	0.55	-2.5%
Lower 48 States	4.60	4.51	4.31	-0.3%
Net Imports	13.60	13.96	14.34	2.0%
Gross Imports	13.64	14.00	14.37	2.0%
Exports	0.05	0.04	0.03	5.3%
Other Crude Supply 2/	0.00	0.00	0.00	N/A
Total Crude Supply	18.82	19.05	19.19	1.1%
Natural Gas Plant Liquids	2.54	2.56	2.55	1.3%
Other Inputs 3/	0.67	0.68	0.71	0.3%
Refinery Processing Gain 4/	0.91	0.93	0.94	-0.2%
Net Product Imports 5/	1.92	2.09	2.22	2.0%
Gross Refined Product Imports 6/	2.19	2.35	2.47	1.1%
Unfinished Oil Imports	0.67	0.69	0.70	2.4%
Ether Imports	0.00	0.00	0.00	N/A
Exports	0.94	0.95	0.95	-0.1%
Total Primary Supply 7/	24.86	25.30	25.62	1.1%
Refined Petroleum Products Supplied				
Motor Gasoline 8/	11.14	11.39	11.53	1.1%
Jet Fuel 9/	2.24	2.26	2.27	1.5%
Distillate Fuel 10/	5.22	5.31	5.41	1.7%
Residual Fuel	0.63	0.64	0.64	-0.6%
Other 11/	5.64	5.72	5.79	0.9%
Total	24.87	25.31	25.63	1.2%
Refined Petroleum Products Supplied				
Residential and Commercial	1.28	1.29	1.28	0.2%
Industrial 12/	5.69	5.77	5.85	0.9%
Transportation	17.71	18.06	18.31	1.4%
Electric Generators 13/	0.19	0.20	0.20	-2.7%
Total	24.87	25.31	25.63	1.2%
Discrepancy 14/	-0.02	-0.01	-0.01	N/A
World Oil Price (2002 dollars per barrel) 15/	34.87	34.95	35.03	1.7%
Import Share of Product Supplied	0.62	0.63	0.65	0.8%
Net Expenditures for Imports of Crude Oil and				

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

	2023	2024	2025	2002- 2025
Petroleum Products (billion 2002 dollars)	198.83	206.36	213.44	3.8%
Domestic Refinery Distillation Capacity 16/	20.4	20.5	20.6	0.9%
Capacity Utilization Rate (percent)	93.6	94.2	94.3	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

**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	29.16	30.80	31.16	31.61	32.03	32.43	32.90	33.27	33.61
Delivered Sector Product Prices											
Residential											
Distillate Fuel	126.1	114.2	126.3	115.2	128.5	127.0	127.2	127.6	128.4	129.4	129.8
Liquefied Petroleum Gas	129.1	110.8	141.4	138.6	134.0	135.8	134.9	136.4	137.5	138.5	139.4
Commercial											
Distillate Fuel	88.5	84.1	93.1	84.9	95.2	93.8	94.2	95.0	95.6	96.5	96.9
Residual Fuel	52.5	63.1	74.4	61.9	77.7	78.8	79.7	80.7	81.8	82.6	83.5
Residual Fuel (2002 dollars per barrel)	22.07	26.48	31.23	25.98	32.65	33.08	33.49	33.89	34.35	34.70	35.06
Industrial 1/											
Distillate Fuel	91.8	86.2	95.2	86.9	97.4	96.2	96.7	98.0	98.4	99.3	99.6
Liquefied Petroleum Gas	107.1	71.1	90.6	88.6	97.2	98.8	100.9	102.8	104.0	105.0	105.9
Residual Fuel	49.6	58.3	68.8	57.2	71.7	72.8	74.0	75.0	76.0	76.8	77.7
Residual Fuel (2002 dollars per barrel)	20.82	24.48	28.89	24.04	30.12	30.58	31.06	31.49	31.94	32.27	32.62
Transportation											
Diesel Fuel (Distillate) 2/	141.0	130.6	144.3	131.8	151.0	154.2	158.5	159.2	158.6	159.7	161.2
Jet Fuel 3/	84.7	80.6	90.7	85.4	99.1	95.3	95.3	96.6	97.6	98.5	99.1
Motor Gasoline 4/	148.6	138.1	155.2	141.5	160.6	161.2	161.4	162.0	162.6	163.2	163.2
Liquefied Petroleum Gas	146.9	128.7	141.3	141.2	143.3	145.4	144.8	146.0	146.8	147.6	148.4
Residual Fuel	59.0	56.5	66.7	55.4	70.6	71.7	72.7	73.6	74.7	75.5	76.3
Residual Fuel (2002 dollars per barrel)	24.80	23.71	28.00	23.28	29.67	30.12	30.53	30.92	31.37	31.72	32.05
Ethanol (E85) 5/	148.1	135.8	150.5	150.5	163.3	164.1	165.7	166.6	166.1	166.7	168.6
Electric Generators 6/											
Distillate Fuel	86.5	77.4	85.5	77.9	87.6	86.3	86.7	88.0	87.6	88.6	88.9
Residual Fuel	68.1	60.4	69.6	59.9	81.6	82.5	83.0	83.4	84.2	84.9	84.9
Residual Fuel (2002 dollars per barrel)	28.61	25.38	29.24	25.15	34.27	34.66	34.87	35.03	35.37	35.66	35.64
Refined Petroleum Product Prices 7/											
Distillate Fuel	126.8	118.1	130.0	119.3	136.1	138.2	141.6	142.6	143.0	144.3	145.7
Jet Fuel 3/	84.7	80.6	90.7	85.4	99.1	95.3	95.3	96.6	97.6	98.5	99.1
Liquefied Petroleum Gas	111.5	79.6	101.4	99.3	105.2	106.8	108.2	110.1	111.3	112.3	113.1
Motor Gasoline 4/	148.5	138.1	155.2	141.4	160.6	161.2	161.4	162.0	162.6	163.2	163.2
Residual Fuel	62.2	58.6	68.6	57.4	73.4	74.5	75.5	76.4	77.3	78.1	78.9
Residual Fuel (2002 dollars per barrel)	26.14	24.62	28.83	24.09	30.84	31.30	31.70	32.07	32.47	32.81	33.12
Average	126.7	116.1	131.5	121.8	138.2	138.7	139.6	140.5	141.2	142.0	142.4

**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)	33.82	34.01	34.16	34.23	34.30	34.39	34.47	34.55	34.63	34.70	34.79
Delivered Sector Product Prices											
Residential											
Distillate Fuel	130.5	131.4	132.1	131.9	132.3	133.0	133.3	133.7	133.9	134.3	134.5
Liquefied Petroleum Gas	140.7	141.4	142.3	143.3	144.2	143.6	142.7	143.5	144.9	146.3	146.5
Commercial											
Distillate Fuel	97.5	98.4	98.9	98.6	99.0	99.7	100.0	100.4	100.6	100.9	101.1
Residual Fuel	84.0	84.4	84.8	84.9	85.1	85.2	85.4	85.5	85.7	85.8	86.0
Residual Fuel (2002 dollars per barrel)	35.27	35.46	35.61	35.65	35.73	35.78	35.85	35.92	35.97	36.04	36.13
Industrial 1/											
Distillate Fuel	100.1	101.1	101.4	101.1	101.4	102.1	102.5	102.9	103.1	103.4	103.6
Liquefied Petroleum Gas	107.1	107.9	108.9	109.8	110.6	110.6	110.6	111.5	112.7	113.4	113.7
Residual Fuel	78.1	78.6	79.0	79.0	79.3	79.5	79.7	79.8	80.0	80.1	80.3
Residual Fuel (2002 dollars per barrel)	32.79	33.00	33.18	33.20	33.32	33.38	33.49	33.53	33.58	33.65	33.74
Transportation											
Diesel Fuel (Distillate) 2/	160.9	160.9	160.6	160.7	159.7	159.4	159.1	157.5	155.2	155.3	154.3
Jet Fuel 3/	99.4	99.6	99.5	99.2	99.1	99.3	99.6	99.5	99.2	99.5	99.3
Motor Gasoline 4/	163.6	163.6	163.5	162.6	162.1	162.6	164.7	163.3	164.5	167.0	163.4
Liquefied Petroleum Gas	149.4	149.8	150.5	151.4	152.2	150.3	148.1	148.6	150.1	152.0	151.9
Residual Fuel	76.8	77.2	77.6	77.7	77.9	78.0	78.2	78.4	78.5	78.7	78.9
Residual Fuel (2002 dollars per barrel)	32.25	32.43	32.57	32.63	32.70	32.77	32.84	32.91	32.99	33.05	33.13
Ethanol (E85) 5/	170.5	171.4	171.9	168.8	172.0	172.5	171.9	175.8	176.8	178.3	177.5
Electric Generators 6/											
Distillate Fuel	89.5	90.5	90.9	90.7	90.9	91.6	92.0	92.4	92.6	93.0	93.2
Residual Fuel	84.8	85.0	85.5	86.1	86.1	86.7	87.0	87.4	88.4	88.5	88.7
Residual Fuel (2002 dollars per barrel)	35.60	35.72	35.90	36.15	36.17	36.42	36.53	36.69	37.12	37.17	37.26
Refined Petroleum Product Prices 7/											
Distillate Fuel	145.8	146.2	146.2	146.4	145.8	146.0	146.0	145.1	143.6	143.8	143.2
Jet Fuel 3/	99.4	99.6	99.5	99.2	99.1	99.3	99.6	99.5	99.2	99.5	99.3
Liquefied Petroleum Gas	114.4	115.0	116.1	117.0	117.8	117.6	117.4	118.2	119.5	120.3	120.5
Motor Gasoline 4/	163.6	163.6	163.5	162.6	162.1	162.6	164.7	163.3	164.5	167.0	163.4
Residual Fuel	79.3	79.8	80.1	80.3	80.5	80.7	80.9	81.1	81.4	81.6	81.8
Residual Fuel (2002 dollars per barrel)	33.32	33.50	33.66	33.73	33.82	33.91	33.99	34.08	34.19	34.26	34.35
Average	142.7	142.9	143.1	142.4	142.3	142.7	143.8	143.0	143.5	145.0	143.0

