

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Production											
Crude Oil & Lease Condensate	12.16	11.91	12.04	12.20	12.39	12.34	12.57	12.53	12.36	12.05	11.76
Natural Gas Plant Liquids	2.55	2.56	2.35	2.70	2.87	2.88	2.89	2.91	2.91	2.99	2.99
Dry Natural Gas	20.23	19.56	20.11	20.13	19.71	19.82	20.02	20.21	20.33	20.80	20.85
Coal	23.97	22.70	22.67	23.12	23.63	24.17	24.79	24.82	25.25	25.38	25.58
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35
Renewable Energy 1/	5.25	5.84	5.98	6.43	6.54	6.68	6.90	7.03	7.20	7.34	7.50
Other 2/	0.53	1.13	0.94	0.98	0.72	0.79	0.84	0.87	0.92	0.86	0.77
Total	72.72	71.85	72.05	73.70	74.11	74.97	76.31	76.69	77.22	77.72	77.79
Imports											
Crude Oil 3/	20.26	19.84	20.68	21.15	22.16	23.11	23.55	24.22	25.16	26.36	27.31
Petroleum Products 4/	5.04	4.75	4.87	5.26	5.81	6.01	6.22	6.61	6.57	6.57	7.00
Natural Gas	4.06	4.10	4.28	4.48	4.70	5.11	5.15	5.56	5.71	5.93	6.21
Other Imports 5/	0.59	0.52	0.69	0.70	0.76	0.78	0.82	0.86	0.90	0.94	0.97
Total	29.95	29.21	30.52	31.60	33.44	35.01	35.74	37.26	38.34	39.80	41.48
Exports											
Petroleum 6/	2.01	2.03	2.03	2.08	2.11	2.11	2.13	2.15	2.17	2.18	2.19
Natural Gas	0.38	0.52	0.70	0.81	0.81	0.83	0.85	0.87	0.89	0.90	0.90
Coal	1.26	1.03	1.07	1.04	1.02	1.00	0.98	0.95	0.93	0.90	0.87
Total	3.65	3.58	3.79	3.93	3.94	3.94	3.96	3.97	4.00	3.98	3.95
Discrepancy 7/	2.09	-0.24	0.69	1.04	0.16	0.26	0.29	0.33	0.37	0.38	0.36
Consumption											
Petroleum Products 8/	38.49	38.11	38.74	39.20	41.60	42.65	43.52	44.51	45.22	46.10	47.10
Natural Gas	23.05	23.37	22.67	23.84	23.66	24.18	24.42	25.02	25.27	25.98	26.30
Coal	22.04	22.18	22.60	22.61	23.29	23.90	24.58	24.68	25.16	25.34	25.60
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	5.99	6.43	6.54	6.68	6.91	7.03	7.20	7.34	7.50
Other 9/	0.08	0.07	0.13	0.10	0.10	0.08	0.08	0.08	0.09	0.10	0.10
Total	96.94	97.72	98.09	100.32	103.45	105.78	107.80	109.64	111.19	113.16	114.96
Net Imports - Petroleum	23.29	22.56	23.52	24.33	25.86	27.01	27.64	28.67	29.55	30.75	32.12
Prices (2002 dollars per unit)											
World Oil Price (dollars per barrel) 10/	22.25	23.68	25.33	16.86	16.98	16.98	16.98	16.98	16.98	16.98	16.98
Natural Gas Wellhead Price (dollars per Mcf) 11/	4.14	2.95	4.82	3.82	3.42	3.31	3.37	3.51	3.36	3.34	3.48
Coal Minemouth Price (dollars per ton)	17.79	17.90	18.02	17.63	17.55	17.30	17.22	17.25	17.15	17.01	16.92
Average Electricity (cents per kilowatthour)	7.4	7.2	7.1	6.9	6.8	6.6	6.5	6.5	6.5	6.5	6.5

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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	11.49	11.34	11.18	11.11	10.80	10.40	10.25	9.92	9.54	9.25	8.98
Natural Gas Plant Liquids	2.97	2.98	3.01	2.98	3.01	3.00	3.04	3.13	3.17	3.12	3.12
Dry Natural Gas	20.85	20.95	21.28	21.12	21.44	21.39	21.71	22.41	22.75	22.71	22.78
Coal	25.68	25.76	25.82	26.02	26.30	26.53	26.73	27.06	27.44	27.81	28.39
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/	7.63	7.77	7.90	8.01	8.11	8.20	8.29	8.41	8.51	8.60	8.67
Other 2/	0.75	0.74	0.75	0.76	0.77	0.76	0.78	0.78	0.75	0.78	0.79
Total	77.76	77.96	78.38	78.47	78.93	78.81	79.33	80.23	80.67	80.80	81.25
Imports											
Crude Oil 3/	28.78	30.04	31.21	31.60	32.20	32.90	33.72	34.65	35.63	36.57	37.55
Petroleum Products 4/	7.07	7.36	7.38	8.16	8.73	9.30	9.62	9.69	9.98	10.30	10.69
Natural Gas	6.55	6.71	6.68	6.95	6.98	7.54	7.57	7.32	7.36	7.56	7.60
Other Imports 5/	0.98	1.00	1.02	1.04	1.04	1.06	1.07	1.06	1.10	1.12	1.14
Total	43.38	45.11	46.29	47.76	48.96	50.80	51.99	52.72	54.08	55.55	56.97
Exports											
Petroleum 6/	2.23	2.29	2.31	2.38	2.41	2.40	2.43	2.40	2.42	2.44	2.48
Natural Gas	0.89	0.89	0.88	0.89	0.90	0.90	0.91	0.91	0.91	0.91	0.91
Coal	0.80	0.80	0.79	0.80	0.81	0.81	0.82	0.76	0.73	0.68	0.68
Total	3.92	3.97	3.98	4.07	4.11	4.12	4.16	4.07	4.06	4.03	4.07
Discrepancy 7/	0.40	0.43	0.47	0.46	0.40	0.44	0.48	0.53	0.54	0.55	0.58
Consumption											
Petroleum Products 8/	48.26	49.55	50.56	51.56	52.45	53.30	54.31	55.04	55.93	56.83	57.88
Natural Gas	26.65	26.93	27.24	27.35	27.78	28.22	28.52	28.97	29.34	29.51	29.61
Coal	25.80	25.90	26.00	26.21	26.46	26.73	26.95	27.34	27.78	28.24	28.84
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/	7.63	7.77	7.90	8.01	8.11	8.20	8.30	8.41	8.51	8.60	8.67
Other 9/	0.10	0.09	0.09	0.10	0.08	0.08	0.07	0.05	0.06	0.05	0.04
Total	116.82	118.66	120.23	121.70	123.38	125.05	126.68	128.35	130.14	131.76	133.57
Net Imports - Petroleum	33.62	35.11	36.27	37.39	38.53	39.80	40.91	41.94	43.19	44.43	45.76
Prices (2002 dollars per unit)											
World Oil Price (dollars per barrel) 10/	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98
Natural Gas Wellhead Price (dollars per Mcf) 11/	3.61	3.70	3.74	3.80	3.91	3.90	3.91	3.97	3.91	3.97	3.96
Coal Minemouth Price (dollars per ton)	16.72	16.64	16.32	16.19	16.10	15.99	16.01	15.94	16.08	16.26	16.25
Average Electricity (cents per kilowatthour)	6.6	6.5	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.7

**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	9.00	8.80	8.50	-1.5%
Natural Gas Plant Liquids	3.16	3.23	3.17	0.9%
Dry Natural Gas	23.06	23.57	23.09	0.7%
Coal	29.12	29.61	30.10	1.2%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 1/ Other 2/	8.72	8.82	8.95	1.9%
	0.80	0.81	0.82	-1.4%
Total	82.39	83.37	83.15	0.6%
Imports				
Crude Oil 3/ Petroleum Products 4/	38.18	38.80	39.56	3.0%
	10.87	11.27	12.22	4.2%
Natural Gas	7.52	7.47	7.82	2.9%
Other Imports 5/	1.15	1.17	1.18	3.6%
Total	57.72	58.71	60.78	3.2%
Exports				
Petroleum 6/	2.47	2.48	2.54	1.0%
Natural Gas	0.91	0.90	0.89	2.4%
Coal	0.69	0.69	0.60	-2.3%
Total	4.07	4.07	4.03	0.5%
Discrepancy 7/	0.62	0.60	0.64	N/A
Consumption				
Petroleum Products 8/	58.74	59.62	60.88	2.1%
Natural Gas	29.81	30.32	30.19	1.1%
Coal	29.60	30.09	30.68	1.4%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 1/ Other 9/	8.72	8.82	8.95	1.9%
	0.03	0.03	0.02	-4.8%
Total	135.43	137.41	139.26	1.6%
Net Imports - Petroleum	46.58	47.60	49.23	3.5%
Prices (2002 dollars per unit)				
World Oil Price (dollars per barrel) 10/	16.98	16.98	16.98	-1.4%
Natural Gas Wellhead Price (dollars per Mcf) 11/	3.98	4.11	4.30	1.7%
Coal Minemouth Price (dollars per ton)	16.36	16.25	16.35	-0.4%
Average Electricity (cents per kilowatthour)	6.6	6.6	6.7	-0.3%

**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 LW2004.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	0.97	0.99	0.99	0.98	0.98	0.97	0.96
Kerosene	0.11	0.07	0.08	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Liquefied Petroleum Gas	0.50	0.53	0.50	0.51	0.53	0.55	0.56	0.57	0.57	0.58	0.59
Petroleum Subtotal	1.51	1.48	1.51	1.58	1.62	1.65	1.67	1.67	1.67	1.67	1.67
Natural Gas	4.92	5.06	5.21	5.33	5.37	5.46	5.53	5.60	5.64	5.71	5.76
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 4.45	0.40 4.51	0.40 4.58	0.40 4.66	0.41 4.75	0.40 4.81	0.40 4.89	0.40 4.96
Delivered Energy	10.91	11.28	11.52	11.77	11.91	12.11	12.27	12.44	12.54	12.68	12.80
Electricity Related Losses	9.28	9.60	9.69	9.78	9.95	10.11	10.28	10.43	10.47	10.56	10.68
Total	20.18	20.88	21.21	21.56	21.86	22.21	22.55	22.87	23.01	23.24	23.48
Commercial											
Distillate Fuel	0.49	0.49	0.57	0.56	0.59	0.62	0.64	0.66	0.67	0.68	0.69
Residual Fuel	0.09	0.08	0.12	0.13	0.14	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	0.11	0.10	0.10	0.10	0.10	0.10	0.10
Motor Gasoline 2/ Petroleum Subtotal	0.05 0.74	0.05 0.72	0.05 0.85	0.05 0.85	0.05 0.91	0.05 0.92	0.05 0.94	0.05 0.95	0.05 0.97	0.05 0.98	0.05 0.99
Natural Gas	3.33	3.21	3.26	3.20	3.27	3.36	3.42	3.46	3.52	3.58	3.62
Coal	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Renewable Energy 3/ Electricity	0.09 4.09	0.10 4.12	0.10 4.14	0.10 4.28	0.10 4.43	0.10 4.57	0.10 4.70	0.10 4.83	0.10 4.96	0.10 5.08	0.10 5.21
Delivered Energy	8.34	8.25	8.44	8.53	8.80	9.04	9.26	9.44	9.63	9.84	10.03
Electricity Related Losses	9.24	9.15	9.17	9.42	9.78	10.08	10.37	10.60	10.78	10.98	11.22
Total	17.58	17.40	17.61	17.95	18.58	19.12	19.63	20.04	20.41	20.82	21.25
Industrial 4/											
Distillate Fuel	1.21	1.16	1.17	1.14	1.17	1.18	1.19	1.19	1.19	1.21	1.23
Liquefied Petroleum Gas	2.10	2.22	2.12	2.17	2.24	2.28	2.32	2.36	2.37	2.40	2.45
Petrochemical Feedstocks	1.16	1.22	1.27	1.29	1.31	1.33	1.34	1.35	1.35	1.36	1.38
Residual Fuel	0.15	0.20	0.21	0.21	0.23	0.23	0.24	0.24	0.24	0.23	0.24
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 8.92	4.48 9.60	4.56 9.73	4.58 9.82	4.62 9.93	4.60 9.90	4.60 9.97	4.59 10.04
Natural Gas	7.56	7.43	7.41	7.78	7.77	7.91	8.02	8.09	8.26	8.48	8.63
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.12 8.67	1.35 8.78	1.03 8.44	1.02 8.80	1.07 8.84	1.13 9.04	1.19 9.22	1.25 9.34	1.31 9.57	1.39 9.86	1.39 10.03
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.68	0.67	0.66	0.66	0.65	0.64
Steam Coal	1.51	1.47	1.40	1.40	1.41	1.41	1.41	1.41	1.41	1.41	1.42
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	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)**

	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	2.08	2.07	2.06
Renewable Energy 7/	1.64	1.66	1.66	1.73	1.80	1.85	1.88	1.91	1.95	2.01	2.06
Electricity	3.29	3.39	3.34	3.43	3.54	3.61	3.67	3.72	3.78	3.84	3.91
Delivered Energy	24.89	24.94	24.52	24.99	25.90	26.33	26.68	26.99	27.28	27.75	28.09
Electricity Related Losses	7.44	7.53	7.39	7.56	7.81	7.95	8.09	8.17	8.21	8.30	8.41
Total	32.33	32.47	31.91	32.55	33.71	34.29	34.77	35.17	35.49	36.05	36.50
Transportation											
Distillate Fuel 8/	5.32	5.12	5.16	5.38	5.60	5.78	5.95	6.10	6.26	6.45	6.63
Jet Fuel 9/	3.43	3.34	3.26	3.35	3.47	3.57	3.66	3.76	3.85	3.95	4.03
Motor Gasoline 2/	16.17	16.62	16.95	17.54	18.22	18.77	19.19	19.63	20.07	20.51	20.92
Residual Fuel	0.84	0.71	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.80
Liquefied Petroleum Gas	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06
Other Petroleum 10/	0.19	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26
Petroleum Subtotal	25.96	26.06	26.41	27.31	28.36	29.20	29.88	30.58	31.28	32.02	32.70
Pipeline Fuel Natural Gas	0.64	0.65	0.68	0.67	0.65	0.65	0.65	0.65	0.66	0.68	0.68
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	0.09	0.09	0.09	0.09	0.09
Delivered Energy	26.69	26.79	27.18	28.09	29.12	29.97	30.66	31.37	32.09	32.85	33.53
Electricity Related Losses	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20
Total	26.85	26.96	27.36	28.26	29.30	30.15	30.85	31.56	32.28	33.04	33.73
Delivered Energy Consumption, All Sectors											
Distillate Fuel	7.92	7.66	7.83	8.03	8.34	8.58	8.77	8.93	9.10	9.31	9.51
Kerosene	0.15	0.09	0.11	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Jet Fuel 9/	3.43	3.34	3.26	3.35	3.47	3.57	3.66	3.76	3.85	3.95	4.03
Liquefied Petroleum Gas	2.70	2.86	2.73	2.80	2.92	2.96	3.02	3.07	3.10	3.14	3.19
Motor Gasoline 2/	16.37	16.83	17.16	17.74	18.43	18.97	19.40	19.84	20.28	20.72	21.13
Petrochemical Feedstocks	1.16	1.22	1.27	1.29	1.31	1.33	1.34	1.35	1.35	1.36	1.38
Residual Fuel	1.07	1.00	1.10	1.12	1.15	1.15	1.15	1.16	1.16	1.16	1.16
Other Petroleum 12/	4.45	4.26	4.28	4.19	4.71	4.78	4.81	4.85	4.83	4.84	4.83
Petroleum Subtotal	37.25	37.26	37.74	38.66	40.48	41.50	42.31	43.14	43.81	44.63	45.40
Natural Gas	15.81	15.71	15.90	16.34	16.45	16.77	17.01	17.20	17.47	17.82	18.08
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.07	1.13	1.19	1.25	1.31	1.39	1.39
Pipeline Natural Gas	0.64	0.65	0.68	0.67	0.65	0.65	0.65	0.65	0.66	0.68	0.68
Natural Gas Subtotal	17.57	17.72	17.60	18.03	18.17	18.55	18.85	19.10	19.44	19.88	20.15
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.68	0.67	0.66	0.66	0.65	0.64
Steam Coal	1.62	1.58	1.51	1.51	1.52	1.52	1.52	1.52	1.52	1.52	1.53
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
Coal Subtotal	2.36	2.23	2.22	2.22	2.23	2.22	2.21	2.19	2.19	2.18	2.17
Renewable Energy 13/	2.09	2.15	2.17	2.23	2.30	2.35	2.39	2.42	2.46	2.51	2.57
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	12.24	12.56	12.84	13.12	13.39	13.63	13.91	14.17
Delivered Energy	70.83	71.27	71.66	73.38	75.74	77.45	78.87	80.25	81.54	83.12	84.46

**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	26.94	27.71	28.33	28.93	29.40	29.65	30.04	30.51
Total	96.94	97.72	98.09	100.32	103.45	105.78	107.80	109.64	111.19	113.16	114.96
Electric Generators 14/											
Distillate Fuel	0.33	0.16	0.16	0.17	0.34	0.38	0.43	0.55	0.56	0.61	0.80
Residual Fuel	0.91	0.69	0.83	0.37	0.78	0.77	0.77	0.83	0.85	0.86	0.90
Petroleum Subtotal	1.25	0.85	1.00	0.54	1.12	1.15	1.21	1.38	1.40	1.47	1.70
Natural Gas	5.48	5.65	5.07	5.81	5.49	5.64	5.57	5.92	5.82	6.09	6.16
Steam Coal	19.68	19.96	20.38	20.39	21.06	21.68	22.38	22.49	22.97	23.16	23.43
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35
Renewable Energy/Other 15/	3.16	3.69	3.81	4.20	4.23	4.33	4.52	4.61	4.74	4.83	4.94
Electricity Imports	0.08	0.07	0.13	0.10	0.10	0.08	0.08	0.08	0.09	0.10	0.10
Total	37.67	38.36	38.35	39.18	40.27	41.17	42.05	42.79	43.28	43.95	44.68
Total Energy Consumption											
Distillate Fuel	8.26	7.82	8.00	8.20	8.68	8.96	9.20	9.48	9.65	9.92	10.31
Kerosene	0.15	0.09	0.11	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Jet Fuel 9/	3.43	3.34	3.26	3.35	3.47	3.57	3.66	3.76	3.85	3.95	4.03
Liquefied Petroleum Gas	2.70	2.86	2.73	2.80	2.92	2.96	3.02	3.07	3.10	3.14	3.19
Motor Gasoline 2/	16.37	16.83	17.16	17.74	18.43	18.97	19.40	19.84	20.28	20.72	21.13
Petrochemical Feedstocks	1.16	1.22	1.27	1.29	1.31	1.33	1.34	1.35	1.35	1.36	1.38
Residual Fuel	1.98	1.69	1.93	1.49	1.93	1.92	1.93	1.99	2.01	2.01	2.07
Other Petroleum 12/	4.45	4.26	4.28	4.19	4.71	4.78	4.81	4.85	4.83	4.84	4.83
Petroleum Subtotal	38.49	38.11	38.74	39.20	41.60	42.65	43.52	44.51	45.22	46.10	47.10
Natural Gas	21.30	21.36	20.97	22.15	21.94	22.40	22.58	23.11	23.30	23.91	24.23
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.02	1.07	1.13	1.19	1.25	1.31	1.39	1.39
Pipeline Natural Gas	0.64	0.65	0.68	0.67	0.65	0.65	0.65	0.65	0.66	0.68	0.68
Natural Gas Subtotal	23.05	23.37	22.67	23.84	23.66	24.18	24.42	25.02	25.27	25.98	26.30
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.68	0.67	0.66	0.66	0.65	0.64
Steam Coal	21.30	21.54	21.89	21.90	22.58	23.20	23.90	24.01	24.49	24.69	24.96
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
Coal Subtotal	22.04	22.18	22.60	22.61	23.29	23.90	24.58	24.68	25.16	25.34	25.60
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	5.99	6.43	6.54	6.68	6.91	7.03	7.20	7.34	7.50
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	0.13	0.10	0.10	0.08	0.08	0.08	0.09	0.10	0.10
Total	96.94	97.72	98.09	100.32	103.45	105.78	107.80	109.64	111.19	113.16	114.96
Energy Use & Related Statistics											
Delivered Energy Use	70.83	71.27	71.66	73.38	75.74	77.45	78.87	80.25	81.54	83.12	84.46
Total Energy Use	96.94	97.72	98.09	100.32	103.45	105.78	107.80	109.64	111.19	113.16	114.96
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	10027	10435	10797	11159	11524	11873	12234	12582
Carbon Dioxide Emissions (million metric tons)	5691.7	5729.3	5742.7	5831.3	6045.4	6200.2	6334.3	6442.4	6549.6	6661.3	6769.3