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

	2023	2024	2025	2002- 2025
World Oil Price (2002 dollars per barrel)	34.87	34.95	35.03	1.7%
Delivered Sector Product Prices				
Residential				
Distillate Fuel	134.7	136.5	136.7	0.8%
Liquefied Petroleum Gas	146.9	147.0	147.6	1.3%
Commercial				
Distillate Fuel	101.3	103.0	103.3	0.9%
Residual Fuel	86.2	86.4	86.5	1.4%
Residual Fuel (2002 dollars per barrel)	36.20	36.27	36.34	1.4%
Industrial 1/				
Distillate Fuel	103.8	105.5	105.8	0.9%
Liquefied Petroleum Gas	113.9	114.1	114.9	2.1%
Residual Fuel	80.5	80.7	80.9	1.4%
Residual Fuel (2002 dollars per barrel)	33.81	33.89	33.97	1.4%
Transportation				
Diesel Fuel (Distillate) 2/	153.7	155.9	155.2	0.8%
Jet Fuel 3/	99.3	100.9	101.0	1.0%
Motor Gasoline 4/	162.9	166.4	166.4	0.8%
Liquefied Petroleum Gas	152.1	151.9	152.0	0.7%
Residual Fuel	79.1	79.2	79.4	1.5%
Residual Fuel (2002 dollars per barrel)	33.20	33.27	33.35	1.5%
Ethanol (E85) 5/	177.7	179.6	180.1	1.2%
Electric Generators 6/				
Distillate Fuel	93.4	95.1	95.4	0.9%
Residual Fuel	89.3	89.4	89.7	1.7%
Residual Fuel (2002 dollars per barrel)	37.52	37.56	37.66	1.7%
Refined Petroleum Product Prices 7/				
Distillate Fuel	142.9	145.1	144.7	0.9%
Jet Fuel 3/	99.3	100.9	101.0	1.0%
Liquefied Petroleum Gas	120.8	121.0	121.7	1.9%
Motor Gasoline 4/	162.9	166.4	166.4	0.8%
Residual Fuel	82.0	82.2	82.4	1.5%
Residual Fuel (2002 dollars per barrel)	34.45	34.53	34.62	1.5%
Average	142.7	145.3	145.4	1.0%

**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 HW2004.D101703B.

**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	19.53	19.48	19.86	20.06	20.48	20.67	20.79	21.30	21.61
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	3.89	4.27	4.45	4.93	5.21	5.29	5.46
Canada	3.56	3.59	3.40	3.50	3.47	3.41	3.41	3.44	3.52	3.53	3.41
Mexico	-0.13	-0.26	-0.31	-0.42	-0.43	-0.45	-0.42	-0.38	-0.34	-0.35	-0.36
Liquefied Natural Gas	0.17	0.17	0.43	0.52	0.85	1.32	1.46	1.86	2.04	2.12	2.41
Total Supply	23.39	22.62	23.12	23.15	23.84	24.42	25.02	25.69	26.10	26.68	27.17
Consumption by Sector											
Residential	4.78	4.92	5.07	5.18	5.20	5.27	5.33	5.41	5.46	5.52	5.57
Commercial	3.24	3.12	3.17	3.11	3.17	3.25	3.31	3.36	3.42	3.48	3.53
Industrial 3/	7.35	7.23	7.21	7.54	7.87	8.06	8.25	8.33	8.47	8.63	8.77
Electric Generators 4/	5.38	5.55	4.94	5.65	5.84	6.02	6.19	6.54	6.56	6.75	6.95
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	0.66	0.66	0.66	0.67	0.67	0.69	0.70
Lease and Plant Fuel 6/	1.09	1.32	1.00	0.99	1.06	1.13	1.20	1.27	1.33	1.41	1.43
Total	22.48	22.78	22.06	23.14	23.83	24.43	24.99	25.62	25.96	26.54	27.00
Gas to Liquids	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.18	0.21	0.23
Discrepancy 7/	0.92	-0.16	1.06	0.02	0.01	-0.01	-0.03	-0.03	-0.05	-0.06	-0.07

**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/	21.88	22.14	22.36	22.42	22.90	23.56	24.29	24.66	24.95	24.97	24.99
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	5.76	5.83	5.91	6.21	6.25	6.15	5.98	5.85	5.77	5.89	6.12
Canada	3.36	3.19	2.90	2.70	2.61	2.38	2.18	2.04	2.02	2.04	2.06
Mexico	-0.30	-0.24	-0.17	-0.18	-0.19	-0.21	-0.22	-0.24	-0.25	-0.26	-0.26
Liquefied Natural Gas	2.70	2.87	3.18	3.69	3.84	3.98	4.03	4.05	4.00	4.11	4.33
Total Supply	27.73	28.06	28.37	28.73	29.25	29.81	30.37	30.61	30.82	30.95	31.21
Consumption by Sector											
Residential	5.61	5.61	5.63	5.67	5.73	5.77	5.82	5.87	5.93	5.95	5.98
Commercial	3.56	3.58	3.61	3.65	3.69	3.74	3.79	3.85	3.90	3.94	3.98
Industrial 3/	8.85	8.92	9.00	9.09	9.23	9.39	9.55	9.66	9.79	9.88	10.00
Electric Generators 4/	7.30	7.47	7.60	7.73	7.93	8.10	8.27	8.26	8.19	8.16	8.24
Transportation 5/	0.07	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10
Pipeline Fuel	0.71	0.71	0.71	0.71	0.72	0.76	0.80	0.81	0.82	0.82	0.83
Lease and Plant Fuel 6/	1.45	1.46	1.48	1.49	1.52	1.57	1.63	1.65	1.67	1.68	1.68
Total	27.54	27.84	28.11	28.41	28.89	29.41	29.96	30.19	30.40	30.53	30.80
Gas to Liquids	0.26	0.30	0.33	0.38	0.43	0.48	0.49	0.49	0.50	0.50	0.50
Discrepancy 7/	-0.07	-0.07	-0.07	-0.07	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.09

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

	2023	2024	2025	2002- 2025
Production				
Dry Gas Production 1/	24.59	24.95	25.02	1.2%
Supplemental Natural Gas 2/	0.10	0.10	0.10	0.8%
Net Imports	6.53	6.65	6.88	3.0%
Canada	2.06	2.13	2.22	-2.1%
Mexico	-0.26	-0.26	-0.25	-0.2%
Liquefied Natural Gas	4.73	4.77	4.91	15.9%
Total Supply	31.21	31.70	32.00	1.5%
Consumption by Sector				
Residential	6.01	6.07	6.09	0.9%
Commercial	4.02	4.06	4.11	1.2%
Industrial 3/	10.12	10.24	10.36	1.6%
Electric Generators 4/	8.06	8.27	8.36	1.8%
Transportation 5/	0.10	0.11	0.11	9.4%
Pipeline Fuel	0.82	0.84	0.85	1.3%
Lease and Plant Fuel 6/	1.67	1.69	1.71	1.1%
Total	30.81	31.28	31.59	1.4%
Gas to Liquids	0.50	0.50	0.50	N/A
Discrepancy 7/	-0.09	-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 HW2004.D101703B

**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
Source Price											
Average Lower 48 Wellhead Price 1/	4.14	2.95	4.97	3.90	3.62	3.58	3.61	3.70	3.53	3.50	3.66
Average Import Price	4.49	3.14	5.39	3.93	3.84	3.74	3.78	3.88	3.89	3.94	4.10
Average 2/	4.20	2.98	5.04	3.90	3.66	3.61	3.64	3.74	3.61	3.60	3.76
Delivered Prices											
Residential	9.79	7.86	9.34	9.08	8.73	8.53	8.40	8.33	8.11	8.00	8.13
Commercial	8.67	6.55	8.37	7.80	7.47	7.30	7.22	7.20	7.01	6.95	7.09
Industrial 3/	5.04	3.85	5.82	4.64	4.36	4.30	4.32	4.40	4.28	4.27	4.42
Electric Generators 4/	5.40	3.85	5.79	4.61	4.38	4.30	4.33	4.40	4.29	4.25	4.39
Transportation 5/	8.94	7.58	9.76	8.51	8.27	8.30	8.42	8.56	8.52	8.57	8.74
Average 6/	6.81	5.21	7.10	6.17	5.86	5.73	5.70	5.71	5.56	5.51	5.64
Transmission & Distribution Margins 7/											
Residential	5.59	4.88	4.30	5.18	5.08	4.92	4.76	4.59	4.50	4.41	4.37
Commercial	4.47	3.56	3.32	3.90	3.81	3.69	3.58	3.46	3.41	3.35	3.32
Industrial 3/	0.84	0.87	0.78	0.74	0.71	0.69	0.68	0.67	0.68	0.67	0.66
Electric Generators 4/	1.20	0.86	0.75	0.71	0.72	0.70	0.69	0.66	0.68	0.65	0.63
Transportation 5/	4.74	4.60	4.71	4.60	4.62	4.69	4.77	4.83	4.91	4.97	4.97
Average 6/	2.61	2.23	2.05	2.27	2.20	2.12	2.05	1.98	1.95	1.91	1.88
Transmission & Distribution Revenue (billion 2002 dollars)											
Residential	26.74	24.02	21.82	26.81	26.39	25.96	25.40	24.84	24.55	24.33	24.32
Commercial	14.49	11.12	10.52	12.12	12.09	12.00	11.84	11.63	11.65	11.66	11.74
Industrial 3/	6.20	6.27	5.63	5.54	5.56	5.56	5.60	5.54	5.73	5.79	5.79
Electric Generators 4/	6.46	4.78	3.69	3.99	4.22	4.19	4.25	4.34	4.46	4.40	4.35
Transportation 5/	0.05	0.06	0.10	0.12	0.14	0.17	0.19	0.22	0.25	0.28	0.30
Total	53.93	46.25	41.76	48.58	48.40	47.88	47.28	46.58	46.64	46.47	46.50

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Source Price											
Average Lower 48 Wellhead Price 1/	3.86	4.09	4.17	4.19	4.25	4.15	4.12	4.18	4.18	4.34	4.48
Average Import Price	4.26	4.54	4.71	4.61	4.66	4.59	4.56	4.58	4.50	4.61	4.77
Average 2/	3.96	4.19	4.29	4.29	4.35	4.25	4.22	4.26	4.25	4.40	4.55
Delivered Prices											
Residential	8.29	8.51	8.60	8.56	8.58	8.47	8.40	8.44	8.45	8.57	8.69
Commercial	7.26	7.49	7.59	7.55	7.59	7.49	7.44	7.48	7.48	7.60	7.73
Industrial 3/	4.62	4.85	4.95	4.94	5.00	4.92	4.90	4.93	4.91	5.05	5.20
Electric Generators 4/	4.59	4.81	4.90	4.88	4.94	4.85	4.82	4.85	4.81	4.95	5.10
Transportation 5/	8.94	9.19	9.31	9.26	9.33	9.23	9.17	9.19	9.17	9.29	9.39
Average 6/	5.81	6.03	6.12	6.09	6.13	6.03	5.99	6.03	6.02	6.15	6.29
Transmission & Distribution Margins 7/											
Residential	4.33	4.32	4.31	4.27	4.24	4.22	4.19	4.18	4.20	4.17	4.15
Commercial	3.30	3.29	3.29	3.26	3.24	3.24	3.22	3.21	3.23	3.20	3.19
Industrial 3/	0.66	0.65	0.65	0.65	0.65	0.66	0.68	0.67	0.66	0.65	0.65
Electric Generators 4/	0.63	0.61	0.61	0.59	0.59	0.60	0.61	0.59	0.56	0.55	0.55
Transportation 5/	4.99	5.00	5.02	4.97	4.98	4.98	4.95	4.93	4.92	4.89	4.85
Average 6/	1.86	1.83	1.82	1.80	1.79	1.78	1.77	1.77	1.77	1.75	1.74
Transmission & Distribution Revenue (billion 2002 dollars)											
Residential	24.30	24.21	24.25	24.19	24.26	24.33	24.39	24.53	24.90	24.83	24.79
Commercial	11.77	11.80	11.88	11.89	11.96	12.11	12.23	12.36	12.58	12.63	12.67
Industrial 3/	5.85	5.83	5.85	5.94	6.01	6.24	6.49	6.47	6.47	6.43	6.51
Electric Generators 4/	4.60	4.58	4.60	4.58	4.69	4.84	5.01	4.88	4.61	4.47	4.53
Transportation 5/	0.33	0.35	0.38	0.39	0.41	0.43	0.44	0.45	0.47	0.48	0.48
Total	46.86	46.78	46.97	46.98	47.32	47.95	48.56	48.69	49.03	48.84	48.98

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

	2023	2024	2025	2002- 2025
Source Price				
Average Lower 48 Wellhead Price 1/	4.52	4.57	4.66	2.0%
Average Import Price	4.76	4.84	4.92	2.0%
Average 2/	4.58	4.63	4.73	2.0%
Delivered Prices				
Residential	8.70	8.69	8.77	0.5%
Commercial	7.74	7.76	7.83	0.8%
Industrial 3/	5.22	5.29	5.39	1.5%
Electric Generators 4/	5.10	5.17	5.26	1.4%
Transportation 5/	9.38	9.39	9.45	1.0%
Average 6/	6.31	6.35	6.43	0.9%
Transmission & Distribution Margins 7/				
Residential	4.12	4.06	4.04	-0.8%
Commercial	3.16	3.12	3.11	-0.6%
Industrial 3/	0.64	0.65	0.66	-1.2%
Electric Generators 4/	0.52	0.53	0.54	-2.0%
Transportation 5/	4.80	4.75	4.72	0.1%
Average 6/	1.73	1.71	1.71	-1.2%
Transmission & Distribution Revenue (billion 2002 dollars)				
Residential	24.77	24.65	24.64	0.1%
Commercial	12.69	12.68	12.78	0.6%
Industrial 3/	6.45	6.66	6.85	0.4%
Electric Generators 4/	4.19	4.41	4.47	-0.3%
Transportation 5/	0.49	0.50	0.51	9.5%
Total	48.59	48.90	49.25	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 HW2004.D101703B.

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	30.71	31.11	31.54	32.02	32.49	32.80	33.30
Production (million barrels per day) 2/											
U.S. Total	5.74	5.62	5.69	5.82	5.87	6.05	6.24	6.29	6.26	6.17	6.07
Lower 48 Onshore	3.14	3.11	2.93	2.95	2.90	2.92	2.89	2.85	2.80	2.76	2.71
Lower 48 Offshore	1.64	1.53	1.78	1.90	2.07	2.24	2.42	2.48	2.48	2.44	2.38
Alaska	0.96	0.98	0.98	0.97	0.89	0.88	0.93	0.96	0.98	0.97	0.98
Lower 48 End of Year Reserves (billion barrels) 2/	19.14	19.05	19.24	18.97	19.04	19.19	19.55	19.59	19.45	19.21	18.92
Natural Gas											
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	4.14	2.95	4.97	3.90	3.62	3.58	3.61	3.70	3.53	3.50	3.66
Dry Production (trillion cubic feet) 3/											
U.S. Total	19.70	19.05	19.54	19.48	19.86	20.06	20.49	20.67	20.79	21.30	21.61
Lower 48 Onshore	13.90	13.76	13.79	13.91	14.24	14.48	14.72	14.90	14.91	14.98	15.28
Associated-Dissolved 4/	1.63	1.60	1.54	1.54	1.52	1.52	1.51	1.49	1.47	1.45	1.43
Non-Associated	12.27	12.16	12.26	12.37	12.71	12.95	13.22	13.41	13.44	13.52	13.85
Conventional	6.62	6.23	6.05	6.34	6.51	6.42	6.36	6.23	6.10	6.09	6.14
Unconventional	5.65	5.93	6.20	6.03	6.20	6.53	6.86	7.18	7.34	7.43	7.71
Lower 48 Offshore	5.37	4.86	5.23	5.03	5.06	5.01	5.13	5.06	5.09	5.50	5.47
Associated-Dissolved 4/	1.15	1.05	1.14	1.16	1.16	1.16	1.48	1.77	1.70	1.62	1.53
Non-Associated	4.21	3.81	4.10	3.87	3.91	3.85	3.64	3.30	3.39	3.89	3.95
Alaska	0.44	0.43	0.51	0.54	0.56	0.57	0.64	0.70	0.79	0.82	0.86
Lower 48 End of Year Dry Reserves (tcf) 3/	174.66	180.03	182.55	187.51	191.73	195.67	197.45	200.28	202.99	204.63	205.82
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	28.39	27.71	28.70	28.23	27.98	28.47	27.40	27.26	27.61

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)	33.41	33.56	33.71	33.83	33.86	34.04	34.17	34.29	34.33	34.45	34.60
Production (million barrels per day) 2/											
U.S. Total	5.95	5.88	5.85	5.87	5.81	5.70	5.74	5.65	5.48	5.35	5.25
Lower 48 Onshore	2.67	2.62	2.58	2.53	2.49	2.45	2.40	2.36	2.32	2.28	2.24
Lower 48 Offshore	2.29	2.25	2.24	2.33	2.34	2.31	2.44	2.45	2.37	2.34	2.33
Alaska	0.98	1.00	1.03	1.01	0.98	0.94	0.89	0.83	0.78	0.73	0.68
Lower 48 End of Year Reserves (billion barrels) 2/	18.54	18.28	18.10	18.17	18.03	17.81	17.96	17.81	17.43	17.10	16.76
Natural Gas											
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	3.86	4.09	4.17	4.19	4.25	4.15	4.12	4.18	4.18	4.34	4.48
Dry Production (trillion cubic feet) 3/											
U.S. Total	21.88	22.14	22.36	22.43	22.91	23.56	24.29	24.66	24.95	24.97	24.99
Lower 48 Onshore	15.70	16.11	16.31	16.32	16.59	16.31	16.32	16.61	16.62	16.65	16.75
Associated-Dissolved 4/	1.41	1.39	1.38	1.36	1.34	1.32	1.30	1.29	1.27	1.25	1.24
Non-Associated	14.29	14.72	14.93	14.96	15.25	14.98	15.01	15.32	15.35	15.40	15.51
Conventional	6.23	6.35	6.35	6.26	6.28	6.15	6.11	6.17	6.17	6.19	6.21
Unconventional	8.06	8.37	8.58	8.70	8.97	8.84	8.90	9.15	9.19	9.20	9.30
Lower 48 Offshore	5.28	5.09	5.06	5.06	5.21	5.28	5.17	5.24	5.50	5.48	5.40
Associated-Dissolved 4/	1.45	1.36	1.34	1.34	1.43	1.49	1.50	1.58	1.59	1.50	1.46
Non-Associated	3.83	3.72	3.72	3.72	3.77	3.79	3.67	3.66	3.91	3.98	3.95
Alaska	0.90	0.94	0.99	1.05	1.11	1.98	2.80	2.81	2.83	2.84	2.84
Lower 48 End of Year Dry Reserves (tcf) 3/	206.26	207.20	207.98	208.58	209.22	209.18	208.01	207.77	206.11	204.28	202.15
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)	27.91	28.24	28.39	28.67	28.74	28.66	28.26	27.88	27.77	27.90	27.73

Table 15. Oil and Gas Supply

	2023	2024	2025	2002- 2025
Crude Oil				
Lower 48 Average Wellhead Price 1/ (2002 dollars per barrel)	34.71	34.79	34.90	1.5%
Production (million barrels per day) 2/				
U.S. Total	5.23	5.09	4.85	-0.6%
Lower 48 Onshore	2.21	2.17	2.13	-1.6%
Lower 48 Offshore	2.40	2.33	2.17	1.5%
Alaska	0.62	0.58	0.55	-2.5%
Lower 48 End of Year Reserves (billion barrels) 2/	16.62	16.15	15.63	-0.9%
Natural Gas				
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	4.52	4.57	4.66	2.0%
Dry Production (trillion cubic feet) 3/				
U.S. Total	24.59	24.95	25.02	1.2%
Lower 48 Onshore	16.46	16.73	16.89	0.9%
Associated-Dissolved 4/	1.22	1.21	1.20	-1.3%
Non-Associated	15.23	15.52	15.69	1.1%
Conventional	6.06	6.11	6.12	-0.1%
Unconventional	9.17	9.41	9.58	2.1%
Lower 48 Offshore	5.28	5.18	4.89	0.0%
Associated-Dissolved 4/	1.42	1.48	1.43	1.4%
Non-Associated	3.87	3.69	3.46	-0.4%
Alaska	2.85	3.05	3.24	9.2%
Lower 48 End of Year Dry Reserves (tcf) 3/	200.09	197.14	194.51	0.3%
Supplemental Gas Supplies (tcf) 5/	0.10	0.10	0.10	0.8%
Lower 48 Wells (thousands)	27.83	27.41	27.16	0.5%

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 HW2004.D101703B.