**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	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88
Kerosene	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.10
Liquefied Petroleum Gas	0.60	0.60	0.61	0.62	0.62	0.63	0.64	0.64	0.65	0.66	0.67
Petroleum Subtotal	1.67	1.67	1.67	1.67	1.67	1.66	1.66	1.66	1.66	1.65	1.65
Natural Gas	5.81	5.82	5.85	5.88	5.96	5.98	6.02	6.06	6.13	6.17	6.21
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Energy 1/ Electricity	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Delivered Energy	12.95	13.02	13.12	13.23	13.38	13.46	13.57	13.68	13.84	13.93	14.05
Electricity Related Losses	10.83	10.90	10.98	11.06	11.19	11.26	11.32	11.44	11.55	11.61	11.71
Total	23.78	23.92	24.10	24.29	24.57	24.72	24.89	25.12	25.39	25.54	25.76
Commercial											
Distillate Fuel	0.70	0.71	0.72	0.74	0.74	0.75	0.76	0.77	0.78	0.79	0.80
Residual Fuel	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Kerosene	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Liquefied Petroleum Gas	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Motor Gasoline 2/ Petroleum Subtotal	1.00	1.02	1.03	1.04	1.05	1.05	1.06	1.07	1.09	1.10	1.11
Natural Gas	3.66	3.69	3.72	3.73	3.79	3.81	3.85	3.89	3.93	3.99	4.02
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	10.20	10.37	10.53	10.67	10.84	10.99	11.16	11.33	11.52	11.70	11.86
Electricity Related Losses	11.45	11.67	11.83	11.99	12.16	12.37	12.53	12.74	12.91	13.09	13.26
Total	21.65	22.03	22.36	22.67	23.00	23.36	23.69	24.07	24.42	24.79	25.12
Industrial 4/											
Distillate Fuel	1.24	1.27	1.28	1.31	1.31	1.33	1.34	1.36	1.38	1.39	1.42
Liquefied Petroleum Gas	2.49	2.54	2.56	2.61	2.64	2.70	2.75	2.79	2.84	2.88	2.93
Petrochemical Feedstocks	1.40	1.43	1.44	1.45	1.48	1.50	1.52	1.54	1.57	1.58	1.60
Residual Fuel	0.24	0.25	0.25	0.26	0.25	0.26	0.26	0.26	0.27	0.27	0.27
Motor Gasoline 2/	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19
Other Petroleum 5/ Petroleum Subtotal	10.19	10.40	10.57	10.71	10.81	10.97	11.26	11.37	11.54	11.68	11.86
Natural Gas	8.72	8.84	8.92	8.99	9.17	9.29	9.33	9.44	9.58	9.69	9.83
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.40	1.41	1.43	1.42	1.44	1.45	1.47	1.52	1.57	1.57	1.58
Metallurgical Coal	0.62	0.61	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.51
Steam Coal	1.42	1.43	1.43	1.43	1.43	1.44	1.45	1.45	1.45	1.45	1.46
Net Coal Coke Imports	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Coal Subtotal	2.05	2.04	2.03	2.02	2.01	2.01	2.00	1.99	1.99	1.98	1.98
Renewable Energy 7/	2.11	2.17	2.22	2.27	2.31	2.37	2.42	2.46	2.50	2.54	2.59
Electricity	3.97	4.04	4.10	4.17	4.23	4.32	4.39	4.44	4.51	4.58	4.66
Delivered Energy	28.44	28.91	29.27	29.59	29.98	30.40	30.86	31.22	31.67	32.03	32.48
Electricity Related Losses	8.51	8.62	8.68	8.77	8.86	9.01	9.08	9.17	9.24	9.33	9.46
Total	36.95	37.53	37.96	38.35	38.84	39.41	39.94	40.38	40.92	41.36	41.94
Transportation											
Distillate Fuel 8/	6.80	6.98	7.13	7.28	7.43	7.59	7.74	7.88	8.04	8.19	8.37
Jet Fuel 9/	4.13	4.22	4.29	4.36	4.42	4.50	4.57	4.65	4.70	4.76	4.82
Motor Gasoline 2/	21.35	21.80	22.17	22.53	22.88	23.21	23.55	23.90	24.27	24.69	25.11
Residual Fuel	0.80	0.80	0.80	0.80	0.80	0.81	0.81	0.81	0.81	0.81	0.82
Liquefied Petroleum Gas	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08
Other Petroleum 10/	0.26	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31
Petroleum Subtotal	33.40	34.12	34.74	35.31	35.88	36.47	37.04	37.61	38.20	38.84	39.51
Pipeline Fuel Natural Gas	0.68	0.68	0.69	0.68	0.69	0.69	0.69	0.74	0.77	0.77	0.78
Compressed Natural Gas	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10
Renewable Energy (E85) 11/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12
Delivered Energy	34.24	34.97	35.61	36.18	36.76	37.35	37.94	38.55	39.19	39.83	40.51
Electricity Related Losses	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23
Total	34.44	35.18	35.81	36.39	36.97	37.57	38.16	38.78	39.41	40.06	40.75
Delivered Energy Consumption, All Sectors											
Distillate Fuel	9.70	9.91	10.09	10.26	10.41	10.59	10.76	10.91	11.09	11.26	11.48
Kerosene	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15
Jet Fuel 9/	4.13	4.22	4.29	4.36	4.42	4.50	4.57	4.65	4.70	4.76	4.82
Liquefied Petroleum Gas	3.24	3.30	3.34	3.39	3.44	3.50	3.56	3.61	3.68	3.72	3.78
Motor Gasoline 2/	21.56	22.01	22.39	22.75	23.10	23.44	23.78	24.13	24.50	24.92	25.35
Petrochemical Feedstocks	1.40	1.43	1.44	1.45	1.48	1.50	1.52	1.54	1.57	1.58	1.60
Residual Fuel	1.17	1.18	1.18	1.19	1.19	1.20	1.20	1.21	1.21	1.21	1.22
Other Petroleum 12/	4.89	4.99	5.11	5.17	5.21	5.27	5.47	5.51	5.58	5.65	5.73
Petroleum Subtotal	46.26	47.21	48.01	48.73	49.41	50.16	51.03	51.71	52.49	53.27	54.13
Natural Gas	18.26	18.42	18.56	18.68	19.00	19.17	19.28	19.48	19.74	19.94	20.16
Lease and Plant Fuel 6/	1.40	1.41	1.43	1.42	1.44	1.45	1.47	1.52	1.57	1.57	1.58
Pipeline Natural Gas	0.68	0.68	0.69	0.68	0.69	0.69	0.69	0.74	0.77	0.77	0.78
Natural Gas Subtotal	20.33	20.51	20.68	20.79	21.13	21.31	21.44	21.74	22.07	22.29	22.52
Metallurgical Coal	0.62	0.61	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.51
Steam Coal	1.53	1.54	1.54	1.54	1.54	1.55	1.56	1.56	1.56	1.56	1.57
Net Coal Coke Imports	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Subtotal	2.16	2.15	2.14	2.13	2.12	2.12	2.11	2.10	2.09	2.09	2.08
Renewable Energy 13/	2.62	2.68	2.73	2.78	2.83	2.88	2.93	2.96	3.01	3.05	3.10
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	14.45	14.71	14.97	15.23	15.47	15.74	16.01	16.26	16.55	16.80	17.08
Delivered Energy	85.82	87.26	88.53	89.67	90.96	92.20	93.52	94.78	96.22	97.50	98.91

**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	31.00	31.40	31.70	32.03	32.42	32.85	33.15	33.57	33.92	34.26	34.66
Total	116.82	118.66	120.23	121.70	123.38	125.05	126.68	128.35	130.14	131.76	133.57
Electric Generators 14/											
Distillate Fuel	1.04	1.34	1.54	1.80	2.04	2.05	2.18	2.21	2.37	2.46	2.66
Residual Fuel	0.95	1.01	1.01	1.03	1.00	1.09	1.10	1.13	1.08	1.09	1.09
Petroleum Subtotal	1.99	2.35	2.56	2.83	3.04	3.14	3.28	3.34	3.44	3.56	3.75
Natural Gas	6.32	6.42	6.56	6.56	6.65	6.91	7.08	7.23	7.26	7.22	7.09
Steam Coal	23.64	23.74	23.85	24.07	24.33	24.62	24.84	25.24	25.69	26.16	26.75
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/	5.01	5.10	5.17	5.23	5.28	5.33	5.37	5.45	5.50	5.55	5.58
Electricity Imports	0.10	0.09	0.09	0.10	0.08	0.08	0.07	0.05	0.06	0.05	0.04
Total	45.44	46.11	46.67	47.27	47.90	48.59	49.16	49.83	50.48	51.06	51.74
Total Energy Consumption											
Distillate Fuel	10.75	11.25	11.63	12.06	12.45	12.63	12.94	13.12	13.46	13.73	14.14
Kerosene	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15
Jet Fuel 9/	4.13	4.22	4.29	4.36	4.42	4.50	4.57	4.65	4.70	4.76	4.82
Liquefied Petroleum Gas	3.24	3.30	3.34	3.39	3.44	3.50	3.56	3.61	3.68	3.72	3.78
Motor Gasoline 2/	21.56	22.01	22.39	22.75	23.10	23.44	23.78	24.13	24.50	24.92	25.35
Petrochemical Feedstocks	1.40	1.43	1.44	1.45	1.48	1.50	1.52	1.54	1.57	1.58	1.60
Residual Fuel	2.12	2.19	2.20	2.22	2.19	2.29	2.30	2.33	2.29	2.31	2.31
Other Petroleum 12/	4.89	4.99	5.11	5.17	5.21	5.27	5.47	5.51	5.58	5.65	5.73
Petroleum Subtotal	48.26	49.55	50.56	51.56	52.45	53.30	54.31	55.04	55.93	56.83	57.88
Natural Gas	24.57	24.84	25.12	25.24	25.65	26.08	26.37	26.71	27.00	27.17	27.26
Lease and Plant Fuel 6/	1.40	1.41	1.43	1.42	1.44	1.45	1.47	1.52	1.57	1.57	1.58
Pipeline Natural Gas	0.68	0.68	0.69	0.68	0.69	0.69	0.69	0.74	0.77	0.77	0.78
Natural Gas Subtotal	26.65	26.93	27.24	27.35	27.78	28.22	28.52	28.97	29.34	29.51	29.61
Metallurgical Coal	0.62	0.61	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.51
Steam Coal	25.17	25.28	25.39	25.61	25.88	26.17	26.40	26.80	27.25	27.72	28.32
Net Coal Coke Imports	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Subtotal	25.80	25.90	26.00	26.21	26.46	26.73	26.95	27.34	27.78	28.24	28.84
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/	7.63	7.77	7.90	8.01	8.11	8.20	8.30	8.41	8.51	8.60	8.67
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	0.10	0.09	0.09	0.10	0.08	0.08	0.07	0.05	0.06	0.05	0.04
Total	116.82	118.66	120.23	121.70	123.38	125.05	126.68	128.35	130.14	131.76	133.57
Energy Use & Related Statistics											
Delivered Energy Use	85.82	87.26	88.53	89.67	90.96	92.20	93.52	94.78	96.22	97.50	98.91
Total Energy Use	116.82	118.66	120.23	121.70	123.38	125.05	126.68	128.35	130.14	131.76	133.57
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)	12940	13348	13749	14137	14534	14957	15386	15787	16226	16640	17097
Carbon Dioxide Emissions (million metric tons)	6883.7	6991.4	7084.2	7181.1	7273.1	7381.3	7485.4	7592.9	7711.7	7820.7	7952.7

**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	0.88	0.87	0.86	-0.2%
Kerosene	0.10	0.10	0.10	1.7%
Liquefied Petroleum Gas	0.67	0.68	0.69	1.2%
Petroleum Subtotal	1.65	1.65	1.64	0.4%
Natural Gas	6.25	6.30	6.31	1.0%
Coal	0.01	0.01	0.01	-0.3%
Renewable Energy 1/ Electricity	0.41	0.41	0.41	0.1%
Delivered Energy	5.85	5.94	5.99	1.4%
Electricity Related Losses	14.16	14.31	14.37	1.1%
Total	11.81	11.95	12.01	1.0%
Total	25.97	26.26	26.37	1.0%
Commercial				
Distillate Fuel	0.81	0.82	0.83	2.4%
Residual Fuel	0.13	0.13	0.13	2.3%
Kerosene	0.02	0.02	0.02	1.5%
Liquefied Petroleum Gas	0.10	0.10	0.10	0.4%
Motor Gasoline 2/ Petroleum Subtotal	0.05	0.05	0.05	0.2%
Total	1.12	1.13	1.14	2.0%
Natural Gas	4.06	4.11	4.14	1.1%
Coal	0.10	0.10	0.10	0.0%
Renewable Energy 3/ Electricity	0.10	0.10	0.10	0.0%
Delivered Energy	6.65	6.77	6.90	2.3%
Electricity Related Losses	12.03	12.20	12.37	1.8%
Total	13.42	13.61	13.82	1.8%
Total	25.45	25.82	26.19	1.8%
Industrial 4/				
Distillate Fuel	1.44	1.45	1.48	1.1%
Liquefied Petroleum Gas	2.98	3.03	3.09	1.4%
Petrochemical Feedstocks	1.62	1.64	1.66	1.4%
Residual Fuel	0.27	0.27	0.27	1.2%
Motor Gasoline 2/	0.19	0.19	0.19	0.8%
Other Petroleum 5/ Petroleum Subtotal	5.53	5.56	5.61	1.5%
Total	12.03	12.15	12.31	1.4%
Natural Gas	9.99	10.16	10.28	1.4%
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.60	1.62	1.61	0.7%
Total	11.58	11.78	11.89	1.3%
Metallurgical Coal	0.50	0.49	0.48	-1.1%
Steam Coal	1.47	1.47	1.48	0.0%
Net Coal Coke Imports	0.01	0.01	0.01	-4.6%

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

	2023	2024	2025	2002- 2025
Coal Subtotal	1.97	1.97	1.97	-0.3%
Renewable Energy 7/	2.63	2.68	2.73	2.2%
Electricity	4.75	4.83	4.93	1.6%
Delivered Energy	32.96	33.41	33.82	1.3%
Electricity Related Losses	9.58	9.71	9.87	1.2%
Total	42.54	43.12	43.69	1.3%
Transportation				
Distillate Fuel 8/	8.56	8.76	8.98	2.5%
Jet Fuel 9/	4.87	4.92	4.97	1.7%
Motor Gasoline 2/	25.55	26.03	26.54	2.1%
Residual Fuel	0.82	0.82	0.82	0.6%
Liquefied Petroleum Gas	0.09	0.09	0.09	7.0%
Other Petroleum 10/	0.31	0.32	0.32	1.3%
Petroleum Subtotal	40.20	40.94	41.72	2.1%
Pipeline Fuel Natural Gas	0.79	0.80	0.79	0.9%
Compressed Natural Gas	0.10	0.11	0.11	9.2%
Renewable Energy (E85) 11/	0.00	0.00	0.00	7.5%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity	0.12	0.12	0.12	2.1%
Delivered Energy	41.22	41.98	42.75	2.1%
Electricity Related Losses	0.24	0.24	0.25	1.7%
Total	41.46	42.22	43.00	2.1%
Delivered Energy Consumption, All Sectors				
Distillate Fuel	11.69	11.91	12.16	2.0%
Kerosene	0.15	0.15	0.14	2.0%
Jet Fuel 9/	4.87	4.92	4.97	1.7%
Liquefied Petroleum Gas	3.84	3.90	3.97	1.4%
Motor Gasoline 2/	25.79	26.27	26.78	2.0%
Petrochemical Feedstocks	1.62	1.64	1.66	1.4%
Residual Fuel	1.22	1.23	1.22	0.9%
Other Petroleum 12/	5.82	5.85	5.91	1.4%
Petroleum Subtotal	55.01	55.87	56.82	1.9%
Natural Gas	20.40	20.68	20.84	1.2%
Lease and Plant Fuel 6/	1.60	1.62	1.61	0.7%
Pipeline Natural Gas	0.79	0.80	0.79	0.9%
Natural Gas Subtotal	22.78	23.10	23.24	1.2%
Metallurgical Coal	0.50	0.49	0.48	-1.1%
Steam Coal	1.58	1.58	1.59	0.0%
Net Coal Coke Imports	0.01	0.01	0.01	-4.6%
Coal Subtotal	2.08	2.08	2.08	-0.3%
Renewable Energy 13/	3.14	3.19	3.24	1.8%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity	17.36	17.65	17.94	1.8%
Delivered Energy	100.38	101.90	103.31	1.6%

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

	2023	2024	2025	2002- 2025
Electricity Related Losses	35.05	35.51	35.94	1.3%
Total	135.43	137.41	139.26	1.6%
Electric Generators 14/				
Distillate Fuel	2.68	2.66	2.96	13.6%
Residual Fuel	1.05	1.08	1.11	2.1%
Petroleum Subtotal	3.73	3.74	4.07	7.0%
Natural Gas	7.02	7.21	6.94	0.9%
Steam Coal	27.52	28.02	28.61	1.6%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy/Other 15/	5.58	5.63	5.71	1.9%
Electricity Imports	0.03	0.03	0.02	-4.8%
Total	52.41	53.16	53.88	1.5%
Total Energy Consumption				
Distillate Fuel	14.37	14.57	15.12	2.9%
Kerosene	0.15	0.15	0.14	2.0%
Jet Fuel 9/	4.87	4.92	4.97	1.7%
Liquefied Petroleum Gas	3.84	3.90	3.97	1.4%
Motor Gasoline 2/	25.79	26.27	26.78	2.0%
Petrochemical Feedstocks	1.62	1.64	1.66	1.4%
Residual Fuel	2.27	2.31	2.33	1.4%
Other Petroleum 12/	5.82	5.85	5.91	1.4%
Petroleum Subtotal	58.74	59.62	60.88	2.1%
Natural Gas	27.43	27.90	27.79	1.1%
Lease and Plant Fuel 6/	1.60	1.62	1.61	0.7%
Pipeline Natural Gas	0.79	0.80	0.79	0.9%
Natural Gas Subtotal	29.81	30.32	30.19	1.1%
Metallurgical Coal	0.50	0.49	0.48	-1.1%
Steam Coal	29.09	29.60	30.20	1.5%
Net Coal Coke Imports	0.01	0.01	0.01	-4.6%
Coal Subtotal	29.60	30.09	30.68	1.4%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 16/	8.72	8.82	8.95	1.9%
Liquid Hydrogen	0.00	0.00	0.00	N/A
Electricity Imports	0.03	0.03	0.02	-4.8%
Total	135.43	137.41	139.26	1.6%
Energy Use & Related Statistics				
Delivered Energy Use	100.38	101.90	103.31	1.6%
Total Energy Use	135.43	137.41	139.26	1.6%
Population (millions)	342.30	344.90	347.53	0.8%
US GDP (billion 1996 dollars)	17567	18049	18588	3.0%
Carbon Dioxide Emissions (million metric tons)	8087.8	8217.7	8350.9	1.7%

**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 LW2004.D101703B.

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Residential	15.95	14.73	15.55	15.14	14.42	14.10	13.93	13.95	13.91	13.89
Primary Energy 1/	9.85	8.14	9.53	9.22	8.32	8.13	8.05	8.03	7.88	7.80
Petroleum Products 2/	10.95	9.87	11.53	10.83	8.62	8.57	8.57	8.61	8.63	8.63
Distillate Fuel	9.09	8.23	9.11	8.31	6.96	6.82	6.78	6.79	6.78	6.75
Liquefied Petroleum Gas	15.05	12.92	16.49	16.15	12.17	12.22	12.24	12.25	12.25	12.27
Natural Gas	9.53	7.65	8.97	8.76	8.25	8.01	7.91	7.88	7.67	7.57
Electricity	25.51	24.73	24.82	24.35	23.89	23.38	23.02	23.02	23.08	23.10
Commercial	15.67	14.68	14.96	14.48	13.79	13.41	13.18	13.25	13.31	13.35
Primary Energy 1/	8.07	6.35	7.79	7.28	6.54	6.36	6.31	6.32	6.19	6.14
Petroleum Products 2/	7.25	6.88	7.62	7.01	5.35	5.20	5.18	5.18	5.15	5.13
Distillate Fuel	6.38	6.07	6.71	6.12	4.55	4.42	4.38	4.39	4.38	4.36
Residual Fuel	3.51	4.21	4.97	4.13	3.05	3.05	3.04	3.04	3.04	3.04
Natural Gas	8.44	6.37	8.02	7.52	7.02	6.82	6.76	6.77	6.60	6.54
Electricity	23.43	22.82	22.23	21.47	20.79	20.14	19.69	19.72	19.89	19.96
Industrial 3/	7.24	6.31	7.26	6.67	5.83	5.72	5.75	5.82	5.81	5.80
Primary Energy	5.87	4.77	6.06	5.40	4.46	4.38	4.43	4.49	4.44	4.43
Petroleum Products 2/	7.73	6.35	7.50	7.10	5.41	5.34	5.39	5.39	5.40	5.39
Distillate Fuel	6.62	6.21	6.87	6.27	4.71	4.59	4.56	4.57	4.57	4.55
Liquefied Petroleum Gas	12.48	8.28	10.56	10.33	7.86	7.80	7.86	7.90	7.86	7.82
Residual Fuel	3.31	3.89	4.60	3.82	2.67	2.67	2.66	2.66	2.66	2.66
Natural Gas 4/	4.91	3.75	5.54	4.45	4.03	3.92	3.97	4.09	3.98	3.97
Metallurgical Coal	1.71	1.87	2.03	2.01	1.98	1.96	1.95	1.95	1.94	1.94
Steam Coal	1.51	1.52	1.62	1.60	1.57	1.57	1.56	1.57	1.56	1.56
Electricity	15.11	14.74	13.92	13.61	13.35	13.05	12.91	13.05	13.15	13.13
Transportation	10.58	9.91	11.12	10.17	9.27	9.24	9.33	9.28	9.25	9.21
Primary Energy	10.55	9.88	11.09	10.14	9.24	9.22	9.31	9.25	9.22	9.18
Petroleum Products 2/	10.55	9.88	11.09	10.14	9.24	9.22	9.31	9.25	9.22	9.18
Distillate Fuel 5/	10.16	9.41	10.41	9.50	8.51	8.86	9.03	9.12	9.02	8.99
Jet Fuel 6/	6.27	5.97	6.72	6.33	4.90	4.69	4.56	4.60	4.60	4.59
Motor Gasoline 7/	11.99	11.15	12.54	11.42	10.65	10.54	10.65	10.53	10.51	10.45
Residual Fuel	3.94	3.77	4.45	3.70	2.48	2.47	2.47	2.47	2.47	2.46
Liquefied Petroleum Gas8/	17.12	15.00	16.47	16.46	13.38	13.48	13.48	13.46	13.42	13.39
Natural Gas 9/	8.69	7.38	9.37	8.19	7.76	7.76	7.90	8.06	8.04	8.10
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	15.36	15.30	15.51	15.53	15.46	15.48
Electricity	21.58	21.10	21.30	20.65	19.98	19.36	19.02	19.11	19.25	19.33
Average End-Use Energy	10.95	10.10	11.08	10.39	9.54	9.41	9.40	9.42	9.41	9.40
Primary Energy	8.69	7.70	8.99	8.26	7.36	7.30	7.36	7.37	7.32	7.29
Electricity	21.79	21.20	20.85	20.31	19.80	19.30	18.97	19.03	19.15	19.17
Electric Generators 11/										
Fossil Fuel Average	2.27	1.89	2.21	2.00	1.86	1.83	1.82	1.87	1.83	1.85

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Petroleum Products	5.00	4.32	4.90	4.51	3.22	3.20	3.22	3.26	3.24	3.25
Distillate Fuel	6.24	5.58	6.17	5.62	4.02	3.87	3.87	3.85	3.81	3.79
Residual Fuel	4.55	4.04	4.65	4.01	2.87	2.86	2.86	2.86	2.86	2.86
Natural Gas	5.30	3.77	5.55	4.45	4.01	3.90	3.93	4.05	3.93	3.91
Steam Coal	1.25	1.26	1.24	1.23	1.23	1.22	1.22	1.22	1.21	1.21
Average Price to All Users 12/										
Petroleum Products 2/	9.74	8.94	10.12	9.40	8.17	8.15	8.22	8.18	8.18	8.15
Distillate Fuel	9.14	8.52	9.39	8.60	7.38	7.55	7.64	7.67	7.62	7.59
Jet Fuel	6.27	5.97	6.72	6.33	4.90	4.69	4.56	4.60	4.60	4.59
Liquefied Petroleum Gas	13.00	9.27	11.82	11.57	8.80	8.78	8.83	8.87	8.85	8.82
Motor Gasoline 7/	11.99	11.15	12.53	11.42	10.65	10.54	10.65	10.53	10.51	10.45
Residual Fuel	4.16	3.92	4.59	3.83	2.70	2.69	2.69	2.69	2.69	2.69
Natural Gas	6.63	5.07	6.78	5.93	5.51	5.35	5.35	5.40	5.27	5.21
Coal	1.27	1.28	1.27	1.26	1.26	1.25	1.24	1.24	1.24	1.23
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	15.36	15.30	15.51	15.53	15.46	15.48
Electricity	21.79	21.20	20.85	20.31	19.80	19.30	18.97	19.03	19.15	19.17
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)										
Residential	168.08	160.37	172.71	172.10	165.93	165.02	165.34	167.85	168.79	170.53
Commercial	129.31	119.67	124.70	122.09	120.03	119.87	120.73	123.76	126.95	130.07
Industrial	138.60	120.96	137.18	128.30	115.96	115.13	116.84	119.55	120.09	121.63
Transportation	275.57	259.11	294.75	278.80	263.86	271.02	280.08	285.02	290.62	296.17
Total Non-Renewable Expenditures	711.55	660.11	729.34	701.29	665.78	671.04	682.99	696.19	706.45	718.40
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03
Total Expenditures	711.56	660.12	729.36	701.31	665.79	671.06	683.01	696.22	706.47	718.43

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

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Residential	13.94	14.05	14.10	14.21	14.27	14.32	14.36	14.42	14.47	14.43
Primary Energy 1/	7.88	7.96	8.03	8.09	8.10	8.17	8.17	8.18	8.19	8.10
Petroleum Products 2/	8.66	8.69	8.74	8.79	8.85	8.95	9.01	9.04	9.09	9.13
Distillate Fuel	6.76	6.77	6.80	6.81	6.87	6.96	6.99	7.00	7.02	7.08
Liquefied Petroleum Gas	12.28	12.30	12.33	12.36	12.38	12.43	12.44	12.45	12.45	12.42
Natural Gas	7.66	7.76	7.84	7.90	7.90	7.96	7.95	7.95	7.96	7.84
Electricity	23.01	23.10	23.01	23.11	23.13	23.12	23.14	23.20	23.24	23.20
Commercial	13.42	13.58	13.55	13.73	13.84	13.93	14.02	14.11	14.18	14.17
Primary Energy 1/	6.22	6.30	6.37	6.43	6.45	6.53	6.52	6.54	6.55	6.48
Petroleum Products 2/	5.14	5.12	5.14	5.14	5.17	5.24	5.25	5.27	5.27	5.30
Distillate Fuel	4.38	4.38	4.41	4.42	4.46	4.56	4.59	4.62	4.63	4.68
Residual Fuel	3.04	3.05	3.05	3.05	3.04	3.04	3.04	3.04	3.04	3.04
Natural Gas	6.65	6.75	6.84	6.91	6.93	7.01	7.00	7.02	7.03	6.92
Electricity	19.94	20.06	19.85	20.05	20.15	20.23	20.30	20.38	20.44	20.43
Industrial 3/	5.85	5.91	5.93	5.99	6.04	6.13	6.17	6.19	6.24	6.22
Primary Energy	4.49	4.55	4.59	4.63	4.67	4.75	4.77	4.79	4.83	4.80
Petroleum Products 2/	5.42	5.43	5.44	5.44	5.46	5.54	5.58	5.58	5.61	5.60
Distillate Fuel	4.59	4.58	4.61	4.64	4.67	4.77	4.80	4.85	4.85	4.91
Liquefied Petroleum Gas	7.87	7.92	7.93	7.91	7.93	8.00	8.00	8.00	8.03	8.02
Residual Fuel	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.65
Natural Gas 4/	4.09	4.20	4.28	4.36	4.41	4.51	4.51	4.52	4.58	4.51
Metallurgical Coal	1.93	1.91	1.90	1.90	1.89	1.88	1.87	1.87	1.86	1.83
Steam Coal	1.56	1.54	1.54	1.53	1.52	1.52	1.51	1.51	1.50	1.51
Electricity	13.03	13.10	12.96	13.10	13.19	13.26	13.35	13.39	13.47	13.46
Transportation	9.23	9.19	9.14	9.09	9.09	9.11	9.08	9.06	9.02	8.98
Primary Energy	9.20	9.16	9.11	9.06	9.06	9.08	9.05	9.03	8.99	8.95
Petroleum Products 2/	9.20	9.16	9.11	9.06	9.06	9.08	9.05	9.03	8.99	8.95
Distillate Fuel 5/	9.06	9.03	8.96	8.92	8.88	8.94	8.87	8.78	8.73	8.70
Jet Fuel 6/	4.65	4.62	4.61	4.59	4.59	4.66	4.67	4.67	4.65	4.69
Motor Gasoline 7/	10.44	10.39	10.34	10.28	10.28	10.26	10.25	10.25	10.19	10.13
Residual Fuel	2.46	2.46	2.46	2.46	2.45	2.45	2.45	2.45	2.45	2.45
Liquefied Petroleum Gas8/	13.37	13.36	13.38	13.39	13.38	13.39	13.36	13.34	13.30	13.17
Natural Gas 9/	8.24	8.36	8.47	8.54	8.56	8.64	8.65	8.65	8.65	8.54
Ethanol (E85) 10/	15.64	15.76	15.79	15.83	15.86	15.90	15.93	16.01	16.70	16.35
Electricity	19.34	19.48	19.49	19.60	19.60	19.60	19.62	19.61	19.58	19.48
Average End-Use Energy	9.44	9.48	9.46	9.50	9.54	9.59	9.60	9.61	9.63	9.60
Primary Energy	7.35	7.37	7.38	7.38	7.40	7.45	7.45	7.45	7.44	7.40
Electricity	19.11	19.21	19.05	19.21	19.27	19.32	19.36	19.42	19.48	19.47
Electric Generators 11/										
Fossil Fuel Average	1.88	1.92	1.96	1.99	2.02	2.01	2.05	2.07	2.08	2.07

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

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Petroleum Products	3.30	3.36	3.43	3.49	3.55	3.67	3.65	3.70	3.70	3.77
Distillate Fuel	3.81	3.82	3.87	3.90	3.95	4.06	4.08	4.13	4.13	4.19
Residual Fuel	2.85	2.85	2.86	2.85	2.85	2.85	2.85	2.86	2.86	2.86
Natural Gas	4.02	4.14	4.24	4.32	4.46	4.28	4.45	4.45	4.51	4.42
Steam Coal	1.21	1.20	1.20	1.19	1.18	1.18	1.17	1.17	1.17	1.17
Average Price to All Users 12/										
Petroleum Products 2/	8.16	8.11	8.06	8.01	8.01	8.03	8.02	8.00	7.98	7.95
Distillate Fuel	7.59	7.50	7.39	7.33	7.26	7.29	7.28	7.22	7.20	7.18
Jet Fuel	4.65	4.62	4.61	4.59	4.59	4.66	4.67	4.67	4.65	4.69
Liquefied Petroleum Gas	8.86	8.90	8.91	8.90	8.93	8.99	8.98	8.98	9.00	8.98
Motor Gasoline 7/	10.44	10.39	10.34	10.28	10.28	10.26	10.25	10.25	10.19	10.13
Residual Fuel	2.69	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.71	2.70
Natural Gas	5.31	5.42	5.50	5.56	5.62	5.64	5.66	5.66	5.70	5.61
Coal	1.23	1.22	1.22	1.21	1.20	1.20	1.19	1.19	1.19	1.19
Ethanol (E85) 10/	15.64	15.76	15.79	15.83	15.86	15.90	15.93	16.01	16.70	16.35
Electricity	19.11	19.21	19.05	19.21	19.27	19.32	19.36	19.42	19.48	19.47
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)										
Residential	172.77	176.21	177.82	180.72	182.89	185.84	187.39	189.81	192.05	193.91
Commercial	133.29	137.10	139.08	143.17	146.34	149.63	152.73	156.03	159.28	161.82
Industrial	124.20	127.03	129.41	132.17	134.92	138.61	141.60	144.22	147.08	148.67
Transportation	303.17	308.34	313.37	317.48	322.69	328.41	332.93	337.48	340.87	344.91
Total Non-Renewable Expenditures	733.42	748.68	759.68	773.55	786.84	802.49	814.65	827.55	839.28	849.31
Transportation Renewable Expenditures	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05
Total Expenditures	733.45	748.71	759.72	773.58	786.88	802.53	814.70	827.59	839.33	849.36

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

	2021	2022	2023	2024	2025	2002- 2025
Residential	14.43	14.54	14.50	14.65	14.84	0.0%
Primary Energy 1/	8.12	8.14	8.16	8.26	8.40	0.1%
Petroleum Products 2/	9.11	9.17	9.16	9.19	9.31	-0.3%
Distillate Fuel	7.00	7.08	7.00	7.01	7.13	-0.6%
Liquefied Petroleum Gas	12.43	12.38	12.42	12.41	12.44	-0.2%
Natural Gas	7.86	7.88	7.91	8.03	8.17	0.3%
Electricity	23.13	23.28	23.07	23.21	23.40	-0.2%
Commercial	14.16	14.31	14.21	14.37	14.57	0.0%
Primary Energy 1/	6.48	6.51	6.52	6.61	6.74	0.3%
Petroleum Products 2/	5.21	5.25	5.20	5.20	5.28	-1.1%
Distillate Fuel	4.57	4.64	4.57	4.59	4.70	-1.1%
Residual Fuel	3.04	3.04	3.03	3.03	3.03	-1.4%
Natural Gas	6.95	6.97	7.00	7.12	7.27	0.6%
Electricity	20.36	20.55	20.33	20.49	20.68	-0.4%
Industrial 3/	6.19	6.23	6.20	6.26	6.39	0.1%
Primary Energy	4.78	4.80	4.79	4.84	4.95	0.2%
Petroleum Products 2/	5.51	5.54	5.50	5.50	5.58	-0.6%
Distillate Fuel	4.77	4.84	4.79	4.80	4.91	-1.0%
Liquefied Petroleum Gas	7.96	8.01	8.00	7.94	8.03	-0.1%
Residual Fuel	2.65	2.65	2.65	2.65	2.65	-1.7%
Natural Gas 4/	4.56	4.55	4.57	4.68	4.86	1.1%
Metallurgical Coal	1.81	1.80	1.78	1.77	1.76	-0.3%
Steam Coal	1.51	1.51	1.50	1.50	1.50	-0.1%
Electricity	13.37	13.50	13.31	13.43	13.57	-0.4%
Transportation	8.89	8.90	8.88	8.86	8.85	-0.5%
Primary Energy	8.85	8.87	8.85	8.83	8.82	-0.5%
Petroleum Products 2/	8.85	8.87	8.85	8.83	8.82	-0.5%
Distillate Fuel 5/	8.48	8.60	8.56	8.49	8.46	-0.5%
Jet Fuel 6/	4.56	4.64	4.59	4.60	4.65	-1.1%
Motor Gasoline 7/	10.08	10.04	10.02	10.00	9.98	-0.5%
Residual Fuel	2.44	2.44	2.44	2.44	2.44	-1.9%
Liquefied Petroleum Gas8/	13.15	13.10	13.11	13.06	13.08	-0.6%
Natural Gas 9/	8.55	8.55	8.58	8.67	8.76	0.8%
Ethanol (E85) 10/	16.38	16.42	16.46	16.52	16.57	0.4%
Electricity	19.36	19.45	19.22	19.29	19.39	-0.4%
Average End-Use Energy	9.55	9.60	9.55	9.60	9.68	-0.2%
Primary Energy	7.35	7.37	7.36	7.39	7.45	-0.1%
Electricity	19.39	19.54	19.32	19.47	19.63	-0.3%
Electric Generators 11/						
Fossil Fuel Average	2.06	2.06	2.04	2.06	2.09	0.4%

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

	2021	2022	2023	2024	2025	2002- 2025
Petroleum Products	3.72	3.80	3.77	3.77	3.87	-0.5%
Distillate Fuel	4.11	4.18	4.12	4.14	4.25	-1.2%
Residual Fuel	2.86	2.86	2.86	2.86	2.86	-1.5%
Natural Gas	4.46	4.45	4.47	4.59	4.74	1.0%
Steam Coal	1.18	1.18	1.18	1.18	1.19	-0.2%
Average Price to All Users 12/						
Petroleum Products 2/	7.86	7.88	7.86	7.85	7.86	-0.6%
Distillate Fuel	7.00	7.07	7.03	7.02	7.00	-0.8%
Jet Fuel	4.56	4.64	4.59	4.60	4.65	-1.1%
Liquefied Petroleum Gas	8.93	8.96	8.95	8.90	8.97	-0.1%
Motor Gasoline 7/	10.08	10.04	10.02	10.00	9.98	-0.5%
Residual Fuel	2.70	2.70	2.69	2.69	2.70	-1.6%
Natural Gas	5.65	5.66	5.68	5.79	5.96	0.7%
Coal	1.19	1.20	1.20	1.20	1.20	-0.2%
Ethanol (E85) 10/	16.38	16.42	16.46	16.52	16.57	0.4%
Electricity	19.39	19.54	19.32	19.47	19.63	-0.3%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)						
Residential	195.24	198.37	199.47	203.66	207.13	1.1%
Commercial	164.30	168.30	169.60	173.95	178.82	1.8%
Industrial	149.93	153.26	154.75	158.79	164.53	1.3%
Transportation	346.99	353.57	358.97	364.62	371.41	1.6%
Total Non-Renewable Expenditures	856.45	873.50	882.79	901.02	921.89	1.5%
Transportation Renewable Expenditures	0.05	0.05	0.06	0.06	0.06	7.9%
Total Expenditures	856.50	873.56	882.84	901.08	921.95	1.5%

Table 3. Energy Prices by Sector and Sources
(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 actually varies seasonally. The annual average ethanol content of 74 percent ethanol was used for this forecast.