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	393	393	406	407	406	409	412	406
Interior	147	147	151	151	164	167	166	168	171	170	170
West	548	550	561	575	584	594	614	619	638	651	678
East of the Mississippi	539	504	484	494	500	514	520	522	527	529	523
West of the Mississippi	599	601	616	625	642	653	667	673	691	703	730
Total	1138	1105	1100	1119	1142	1167	1187	1194	1218	1233	1253
Net Imports											
Imports	20	17	21	23	25	27	29	31	32	33	34
Exports	49	40	42	41	40	39	38	37	36	35	34
Total	-29	-23	-21	-18	-15	-12	-9	-7	-4	-2	0
Total Supply 2/	1109	1083	1079	1101	1127	1155	1178	1188	1214	1231	1253
Consumption by Sector											
Residential and Commercial	4	4	5	5	5	5	5	5	5	5	5
Industrial 3/	65	63	64	64	64	64	65	64	68	72	76
of which: Coal to Liquids	0	0	0	0	0	0	0	0	4	8	12
Coke Plants	26	23	25	25	25	25	24	24	24	23	23
Electric Generators 4/	964	976	1006	1002	1033	1061	1085	1095	1117	1131	1150
Total	1060	1066	1100	1096	1127	1155	1178	1188	1214	1231	1254
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	17.76	17.58	17.52	17.42	17.20	17.21	17.23	17.14	16.95
(2002 dollars per million Btu)	0.87	0.87	0.86	0.85	0.85	0.85	0.84	0.84	0.84	0.84	0.83
Delivered Price (2002 dollars per short ton)											
Industrial	32.96	33.24	35.50	35.23	35.21	35.01	34.77	34.93	33.53	32.35	31.11
Coke Plants	46.94	51.27	55.61	55.44	55.11	54.79	54.12	54.17	53.92	53.96	53.57
Electric Generators											
(2002 dollars / short ton)	25.13	25.95	24.98	25.00	25.21	25.12	24.89	25.01	25.06	25.04	25.02
(2002 dollars /million Btu)	1.25	1.26	1.24	1.24	1.25	1.25	1.23	1.24	1.24	1.24	1.24
Average	26.15	26.92	26.30	26.30	26.44	26.31	26.04	26.14	26.10	26.02	25.91
Exports 7/	37.39	40.44	37.39	36.99	36.88	36.74	36.48	36.63	36.59	36.63	36.45

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	401	394	389	400	399	405	410	421	427	422	423
Interior	168	164	164	157	162	163	170	173	177	180	180
West	691	716	746	759	773	787	794	807	837	864	888
East of the Mississippi	517	507	501	505	511	517	530	544	554	552	554
West of the Mississippi	743	768	798	811	824	838	844	857	887	914	938
Total	1259	1275	1299	1315	1335	1355	1373	1400	1441	1467	1491
Net Imports											
Imports	35	36	37	38	38	39	40	40	42	43	44
Exports	32	31	31	32	32	32	32	30	30	27	27
Total	4	5	6	6	6	7	8	10	12	16	16
Total Supply 2/	1263	1280	1305	1322	1342	1362	1381	1410	1453	1482	1508
Consumption by Sector											
Residential and Commercial	5	5	5	5	5	5	5	5	5	5	5
Industrial 3/	76	77	85	85	85	86	86	86	94	94	94
of which: Coal to Liquids	12	12	20	20	20	20	20	20	28	28	28
Coke Plants	22	22	21	21	20	20	20	19	19	18	18
Electric Generators 4/	1160	1177	1194	1211	1231	1253	1272	1301	1336	1365	1391
Total	1263	1280	1305	1322	1342	1363	1382	1411	1454	1483	1508
Discrepancy and Stock Change 5/	0	0	0	0	0	-1	0	-1	0	0	0
Average Minemouth Price (2002 dollars per short ton)	16.86	16.78	16.55	16.44	16.40	16.43	16.69	16.84	16.96	16.92	16.93
(2002 dollars per million Btu)	0.83	0.83	0.82	0.81	0.81	0.81	0.82	0.83	0.84	0.84	0.84
Delivered Price (2002 dollars per short ton)											
Industrial	30.84	30.89	29.27	28.94	28.77	28.64	28.92	28.93	27.66	27.57	27.49
Coke Plants	53.01	52.72	52.48	52.31	52.16	51.82	51.80	51.34	50.51	50.02	49.53
Electric Generators (2002 dollars / short ton)	24.87	24.90	24.75	24.60	24.52	24.49	24.70	24.71	24.81	24.78	24.82
(2002 dollars /million Btu)	1.24	1.24	1.24	1.23	1.23	1.22	1.23	1.23	1.23	1.24	1.24
Average	25.73	25.74	25.51	25.32	25.21	25.15	25.35	25.33	25.33	25.27	25.28
Exports 7/	35.61	35.54	35.46	35.41	35.42	35.39	35.51	35.15	34.44	33.78	33.58

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

	2023	2024	2025	2002- 2025
Production 1/				
Appalachia	422	426	422	0.1%
Interior	181	181	181	0.9%
West	934	952	985	2.6%
East of the Mississippi	554	557	554	0.4%
West of the Mississippi	983	1001	1034	2.4%
Total	1537	1559	1588	1.6%
Net Imports				
Imports	45	45	46	4.4%
Exports	28	27	22	-2.4%
Total	17	18	23	N/A
Total Supply 2/	1554	1576	1612	1.7%
Consumption by Sector				
Residential and Commercial	5	5	5	0.4%
Industrial 3/	95	95	103	2.2%
of which: Coal to Liquids	28	28	36	N/A
Coke Plants	18	17	17	-1.3%
Electric Generators 4/	1437	1460	1487	1.8%
Total	1554	1577	1612	1.8%
Discrepancy and Stock Change 5/	0	-1	0	N/A
Average Minemouth Price				
(2002 dollars per short ton)	16.78	16.89	16.80	-0.3%
(2002 dollars per million Btu)	0.83	0.84	0.84	-0.2%
Delivered Price (2002 dollars per short ton)				
Industrial	27.30	27.21	26.17	-1.0%
Coke Plants	49.03	48.73	48.53	-0.2%
Electric Generators				
(2002 dollars / short ton)	24.71	24.73	24.74	-0.2%
(2002 dollars /million Btu)	1.24	1.24	1.24	-0.1%
Average	25.14	25.14	25.08	-0.3%
Exports 7/	33.38	33.27	32.47	-0.9%

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 HW2004.D101703B. Projections: EIA, AEO2004 National Energy Modeling System run HW2004.D101703B.

**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	3.73	3.95	4.21	4.47
Municipal Solid Waste 3/	3.38	3.49	3.61	3.65	3.66	3.69	3.73	3.88	3.89	3.89	3.89	3.90
Wood and Other Biomass 4,5/	1.79	1.83	1.85	1.87	1.89	1.99	2.04	2.09	2.14	2.19	2.26	2.26
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	7.71	9.55	10.33	10.82
Total	90.67	91.69	93.66	93.83	94.19	94.96	95.69	96.31	96.75	98.86	100.01	100.78
Generation (billion kilowatthours)												
Conventional Hydropower	213.75	255.78	269.65	303.07	303.43	304.14	304.42	304.44	304.46	304.37	304.33	304.37
Geothermal 2/	13.74	13.36	13.82	13.66	14.23	15.95	17.23	19.14	21.04	22.77	24.92	27.07
Municipal Solid Waste 3/	19.22	20.02	25.58	25.97	26.12	26.30	26.63	27.79	27.88	27.90	27.91	27.97
Wood and Other Biomass 5/	8.56	8.67	14.45	15.92	18.61	19.84	21.12	21.57	22.56	23.75	24.37	24.54
Dedicated Plants	7.22	6.32	10.52	10.84	11.18	11.82	12.18	12.51	12.90	13.18	13.57	13.74
Cofiring	1.34	2.35	3.93	5.08	7.43	8.02	8.94	9.06	9.66	10.56	10.80	10.80
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	22.48	23.07	29.53	32.40	34.14
Total	262.55	308.87	341.47	378.34	382.65	387.28	392.01	396.53	400.16	409.52	415.24	419.46
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	4.25	4.49	4.67	4.81	4.93	5.09	5.29	5.51	5.74
Total	4.01	4.16	4.23	4.50	4.74	4.92	5.07	5.19	5.34	5.54	5.76	5.99
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	30.15	31.55	32.62	33.46	34.16	35.09	36.26	37.50	38.89
Total	28.68	30.00	30.66	32.25	33.65	34.72	35.56	36.26	37.19	38.36	39.60	40.99
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	4.97

**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/	4.72	4.93	5.11	5.26	5.38	5.53	5.78	5.98	6.26	6.49	6.50	6.65
Municipal Solid Waste 3/	3.90	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
Wood and Other Biomass 4,5/	2.26	2.29	2.44	2.44	2.46	2.60	2.73	2.76	3.01	3.13	3.21	3.28
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	11.00	11.22	11.47	12.18	12.84	13.02	13.55	13.58	14.04	14.36	14.38	14.70
Total	101.22	101.73	102.32	103.20	104.04	104.53	105.47	105.73	106.76	107.44	107.57	108.13
Generation (billion kilowatthours)												
Conventional Hydropower	304.41	304.44	304.47	304.50	304.53	304.57	304.60	304.63	304.66	304.69	304.73	304.76
Geothermal 2/	29.07	30.83	32.29	33.58	34.61	35.83	37.89	39.46	41.84	43.69	43.90	45.18
Municipal Solid Waste 3/	27.98	28.17	28.18	28.19	28.19	28.20	28.21	28.22	28.23	28.24	28.25	28.26
Wood and Other Biomass 5/	24.68	25.18	25.81	25.65	25.72	25.56	25.87	26.14	26.85	27.46	27.98	28.10
Dedicated Plants	13.84	13.96	14.60	14.83	15.16	15.78	16.55	17.03	18.28	19.14	20.00	20.55
Cofiring	10.83	11.22	11.22	10.82	10.56	9.78	9.32	9.11	8.57	8.32	7.98	7.55
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	34.76	35.57	36.47	39.08	41.52	42.17	44.09	44.16	45.89	47.07	47.15	48.33
Total	422.32	425.67	428.77	432.60	436.23	438.04	442.43	444.44	449.36	453.10	454.00	456.69
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	5.98	6.20	6.37	6.54	6.72	6.90	7.03	7.17	7.32	7.46	7.61	7.77
Total	6.24	6.45	6.63	6.79	6.98	7.15	7.28	7.42	7.57	7.71	7.87	8.02
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	0.47	0.51	0.57	0.66	0.77	0.87	0.99
Total	1.43	1.44	1.45	1.45	1.46	1.50	1.54	1.59	1.69	1.79	1.90	2.01
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	40.29	41.53	42.57	43.55	44.61	45.63	46.40	47.23	48.08	48.92	49.81	50.70
Total	42.39	43.63	44.67	45.66	46.71	47.73	48.50	49.33	50.18	51.02	51.91	52.80
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	1.22	1.42	1.64	1.87	2.11
Total	4.98	5.00	5.02	5.03	5.05	5.13	5.21	5.33	5.53	5.75	5.98	6.22