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

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

Btu = British thermal unit.

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

Sources: 2001 and 2002 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2002, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory 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 LW2004.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 LW2004.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	76.83	77.84	78.85	79.90	80.94	81.94	82.94	83.95
Multifamily	28.96	29.20	29.41	29.59	29.76	29.92	30.11	30.31	30.52	30.73	30.95
Mobile Homes	6.37	6.31	6.23	6.15	6.09	6.06	6.07	6.11	6.18	6.26	6.33
Total	109.06	110.28	111.47	112.57	113.68	114.84	116.09	117.36	118.64	119.93	121.23
Average House Square Footage											
	1684	1689	1695	1700	1706	1712	1717	1722	1727	1731	1736
Energy Intensity (million Btu per household)											
Delivered Energy Consumption	100.0	102.3	103.3	104.6	104.8	105.4	105.7	106.0	105.7	105.7	105.6
Total Energy Consumption	185.0	189.4	190.3	191.5	192.3	193.4	194.3	194.8	193.9	193.8	193.7
(thousand Btu per square foot)											
Delivered Energy Consumption	59.4	60.6	61.0	61.5	61.4	61.6	61.6	61.5	61.2	61.1	60.8
Total Energy Consumption	109.9	112.1	112.3	112.6	112.7	113.0	113.1	113.1	112.3	111.9	111.6
Delivered Energy Consumption by Fuel											
Electricity											
Space Heating	0.38	0.40	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.43	0.43
Space Cooling	0.63	0.71	0.65	0.66	0.67	0.67	0.68	0.69	0.69	0.70	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	0.26
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	0.80	0.81	0.83	0.85	0.86	0.87	0.88
Clothes Washers 1/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04
Dishwashers 1/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03
Color Televisions	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.18	0.19	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	1.05	1.09	1.13	1.17	1.21	1.25	1.29
Delivered Energy	4.10	4.33	4.37	4.45	4.51	4.58	4.66	4.75	4.81	4.89	4.96
Natural Gas											
Space Heating	3.39	3.54	3.69	3.75	3.77	3.84	3.89	3.94	3.98	4.02	4.06
Space Cooling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Heating	1.16	1.15	1.15	1.19	1.20	1.22	1.23	1.24	1.24	1.25	1.26
Cooking	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23
Clothes Dryers	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09
Other Uses 3/	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11
Delivered Energy	4.92	5.06	5.21	5.33	5.37	5.46	5.53	5.60	5.64	5.71	5.76

**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	0.84	0.86	0.86	0.86	0.85	0.85	0.84
Water Heating	0.13	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.12	0.12
Other Uses 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delivered Energy	0.90	0.89	0.92	0.95	0.97	0.99	0.99	0.98	0.98	0.97	0.96
Liquefied Petroleum Gas											
Space Heating	0.29	0.30	0.29	0.29	0.30	0.31	0.31	0.31	0.31	0.32	0.32
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	0.16	0.17	0.17	0.18	0.18	0.19	0.19
Delivered Energy	0.50	0.53	0.50	0.51	0.53	0.55	0.56	0.57	0.57	0.58	0.59
Marketed Renewables (wood) 5/	0.36	0.39	0.41	0.41	0.40	0.40	0.40	0.41	0.40	0.40	0.40
Other Fuels 6/	0.12	0.08	0.10	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Delivered Energy Consumption by End-Use											
Space Heating	5.31	5.48	5.70	5.80	5.86	5.95	6.01	6.07	6.10	6.15	6.18
Space Cooling	0.63	0.71	0.65	0.66	0.67	0.67	0.68	0.69	0.69	0.70	0.70
Water Heating	1.71	1.69	1.68	1.74	1.74	1.77	1.77	1.79	1.79	1.80	1.81
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	0.38
Clothes Dryers	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.34	0.35
Freezers	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Lighting	0.72	0.75	0.76	0.78	0.80	0.81	0.83	0.85	0.86	0.87	0.88
Clothes Washers	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04
Dishwashers	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03
Color Televisions	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.18	0.19	0.19
Personal Computers	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08
Furnace Fans	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09
Other Uses 7/	1.02	1.13	1.21	1.26	1.30	1.35	1.40	1.46	1.50	1.55	1.59
Delivered Energy	10.91	11.28	11.52	11.77	11.91	12.11	12.27	12.44	12.54	12.68	12.80
Electricity Related Losses	9.28	9.60	9.69	9.78	9.95	10.11	10.28	10.43	10.47	10.56	10.68
Total Energy Consumption by End-Use											
Space Heating	6.16	6.36	6.61	6.70	6.77	6.86	6.93	7.00	7.02	7.07	7.11
Space Cooling	2.05	2.29	2.07	2.10	2.14	2.16	2.18	2.20	2.20	2.20	2.22
Water Heating	2.57	2.51	2.50	2.55	2.56	2.59	2.59	2.61	2.60	2.60	2.60
Refrigeration	1.41	1.37	1.33	1.30	1.27	1.25	1.23	1.21	1.18	1.16	1.15
Cooking	0.57	0.57	0.57	0.58	0.59	0.59	0.60	0.60	0.61	0.61	0.62
Clothes Dryers	0.83	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.89	0.89	0.90
Freezers	0.45	0.43	0.42	0.41	0.40	0.39	0.38	0.38	0.37	0.37	0.37
Lighting	2.34	2.41	2.45	2.50	2.55	2.60	2.66	2.70	2.72	2.75	2.78
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	0.50	0.52	0.54	0.56	0.59	0.61
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	0.27	0.27	0.28	0.28	0.28	0.29
Other Uses 7/	2.79	3.09	3.36	3.49	3.61	3.75	3.89	4.03	4.13	4.26	4.37
Total	20.18	20.88	21.21	21.56	21.86	22.21	22.55	22.87	23.01	23.24	23.48
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	84.93	85.89	86.85	87.78	88.70	89.61	90.48	91.35	92.23	93.09	93.96
Multifamily	31.17	31.39	31.62	31.85	32.08	32.32	32.56	32.81	33.06	33.32	33.58
Mobile Homes	6.40	6.47	6.53	6.59	6.65	6.70	6.76	6.81	6.87	6.92	6.97
Total	122.50	123.76	125.01	126.22	127.43	128.62	129.80	130.97	132.15	133.33	134.50
Average House Square Footage											
	1740	1744	1749	1753	1757	1761	1764	1768	1772	1775	1779
Energy Intensity (million Btu per household)											
Delivered Energy Consumption	105.7	105.2	105.0	104.8	105.0	104.6	104.5	104.4	104.7	104.5	104.4
Total Energy Consumption	194.1	193.3	192.8	192.4	192.8	192.2	191.8	191.8	192.1	191.6	191.5
(thousand Btu per square foot)											
Delivered Energy Consumption	60.7	60.3	60.0	59.8	59.8	59.4	59.2	59.1	59.1	58.9	58.7
Total Energy Consumption	111.5	110.8	110.2	109.8	109.7	109.1	108.7	108.5	108.4	107.9	107.7
Delivered Energy Consumption by Fuel											
Electricity											
Space Heating	0.43	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45
Space Cooling	0.71	0.72	0.72	0.73	0.74	0.74	0.75	0.76	0.77	0.77	0.78
Water Heating	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36
Refrigeration	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Cooking	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Clothes Dryers	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	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	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00
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	0.24	0.24	0.25	0.26	0.26	0.26
Personal Computers	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12
Furnace Fans	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11
Other Uses 2/	1.33	1.37	1.41	1.45	1.49	1.52	1.56	1.59	1.64	1.67	1.71
Delivered Energy	5.05	5.11	5.18	5.26	5.34	5.40	5.47	5.54	5.63	5.69	5.77
Natural Gas											
Space Heating	4.10	4.11	4.14	4.16	4.22	4.25	4.28	4.31	4.36	4.39	4.43
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	1.26	1.26	1.26	1.27	1.27	1.27	1.27	1.28	1.28	1.29
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	0.11	0.11	0.11	0.11
Other Uses 3/	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Delivered Energy	5.81	5.82	5.85	5.88	5.96	5.98	6.02	6.06	6.13	6.17	6.21

**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	0.84	0.83	0.83	0.82	0.82	0.81	0.80	0.79	0.79	0.78	0.78
Water Heating	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	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	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88
Liquefied Petroleum Gas											
Space Heating	0.32	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.34
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/	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25
Delivered Energy	0.60	0.60	0.61	0.62	0.62	0.63	0.64	0.64	0.65	0.66	0.67
Marketed Renewables (wood) 5/	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Other Fuels 6/	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12
Delivered Energy Consumption by End-Use											
Space Heating	6.23	6.23	6.26	6.28	6.34	6.36	6.38	6.41	6.47	6.49	6.52
Space Cooling	0.71	0.72	0.72	0.73	0.74	0.74	0.75	0.76	0.77	0.77	0.78
Water Heating	1.81	1.80	1.80	1.80	1.81	1.80	1.80	1.80	1.81	1.80	1.80
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	0.42
Clothes Dryers	0.35	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.38	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	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00
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	0.24	0.24	0.25	0.26	0.26	0.26
Personal Computers	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12
Furnace Fans	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11
Other Uses 7/	1.64	1.68	1.73	1.77	1.82	1.86	1.90	1.94	1.99	2.04	2.08
Delivered Energy	12.95	13.02	13.12	13.23	13.38	13.46	13.57	13.68	13.84	13.93	14.05
Electricity Related Losses	10.83	10.90	10.98	11.06	11.19	11.26	11.32	11.44	11.55	11.61	11.71
Total Energy Consumption by End-Use											
Space Heating	7.16	7.16	7.19	7.21	7.27	7.29	7.31	7.34	7.39	7.41	7.44
Space Cooling	2.24	2.24	2.25	2.26	2.28	2.29	2.31	2.32	2.34	2.35	2.37
Water Heating	2.61	2.59	2.59	2.58	2.58	2.57	2.56	2.55	2.55	2.54	2.53
Refrigeration	1.14	1.13	1.11	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.10
Cooking	0.62	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.66	0.66	0.67
Clothes Dryers	0.90	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.92	0.92	0.93
Freezers	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.37
Lighting	2.82	2.84	2.86	2.88	2.91	2.92	2.94	2.96	2.99	3.00	3.03
Clothes Washers	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.18
Dishwashers	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Color Televisions	0.63	0.65	0.67	0.69	0.71	0.73	0.75	0.77	0.79	0.79	0.80
Personal Computers	0.28	0.29	0.30	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37
Furnace Fans	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.33
Other Uses 7/	4.50	4.60	4.71	4.82	4.94	5.03	5.12	5.23	5.35	5.45	5.56
Total	23.78	23.92	24.10	24.29	24.57	24.72	24.89	25.12	25.39	25.54	25.76
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	0.04	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	94.82	95.67	96.50	1.1%
Multifamily	33.83	34.09	34.34	0.7%
Mobile Homes	7.02	7.06	7.10	0.5%
Total	135.67	136.81	137.94	1.0%
Average House Square Footage	1782	1786	1789	0.3%
Energy Intensity (million Btu per household)				
Delivered Energy Consumption	104.4	104.6	104.1	0.1%
Total Energy Consumption	191.4	191.9	191.2	0.0%
(thousand Btu per square foot)				
Delivered Energy Consumption	58.6	58.6	58.2	-0.2%
Total Energy Consumption	107.4	107.5	106.9	-0.2%
Delivered Energy Consumption by Fuel				
Electricity				
Space Heating	0.46	0.46	0.46	0.6%
Space Cooling	0.79	0.80	0.81	0.5%
Water Heating	0.36	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	0.28	0.28	0.7%
Freezers	0.12	0.12	0.12	-0.4%
Lighting	1.01	1.02	1.03	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/	1.76	1.80	1.84	3.2%
Delivered Energy	5.85	5.94	5.99	1.4%
Natural Gas				
Space Heating	4.46	4.50	4.52	1.1%
Space Cooling	0.00	0.00	0.00	14.2%
Water Heating	1.29	1.29	1.29	0.5%
Cooking	0.26	0.27	0.27	1.0%
Clothes Dryers	0.11	0.11	0.12	2.3%
Other Uses 3/	0.12	0.12	0.12	1.1%
Delivered Energy	6.25	6.30	6.31	1.0%

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

	2023	2024	2025	2002- 2025
Distillate				
Space Heating	0.77	0.77	0.76	-0.1%
Water Heating	0.10	0.10	0.10	-0.8%
Other Uses 4/ Delivered Energy	0.00 0.88	0.00 0.87	0.00 0.86	N/A -0.2%
Liquefied Petroleum Gas				
Space Heating	0.34	0.34	0.34	0.5%
Water Heating	0.05	0.05	0.05	0.3%
Cooking	0.03	0.03	0.03	0.5%
Other Uses 3/ Delivered Energy	0.25 0.67	0.26 0.68	0.26 0.69	2.5% 1.2%
Marketed Renewables (wood) 5/ Other Fuels 6/	0.41 0.11	0.41 0.11	0.41 0.11	0.1% 1.4%
Delivered Energy Consumption by End-Use				
Space Heating	6.54	6.59	6.59	0.8%
Space Cooling	0.79	0.80	0.81	0.5%
Water Heating	1.80	1.80	1.79	0.3%
Refrigeration	0.36	0.37	0.37	-0.6%
Cooking	0.42	0.42	0.42	1.0%
Clothes Dryers	0.38	0.39	0.39	1.1%
Freezers	0.12	0.12	0.12	-0.4%
Lighting	1.01	1.02	1.03	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	2.13 14.16	2.19 14.31	2.23 14.37	3.0% 1.1%
Electricity Related Losses	11.81	11.95	12.01	1.0%
Total Energy Consumption by End-Use				
Space Heating	7.46	7.51	7.50	0.7%
Space Cooling	2.39	2.41	2.42	0.2%
Water Heating	2.52	2.51	2.49	0.0%
Refrigeration	1.10	1.11	1.11	-0.9%
Cooking	0.67	0.68	0.68	0.8%
Clothes Dryers	0.93	0.94	0.95	0.6%
Freezers	0.37	0.37	0.37	-0.7%
Lighting	3.05	3.08	3.09	1.1%
Clothes Washers	0.19	0.19	0.19	2.7%
Dishwashers	0.09	0.10	0.10	1.0%

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

	2023	2024	2025	2002- 2025
Color Televisions	0.81	0.82	0.82	3.2%
Personal Computers	0.38	0.40	0.41	3.0%
Furnace Fans	0.33	0.33	0.34	1.4%
Other Uses 7/	5.68	5.81	5.91	2.9%
Total	25.97	26.26	26.37	1.0%
Non-Marketed Renewables				
Geothermal 8/	0.01	0.01	0.01	8.9%
Solar 9/	0.04	0.04	0.04	2.3%
Total	0.05	0.05	0.05	3.1%

**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 LW2004.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	77.6	78.8	80.0	81.3	82.6
New Additions	3.1	3.2	3.4	3.2	3.0	2.7	2.6	2.6	2.7	2.7	2.8
Total	70.2	72.1	74.1	76.0	77.6	79.0	80.2	81.4	82.7	84.0	85.4
Energy Consumption Intensity (thousand Btu per square foot)											
Delivered Energy Consumption	118.8	114.5	113.8	112.2	113.4	114.5	115.4	115.9	116.5	117.1	117.5
Electricity Related Losses	131.5	126.9	123.7	123.9	126.0	127.7	129.3	130.2	130.3	130.7	131.5
Total Energy Consumption	250.3	241.4	237.5	236.1	239.4	242.2	244.7	246.1	246.8	247.8	249.0
Delivered Energy Consumption by Fuel											
Purchased Electricity											
Space Heating 1/	0.14	0.15	0.16	0.15	0.16	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	0.45	0.45	0.46
Water Heating 1/	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15
Ventilation	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18
Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Lighting	1.10	1.12	1.14	1.17	1.20	1.23	1.26	1.28	1.30	1.32	1.34
Refrigeration	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.23
Office Equipment (PC)	0.14	0.14	0.15	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25
Office Equipment (non-PC)	0.30	0.31	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.47	0.49
Other Uses 2/	1.45	1.41	1.41	1.47	1.54	1.60	1.67	1.73	1.79	1.86	1.93
Delivered Energy	4.09	4.12	4.14	4.28	4.43	4.57	4.70	4.83	4.96	5.08	5.21
Natural Gas											
Space Heating 1/	1.33	1.42	1.49	1.47	1.49	1.51	1.53	1.54	1.55	1.56	1.57
Space Cooling 1/	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02
Water Heating 1/	0.57	0.59	0.59	0.61	0.62	0.64	0.65	0.67	0.68	0.69	0.70
Cooking	0.25	0.26	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.31	0.31
Other Uses 3/	1.17	0.93	0.89	0.84	0.87	0.91	0.93	0.95	0.97	1.00	1.02
Delivered Energy	3.33	3.21	3.26	3.20	3.27	3.36	3.42	3.46	3.52	3.58	3.62
Distillate											
Space Heating 1/	0.17	0.17	0.20	0.20	0.22	0.23	0.25	0.26	0.27	0.27	0.28
Water Heating 1/	0.07	0.07	0.07	0.07	0.08	0.09	0.09	0.09	0.09	0.10	0.10
Other Uses 4/	0.25	0.24	0.30	0.29	0.30	0.30	0.31	0.31	0.31	0.31	0.31
Delivered Energy	0.49	0.49	0.57	0.56	0.59	0.62	0.64	0.66	0.67	0.68	0.69
Other Fuels 5/	0.35	0.33	0.37	0.39	0.41	0.39	0.39	0.39	0.39	0.40	0.40