**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/	6.81	3.8%
Municipal Solid Waste 3/	3.92	0.5%
Wood and Other Biomass 4,5/	3.34	2.7%
Solar Thermal	0.52	1.9%
Solar Photovoltaic 6/	0.41	13.5%
Wind	15.10	5.1%
Total	108.78	0.7%
Generation (billion kilowatthours)		
Conventional Hydropower	304.80	0.8%
Geothermal 2/	46.46	5.6%
Municipal Solid Waste 3/	28.28	1.5%
Wood and Other Biomass 5/	28.33	5.3%
Dedicated Plants	21.02	5.4%
Cofiring	7.32	5.1%
Solar Thermal	1.11	3.2%
Solar Photovoltaic 6/	1.02	28.8%
Wind	49.82	7.0%
Total	459.82	1.7%
End Use Sector		
Net Summer Capacity		
Combined Heat and Power 7/		
Municipal Solid Waste	0.25	0.0%
Biomass	7.93	3.1%
Total	8.18	3.0%
Other End-Use Generators 8/		
Conventional Hydropower 9/	1.02	0.0%
Geothermal	0.00	N/A
Solar Photovoltaic	1.11	15.3%
Total	2.14	3.1%
Generation (billion kwh)		
Combined Heat and Power 7/		
Municipal Solid Waste	2.10	0.6%
Biomass	51.67	2.7%
Total	53.77	2.6%
Other End-Use Generators 8/		
Conventional Hydropower 9/	4.11	0.0%
Geothermal	0.00	N/A
Solar Photovoltaic	2.38	15.3%
Total	6.49	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 HW2004.D101703B.

**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
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
Wood	0.36	0.39	0.41	0.41	0.40	0.40	0.40	0.41	0.40	0.40	0.40
Commercial	0.09	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
Industrial 3/	1.64	1.66	1.66	1.72	1.78	1.82	1.86	1.90	1.94	1.99	2.04
Conventional Hydroelectric	0.03	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
Biomass	1.59	1.60	1.61	1.67	1.73	1.77	1.81	1.85	1.89	1.93	1.99
Transportation	0.14	0.17	0.23	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
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
Ethanol used in Gasoline Blending	0.14	0.17	0.23	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
Electric Generators 5/	3.16	3.69	3.80	4.18	4.24	4.33	4.41	4.50	4.58	4.72	4.82
Conventional Hydroelectric	2.29	2.75	2.78	3.12	3.12	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	0.53	0.59	0.66
Municipal Solid Waste 6/	0.33	0.34	0.35	0.36	0.36	0.36	0.37	0.38	0.38	0.38	0.38
Biomass	0.15	0.17	0.19	0.20	0.23	0.25	0.26	0.27	0.28	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
Cofiring	0.03	0.06	0.06	0.08	0.11	0.11	0.12	0.13	0.13	0.14	0.15
Solar Thermal	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
Wind	0.08	0.13	0.18	0.20	0.20	0.21	0.22	0.23	0.24	0.30	0.33
Total Marketed Renewable Energy	5.40	6.01	6.20	6.67	6.78	6.92	7.04	7.17	7.29	7.48	7.63
Sources of Ethanol											
From Corn	0.14	0.17	0.23	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
From Cellulose	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.14	0.17	0.23	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
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
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
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
Solar Photovoltaic	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

**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
Solar Thermal	0.02	0.02	0.02	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

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Marketed Renewable Energy 2/											
Residential	0.41	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
Wood	0.41	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40
Commercial	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
Industrial 3/	2.09	2.15	2.20	2.24	2.29	2.34	2.39	2.42	2.46	2.50	2.54
Conventional Hydroelectric	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
Biomass	2.04	2.10	2.15	2.19	2.24	2.29	2.34	2.37	2.41	2.45	2.49
Transportation	0.27	0.28	0.28	0.27	0.28	0.29	0.29	0.29	0.30	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
Ethanol used in Gasoline Blending	0.27	0.28	0.28	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30
Electric Generators 5/	4.91	4.98	5.06	5.12	5.18	5.24	5.29	5.38	5.43	5.54	5.61
Conventional Hydroelectric	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
Geothermal	0.73	0.79	0.85	0.90	0.94	0.97	1.01	1.08	1.13	1.21	1.27
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
Biomass	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32
Dedicated Plants	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.19	0.19	0.21	0.22
Cofiring	0.15	0.15	0.15	0.15	0.14	0.14	0.13	0.12	0.12	0.11	0.11
Solar Thermal	0.01	0.01	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
Wind	0.35	0.36	0.37	0.38	0.40	0.43	0.43	0.45	0.45	0.47	0.48
Total Marketed Renewable Energy	7.78	7.91	8.04	8.14	8.26	8.37	8.47	8.60	8.70	8.84	8.96
Sources of Ethanol											
From Corn	0.26	0.27	0.27	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.26
From Cellulose	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.04
Total	0.27	0.28	0.28	0.27	0.28	0.29	0.29	0.29	0.30	0.30	0.30
Non-Marketed Renewable Energy											
-- Selected Consumption 7/											
Residential	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.03	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
Solar Photovoltaic	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

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Solar Thermal	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	0.00

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

	2023	2024	2025	2002- 2025
Marketed Renewable Energy 2/				
Residential	0.40	0.41	0.40	0.1%
Wood	0.40	0.41	0.40	0.1%
Commercial	0.10	0.10	0.10	0.0%
Biomass	0.10	0.10	0.10	0.0%
Industrial 3/	2.58	2.63	2.68	2.1%
Conventional Hydroelectric	0.04	0.04	0.04	N/A
Municipal Solid Waste	0.01	0.01	0.01	N/A
Biomass	2.53	2.58	2.62	2.2%
Transportation	0.30	0.31	0.31	2.6%
Ethanol used in E85 4/	0.00	0.00	0.00	N/A
Ethanol used in Gasoline Blending	0.30	0.31	0.31	2.6%
Electric Generators 5/	5.62	5.68	5.74	1.9%
Conventional Hydroelectric	3.13	3.13	3.13	0.6%
Geothermal	1.27	1.31	1.36	6.8%
Municipal Solid Waste 6/	0.39	0.39	0.39	0.6%
Biomass	0.33	0.33	0.33	3.0%
Dedicated Plants	0.22	0.23	0.24	3.3%
Cofiring	0.10	0.10	0.09	2.1%
Solar Thermal	0.02	0.02	0.02	6.0%
Solar Photovoltaic	0.00	0.00	0.00	N/A
Wind	0.48	0.50	0.51	6.3%
Total Marketed Renewable Energy	9.01	9.12	9.23	1.9%
Sources of Ethanol				
From Corn	0.26	0.26	0.26	1.8%
From Cellulose	0.04	0.05	0.05	N/A
Total	0.30	0.31	0.31	2.6%
Non-Marketed Renewable Energy				
-- Selected Consumption 7/				
Residential	0.05	0.05	0.05	3.2%
Solar Hot Water Heating	0.04	0.04	0.04	2.2%
Geothermal Heat Pumps	0.01	0.01	0.01	9.2%
Solar Photovoltaic	0.00	0.00	0.00	14.8%
Commercial	0.03	0.03	0.03	1.5%

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

	2023	2024	2025	2002- 2025
Solar Thermal	0.03	0.03	0.03	0.6%
Solar Photovoltaic	0.01	0.01	0.01	15.4%

**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 HW2004.D101703B.

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
Residential											
Petroleum	105.6	104.0	104.2	109.2	107.7	106.9	106.3	106.2	105.4	104.8	104.3
Natural Gas	259.5	267.2	275.2	280.9	282.2	286.3	289.6	293.4	296.2	299.8	302.2
Coal	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1
Electricity	790.8	816.7	827.7	819.7	831.3	847.9	864.5	878.4	888.1	898.3	909.6
Total	1157.0	1189.0	1208.3	1211.0	1222.4	1242.3	1261.5	1279.2	1290.9	1304.0	1317.3
Commercial											
Petroleum	52.9	52.6	60.9	61.5	60.2	61.0	61.1	61.1	61.2	61.3	61.3
Natural Gas	165.0	169.4	171.9	168.8	172.2	176.4	179.6	182.3	185.6	189.1	191.7
Coal	9.2	9.2	9.3	9.0	9.3	9.4	9.3	9.3	9.3	9.3	9.3
Electricity	787.4	778.0	783.3	789.3	816.7	845.1	870.7	890.2	910.2	928.5	948.7
Total	1014.5	1009.1	1025.3	1028.6	1058.4	1091.9	1120.8	1143.0	1166.3	1188.2	1210.9
Industrial 1/											
Petroleum	409.9	412.8	345.4	337.6	334.5	333.9	334.2	336.8	334.6	334.2	336.0
Natural Gas 2/	441.5	432.7	439.0	456.5	478.1	492.1	506.1	514.0	524.8	537.7	546.3
Coal	196.8	185.1	195.8	196.0	195.7	195.0	194.3	193.1	195.2	197.0	198.9
Electricity	634.1	640.0	631.3	630.1	645.3	665.5	680.6	687.9	696.6	704.0	715.8
Total	1682.3	1670.6	1611.5	1620.3	1653.6	1686.5	1715.2	1731.8	1751.2	1772.8	1797.0
Transportation											
Petroleum 3/	1789.7	1811.2	1848.9	1908.4	1937.4	1966.0	1995.3	2023.6	2050.7	2078.9	2111.3
Natural Gas 4/	33.9	35.2	36.8	36.4	37.3	37.5	38.2	38.7	39.3	40.5	41.3
Other 5/	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	15.0	15.3	15.6	15.7	16.0	16.1	16.4
Total	1837.8	1860.6	1900.4	1959.6	1989.7	2018.8	2049.1	2078.0	2105.9	2135.5	2168.9
Total by Delivered Fuel											
Petroleum 3/	2358.2	2380.5	2359.4	2416.8	2439.9	2467.8	2497.0	2527.7	2551.8	2579.3	2612.9
Natural Gas	899.9	904.4	922.9	942.6	969.8	992.3	1013.5	1028.5	1046.0	1067.0	1081.5
Coal	207.1	195.4	206.3	206.2	206.2	205.6	204.8	203.6	205.6	207.4	209.3
Other 5/	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	2256.9	2253.8	2308.3	2373.8	2431.3	2472.3	2510.9	2546.9	2590.4
Total	5691.7	5729.3	5745.5	5819.5	5924.1	6039.5	6146.6	6232.1	6314.3	6400.5	6494.1
Electric Power Sector 6/											
Petroleum	99.6	72.2	80.1	42.1	31.7	31.8	32.6	33.4	28.4	28.4	30.3
Natural Gas	289.1	299.1	265.7	303.9	314.4	324.1	333.1	351.9	353.2	363.2	373.9
Coal	1838.0	1877.8	1911.1	1907.8	1962.2	2017.9	2065.6	2087.0	2129.4	2155.3	2186.3
Total	2226.6	2249.0	2256.9	2253.8	2308.3	2373.8	2431.3	2472.3	2510.9	2546.9	2590.4
Total by Primary Fuel 7/											
Petroleum 3/	2457.7	2452.7	2439.5	2458.9	2471.5	2499.6	2529.6	2561.1	2580.2	2607.7	2643.2