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Marketed Renewable Fuels											
Biomass	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Delivered Energy	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Delivered Energy Consumption by End-Use											
Space Heating 1/	1.64	1.74	1.84	1.82	1.86	1.90	1.93	1.95	1.97	2.00	2.01
Space Cooling 1/	0.43	0.48	0.43	0.43	0.44	0.45	0.46	0.46	0.47	0.47	0.48
Water Heating 1/	0.78	0.80	0.81	0.82	0.85	0.87	0.89	0.91	0.92	0.94	0.95
Ventilation	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18
Cooking	0.29	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.34	0.34
Lighting	1.10	1.12	1.14	1.17	1.20	1.23	1.26	1.28	1.30	1.32	1.34
Refrigeration	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.23
Office Equipment (PC)	0.14	0.14	0.15	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25
Office Equipment (non-PC)	0.30	0.31	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.47	0.49
Other Uses 6/	3.31	3.01	3.08	3.09	3.22	3.30	3.40	3.48	3.57	3.67	3.76
Delivered Energy	8.34	8.25	8.44	8.53	8.80	9.04	9.26	9.44	9.63	9.84	10.03
Electricity Related Losses	9.24	9.15	9.17	9.42	9.78	10.08	10.37	10.60	10.78	10.98	11.22
Total Energy Consumption by End-Use											
Space Heating 1/	1.97	2.07	2.19	2.16	2.20	2.25	2.28	2.30	2.32	2.34	2.36
Space Cooling 1/	1.36	1.51	1.36	1.36	1.39	1.41	1.43	1.44	1.44	1.45	1.46
Water Heating 1/	1.10	1.11	1.12	1.14	1.17	1.19	1.22	1.23	1.25	1.26	1.28
Ventilation	0.53	0.52	0.53	0.53	0.54	0.55	0.56	0.56	0.56	0.56	0.57
Cooking	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.41	0.41
Lighting	3.58	3.60	3.68	3.76	3.86	3.95	4.03	4.09	4.13	4.17	4.21
Refrigeration	0.65	0.65	0.66	0.67	0.68	0.69	0.69	0.70	0.70	0.71	0.72
Office Equipment (PC)	0.46	0.44	0.49	0.55	0.61	0.65	0.69	0.71	0.74	0.77	0.79
Office Equipment (non-PC)	0.99	1.00	1.02	1.08	1.15	1.21	1.28	1.34	1.41	1.47	1.54
Other Uses 6/	6.59	6.14	6.20	6.34	6.61	6.84	7.07	7.27	7.47	7.69	7.92
Total	17.58	17.40	17.61	17.95	18.58	19.12	19.63	20.04	20.41	20.82	21.25
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	83.9	85.2	86.5	87.6	88.8	89.9	91.0	92.2	93.4	94.6	95.7
New Additions	2.8	2.7	2.7	2.6	2.7	2.7	2.7	2.8	2.8	2.8	2.7
Total	86.7	87.9	89.1	90.3	91.4	92.6	93.8	95.0	96.2	97.4	98.5
Energy Consumption Intensity (thousand Btu per square foot)											
Delivered Energy Consumption	117.7	117.9	118.1	118.2	118.6	118.7	119.0	119.3	119.7	120.2	120.5
Electricity Related Losses	132.2	132.7	132.8	132.9	133.0	133.6	133.6	134.1	134.2	134.4	134.6
Total Energy Consumption	249.8	250.6	250.9	251.1	251.6	252.3	252.6	253.4	253.9	254.6	255.1
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/	0.46	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.48	0.49	0.49
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	0.19	0.19	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	1.35	1.37	1.38	1.39	1.39	1.40	1.41	1.42	1.43	1.44	1.44
Refrigeration	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25
Office Equipment (PC)	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.35
Office Equipment (non-PC)	0.51	0.54	0.56	0.58	0.61	0.63	0.66	0.68	0.71	0.74	0.77
Other Uses 2/	2.00	2.08	2.15	2.22	2.28	2.35	2.42	2.49	2.56	2.64	2.71
Delivered Energy	5.34	5.47	5.59	5.70	5.80	5.93	6.05	6.17	6.30	6.42	6.53
Natural Gas											
Space Heating 1/	1.57	1.58	1.58	1.58	1.60	1.60	1.60	1.61	1.62	1.64	1.64
Space Cooling 1/	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03
Water Heating 1/	0.71	0.72	0.73	0.73	0.75	0.75	0.76	0.77	0.78	0.79	0.80
Cooking	0.32	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36
Other Uses 3/	1.03	1.05	1.06	1.07	1.10	1.10	1.12	1.13	1.15	1.17	1.19
Delivered Energy	3.66	3.69	3.72	3.73	3.79	3.81	3.85	3.89	3.93	3.99	4.02
Distillate											
Space Heating 1/	0.29	0.30	0.31	0.32	0.32	0.33	0.34	0.35	0.35	0.36	0.37
Water Heating 1/	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12
Other Uses 4/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Delivered Energy	0.70	0.71	0.72	0.74	0.74	0.75	0.76	0.77	0.78	0.79	0.80
Other Fuels 5/	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.41

**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/	2.02	2.04	2.05	2.06	2.08	2.09	2.10	2.12	2.14	2.16	2.17
Space Cooling 1/	0.48	0.48	0.49	0.49	0.49	0.50	0.50	0.51	0.51	0.52	0.52
Water Heating 1/	0.96	0.97	0.98	0.99	1.01	1.02	1.03	1.04	1.05	1.07	1.07
Ventilation	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19
Cooking	0.35	0.35	0.35	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.38
Lighting	1.35	1.37	1.38	1.39	1.39	1.40	1.41	1.42	1.43	1.44	1.44
Refrigeration	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25
Office Equipment (PC)	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.35
Office Equipment (non-PC)	0.51	0.54	0.56	0.58	0.61	0.63	0.66	0.68	0.71	0.74	0.77
Other Uses 6/	3.85	3.93	4.02	4.10	4.19	4.27	4.35	4.44	4.53	4.62	4.71
Delivered Energy	10.20	10.37	10.53	10.67	10.84	10.99	11.16	11.33	11.52	11.70	11.86
Electricity Related Losses	11.45	11.67	11.83	11.99	12.16	12.37	12.53	12.74	12.91	13.09	13.26
Total Energy Consumption by End-Use											
Space Heating 1/	2.37	2.38	2.39	2.39	2.41	2.42	2.43	2.45	2.47	2.49	2.50
Space Cooling 1/	1.46	1.47	1.47	1.47	1.48	1.49	1.49	1.50	1.50	1.51	1.51
Water Heating 1/	1.29	1.30	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.38	1.38
Ventilation	0.57	0.57	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57
Cooking	0.41	0.41	0.42	0.42	0.42	0.42	0.43	0.43	0.44	0.44	0.44
Lighting	4.25	4.29	4.31	4.31	4.30	4.32	4.33	4.34	4.35	4.36	4.36
Refrigeration	0.72	0.72	0.72	0.72	0.72	0.73	0.73	0.74	0.74	0.75	0.75
Office Equipment (PC)	0.82	0.85	0.87	0.90	0.93	0.96	0.99	1.01	1.03	1.05	1.07
Office Equipment (non-PC)	1.61	1.68	1.74	1.81	1.88	1.95	2.02	2.10	2.17	2.26	2.34
Other Uses 6/	8.15	8.36	8.57	8.77	8.97	9.17	9.36	9.58	9.78	10.00	10.21
Total	21.65	22.03	22.36	22.67	23.00	23.36	23.69	24.07	24.42	24.79	25.12
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	96.8	97.9	99.1	1.6%
New Additions	2.8	2.9	3.0	-0.3%
Total	99.6	100.8	102.1	1.5%
Energy Consumption Intensity (thousand Btu per square foot)				
Delivered Energy Consumption	120.8	121.1	121.2	0.2%
Electricity Related Losses	134.7	135.0	135.3	0.3%
Total Energy Consumption	255.5	256.1	256.5	0.3%
Delivered Energy Consumption by Fuel				
Purchased Electricity				
Space Heating 1/	0.16	0.16	0.16	0.3%
Space Cooling 1/	0.49	0.49	0.50	0.3%
Water Heating 1/	0.15	0.15	0.15	0.3%
Ventilation	0.19	0.19	0.19	0.7%
Cooking	0.03	0.03	0.03	-0.6%
Lighting	1.45	1.45	1.46	1.2%
Refrigeration	0.25	0.25	0.25	0.9%
Office Equipment (PC)	0.36	0.36	0.37	4.4%
Office Equipment (non-PC)	0.80	0.84	0.87	4.6%
Other Uses 2/	2.78	2.85	2.92	3.2%
Delivered Energy	6.65	6.77	6.90	2.3%
Natural Gas				
Space Heating 1/	1.65	1.66	1.66	0.7%
Space Cooling 1/	0.03	0.03	0.03	4.1%
Water Heating 1/	0.81	0.82	0.82	1.5%
Cooking	0.36	0.36	0.36	1.5%
Other Uses 3/	1.21	1.24	1.25	1.3%
Delivered Energy	4.06	4.11	4.14	1.1%
Distillate				
Space Heating 1/	0.38	0.39	0.39	3.6%
Water Heating 1/	0.12	0.13	0.13	2.5%
Other Uses 4/	0.31	0.31	0.31	1.1%
Delivered Energy	0.81	0.82	0.83	2.4%
Other Fuels 5/	0.41	0.41	0.41	0.9%

**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/	2.19	2.21	2.22	1.1%
Space Cooling 1/	0.52	0.52	0.53	0.4%
Water Heating 1/	1.08	1.09	1.10	1.4%
Ventilation	0.19	0.19	0.19	0.7%
Cooking	0.39	0.39	0.39	1.3%
Lighting	1.45	1.45	1.46	1.2%
Refrigeration	0.25	0.25	0.25	0.9%
Office Equipment (PC)	0.36	0.36	0.37	4.4%
Office Equipment (non-PC)	0.80	0.84	0.87	4.6%
Other Uses 6/	4.81	4.90	4.99	2.2%
Delivered Energy	12.03	12.20	12.37	1.8%
Electricity Related Losses	13.42	13.61	13.82	1.8%
Total Energy Consumption by End-Use				
Space Heating 1/	2.51	2.52	2.53	0.9%
Space Cooling 1/	1.51	1.51	1.52	0.0%
Water Heating 1/	1.39	1.40	1.40	1.0%
Ventilation	0.57	0.57	0.57	0.4%
Cooking	0.44	0.45	0.45	0.9%
Lighting	4.37	4.37	4.38	0.9%
Refrigeration	0.75	0.75	0.75	0.6%
Office Equipment (PC)	1.08	1.09	1.11	4.1%
Office Equipment (non-PC)	2.43	2.52	2.62	4.3%
Other Uses 6/	10.41	10.63	10.85	2.5%
Total	25.45	25.82	26.19	1.8%
Non-Marketed Renewable Fuels				
Solar 7/	0.03	0.03	0.03	1.4%
Total	0.03	0.03	0.03	1.4%

**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 LW2004.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	4230	4396	4516	4641	4756	4879	5023	5159
Nonmanufacturing	1309	1222	1183	1208	1270	1303	1325	1356	1395	1433	1463
Total	5368	5285	5226	5438	5665	5819	5966	6111	6274	6456	6622
Energy Prices (2002 dollars per million Btu)											
Distillate Oil	6.62	6.21	6.87	6.27	4.71	4.59	4.56	4.57	4.57	4.55	4.59
Liquefied Petroleum Gas	12.48	8.28	10.56	10.33	7.86	7.80	7.86	7.90	7.86	7.82	7.87
Residual Oil	3.31	3.89	4.60	3.82	2.67	2.67	2.66	2.66	2.66	2.66	2.66
Motor Gasoline	11.70	11.04	12.21	11.14	10.62	10.52	10.62	10.48	10.46	10.42	10.41
Natural Gas	4.91	3.75	5.54	4.45	4.03	3.92	3.97	4.09	3.98	3.97	4.09
Metallurgical Coal	1.71	1.87	2.03	2.01	1.98	1.96	1.95	1.95	1.94	1.94	1.93
Steam Coal	1.51	1.52	1.62	1.60	1.57	1.57	1.56	1.57	1.56	1.56	1.56
Electricity	15.11	14.74	13.92	13.61	13.35	13.05	12.91	13.05	13.15	13.13	13.03
Energy Consumption 1/ (quadrillion Btu)											
Distillate	1.21	1.16	1.17	1.14	1.17	1.18	1.19	1.19	1.19	1.21	1.23
Liquefied Petroleum Gas	2.10	2.22	2.12	2.17	2.24	2.28	2.32	2.36	2.37	2.40	2.45
Petrochemical Feedstocks	1.16	1.22	1.27	1.29	1.31	1.33	1.34	1.35	1.35	1.36	1.38
Residual Fuel	0.15	0.20	0.21	0.21	0.23	0.23	0.24	0.24	0.24	0.23	0.24
Other Petroleum 2/	4.42	4.19	4.21	4.11	4.64	4.72	4.73	4.78	4.75	4.77	4.76
Petroleum Subtotal	9.04	9.00	8.98	8.92	9.60	9.73	9.82	9.93	9.90	9.97	10.04
Natural Gas	7.56	7.43	7.41	7.78	7.77	7.91	8.02	8.09	8.26	8.48	8.63
Lease and Plant Fuel 3/	1.12	1.35	1.03	1.02	1.07	1.13	1.19	1.25	1.31	1.39	1.39
Natural Gas Subtotal	8.67	8.78	8.44	8.80	8.84	9.04	9.22	9.34	9.57	9.86	10.03
Metallurgical Coal & Coke 4/	0.74	0.65	0.70	0.71	0.70	0.69	0.68	0.68	0.67	0.66	0.65
Steam Coal	1.51	1.47	1.40	1.40	1.41	1.41	1.41	1.41	1.41	1.41	1.42
Coal Subtotal	2.25	2.12	2.11	2.11	2.11	2.10	2.09	2.08	2.08	2.07	2.06
Renewables 5/	1.64	1.66	1.66	1.73	1.80	1.85	1.88	1.91	1.95	2.01	2.06
Purchased Electricity	3.29	3.39	3.34	3.43	3.54	3.61	3.67	3.72	3.78	3.84	3.91
Delivered Energy	24.89	24.94	24.52	24.99	25.90	26.33	26.68	26.99	27.28	27.75	28.09
Electricity Related Losses	7.44	7.53	7.39	7.56	7.81	7.95	8.09	8.17	8.21	8.30	8.41
Total	32.33	32.47	31.91	32.55	33.71	34.29	34.77	35.17	35.49	36.05	36.50
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)											
Distillate	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19
Liquefied Petroleum Gas	0.39	0.42	0.40	0.40	0.40	0.39	0.39	0.39	0.38	0.37	0.37
Petrochemical Feedstocks	0.22	0.23	0.24	0.24	0.23	0.23	0.23	0.22	0.21	0.21	0.21
Residual Fuel	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Other Petroleum 2/	0.82	0.79	0.81	0.76	0.82	0.81	0.79	0.78	0.76	0.74	0.72
Petroleum Subtotal	1.68	1.70	1.72	1.64	1.70	1.67	1.65	1.62	1.58	1.54	1.52
Natural Gas	1.41	1.41	1.42	1.43	1.37	1.36	1.35	1.32	1.32	1.31	1.30
Lease and Plant Fuel 3/	0.21	0.26	0.20	0.19	0.19	0.19	0.20	0.21	0.21	0.21	0.21
Natural Gas Subtotal	1.62	1.66	1.61	1.62	1.56	1.55	1.54	1.53	1.53	1.53	1.51
Metallurgical Coal & Coke 4/	0.14	0.12	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10
Steam Coal	0.28	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.22	0.22	0.21
Coal Subtotal	0.42	0.40	0.40	0.39	0.37	0.36	0.35	0.34	0.33	0.32	0.31

Table 6. Industrial Sector Key Indicators and Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Renewables 5/	0.30	0.31	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31
Purchased Electricity	0.61	0.64	0.64	0.63	0.62	0.62	0.61	0.61	0.60	0.60	0.59
Delivered Energy	4.64	4.72	4.69	4.60	4.57	4.53	4.47	4.42	4.35	4.30	4.24
Electricity Related Losses	1.39	1.42	1.41	1.39	1.38	1.37	1.36	1.34	1.31	1.29	1.27
Total	6.02	6.14	6.11	5.98	5.95	5.89	5.83	5.75	5.66	5.58	5.51

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	5302	5459	5615	5778	5957	6151	6338	6496	6679	6854	7058
Nonmanufacturing	1486	1527	1562	1585	1604	1628	1661	1672	1704	1726	1764
Total	6787	6987	7176	7362	7561	7779	7999	8167	8383	8581	8822
Energy Prices (2002 dollars per million Btu)											
Distillate Oil	4.58	4.61	4.64	4.67	4.77	4.80	4.85	4.85	4.91	4.77	4.84
Liquefied Petroleum Gas	7.92	7.93	7.91	7.93	8.00	8.00	8.00	8.03	8.02	7.96	8.01
Residual Oil	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.65	2.65	2.65
Motor Gasoline	10.36	10.31	10.25	10.25	10.23	10.22	10.21	10.16	10.11	10.05	10.01
Natural Gas	4.20	4.28	4.36	4.41	4.51	4.51	4.52	4.58	4.51	4.56	4.55
Metallurgical Coal	1.91	1.90	1.90	1.89	1.88	1.87	1.87	1.86	1.83	1.81	1.80
Steam Coal	1.54	1.54	1.53	1.52	1.52	1.51	1.51	1.50	1.51	1.51	1.51
Electricity	13.10	12.96	13.10	13.19	13.26	13.35	13.39	13.47	13.46	13.37	13.50
Energy Consumption 1/ (quadrillion Btu)											
Distillate	1.24	1.27	1.28	1.31	1.31	1.33	1.34	1.36	1.38	1.39	1.42
Liquefied Petroleum Gas	2.49	2.54	2.56	2.61	2.64	2.70	2.75	2.79	2.84	2.88	2.93
Petrochemical Feedstocks	1.40	1.43	1.44	1.45	1.48	1.50	1.52	1.54	1.57	1.58	1.60
Residual Fuel	0.24	0.25	0.25	0.26	0.25	0.26	0.26	0.27	0.27	0.27	0.27
Other Petroleum 2/	4.82	4.92	5.03	5.09	5.13	5.19	5.39	5.42	5.49	5.56	5.64
Petroleum Subtotal	10.19	10.40	10.57	10.71	10.81	10.97	11.26	11.37	11.54	11.68	11.86
Natural Gas	8.72	8.84	8.92	8.99	9.17	9.29	9.33	9.44	9.58	9.69	9.83
Lease and Plant Fuel 3/	1.40	1.41	1.43	1.42	1.44	1.45	1.47	1.52	1.57	1.57	1.58
Natural Gas Subtotal	10.12	10.25	10.35	10.41	10.61	10.74	10.79	10.96	11.14	11.26	11.41
Metallurgical Coal & Coke 4/	0.63	0.62	0.60	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51
Steam Coal	1.42	1.43	1.43	1.43	1.43	1.44	1.45	1.45	1.45	1.45	1.46
Coal Subtotal	2.05	2.04	2.03	2.02	2.01	2.01	2.00	1.99	1.99	1.98	1.98
Renewables 5/	2.11	2.17	2.22	2.27	2.31	2.37	2.42	2.46	2.50	2.54	2.59
Purchased Electricity	3.97	4.04	4.10	4.17	4.23	4.32	4.39	4.44	4.51	4.58	4.66
Delivered Energy	28.44	28.91	29.27	29.59	29.98	30.40	30.86	31.22	31.67	32.03	32.48
Electricity Related Losses	8.51	8.62	8.68	8.77	8.86	9.01	9.08	9.17	9.24	9.33	9.46
Total	36.95	37.53	37.96	38.35	38.84	39.41	39.94	40.38	40.92	41.36	41.94
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)											
Distillate	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.16	0.16	0.16
Liquefied Petroleum Gas	0.37	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.33
Petrochemical Feedstocks	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18
Residual Fuel	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Petroleum 2/	0.71	0.70	0.70	0.69	0.68	0.67	0.67	0.66	0.65	0.65	0.64
Petroleum Subtotal	1.50	1.49	1.47	1.45	1.43	1.41	1.41	1.39	1.38	1.36	1.34
Natural Gas	1.29	1.27	1.24	1.22	1.21	1.19	1.17	1.16	1.14	1.13	1.11
Lease and Plant Fuel 3/	0.21	0.20	0.20	0.19	0.19	0.19	0.18	0.19	0.19	0.18	0.18
Natural Gas Subtotal	1.49	1.47	1.44	1.41	1.40	1.38	1.35	1.34	1.33	1.31	1.29
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	0.21	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.17
Coal Subtotal	0.30	0.29	0.28	0.27	0.27	0.26	0.25	0.24	0.24	0.23	0.22

Table 6. Industrial Sector Key Indicators and Consumption

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Renewables 5/	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.29
Purchased Electricity	0.58	0.58	0.57	0.57	0.56	0.55	0.55	0.54	0.54	0.53	0.53
Delivered Energy	4.19	4.14	4.08	4.02	3.97	3.91	3.86	3.82	3.78	3.73	3.68
Electricity Related Losses	1.25	1.23	1.21	1.19	1.17	1.16	1.14	1.12	1.10	1.09	1.07
Total	5.44	5.37	5.29	5.21	5.14	5.07	4.99	4.94	4.88	4.82	4.75

Table 6. Industrial Sector Key Indicators and Consumption

	2023	2024	2025	2002- 2025
Value of Shipments (billion 1996 dollars)				
Manufacturing	7266	7485	7730	2.8%
Nonmanufacturing	1801	1827	1854	1.8%
Total	9068	9312	9584	2.6%
Energy Prices (2002 dollars per million Btu)				
Distillate Oil	4.79	4.80	4.91	-1.0%
Liquefied Petroleum Gas	8.00	7.94	8.03	-0.1%
Residual Oil	2.65	2.65	2.65	-1.7%
Motor Gasoline	10.00	9.98	9.96	-0.4%
Natural Gas	4.57	4.68	4.86	1.1%
Metallurgical Coal	1.78	1.77	1.76	-0.3%
Steam Coal	1.50	1.50	1.50	-0.1%
Electricity	13.31	13.43	13.57	-0.4%
Energy Consumption 1/ (quadrillion Btu)				
Distillate	1.44	1.45	1.48	1.1%
Liquefied Petroleum Gas	2.98	3.03	3.09	1.4%
Petrochemical Feedstocks	1.62	1.64	1.66	1.4%
Residual Fuel	0.27	0.27	0.27	1.2%
Other Petroleum 2/	5.72	5.75	5.81	1.4%
Petroleum Subtotal	12.03	12.15	12.31	1.4%
Natural Gas	9.99	10.16	10.28	1.4%
Lease and Plant Fuel 3/	1.60	1.62	1.61	0.7%
Natural Gas Subtotal	11.58	11.78	11.89	1.3%
Metallurgical Coal & Coke 4/	0.51	0.50	0.49	-1.2%
Steam Coal	1.47	1.47	1.48	0.0%
Coal Subtotal	1.97	1.97	1.97	-0.3%
Renewables 5/	2.63	2.68	2.73	2.2%
Purchased Electricity	4.75	4.83	4.93	1.6%
Delivered Energy	32.96	33.41	33.82	1.3%
Electricity Related Losses	9.58	9.71	9.87	1.2%
Total	42.54	43.12	43.69	1.3%
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)				
Distillate	0.16	0.16	0.15	-1.5%
Liquefied Petroleum Gas	0.33	0.33	0.32	-1.1%
Petrochemical Feedstocks	0.18	0.18	0.17	-1.2%
Residual Fuel	0.03	0.03	0.03	-1.4%
Other Petroleum 2/	0.63	0.62	0.61	-1.2%
Petroleum Subtotal	1.33	1.30	1.28	-1.2%
Natural Gas	1.10	1.09	1.07	-1.2%
Lease and Plant Fuel 3/	0.18	0.17	0.17	-1.8%
Natural Gas Subtotal	1.28	1.27	1.24	-1.3%
Metallurgical Coal & Coke 4/	0.06	0.05	0.05	-3.7%
Steam Coal	0.16	0.16	0.15	-2.5%
Coal Subtotal	0.22	0.21	0.21	-2.9%

Table 6. Industrial Sector Key Indicators and Consumption

	2023	2024	2025	2002-2025
Renewables 5/	0.29	0.29	0.28	-0.4%
Purchased Electricity	0.52	0.52	0.51	-1.0%
Delivered Energy	3.64	3.59	3.53	-1.3%
Electricity Related Losses	1.06	1.04	1.03	-1.4%
Total	4.69	4.63	4.56	-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 LM2004.D101703A. 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 LM2004.D101703A.

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	2639	2736	2823	2898	2974	3050	3129	3206
Commercial Light Trucks (VMT) 1/	64	65	65	67	70	72	74	76	78	80	82
Freight Trucks >10000 lbs. (VMT)	201	196	197	205	214	220	226	231	236	243	249
Air (seat miles available)	953	909	906	931	960	991	1018	1053	1088	1131	1169
Rail (ton miles traveled)	1417	1336	1332	1370	1406	1448	1479	1494	1523	1547	1585
Domestic Shipping (ton miles traveled)	774	724	716	731	747	760	773	782	791	803	811
Energy Efficiency											
New Light-Duty Vehicle (MPG) 2/	24.0	23.8	24.0	24.0	23.9	24.6	25.1	24.8	24.9	25.0	25.1
New Car (MPG) 2/	28.2	28.2	28.5	28.4	28.1	28.4	28.3	28.1	28.3	28.5	28.7
New Light Truck (MPG) 2/	20.5	20.5	20.6	20.8	21.0	21.9	22.7	22.5	22.5	22.6	22.7
Light-Duty Fleet (MPG) 3/	19.8	19.7	19.6	19.5	19.5	19.4	19.5	19.5	19.5	19.5	19.6
New Commercial Light Truck (MPG) 1/	13.9	13.9	14.0	13.9	14.0	14.7	15.2	15.0	15.0	15.1	15.1
Stock Commercial Light Truck (MPG) 1/	13.7	13.8	13.9	13.9	13.9	14.0	14.1	14.3	14.4	14.4	14.5
Aircraft (seat miles per gallon)	55.3	54.8	56.7	57.2	57.6	57.9	58.4	58.8	59.4	60.0	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	16.48	17.14	17.70	18.15	18.61	19.06	19.52	19.96
Commercial Light Trucks 1/	0.58	0.59	0.58	0.61	0.63	0.64	0.65	0.67	0.68	0.69	0.71
Bus Transportation	0.25	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.26
Freight Trucks	4.22	4.09	4.11	4.27	4.44	4.56	4.68	4.79	4.91	5.05	5.18
Rail, Passenger	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14
Rail, Freight	0.50	0.47	0.46	0.47	0.48	0.49	0.49	0.49	0.50	0.50	0.51
Shipping, Domestic	0.34	0.32	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.34	0.35
Shipping, International	0.77	0.64	0.71	0.71	0.71	0.72	0.72	0.72	0.72	0.72	0.72
Recreational Boats	0.30	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34
Air	2.97	2.84	2.72	2.79	2.91	3.01	3.09	3.19	3.27	3.37	3.45
Military Use	0.62	0.66	0.72	0.74	0.75	0.75	0.76	0.76	0.77	0.77	0.78
Lubricants	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.22
Pipeline Fuel	0.64	0.65	0.68	0.67	0.65	0.65	0.65	0.65	0.66	0.68	0.68
Total	26.67	26.70	27.06	27.93	28.91	29.75	30.43	31.14	31.84	32.60	33.28
million barrels per day oil equivalent											
Light-Duty Vehicles	7.98	8.20	8.37	8.67	9.03	9.32	9.56	9.80	10.04	10.28	10.51
Commercial Light Trucks 1/	0.31	0.31	0.31	0.32	0.33	0.34	0.34	0.35	0.36	0.37	0.37
Bus Transportation	0.12	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Freight Trucks	2.00	1.94	1.95	2.02	2.10	2.16	2.22	2.27	2.32	2.39	2.45
Rail, Passenger	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Rail, Freight	0.24	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.24	0.24

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Shipping, Domestic	0.16	0.15	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16
Shipping, International	0.34	0.28	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32
Recreational Boats	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18
Air	1.44	1.38	1.32	1.35	1.41	1.46	1.50	1.54	1.58	1.63	1.67
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	0.33	0.33	0.33	0.33	0.33	0.34	0.34
Total	13.50	13.54	13.73	14.17	14.68	15.10	15.45	15.81	16.17	16.55	16.90

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)	3286	3371	3447	3520	3592	3664	3738	3813	3891	3973	4056
Commercial Light Trucks (VMT) 1/	84	87	89	91	93	96	98	100	103	105	108
Freight Trucks >10000 lbs. (VMT)	256	263	270	277	284	292	300	306	314	322	330
Air (seat miles available)	1214	1258	1296	1327	1356	1386	1411	1435	1455	1473	1489
Rail (ton miles traveled)	1611	1635	1662	1686	1726	1755	1782	1811	1843	1873	1912
Domestic Shipping (ton miles traveled)	819	829	839	849	855	866	879	886	899	907	923
Energy Efficiency											
New Light-Duty Vehicle (MPG) 2/	25.2	25.3	25.4	25.5	25.6	25.7	25.7	25.8	25.9	25.9	26.0
New Car (MPG) 2/	28.8	29.0	29.2	29.3	29.4	29.5	29.6	29.7	29.7	29.8	29.9
New Light Truck (MPG) 2/	22.8	22.9	23.0	23.2	23.3	23.4	23.5	23.5	23.6	23.7	23.8
Light-Duty Fleet (MPG) 3/	19.6	19.7	19.8	19.8	19.9	20.0	20.0	20.1	20.2	20.2	20.3
New Commercial Light Truck (MPG) 1/	15.2	15.2	15.3	15.4	15.5	15.5	15.6	15.6	15.7	15.8	15.8
Stock Commercial Light Truck (MPG) 1/	14.6	14.7	14.8	14.9	14.9	15.0	15.1	15.2	15.3	15.4	15.4
Aircraft (seat miles per gallon)	61.4	62.1	62.8	63.4	63.9	64.4	64.7	65.1	65.4	65.6	65.9
Freight Truck (MPG)	6.0	6.1	6.1	6.1	6.2	6.2	6.3	6.3	6.3	6.4	6.4
Rail (ton miles/thousand Btu)	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.5	3.5
Domestic Shipping (ton miles per thousand Btu)	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Energy Use by Mode											
quadrillion Btu											
Light-Duty Vehicles	20.40	20.86	21.26	21.63	21.99	22.34	22.69	23.06	23.43	23.86	24.29
Commercial Light Trucks 1/	0.72	0.74	0.75	0.77	0.78	0.80	0.81	0.82	0.84	0.86	0.87
Bus Transportation	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Freight Trucks	5.31	5.44	5.55	5.66	5.76	5.88	5.99	6.08	6.20	6.31	6.44
Rail, Passenger	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16
Rail, Freight	0.51	0.51	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.54	0.55
Shipping, Domestic	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.39
Shipping, International	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Recreational Boats	0.34	0.35	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.38
Air	3.54	3.63	3.70	3.77	3.83	3.90	3.97	4.04	4.10	4.16	4.21
Military Use	0.78	0.79	0.79	0.79	0.80	0.80	0.81	0.81	0.81	0.81	0.82
Lubricants	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26
Pipeline Fuel	0.68	0.68	0.69	0.68	0.69	0.69	0.69	0.74	0.77	0.77	0.78
Total	33.98	34.70	35.33	35.89	36.46	37.04	37.62	38.22	38.85	39.48	40.15
million barrels per day oil equivalent											
Light-Duty Vehicles	10.74	10.98	11.19	11.38	11.57	11.75	11.94	12.13	12.32	12.55	12.77
Commercial Light Trucks 1/	0.38	0.39	0.40	0.40	0.41	0.42	0.43	0.43	0.44	0.45	0.46
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	2.51	2.57	2.63	2.67	2.72	2.78	2.83	2.87	2.93	2.98	3.04
Rail, Passenger	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08
Rail, Freight	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26	0.26

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Shipping, Domestic	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18
Shipping, International	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Recreational Boats	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20
Air	1.71	1.76	1.79	1.82	1.85	1.89	1.92	1.96	1.98	2.01	2.04
Military Use	0.38	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39
Lubricants	0.10	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12
Pipeline Fuel	0.34	0.34	0.35	0.34	0.35	0.35	0.35	0.37	0.39	0.39	0.39
Total	17.25	17.62	17.94	18.22	18.51	18.81	19.10	19.40	19.72	20.04	20.38

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)	4142	4233	4330	2.4%
Commercial Light Trucks (VMT) 1/	110	113	116	2.6%
Freight Trucks >10000 lbs. (VMT)	339	348	358	2.6%
Air (seat miles available)	1501	1514	1521	2.3%
Rail (ton miles traveled)	1954	1997	2037	1.9%
Domestic Shipping (ton miles traveled)	938	951	959	1.2%
Energy Efficiency				
New Light-Duty Vehicle (MPG) 2/				
New Car (MPG) 2/	26.0	26.1	26.1	0.4%
New Light Truck (MPG) 2/	29.9	30.0	30.0	0.3%
Light-Duty Fleet (MPG) 3/	23.9	24.0	24.1	0.7%
New Commercial Light Truck (MPG) 1/	20.3	20.4	20.4	0.2%
Stock Commercial Light Truck (MPG) 1/	15.9	15.9	16.0	0.6%
Aircraft (seat miles per gallon)	15.5	15.6	15.6	0.5%
Freight Truck (MPG)	66.1	66.3	66.5	0.8%
Rail (ton miles/thousand Btu)	6.4	6.5	6.5	0.3%
Domestic Shipping (ton miles per thousand Btu)	3.5	3.6	3.6	1.0%
	2.4	2.4	2.4	0.2%
Energy Use by Mode				
quadrillion Btu				
Light-Duty Vehicles	24.74	25.22	25.73	2.2%
Commercial Light Trucks 1/	0.89	0.91	0.93	2.0%
Bus Transportation	0.26	0.27	0.27	0.5%
Freight Trucks	6.58	6.73	6.91	2.3%
Rail, Passenger	0.17	0.17	0.17	1.8%
Rail, Freight	0.55	0.56	0.57	0.8%
Shipping, Domestic	0.39	0.40	0.40	1.0%
Shipping, International	0.73	0.74	0.74	0.6%
Recreational Boats	0.38	0.38	0.39	0.9%
Air	4.26	4.32	4.36	1.9%
Military Use	0.82	0.82	0.82	0.9%
Lubricants	0.27	0.27	0.28	1.5%
Pipeline Fuel	0.79	0.80	0.79	0.9%
Total	40.85	41.59	42.36	2.0%
million barrels per day oil equivalent				
Light-Duty Vehicles	13.01	13.26	13.53	2.2%
Commercial Light Trucks 1/	0.47	0.48	0.49	2.0%
Bus Transportation	0.12	0.13	0.13	0.5%
Freight Trucks	3.11	3.18	3.26	2.3%
Rail, Passenger	0.08	0.08	0.08	1.8%
Rail, Freight	0.26	0.26	0.27	0.8%

Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption

	2023	2024	2025	2002-2025
Shipping, Domestic	0.18	0.18	0.18	1.0%
Shipping, International	0.32	0.32	0.32	0.6%
Recreational Boats	0.20	0.20	0.20	1.0%
Air	2.06	2.09	2.11	1.9%
Military Use	0.39	0.39	0.39	0.9%
Lubricants	0.13	0.13	0.13	1.5%
Pipeline Fuel	0.40	0.41	0.40	0.9%
Total	20.74	21.11	21.50	2.0%

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 LW2004.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	1945	1947	2009	2068	2139	2148	2194	2214	2241
Petroleum	113	77	94	51	105	110	115	131	138	143	172
Natural Gas 3/	427	450	421	510	471	485	477	517	522	560	571
Nuclear Power	769	780	762	779	791	794	795	796	791	794	800
Pumped Storage/Other	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
Renewable Sources 4/	259	304	339	376	378	383	395	400	407	412	418
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	3513	3613	3705	3790	3872	3943	4004	4078	4154
Combined Heat and Power 5/											
Coal	31	32	28	29	30	31	33	33	33	33	33
Petroleum	6	6	2	0	4	5	6	8	8	8	10
Natural Gas	128	148	152	156	154	157	155	159	165	167	164
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	165	168	173	174	180	186	187	187
Net Available to the Grid	3551	3626	3675	3778	3873	3963	4045	4123	4191	4265	4341
End-Use Sector Generation											
Combined Heat and Power 6/											
Coal	21	21	21	21	21	21	21	21	21	21	21
Petroleum	6	5	5	5	8	9	9	10	11	11	12
Natural Gas	83	84	84	86	90	94	97	100	105	109	114
Other Gaseous Fuels 7/	4	5	6	6	8	8	8	9	9	9	10
Renewable Sources 4/	29	30	31	32	34	35	36	37	38	39	40
Other 8/	9	11	11	11	11	11	11	11	11	11	11
Total	151	157	158	162	173	179	183	188	194	201	208
Other End-Use Generators 9/	3	4	4	4	4	4	5	5	5	5	5
Generation for Own Use	-129	-134	-134	-136	-145	-148	-149	-152	-155	-158	-162
Total Sales to the Grid	25	27	28	31	32	36	38	41	44	48	51
Total Electricity Generation	3734	3831	3900	4008	4114	4210	4297	4380	4451	4533	4616
Net Imports	22	22	39	30	31	24	23	24	25	30	30
Electricity Sales by Sector											
Residential	1203	1268	1282	1303	1321	1343	1366	1392	1410	1433	1454
Commercial	1197	1208	1213	1254	1298	1340	1379	1416	1452	1490	1528
Industrial	964	994	978	1006	1037	1057	1075	1091	1107	1126	1145