**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
Natural Gas	1189.0	1203.4	1188.6	1246.6	1284.2	1316.5	1346.6	1380.3	1399.1	1430.2	1455.3
Coal	2045.0	2073.2	2117.4	2114.1	2168.4	2223.4	2270.4	2290.7	2335.0	2362.7	2395.6
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	5691.7	5729.3	5745.5	5819.5	5924.1	6039.5	6146.6	6232.1	6314.3	6400.5	6494.1
Carbon Dioxide Emissions (tons per person)	19.9	19.8	19.7	19.8	20.0	20.2	20.4	20.5	20.6	20.7	20.8

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Residential											
Petroleum	104.2	103.4	103.0	102.5	102.3	101.6	101.2	100.8	100.6	99.7	99.2
Natural Gas	304.6	304.6	305.7	307.8	310.9	313.0	316.1	318.8	322.1	323.0	324.6
Coal	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Electricity	920.8	928.9	938.1	950.3	965.4	977.5	990.5	1008.6	1029.6	1041.9	1056.4
Total	1330.7	1338.1	1348.0	1361.6	1379.7	1393.3	1409.0	1429.3	1453.3	1465.7	1481.2
Commercial											
Petroleum	61.5	61.6	61.6	61.7	61.9	62.0	62.0	62.1	62.2	62.3	62.4
Natural Gas	193.4	194.5	195.9	197.9	200.1	202.9	206.0	208.8	211.5	213.9	215.8
Coal	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
Electricity	965.9	985.7	1002.8	1021.6	1041.3	1064.5	1087.0	1115.1	1142.9	1167.5	1190.1
Total	1230.1	1251.1	1269.6	1290.5	1312.6	1338.6	1364.3	1395.2	1425.8	1452.9	1477.5
Industrial 1/											
Petroleum	339.9	344.6	347.7	350.8	354.3	358.0	361.1	364.9	367.9	372.4	377.7
Natural Gas 2/	551.6	556.5	561.4	567.4	576.0	587.1	599.1	606.4	614.5	619.8	625.7
Coal	197.8	196.9	201.8	200.6	199.6	198.9	198.4	197.2	202.3	201.4	200.9
Electricity	724.4	734.9	742.5	751.0	765.1	779.7	792.7	804.8	818.1	830.1	844.0
Total	1813.6	1833.0	1853.4	1869.7	1895.0	1923.8	1951.3	1973.4	2002.8	2023.7	2048.3
Transportation											
Petroleum 3/	2143.5	2179.7	2214.0	2192.6	2249.9	2289.8	2334.6	2355.2	2389.5	2420.3	2431.3
Natural Gas 4/	42.1	42.5	42.8	42.7	43.5	45.8	48.4	49.1	49.6	50.0	50.3
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	16.6	16.9	17.1	17.2	17.6	18.0	18.5	18.9	19.3	19.7	20.0
Total	2202.1	2239.1	2273.9	2252.6	2311.1	2353.6	2401.4	2423.1	2458.5	2490.1	2501.6
Total by Delivered Fuel											
Petroleum 3/	2649.0	2689.3	2726.3	2707.5	2768.4	2811.4	2858.9	2883.0	2920.1	2954.7	2970.5
Natural Gas	1091.6	1098.2	1105.8	1115.8	1130.5	1148.8	1169.5	1183.0	1197.8	1206.7	1216.4
Coal	208.3	207.3	212.2	211.0	210.0	209.3	208.8	207.6	212.7	211.7	211.3
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	2627.7	2666.5	2700.6	2740.1	2789.4	2839.8	2888.8	2947.4	3009.9	3059.2	3110.4
Total	6576.6	6661.2	6744.9	6774.4	6898.4	7009.3	7126.0	7220.9	7340.5	7432.4	7508.6
Electric Power Sector 6/											
Petroleum	32.7	33.7	34.2	33.2	34.6	33.7	33.9	33.9	32.5	33.0	33.4
Natural Gas	392.5	402.0	408.9	415.7	426.5	435.9	445.0	444.3	440.5	438.9	443.1
Coal	2202.4	2230.8	2257.4	2291.1	2328.3	2370.1	2409.8	2469.2	2536.9	2587.4	2633.9
Total	2627.7	2666.5	2700.6	2740.1	2789.4	2839.8	2888.8	2947.4	3009.9	3059.2	3110.4
Total by Primary Fuel 7/											
Petroleum 3/	2681.7	2723.0	2760.6	2740.7	2802.9	2845.2	2892.9	2916.8	2952.7	2987.7	3003.9

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Natural Gas	1484.2	1500.2	1514.7	1531.5	1557.1	1584.7	1614.5	1627.3	1638.3	1645.6	1659.5
Coal	2410.7	2438.0	2469.6	2502.1	2538.4	2579.4	2618.6	2676.8	2749.6	2799.1	2845.2
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	6576.6	6661.2	6744.9	6774.4	6898.4	7009.3	7126.0	7220.9	7340.5	7432.4	7508.6
Carbon Dioxide Emissions (tons per person)	20.9	21.0	21.1	21.0	21.3	21.4	21.6	21.7	21.9	22.0	22.1

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

	2023	2024	2025	2002- 2025
Residential				
Petroleum	98.7	98.3	97.5	-0.3%
Natural Gas	326.4	329.5	330.7	0.9%
Coal	1.1	1.1	1.1	-0.3%
Electricity	1077.6	1095.4	1106.8	1.3%
Total	1503.8	1524.3	1536.0	1.1%
Commercial				
Petroleum	62.5	62.5	62.5	0.8%
Natural Gas	218.0	220.6	223.3	1.2%
Coal	9.3	9.3	9.2	0.0%
Electricity	1219.8	1243.6	1268.7	2.2%
Total	1509.5	1535.9	1563.7	1.9%
Industrial 1/				
Petroleum	381.6	385.8	392.5	-0.2%
Natural Gas 2/	631.6	639.5	646.5	1.8%
Coal	200.5	199.9	205.6	0.5%
Electricity	863.1	878.4	894.9	1.5%
Total	2076.8	2103.6	2139.5	1.1%
Transportation				
Petroleum 3/	2453.5	2502.1	2536.5	1.5%
Natural Gas 4/	49.9	51.1	52.0	1.7%
Other 5/	0.0	0.0	0.0	N/A
Electricity	20.5	21.0	21.4	1.8%
Total	2523.9	2574.2	2609.8	1.5%
Total by Delivered Fuel				
Petroleum 3/	2996.2	3048.7	3088.9	1.1%
Natural Gas	1226.0	1240.7	1252.5	1.4%
Coal	210.8	210.3	215.9	0.4%
Other 5/	0.0	0.0	0.0	N/A
Electricity	3181.0	3238.4	3291.9	1.7%
Total	7614.0	7738.0	7849.1	1.4%
Electric Power Sector 6/				
Petroleum	32.7	33.5	34.2	-3.2%
Natural Gas	433.8	445.1	449.7	1.8%
Coal	2714.6	2759.7	2807.9	1.8%
Total	3181.0	3238.4	3291.9	1.7%
Total by Primary Fuel 7/				
Petroleum 3/	3028.9	3082.2	3123.2	1.1%

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

	2023	2024	2025	2002- 2025
Natural Gas	1659.7	1685.9	1702.2	1.5%
Coal	2925.4	2970.0	3023.8	1.7%
Other 5/ Total	0.0	0.0	0.0	N/A
	7614.0	7738.0	7849.1	1.4%
Carbon Dioxide Emissions (tons per person)	22.2	22.4	22.6	0.6%