**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	25	25	26	26	27	27
Total	3386	3492	3495	3587	3680	3764	3845	3925	3996	4075	4154
End-Use Prices 10/ (2002 cents per kilowatthour)											
Residential	8.7	8.4	8.5	8.3	8.2	8.0	7.9	7.9	7.9	7.9	7.9
Commercial	8.0	7.8	7.6	7.3	7.1	6.9	6.7	6.7	6.8	6.8	6.8
Industrial	5.2	5.0	4.7	4.6	4.6	4.5	4.4	4.5	4.5	4.5	4.4
Transportation	7.4	7.2	7.3	7.0	6.8	6.6	6.5	6.5	6.6	6.6	6.6
All Sectors Average	7.4	7.2	7.1	6.9	6.8	6.6	6.5	6.5	6.5	6.5	6.5
Prices by Service Category 10/ (2002 cents per kilowatthour)											
Generation	4.8	4.6	4.6	4.4	4.2	4.1	4.0	4.0	4.0	4.0	4.0
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	11.11	10.82	10.41	10.17	9.96	9.75	9.80	9.56	9.75
Nitrogen Oxide (million tons)	4.75	4.39	3.70	3.22	3.29	3.39	3.46	3.47	3.51	3.52	3.55
Mercury (tons)	49.14	50.95	50.82	49.81	50.04	51.04	51.91	51.28	51.79	51.09	51.60

**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	2261	2270	2281	2306	2330	2364	2395	2442	2495	2555	2625
Petroleum	200	242	265	361	221	316	367	354	421	393	463
Natural Gas 3/	594	615	645	599	784	736	734	773	740	785	728
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/	421	425	428	432	434	436	438	442	444	446	448
Distributed Generation (Natural Gas)	0	1	1	1	2	3	3	4	4	5	5
Non-Utility Generation for Own Use	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37
Total	4233	4313	4383	4465	4537	4623	4708	4784	4874	4954	5040
Combined Heat and Power 5/											
Coal	33	33	33	33	33	33	33	33	33	33	33
Petroleum	13	15	16	19	10	15	15	14	16	14	17
Natural Gas	164	161	160	150	160	153	150	152	147	146	142
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	189	189	182	183	181	179	179	176	173	172
Net Available to the Grid	4423	4502	4572	4647	4721	4804	4887	4964	5050	5128	5212
End-Use Sector Generation											
Combined Heat and Power 6/											
Coal	21	21	21	21	21	21	21	21	21	21	21
Petroleum	13	14	14	14	15	15	15	16	17	17	17
Natural Gas	118	121	125	128	134	138	143	149	154	159	165
Other Gaseous Fuels 7/	10	10	10	11	11	11	12	12	12	12	12
Renewable Sources 4/	42	43	44	45	46	48	49	49	50	51	52
Other 8/	11	11	11	11	11	11	11	11	11	11	11
Total	214	220	227	231	238	244	251	258	265	272	279
Other End-Use Generators 9/	5	5	5	5	5	5	5	5	5	5	6
Generation for Own Use	-165	-167	-170	-173	-176	-180	-183	-187	-190	-194	-198
Total Sales to the Grid	55	58	61	63	67	70	73	77	80	83	86
Total Electricity Generation	4704	4789	4865	4945	5026	5115	5205	5288	5382	5466	5557
Net Imports	28	27	26	28	25	23	20	16	17	14	11
Electricity Sales by Sector											
Residential	1480	1498	1519	1542	1564	1581	1603	1624	1651	1669	1691
Commercial	1565	1602	1638	1672	1701	1737	1773	1808	1846	1881	1914
Industrial	1162	1184	1202	1222	1240	1265	1285	1301	1322	1341	1366

**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	28	28	29	29	30	31	31	32	32	33	34
Total	4234	4313	4387	4465	4535	4614	4692	4765	4852	4924	5004
End-Use Prices 10/ (2002 cents per kilowatthour)											
Residential	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
Commercial	6.8	6.8	6.8	6.9	6.9	6.9	7.0	7.0	7.0	6.9	7.0
Industrial	4.5	4.4	4.5	4.5	4.5	4.6	4.6	4.6	4.6	4.6	4.6
Transportation	6.6	6.6	6.7	6.7	6.7	6.7	6.7	6.7	6.6	6.6	6.6
All Sectors Average	6.6	6.5	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.7
Prices by Service Category 10/ (2002 cents per kilowatthour)											
Generation	4.1	4.0	4.1	4.2	4.1	4.2	4.2	4.2	4.2	4.2	4.3
Transmission	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Distribution	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7
Electric Power Sector Emissions 1/											
Sulfur Dioxide (million tons)	9.55	9.37	8.95	8.96	8.91	8.95	8.95	8.95	8.94	8.96	8.94
Nitrogen Oxide (million tons)	3.58	3.60	3.61	3.63	3.64	3.68	3.68	3.71	3.72	3.72	3.75
Mercury (tons)	52.61	52.36	51.69	52.28	52.32	52.67	52.80	53.00	53.41	53.46	53.82

**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	2717	2776	2848	1.8%
Petroleum	455	399	478	8.3%
Natural Gas 3/	735	817	750	2.2%
Nuclear Power	816	816	816	0.2%
Pumped Storage/Other	-9	-9	-9	0.3%
Renewable Sources 4/	448	451	456	1.8%
Distributed Generation (Natural Gas)	6	6	7	N/A
Non-Utility Generation for Own Use	-37	-37	-37	0.5%
Total	5131	5219	5308	1.9%
Combined Heat and Power 5/				
Coal	33	33	34	0.2%
Petroleum	16	13	15	4.0%
Natural Gas	140	142	137	-0.4%
Renewable Sources	4	4	4	-0.7%
Non-Utility Generation for Own Use	-24	-24	-24	3.6%
Total	169	168	165	-0.4%
Net Available to the Grid	5300	5388	5473	1.8%
End-Use Sector Generation				
Combined Heat and Power 6/				
Coal	21	21	21	0.0%
Petroleum	17	17	17	5.5%
Natural Gas	170	177	183	3.4%
Other Gaseous Fuels 7/	13	13	13	4.3%
Renewable Sources 4/	53	54	55	2.7%
Other 8/	11	11	11	0.0%
Total	285	293	301	2.9%
Other End-Use Generators 9/	6	6	6	1.8%
Generation for Own Use	-201	-206	-210	2.0%
Total Sales to the Grid	90	93	97	5.7%
Total Electricity Generation	5652	5748	5842	1.9%
Net Imports	9	8	7	-4.8%
Electricity Sales by Sector				
Residential	1714	1741	1756	1.4%
Commercial	1949	1984	2021	2.3%
Industrial	1391	1415	1444	1.6%

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

	2023	2024	2025	2002- 2025
Transportation	34	35	36	2.1%
Total	5089	5174	5257	1.8%
End-Use Prices 10/ (2002 cents per kilowatthour)				
Residential	7.9	7.9	8.0	-0.2%
Commercial	6.9	7.0	7.1	-0.4%
Industrial	4.5	4.6	4.6	-0.4%
Transportation	6.6	6.6	6.6	-0.4%
All Sectors Average	6.6	6.6	6.7	-0.3%
Prices by Service Category 10/ (2002 cents per kilowatthour)				
Generation	4.2	4.2	4.3	-0.3%
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	8.96	8.94	-0.7%
Nitrogen Oxide (million tons)	3.76	3.79	3.80	-0.6%
Mercury (tons)	54.31	54.28	54.69	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 LW2004.D101703B. Projections: EIA, AEO2004 National Energy Modeling System run LW2004.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	302.6	305.1	303.7	305.5	306.8	309.2
Other Fossil Steam 4/	133.8	132.5	130.1	129.8	127.7	126.0	123.4	122.2	113.0	108.8	107.8
Combined Cycle	43.0	81.0	114.5	120.7	121.4	121.4	121.4	122.6	122.9	126.4	130.0
Combustion Turbine/Diesel	97.3	123.5	129.8	130.3	134.2	133.9	133.3	134.3	128.9	131.6	135.7
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	97.5	98.0	99.5	100.5	101.6
Distributed Generation (Natural Gas) 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.8
Total	788.0	853.1	892.6	898.7	901.1	899.1	901.4	901.8	891.0	895.7	906.1
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	943.8	946.1	944.2	946.4	946.8	936.0	940.5	951.0
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	3.5	3.6	6.0	8.1	10.5
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	0.0	1.2	3.0	6.4	10.1
Combustion Turbine/Diesel	0.0	0.0	0.0	0.3	4.0	4.0	4.0	5.1	6.6	10.4	14.8
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	2.1	2.3	3.6	4.5	5.5

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.8
Total	0.0	0.0	0.0	0.3	4.0	4.0	9.6	12.3	19.6	30.0	41.7
Cumulative Total Additions	0.0	0.0	45.1	53.2	58.6	59.7	66.0	69.0	76.5	87.0	98.8
Cumulative Retirements 10/											
Coal Steam	0.0	0.0	0.4	1.7	2.7	4.2	5.2	6.7	7.4	8.2	8.2
Other Fossil Steam 4/	0.0	0.0	0.5	0.8	2.9	4.6	7.2	8.4	17.6	21.8	22.8
Combined Cycle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.7	1.7
Combustion Turbine/Diesel	0.0	0.0	0.3	0.3	0.6	1.0	1.6	1.6	8.5	9.6	10.0
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewable Sources 6/	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total	0.0	0.0	1.2	3.0	6.3	9.9	14.1	16.8	35.2	41.4	42.8
End-Use Sector Generators											
Combined Heat and Power 11/											
Coal	4.1	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Petroleum	1.0	1.0	1.0	1.0	1.2	1.3	1.3	1.3	1.4	1.5	1.6
Natural Gas	13.9	14.1	14.2	14.6	15.2	15.7	16.1	16.6	17.2	17.8	18.4
Other Gaseous Fuels	1.6	1.8	1.8	1.8	2.0	2.1	2.1	2.1	2.2	2.2	2.2
Renewable Sources 6/	4.0	4.2	4.2	4.5	4.8	5.0	5.2	5.3	5.4	5.7	5.9
Other	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total	24.8	25.5	25.7	26.3	27.7	28.6	29.1	29.8	30.7	31.6	32.6
Other End-Use Generators 12/											
Renewable Sources 13/	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4
Cumulative Additions 9/											
Combined Heat and Power 11/	0.0	0.0	0.2	0.8	2.2	3.1	3.6	4.3	5.2	6.2	7.1
Other End-Use Generators 12/	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.4

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Electric Power Sector 2/											
Power Only 3/											
Coal Steam	310.7	311.0	312.1	314.6	317.7	321.3	325.1	331.3	338.2	346.4	356.0
Other Fossil Steam 4/	107.6	106.9	105.5	104.8	104.0	103.5	103.2	102.8	102.4	102.4	101.4
Combined Cycle	132.3	139.7	148.0	158.0	164.7	170.3	178.1	182.3	190.4	198.4	201.9
Combustion Turbine/Diesel	139.1	146.0	151.0	156.4	161.5	165.4	169.0	170.1	174.4	180.5	181.1
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/	102.2	103.0	103.6	104.3	104.7	105.1	105.6	106.0	106.5	107.0	107.2
Distributed Generation (Natural Gas) 7/	1.1	1.6	2.4	3.3	4.6	6.0	7.4	8.6	9.8	11.1	12.3
Total	914.4	930.0	944.8	963.9	980.0	994.5	1011.4	1024.2	1044.7	1068.7	1083.0
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	959.2	974.9	989.6	1008.7	1024.9	1039.4	1056.3	1069.0	1089.5	1113.6	1127.8
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	12.0	12.3	13.9	16.5	19.5	23.1	28.2	34.4	41.3	50.3	59.9
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	12.4	19.7	28.1	38.1	44.8	50.4	58.1	62.4	70.4	78.4	82.0
Combustion Turbine/Diesel	18.4	25.3	30.4	35.7	40.8	44.8	49.4	51.6	56.7	62.8	63.4
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/	6.1	6.8	7.4	8.0	8.4	8.7	9.2	9.7	10.1	10.6	10.8

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Distributed Generation 7/ Total	1.1	1.6	2.4	3.3	4.6	6.0	7.4	8.6	9.8	11.1	12.3
Cumulative Total Additions	107.1	123.1	139.4	158.9	175.5	190.4	209.8	224.1	245.8	270.7	285.9
Cumulative Retirements 10/ Coal Steam	8.2	8.2	8.7	8.7	8.7	8.7	10.0	10.0	10.0	10.9	10.9
Other Fossil Steam 4/ Combined Cycle	23.0	23.7	25.1	25.8	26.6	27.1	27.4	27.8	28.2	28.2	29.2
Combustion Turbine/Diesel	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Nuclear Power	10.1	10.2	10.2	10.2	10.2	10.2	11.2	12.4	13.1	13.1	13.1
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewable Sources 6/ Total	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	43.2	43.9	45.8	46.6	47.3	47.9	50.4	51.9	53.2	54.0	55.0
End-Use Sector Generators											
Combined Heat and Power 11/ Coal	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Petroleum	1.7	1.8	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.2	2.2
Natural Gas	18.9	19.4	19.9	20.3	21.1	21.7	22.3	23.1	23.8	24.5	25.3
Other Gaseous Fuels	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6
Renewable Sources 6/ Other	6.1	6.4	6.6	6.8	6.9	7.1	7.3	7.4	7.6	7.8	7.9
Total	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	33.5	34.3	35.2	35.9	36.8	37.7	38.6	39.6	40.6	41.5	42.5
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	1.6	1.7
Cumulative Additions 9/ Combined Heat and Power 11/ Other End-Use Generators 12/	8.0	8.8	9.7	10.4	11.3	12.2	13.1	14.1	15.1	16.0	17.0
	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	368.5	376.5	386.3	1.0%
Other Fossil Steam 4/	101.3	101.1	99.8	-1.2%
Combined Cycle	209.3	213.3	218.8	4.4%
Combustion Turbine/Diesel	182.2	183.3	186.0	1.8%
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/	107.6	108.3	109.3	0.8%
Distributed Generation (Natural Gas) 7/	13.5	14.5	15.5	N/A
Total	1105.3	1120.0	1138.7	1.3%
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	1150.2	1164.9	1183.5	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	72.4	80.5	90.5	N/A
Other Fossil Steam 4/	0.0	0.0	0.0	N/A
Combined Cycle	89.3	93.4	98.9	N/A
Combustion Turbine/Diesel	64.9	66.4	69.5	N/A
Nuclear Power	0.0	0.0	0.0	N/A
Pumped Storage	0.0	0.0	0.0	N/A
Fuel Cells	0.0	0.0	0.0	N/A
Renewable Sources 6/	11.1	11.8	12.8	N/A

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

	2023	2024	2025	2002- 2025
Distributed Generation 7/ Total	13.5	14.5	15.5	N/A
Cumulative Total Additions	308.9	324.1	344.8	N/A
Cumulative Retirements 10/ Coal Steam	10.9	10.9	11.1	N/A
Other Fossil Steam 4/ Combined Cycle	29.3	29.5	30.8	N/A
Combustion Turbine/Diesel	1.7	1.7	1.7	N/A
Nuclear Power	13.6	14.0	14.3	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
	55.6	56.1	58.1	N/A
End-Use Sector Generators				
Combined Heat and Power 11/ Coal	4.1	4.1	4.1	0.0%
Petroleum	2.2	2.2	2.2	3.7%
Natural Gas	26.0	26.9	27.8	3.0%
Other Gaseous Fuels	2.6	2.7	2.7	1.8%
Renewable Sources 6/ Other	8.1	8.2	8.4	3.1%
Total	0.3	0.3	0.3	N/A
	43.4	44.5	45.6	2.6%
Other End-Use Generators 12/ Renewable Sources 13/	1.8	1.9	2.1	2.9%
Cumulative Additions 9/ Combined Heat and Power 11/ Other End-Use Generators 12/	17.9	19.0	20.1	N/A
	0.8	0.9	1.0	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 LW2004.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	224.9	215.2	209.5	219.6	220.7	224.2	215.5	207.9	202.3
Gross Domestic Trade	324.8	348.8	361.6	347.6	334.8	336.6	337.7	339.3	329.9	315.0	302.1
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	8907.5	7135.4	6231.8	6393.7	6549.8	6947.5	6732.9	6551.0	6542.6
Gross Domestic Sales (million 2002 dollars)											
	15997.0	13742.1	15730.6	13747.1	12487.4	12234.5	12389.4	12690.7	12442.2	11896.8	11524.8
International Electricity Trade											
Firm Power Imports from Canada & Mexico	12.1	9.5	13.6	11.1	10.7	6.7	6.7	6.7	6.5	5.8	5.2
Economy Imports from Canada & Mexico	26.3	26.8	38.3	35.1	36.7	33.8	32.8	34.5	35.7	40.0	40.6
Gross Imports from Canada & Mexico	38.4	36.3	51.9	46.2	47.4	40.6	39.5	41.2	42.2	45.9	45.8
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	196.2	196.8	192.0	193.7	191.2	183.2	186.9	184.4	188.2	191.1	185.9
Gross Domestic Trade	288.7	282.0	270.0	264.4	254.6	239.3	235.7	229.5	229.7	232.6	227.4
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)											
	6573.4	6769.1	6710.4	7001.8	6603.2	6571.6	6821.6	6727.7	6892.5	6915.1	6792.1
Gross Domestic Sales (million 2002 dollars)											
	11192.1	11024.3	10602.1	10530.1	9767.9	9372.8	9259.4	8983.7	8966.7	8989.3	8866.3
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	38.1	36.1	35.6	37.3	33.4	31.1	27.5	23.5	25.0	21.6	19.0
Gross Imports from Canada & Mexico	42.7	40.0	38.9	40.0	35.4	32.4	28.2	23.9	25.0	21.6	19.1
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	175.3	170.9	169.0	-1.0%
Gross Domestic Trade	216.8	212.5	210.6	-2.2%
Gross Domestic Firm Power Sales				
(million 2002 dollars)	2074.2	2074.2	2074.2	-5.1%
Gross Domestic Economy Sales				
(million 2002 dollars)	6278.1	6140.3	6251.4	-0.4%
Gross Domestic Sales				
(million 2002 dollars)	8352.3	8214.5	8325.6	-2.2%
International Electricity Trade				
Firm Power Imports from Canada & Mexico	0.0	0.0	0.0	-21.9%
Economy Imports from Canada & Mexico	16.8	15.7	14.8	-2.6%
Gross Imports from Canada & Mexico	16.8	15.8	14.8	-3.8%
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 LW2004.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	2012
Crude Oil												
Domestic Crude Production 1/	5.74	5.62	5.68	5.76	5.85	5.83	5.94	5.92	5.84	5.69	5.55	5.43
Alaska	0.96	0.98	0.98	0.91	0.90	0.88	0.90	0.91	0.91	0.89	0.88	0.88
Lower 48 States	4.78	4.64	4.71	4.85	4.96	4.95	5.03	5.01	4.93	4.81	4.67	4.55
Net Imports	9.31	9.13	9.52	9.73	10.14	10.57	10.77	11.08	11.52	12.08	12.52	13.20
Gross Imports	9.33	9.14	9.53	9.74	10.21	10.64	10.85	11.15	11.59	12.14	12.58	13.25
Exports	0.02	0.01	0.01	0.01	0.07	0.07	0.08	0.08	0.07	0.07	0.06	0.05
Other Crude Supply 2/	0.02	0.07	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Crude Supply	15.07	14.83	15.38	15.67	15.99	16.40	16.71	17.00	17.35	17.77	18.08	18.63
Natural Gas Plant Liquids	1.87	1.88	1.72	1.90	2.07	2.08	2.08	2.09	2.10	2.15	2.15	2.14
Other Inputs 3/	0.30	0.67	0.35	0.39	0.39	0.43	0.45	0.46	0.49	0.46	0.43	0.42
Refinery Processing Gain 4/	0.93	0.98	0.93	0.94	0.90	0.89	0.89	0.88	0.89	0.91	0.93	0.96
Net Product Imports 5/	1.59	1.41	1.47	1.68	2.00	2.09	2.20	2.40	2.37	2.35	2.58	2.59
Gross Refined Product Imports 6/	2.08	1.92	2.00	2.09	2.34	2.41	2.47	2.56	2.61	2.57	2.83	2.80
Unfinished Oil Imports	0.38	0.41	0.39	0.50	0.59	0.62	0.67	0.79	0.72	0.75	0.72	0.79
Ether Imports	0.08	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exports	0.95	0.97	0.97	0.97	0.93	0.93	0.94	0.95	0.96	0.97	0.98	1.01
Total Primary Supply 7/	19.75	19.77	19.86	20.57	21.35	21.89	22.33	22.84	23.20	23.65	24.16	24.73
Refined Petroleum Products Supplied												
Motor Gasoline 8/	8.62	8.86	9.04	9.35	9.71	10.00	10.23	10.46	10.69	10.92	11.14	11.37
Jet Fuel 9/	1.66	1.61	1.57	1.62	1.68	1.73	1.77	1.82	1.86	1.91	1.95	2.00
Distillate Fuel 10/	3.88	3.68	3.76	3.86	4.08	4.21	4.33	4.46	4.54	4.67	4.85	5.05
Residual Fuel	0.86	0.74	0.84	0.65	0.84	0.84	0.84	0.87	0.87	0.88	0.90	0.93
Other 11/	4.69	4.72	4.67	4.71	5.05	5.13	5.19	5.26	5.26	5.30	5.35	5.42
Total	19.71	19.61	19.88	20.18	21.37	21.90	22.35	22.86	23.22	23.68	24.19	24.77
Refined Petroleum Products Supplied												
Residential and Commercial	1.23	1.22	1.28	1.32	1.37	1.39	1.42	1.43	1.43	1.44	1.45	1.46
Industrial 12/	4.79	4.80	4.77	4.76	5.09	5.16	5.22	5.28	5.27	5.31	5.36	5.43
Transportation	13.14	13.21	13.40	13.86	14.40	14.83	15.18	15.54	15.89	16.27	16.61	16.96
Electric Generators 13/	0.55	0.38	0.44	0.24	0.50	0.52	0.54	0.62	0.63	0.66	0.77	0.91
Total	19.71	19.61	19.88	20.18	21.37	21.90	22.35	22.86	23.22	23.68	24.19	24.77
Discrepancy 14/	0.04	0.16	-0.02	0.39	-0.01	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03
World Oil Price (2002 dollars per barrel) 15/	22.25	23.68	25.33	16.86	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98
Import Share of Product Supplied	0.55	0.54	0.55	0.57	0.57	0.58	0.58	0.59	0.60	0.61	0.62	0.64
Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2002 dollars)	90.15	90.38	102.74	76.09	76.98	80.61	83.13	86.41	88.96	92.51	97.24	101.17
Domestic Refinery Distillation Capacity 16/	16.8	16.8	17.1	16.9	17.5	17.7	18.0	18.2	18.6	19.0	19.5	20.0
Capacity Utilization Rate (percent)	93.0	91.0	91.0	94.0	92.7	93.8	94.2	94.6	94.4	94.6	94.2	94.5