**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 HW2004.D101703B.

**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	10010	10364	10726	11101	11468	11807	12147	12503	12871	13279
Real Potential Gross Domestic Product	9433	9726	10008	10302	10613	10940	11276	11607	11938	12275	12628	12970	13329
Real Disposable Personal Income	6748	7032	7244	7550	7716	7929	8122	8339	8560	8813	9075	9379	9704
Components of Real Gross Domestic Product													
Real Consumption	6377	6576	6754	7015	7231	7436	7662	7907	8137	8374	8622	8891	9187
Real Investment	1575	1590	1637	1742	1847	1960	2084	2181	2267	2363	2479	2589	2725
Real Government Spending	1640	1713	1754	1777	1806	1839	1871	1903	1934	1962	1982	2008	2035
Real Exports	1076	1059	1062	1134	1256	1385	1500	1614	1725	1837	1956	2080	2208
Real Imports	1492	1547	1608	1712	1819	1922	2031	2142	2253	2378	2513	2667	2838
Energy Intensity (thousand Btu per 1996 dollar of GDP)													
Delivered Energy	7.69	7.55	7.43	7.32	7.19	7.06	6.93	6.80	6.68	6.59	6.50	6.40	6.28
Total Energy	10.53	10.36	10.16	10.00	9.84	9.67	9.50	9.33	9.16	9.03	8.90	8.76	8.60
Price Indices													
GDP Chain-Type Price Index (1996=1.000)	1.094	1.107	1.123	1.136	1.161	1.187	1.213	1.242	1.274	1.308	1.346	1.386	1.428
Consumer Price Index (1982-4=1.00)	1.77	1.80	1.84	1.86	1.90	1.94	1.99	2.03	2.08	2.14	2.20	2.26	2.33
Wholesale Price Index (1982=1.00)													
All Commodities	1.34	1.31	1.37	1.36	1.39	1.41	1.43	1.45	1.48	1.50	1.52	1.55	1.58
Fuel and Power	1.05	0.93	1.11	1.03	1.08	1.09	1.11	1.12	1.14	1.17	1.18	1.21	1.24
Interest Rates (percent, nominal)													
Federal Funds Rate	3.89	1.67	1.12	1.04	1.96	2.32	2.66	3.50	4.58	5.58	5.63	5.67	5.69
10-Year Treasury Note	5.02	4.61	4.15	4.82	5.38	5.43	5.54	5.90	6.35	6.74	6.63	6.62	6.66
AA Utility Bond Rate	7.57	7.19	6.57	6.84	7.14	6.87	6.82	7.10	7.60	8.07	7.95	8.00	8.11
Unemployment Rate (percent)	4.77	5.78	6.08	6.10	5.89	5.78	5.54	5.25	5.07	4.95	4.85	4.68	4.42
Housing Starts (millions)	1.79	1.88	1.85	1.77	1.74	1.78	1.88	1.93	1.94	1.96	1.99	1.97	1.97
Commercial Floorspace, Total (billion square feet)	70.2	72.1	74.1	76.0	77.5	78.9	80.0	81.2	82.4	83.6	84.8	86.0	87.2
Unit Sales of Light-Duty Vehicles (millions)	17.11	16.78	16.36	16.89	17.03	17.35	17.61	17.74	17.88	17.95	18.18	18.30	18.51
Value of Shipments (billion 1996 dollars)													
Total Industrial	5368	5285	5226	5422	5608	5783	5956	6100	6261	6427	6605	6777	6966
Non-Manufacturing	1309	1222	1183	1213	1265	1286	1313	1348	1386	1422	1455	1484	1528
Manufacturing	4059	4064	4043	4209	4343	4497	4643	4753	4875	5005	5150	5294	5438
Energy Intensive	1085	1120	1103	1134	1155	1177	1199	1216	1233	1256	1279	1303	1327
Non-Intensive	2974	2944	2940	3075	3187	3320	3444	3537	3641	3749	3871	3991	4111
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	131.5	133.9	136.2	138.7	141.1	143.2	145.1	146.9	148.5	150.5
Employment, Manufacturing	17.7	16.7	16.1	15.8	15.8	16.0	16.1	16.1	16.1	16.2	16.3	16.3	16.4
Labor Force	143.9	145.1	146.6	148.1	150.0	152.1	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	13684	14073	14477	14903	15332	15731	16155	16555	16999	17452	17925	18456	3.0%
Real Potential Gross Domestic Product	13707	14098	14489	14874	15305	15712	16140	16547	16993	17454	17932	18456	2.8%
Real Disposable Personal Income	9988	10283	10584	10882	11197	11510	11844	12181	12536	12920	13346	13815	3.0%
Components of Real Gross Domestic Product													
Real Consumption	9473	9749	10044	10343	10642	10942	11252	11557	11876	12198	12540	12899	3.0%
Real Investment	2871	3003	3130	3278	3422	3539	3698	3845	4027	4211	4393	4627	4.8%
Real Government Spending	2065	2096	2129	2162	2197	2231	2271	2296	2329	2364	2396	2429	1.5%
Real Exports	2343	2476	2623	2794	2983	3172	3360	3557	3772	4002	4248	4511	6.5%
Real Imports	3019	3194	3387	3602	3828	4069	4343	4623	4928	5247	5576	5920	6.0%
Energy Intensity (thousand Btu per 1996 dollar of GDP)													
Delivered Energy	6.17	6.02	5.96	5.88	5.81	5.72	5.65	5.57	5.47	5.38	5.32	5.23	-1.6%
Total Energy	8.44	8.25	8.16	8.04	7.94	7.82	7.72	7.61	7.48	7.36	7.27	7.15	-1.6%
Price Indices													
GDP Chain-Type Price Index (1996=1.000)	1.474	1.521	1.570	1.623	1.680	1.741	1.805	1.872	1.943	2.015	2.090	2.168	3.0%
Consumer Price Index (1982-4=1.00)	2.41	2.49	2.57	2.65	2.75	2.85	2.96	3.07	3.19	3.32	3.45	3.59	3.0%
Wholesale Price Index (1982=1.00)													
All Commodities	1.61	1.63	1.66	1.69	1.72	1.77	1.81	1.85	1.89	1.93	1.98	2.02	1.9%
Fuel and Power	1.28	1.29	1.32	1.34	1.37	1.41	1.45	1.49	1.55	1.59	1.64	1.68	2.6%
Interest Rates (percent, nominal)													
Federal Funds Rate	5.95	5.95	5.98	5.98	6.48	6.53	6.56	6.56	6.62	6.64	6.93	7.24	N/A
10-Year Treasury Note	6.78	6.68	6.72	6.74	7.08	7.15	7.28	7.37	7.51	7.59	7.88	8.14	N/A
AA Utility Bond Rate	8.31	8.29	8.33	8.32	8.62	8.65	8.75	8.88	9.01	9.08	9.33	9.49	N/A
Unemployment Rate (percent)	4.30	4.46	4.48	4.43	4.37	4.34	4.36	4.38	4.39	4.41	4.40	4.43	N/A
Housing Starts (millions)	1.97	1.94	1.95	1.94	1.93	1.93	1.94	1.94	1.94	1.94	1.92	1.91	0.1%
Commercial Floorspace, Total (billion square feet)	88.4	89.6	90.7	91.9	93.1	94.4	95.6	96.8	98.0	99.1	100.3	101.6	1.5%
Unit Sales of Light-Duty Vehicles (millions)	18.63	18.76	19.07	19.46	19.80	20.04	20.27	20.30	20.48	20.71	21.01	21.33	1.1%
Value of Shipments (billion 1996 dollars)													
Total Industrial	7152	7334	7531	7745	7956	8115	8309	8488	8707	8925	9153	9407	2.5%
Non-Manufacturing	1564	1588	1611	1637	1672	1685	1714	1734	1769	1801	1825	1853	1.8%
Manufacturing	5588	5746	5920	6108	6284	6429	6595	6753	6938	7124	7327	7554	2.7%
Energy Intensive	1347	1369	1392	1415	1437	1455	1476	1495	1516	1537	1560	1583	1.5%
Non-Intensive	4241	4377	4528	4692	4846	4974	5119	5259	5422	5587	5768	5971	3.1%
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	152.3	153.8	155.3	157.0	158.6	160.2	161.7	163.0	164.5	165.8	167.3	168.9	1.1%
Employment, Manufacturing	16.3	16.2	16.2	16.2	16.2	16.1	16.1	16.0	16.1	16.1	16.1	16.2	-0.1%
Labor Force	165.0	166.3	167.2	168.1	169.1	170.3	171.4	172.1	172.8	173.8	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 HW2004.D101703B.

Table 21. International Petroleum Supply and Disposition Summary
(Million Barrels per Day, Unless 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	29.16	30.80	31.16	31.61	32.03	32.43	32.90	33.27	33.61
Production (Conventional) 2/											
Industrialized Countries											
U.S. (50 states)	8.84	9.16	8.70	9.04	9.36	9.57	9.80	9.86	9.84	9.76	9.67
Canada	2.09	2.14	2.14	2.14	2.13	2.11	2.08	2.04	1.98	1.92	1.87
Mexico	3.62	3.61	3.70	3.80	3.89	4.01	4.13	4.24	4.35	4.46	4.54
Western Europe 3/	6.82	6.76	6.72	6.69	6.65	6.66	6.66	6.66	6.65	6.64	6.56
Japan	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10
Australia and New Zealand	0.79	0.75	0.80	0.84	0.89	0.91	0.94	0.97	0.99	1.01	1.01
Total Industrialized	22.23	22.51	22.14	22.59	23.01	23.36	23.70	23.86	23.90	23.89	23.75
Eurasia											
Former Soviet Union											
Russia	7.30	7.67	8.32	8.79	9.48	9.77	10.05	10.34	10.50	10.62	10.72
Caspian Area 4/	1.48	1.66	1.77	1.88	1.99	2.26	2.53	2.80	3.07	3.34	3.63
Eastern Europe 5/	0.24	0.23	0.26	0.28	0.31	0.32	0.33	0.33	0.34	0.35	0.36
Total Eurasia	9.02	9.56	10.35	10.96	11.78	12.34	12.91	13.47	13.91	14.30	14.71
Developing Countries	44.44	44.24	44.06	43.40	42.28	42.07	42.06	42.24	42.56	43.20	43.86
Total Production (Conventional)	75.70	76.30	76.54	76.95	77.08	77.78	78.67	79.56	80.38	81.39	82.32
Production (Nonconventional) 8/											
U.S. (50 states)	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.07	0.09	0.11
Other North America	0.72	0.79	0.87	0.94	1.02	1.14	1.27	1.42	1.58	1.77	1.99
Western Europe	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05
Asia	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04
Middle East	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Africa	0.15	0.16	0.18	0.19	0.19	0.20	0.21	0.22	0.23	0.23	0.24
South and Central America	0.49	0.54	0.65	0.71	0.77	0.82	0.87	0.92	0.97	1.02	1.14
Total Production (Nonconventional)	1.42	1.55	1.77	1.92	2.07	2.25	2.46	2.68	2.94	3.21	3.59
Total Production	77.12	77.85	78.31	78.86	79.15	80.02	81.12	82.24	83.32	84.59	85.91
Consumption 9/											
Industrialized Countries											
U.S. (50 states)	19.71	19.61	19.90	20.14	20.30	20.53	20.78	21.03	21.17	21.39	21.69
U.S. Territories	0.28	0.29	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.34
Canada	1.91	1.96	1.99	2.00	2.01	2.00	2.01	2.01	2.02	2.03	2.04
Mexico	1.94	2.01	2.08	2.13	2.18	2.23	2.28	2.33	2.38	2.43	2.50
Western Europe	13.98	14.02	14.01	13.89	13.79	13.75	13.72	13.71	13.71	13.72	13.75
Japan	5.42	5.45	5.46	5.40	5.34	5.30	5.27	5.25	5.22	5.21	5.20
Australia and New Zealand	1.01	1.04	1.08	1.10	1.13	1.15	1.17	1.19	1.21	1.23	1.26
Total Industrialized	44.25	44.39	44.82	44.97	45.06	45.28	45.56	45.86	46.06	46.36	46.78
Eurasia											
Former Soviet Union	3.90	4.05	4.20	4.31	4.43	4.52	4.62	4.71	4.82	4.92	4.94
Eastern Europe	1.41	1.44	1.47	1.49	1.52	1.56	1.59	1.63	1.66	1.70	1.74
Total Eurasia	5.30	5.49	5.67	5.81	5.96	6.08	6.21	6.34	6.48	6.62	6.68
Developing Countries											

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
China	4.97	5.11	5.21	5.26	5.32	5.46	5.61	5.76	5.93	6.09	6.30
India	2.13	2.16	2.19	2.20	2.22	2.30	2.39	2.48	2.56	2.65	2.78
South Korea	2.14	2.20	2.25	2.28	2.31	2.36	2.41	2.46	2.52	2.57	2.60
Other Asia	5.53	5.63	5.72	5.79	5.85	5.96	6.08	6.20	6.32	6.45	6.66
Middle East 7/	5.36	5.34	5.31	5.26	5.37	5.37	5.52	5.67	5.82	6.08	6.14
Africa	2.58	2.56	2.53	2.50	2.41	2.49	2.52	2.55	2.58	2.61	2.64
South and Central America	4.87	4.91	4.93	4.93	4.95	5.02	5.10	5.20	5.29	5.39	5.52
Total Developing Countries	27.59	27.91	28.16	28.22	28.44	28.96	29.63	30.32	31.01	31.83	32.64
Total Consumption	77.14	77.79	78.65	79.00	79.46	80.32	81.39	82.51	83.56	84.81	86.10

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
World Oil Price (2002 dollars per barrel) 1/	33.82	34.01	34.16	34.23	34.30	34.39	34.47	34.55	34.63	34.70	34.79
Production (Conventional) 2/											
Industrialized Countries											
U.S. (50 states)	9.55	9.50	9.49	9.51	9.51	9.46	9.56	9.50	9.39	9.27	9.16
Canada	1.85	1.81	1.78	1.77	1.77	1.77	1.77	1.77	1.77	1.78	1.78
Mexico	4.63	4.71	4.79	4.87	4.89	4.91	4.93	4.95	4.96	5.01	5.06
Western Europe 3/	6.48	6.40	6.31	6.22	6.14	6.06	5.98	5.90	5.82	5.71	5.61
Japan	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Australia and New Zealand	1.00	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.95	0.95	0.94
Total Industrialized	23.61	23.50	23.45	23.44	23.38	23.27	23.30	23.17	22.99	22.81	22.64
Eurasia											
Former Soviet Union											
Russia	10.91	11.14	11.33	11.44	11.52	11.61	11.67	11.70	11.75	11.80	11.84
Caspian Area 4/	3.92	4.21	4.50	4.79	4.96	5.12	5.29	5.46	5.62	5.83	6.05
Eastern Europe 5/	0.37	0.38	0.39	0.40	0.41	0.41	0.42	0.43	0.44	0.45	0.46
Total Eurasia	15.20	15.73	16.21	16.62	16.88	17.15	17.38	17.59	17.82	18.08	18.35
Developing Countries	44.56	45.23	45.81	46.78	47.51	49.02	50.21	51.69	53.23	54.80	56.53
Total Production (Conventional)	83.38	84.46	85.48	86.84	87.77	89.43	90.89	92.45	94.03	95.69	97.51
Production (Nonconventional) 8/											
U.S. (50 states)	0.12	0.13	0.17	0.18	0.19	0.21	0.21	0.21	0.24	0.24	0.24
Other North America	2.24	2.53	2.85	3.20	3.27	3.34	3.41	3.48	3.55	3.59	3.62
Western Europe	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06
Asia	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05
Middle East	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03
Africa	0.25	0.26	0.27	0.28	0.28	0.30	0.31	0.33	0.34	0.36	0.37
South and Central America	1.26	1.39	1.51	1.63	1.69	1.75	1.82	1.88	1.94	1.98	2.02
Total Production (Nonconventional)	3.98	4.40	4.89	5.40	5.55	5.72	5.87	6.02	6.20	6.30	6.39
Total Production	87.35	88.86	90.37	92.24	93.33	95.15	96.76	98.48	100.24	101.99	103.90
Consumption 9/											
Industrialized Countries											
U.S. (50 states)	22.00	22.34	22.63	22.49	23.01	23.36	23.76	23.95	24.26	24.54	24.66
U.S. Territories	0.35	0.35	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.40
Canada	2.04	2.05	2.06	2.07	2.08	2.09	2.09	2.10	2.12	2.13	2.15
Mexico	2.57	2.64	2.71	2.78	2.83	2.87	2.92	2.97	3.02	3.08	3.13
Western Europe	13.79	13.83	13.88	13.92	13.96	13.99	14.02	14.06	14.09	14.19	14.29
Japan	5.20	5.20	5.21	5.22	5.22	5.23	5.23	5.25	5.26	5.29	5.33
Australia and New Zealand	1.29	1.31	1.34	1.37	1.40	1.43	1.46	1.49	1.52	1.55	1.58
Total Industrialized	47.23	47.72	48.18	48.20	48.85	49.32	49.86	50.19	50.65	51.17	51.55
Eurasia											
Former Soviet Union											
Eastern Europe	4.97	5.00	5.03	5.06	5.15	5.24	5.33	5.42	5.51	5.61	5.72
Total Eurasia	1.78	1.82	1.87	1.91	1.96	2.01	2.06	2.11	2.16	2.23	2.29
Total Eurasia	6.75	6.82	6.89	6.97	7.11	7.25	7.39	7.53	7.67	7.84	8.01
Developing Countries											

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
China	6.51	6.73	6.95	7.17	7.48	7.79	8.11	8.42	8.79	9.03	9.32
India	2.90	3.02	3.15	3.27	3.44	3.61	3.78	3.95	4.12	4.31	4.49
South Korea	2.64	2.67	2.71	2.75	2.77	2.80	2.83	2.85	2.89	2.92	2.95
Other Asia	6.88	7.10	7.32	7.55	7.76	7.98	8.20	8.41	8.63	8.87	9.12
Middle East 7/	6.30	6.47	6.64	6.85	6.97	7.14	7.32	7.49	7.73	7.86	8.06
Africa	2.67	2.71	2.74	2.80	2.82	2.87	2.92	2.97	3.04	3.08	3.13
South and Central America	5.66	5.79	5.93	6.10	6.22	6.38	6.53	6.68	6.84	7.02	7.21
Total Developing Countries	33.56	34.49	35.43	36.49	37.48	38.58	39.68	40.79	42.03	43.09	44.28
Total Consumption	87.54	89.03	90.51	91.66	93.43	95.15	96.93	98.52	100.35	102.10	103.84

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

	2023	2024	2025	2002- 2025
World Oil Price (2002 dollars per barrel) 1/	34.87	34.95	35.03	1.7%
Production (Conventional) 2/				
Industrialized Countries				
U.S. (50 states)	9.10	9.01	8.79	-0.2%
Canada	1.78	1.78	1.79	-0.8%
Mexico	5.11	5.16	5.20	1.6%
Western Europe 3/	5.50	5.39	5.28	-1.1%
Japan	0.09	0.09	0.09	0.5%
Australia and New Zealand	0.94	0.93	0.92	0.9%
Total Industrialized	22.51	22.36	22.07	-0.1%
Eurasia				
Former Soviet Union				
Russia	11.87	11.92	11.94	1.9%
Caspian Area 4/	6.26	6.47	6.68	6.2%
Eastern Europe 5/	0.46	0.47	0.48	3.3%
Total Eurasia	18.59	18.86	19.09	3.0%
Developing Countries	58.14	59.83	61.99	1.5%
Total Production (Conventional)	99.25	101.04	103.16	1.3%
Production (Nonconventional) 8/				
U.S. (50 states)	0.24	0.24	0.27	N/A
Other North America	3.66	3.70	3.73	7.0%
Western Europe	0.06	0.06	0.06	2.5%
Asia	0.05	0.05	0.05	3.1%
Middle East	0.03	0.04	0.04	8.5%
Africa	0.38	0.40	0.41	4.3%
South and Central America	2.05	2.09	2.13	6.2%
Total Production (Nonconventional)	6.48	6.57	6.70	6.6%
Total Production	105.73	107.62	109.86	1.5%
Consumption 9/				
Industrialized Countries				
U.S. (50 states)	24.87	25.31	25.63	1.2%
U.S. Territories	0.41	0.41	0.42	1.6%
Canada	2.17	2.19	2.20	0.5%
Mexico	3.19	3.25	3.31	2.2%
Western Europe	14.39	14.49	14.59	0.2%
Japan	5.37	5.41	5.45	0.0%
Australia and New Zealand	1.61	1.65	1.68	2.1%
Total Industrialized	52.01	52.71	53.28	0.8%
Eurasia				
Former Soviet Union				
Eastern Europe	2.36	2.42	2.49	2.4%
Total Eurasia	8.18	8.35	8.52	1.9%
Developing Countries				

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

	2023	2024	2025	2002- 2025
China	9.61	9.90	10.24	3.1%
India	4.68	4.86	5.05	3.8%
South Korea	2.98	3.02	3.05	1.4%
Other Asia	9.36	9.60	9.86	2.5%
Middle East 7/	8.26	8.46	8.74	2.2%
Africa	3.19	3.24	3.36	1.2%
South and Central America	7.40	7.59	7.79	2.0%
Total Developing Countries	45.48	46.68	48.08	2.4%
Total Consumption	105.67	107.73	109.89	1.5%

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 HW2004.D101703B.