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Crude Oil												
Domestic Crude Production 1/	5.35	5.28	5.25	5.10	4.91	4.84	4.69	4.51	4.37	4.24	4.25	4.16
Alaska	0.88	0.89	0.87	0.84	0.80	0.76	0.70	0.66	0.61	0.57	0.53	0.49
Lower 48 States	4.48	4.39	4.38	4.26	4.11	4.09	3.98	3.84	3.75	3.67	3.72	3.66
Net Imports	13.78	14.33	14.51	14.79	15.12	15.51	15.94	16.40	16.83	17.29	17.58	17.86
Gross Imports	13.83	14.37	14.56	14.83	15.15	15.53	15.96	16.41	16.84	17.30	17.59	17.87
Exports	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01
Other Crude Supply 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Crude Supply	19.14	19.61	19.76	19.89	20.03	20.35	20.62	20.90	21.20	21.53	21.83	22.02
Natural Gas Plant Liquids	2.14	2.16	2.13	2.15	2.14	2.17	2.23	2.25	2.21	2.21	2.24	2.29
Other Inputs 3/	0.42	0.43	0.43	0.44	0.44	0.44	0.45	0.44	0.45	0.45	0.46	0.47
Refinery Processing Gain 4/	0.98	1.01	1.03	1.04	1.06	1.08	1.08	1.09	1.09	1.10	1.11	1.13
Net Product Imports 5/	2.69	2.68	3.03	3.31	3.59	3.73	3.78	3.93	4.11	4.30	4.40	4.60
Gross Refined Product Imports 6/	2.83	2.78	2.99	3.14	3.30	3.43	3.46	3.60	3.75	3.91	3.95	4.12
Unfinished Oil Imports	0.90	0.94	1.13	1.27	1.41	1.43	1.44	1.47	1.52	1.57	1.62	1.65
Ether Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exports	1.04	1.05	1.09	1.11	1.11	1.13	1.12	1.14	1.16	1.17	1.17	1.18
Total Primary Supply 7/	25.38	25.88	26.38	26.84	27.27	27.77	28.15	28.61	29.06	29.59	30.04	30.49
Refined Petroleum Products Supplied												
Motor Gasoline 8/	11.60	11.80	11.99	12.18	12.35	12.54	12.72	12.92	13.14	13.36	13.60	13.85
Jet Fuel 9/	2.04	2.08	2.11	2.14	2.17	2.21	2.24	2.27	2.30	2.33	2.35	2.38
Distillate Fuel 10/	5.29	5.47	5.67	5.86	5.94	6.09	6.17	6.33	6.46	6.65	6.76	6.85
Residual Fuel	0.95	0.96	0.97	0.95	1.00	1.00	1.02	1.00	1.01	1.01	0.99	1.01
Other 11/	5.53	5.61	5.68	5.75	5.84	5.98	6.05	6.14	6.22	6.31	6.40	6.46
Total	25.41	25.92	26.42	26.88	27.31	27.82	28.20	28.66	29.12	29.65	30.10	30.55
Refined Petroleum Products Supplied												
Residential and Commercial	1.47	1.47	1.48	1.49	1.49	1.50	1.50	1.51	1.51	1.52	1.53	1.54
Industrial 12/	5.55	5.63	5.71	5.76	5.86	6.00	6.07	6.16	6.24	6.33	6.43	6.50
Transportation	17.33	17.65	17.94	18.23	18.52	18.81	19.10	19.40	19.73	20.07	20.42	20.80
Electric Generators 13/	1.07	1.17	1.30	1.40	1.44	1.51	1.53	1.58	1.64	1.73	1.72	1.72
Total	25.41	25.92	26.42	26.88	27.31	27.82	28.20	28.66	29.12	29.65	30.10	30.55
Discrepancy 14/	-0.04	-0.04	-0.04	-0.04	-0.04	-0.05	-0.05	-0.05	-0.06	-0.06	-0.06	-0.06
World Oil Price (2002 dollars per barrel) 15/	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98
Import Share of Product Supplied	0.65	0.66	0.66	0.67	0.69	0.69	0.70	0.71	0.72	0.73	0.73	0.74
Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2002 dollars)	105.25	108.33	111.83	115.93	119.80	122.88	126.13	130.58	134.54	139.07	141.95	145.86
Domestic Refinery Distillation Capacity 16/	20.5	21.0	21.2	21.3	21.5	21.8	22.1	22.4	22.7	23.1	23.4	23.6
Capacity Utilization Rate (percent)	94.6	94.5	94.6	94.6	94.6	94.7	94.7	94.7	94.6	94.7	94.6	94.7

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

	2025	2002- 2025
Crude Oil		
Domestic Crude Production 1/	4.02	-1.5%
Alaska	0.46	-3.2%
Lower 48 States	3.55	-1.2%
Net Imports	18.21	3.0%
Gross Imports	18.22	3.0%
Exports	0.01	0.5%
Other Crude Supply 2/	0.00	N/A
Total Crude Supply	22.23	1.8%
Natural Gas Plant Liquids	2.24	0.8%
Other Inputs 3/	0.48	-1.5%
Refinery Processing Gain 4/	1.13	0.6%
Net Product Imports 5/	5.07	5.7%
Gross Refined Product Imports 6/	4.60	3.9%
Unfinished Oil Imports	1.68	6.3%
Ether Imports	0.00	N/A
Exports	1.21	0.9%
Total Primary Supply 7/	31.14	2.0%
Refined Petroleum Products Supplied		
Motor Gasoline 8/	14.12	2.0%
Jet Fuel 9/	2.40	1.7%
Distillate Fuel 10/	7.11	2.9%
Residual Fuel	1.02	1.4%
Other 11/	6.55	1.4%
Total	31.20	2.0%
Refined Petroleum Products Supplied		
Residential and Commercial	1.54	1.0%
Industrial 12/	6.59	1.4%
Transportation	21.19	2.1%
Electric Generators 13/	1.88	7.2%
Total	31.20	2.0%
Discrepancy 14/	-0.06	N/A
World Oil Price (2002 dollars per barrel) 15/	16.98	-1.4%
Import Share of Product Supplied	0.75	1.4%
Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2002 dollars)	152.32	2.3%
Domestic Refinery Distillation Capacity 16/	23.8	1.5%
Capacity Utilization Rate (percent)	94.8	0.2%

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

1/ Includes lease condensate.

2/ Strategic petroleum reserve stock additions plus unaccounted for crude oil and crude stock withdrawals minus crude product supplied.

3/ Includes alcohols, ethers, petroleum product stock withdrawals, domestic sources of blending components, other hydrocarbons, natural gas converted to liquid fuel, and coal converted to liquid fuel.

4/ Represents volumetric gain in refinery distillation and cracking processes.

5/ Includes net imports of finished petroleum products, unfinished oils, other hydrocarbons, alcohols, ethers, and blending components.

6/ Includes other hydrocarbons, alcohols, and blending components.

7/ Total crude supply plus natural gas plant liquids, other inputs, refinery processing gain, and net product imports.

8/ Includes ethanol and ethers blended into gasoline.

9/ Includes only kerosene type.

10/ Includes distillate and kerosene.

11/ Includes aviation gasoline, liquefied petroleum gas, petrochemical feedstocks, lubricants, waxes, asphalt, road oil, still gas, special naphthas, petroleum coke, crude oil product supplied, and miscellaneous petroleum products.

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

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

14/ Balancing item. Includes unaccounted for supply, losses and gains.

15/ Average refiner acquisition cost for imported crude oil.

16/ End-of-year capacity.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

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

Other 2001 data: EIA, Petroleum Supply Annual 2001, DOE/EIA-0340(2001)/1 (Washington, DC, June 2002). Other 2002 data: EIA, Petroleum Supply Annual 2002, DOE/EIA-0340(2002)/1 (Washington, DC, June 2003). Projections: EIA, AEO2004 National Energy Modeling System run LW2004.D101703B.

**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	25.33	16.86	16.98	16.98	16.98	16.98	16.98	16.98	16.98
Delivered Sector Product Prices											
Residential											
Distillate Fuel	126.1	114.2	126.3	115.2	96.5	94.6	94.0	94.2	94.1	93.6	93.8
Liquefied Petroleum Gas	129.1	110.8	141.4	138.6	104.4	104.8	105.0	105.1	105.1	105.2	105.4
Commercial											
Distillate Fuel	88.5	84.1	93.1	84.9	63.1	61.3	60.8	60.9	60.8	60.4	60.7
Residual Fuel	52.5	63.1	74.4	61.9	45.6	45.6	45.5	45.6	45.5	45.5	45.6
Residual Fuel (2002 dollars per barrel)	22.07	26.48	31.23	25.98	19.16	19.17	19.13	19.13	19.13	19.12	19.13
Industrial 1/											
Distillate Fuel	91.8	86.2	95.2	86.9	65.3	63.6	63.3	63.4	63.3	63.1	63.6
Liquefied Petroleum Gas	107.1	71.1	90.6	88.6	67.4	66.9	67.4	67.8	67.4	67.1	67.5
Residual Fuel	49.6	58.3	68.8	57.2	40.0	39.9	39.8	39.9	39.8	39.9	39.9
Residual Fuel (2002 dollars per barrel)	20.82	24.48	28.89	24.04	16.80	16.76	16.73	16.75	16.73	16.75	16.75
Transportation											
Diesel Fuel (Distillate) 2/	141.0	130.6	144.3	131.8	118.0	122.9	125.2	126.4	125.0	124.7	125.7
Jet Fuel 3/	84.7	80.6	90.7	85.4	66.1	63.3	61.6	62.1	62.1	62.0	62.8
Motor Gasoline 4/	148.6	138.1	155.2	141.5	131.8	130.5	131.8	130.3	130.0	129.3	129.2
Liquefied Petroleum Gas	146.9	128.7	141.3	141.2	114.8	115.6	115.7	115.5	115.1	114.9	114.7
Residual Fuel	59.0	56.5	66.7	55.4	37.1	37.0	37.0	37.0	36.9	36.9	36.9
Residual Fuel (2002 dollars per barrel)	24.80	23.71	28.00	23.28	15.60	15.55	15.53	15.52	15.51	15.49	15.48
Ethanol (E85) 5/	148.1	135.8	150.5	150.5	137.3	136.8	138.6	138.8	138.2	138.4	139.8
Electric Generators 6/											
Distillate Fuel	86.5	77.4	85.6	77.9	55.8	53.6	53.7	53.4	52.9	52.6	52.8
Residual Fuel	68.1	60.4	69.6	60.0	42.9	42.9	42.9	42.8	42.8	42.8	42.6
Residual Fuel (2002 dollars per barrel)	28.61	25.38	29.25	25.18	18.01	18.00	18.00	17.99	17.96	17.96	17.90
Refined Petroleum Product Prices 7/											
Distillate Fuel	126.8	118.1	130.2	119.3	102.3	104.7	106.0	106.4	105.7	105.3	105.3
Jet Fuel 3/	84.7	80.6	90.7	85.4	66.1	63.3	61.6	62.1	62.1	62.0	62.8
Liquefied Petroleum Gas	111.5	79.6	101.4	99.2	75.5	75.3	75.8	76.1	75.9	75.7	76.0
Motor Gasoline 4/	148.5	138.1	155.2	141.4	131.8	130.5	131.8	130.3	130.0	129.3	129.2
Residual Fuel	62.2	58.6	68.6	57.4	40.4	40.3	40.3	40.3	40.3	40.3	40.3
Residual Fuel (2002 dollars per barrel)	26.14	24.62	28.83	24.10	16.97	16.93	16.91	16.93	16.92	16.92	16.92
Average	126.7	116.1	131.6	121.7	106.8	106.6	107.5	106.9	106.7	106.3	106.3

**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)	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98
Delivered Sector Product Prices											
Residential											
Distillate Fuel	93.9	94.3	94.5	95.2	96.5	97.0	97.1	97.4	98.2	97.0	98.2
Liquefied Petroleum Gas	105.5	105.8	106.0	106.2	106.6	106.7	106.8	106.8	106.5	106.6	106.2
Commercial											
Distillate Fuel	60.7	61.1	61.4	61.9	63.2	63.6	64.1	64.2	64.9	63.3	64.3
Residual Fuel	45.6	45.7	45.6	45.6	45.5	45.6	45.5	45.5	45.4	45.5	45.4
Residual Fuel (2002 dollars per barrel)	19.15	19.18	19.15	19.14	19.11	19.13	19.12	19.13	19.09	19.09	19.09
Industrial 1/											
Distillate Fuel	63.6	64.0	64.3	64.8	66.1	66.6	67.3	67.3	68.0	66.2	67.1
Liquefied Petroleum Gas	67.9	68.0	67.8	68.1	68.6	68.6	68.7	68.9	68.8	68.3	68.7
Residual Fuel	39.9	39.9	39.8	39.8	39.8	39.9	39.8	39.8	39.7	39.7	39.7
Residual Fuel (2002 dollars per barrel)	16.75	16.75	16.74	16.73	16.71	16.74	16.73	16.72	16.68	16.68	16.68
Transportation											
Diesel Fuel (Distillate) 2/	125.2	124.3	123.7	123.2	124.0	123.0	121.7	121.1	120.6	117.7	119.3
Jet Fuel 3/	62.4	62.3	62.0	61.9	63.0	63.0	63.1	62.8	63.3	61.6	62.7
Motor Gasoline 4/	128.6	127.9	127.2	127.2	127.0	126.8	126.8	126.1	125.4	124.7	124.2
Liquefied Petroleum Gas	114.6	114.8	114.9	114.8	114.9	114.6	114.5	114.1	113.0	112.8	112.4
Residual Fuel	36.9	36.8	36.8	36.7	36.7	36.7	36.7	36.7	36.6	36.6	36.5
Residual Fuel (2002 dollars per barrel)	15.48	15.46	15.44	15.43	15.41	15.42	15.40	15.40	15.38	15.37	15.35
Ethanol (E85) 5/	140.9	141.2	141.5	141.8	142.1	142.4	143.1	149.3	146.1	146.4	146.8
Electric Generators 6/											
Distillate Fuel	52.9	53.6	54.2	54.7	56.4	56.6	57.2	57.3	58.1	57.0	58.0
Residual Fuel	42.7	42.7	42.7	42.7	42.7	42.7	42.8	42.8	42.8	42.8	42.8
Residual Fuel (2002 dollars per barrel)	17.95	17.95	17.94	17.94	17.95	17.94	17.96	17.98	17.97	17.98	17.99
Refined Petroleum Product Prices 7/											
Distillate Fuel	104.0	102.5	101.6	100.7	101.2	100.9	100.1	99.8	99.5	97.1	98.1
Jet Fuel 3/	62.4	62.3	62.0	61.9	63.0	63.0	63.1	62.8	63.3	61.6	62.7
Liquefied Petroleum Gas	76.4	76.5	76.4	76.6	77.1	77.1	77.1	77.2	77.0	76.6	76.9
Motor Gasoline 4/	128.6	127.9	127.2	127.2	127.0	126.8	126.8	126.1	125.4	124.7	124.2
Residual Fuel	40.4	40.4	40.4	40.4	40.3	40.4	40.4	40.5	40.4	40.4	40.4
Residual Fuel (2002 dollars per barrel)	16.96	16.98	16.97	16.97	16.94	16.99	16.99	17.01	16.96	16.97	16.97
Average	105.7	105.0	104.5	104.3	104.5	104.3	104.1	103.7	103.4	102.3	102.5

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

	2023	2024	2025	2002- 2025
World Oil Price (2002 dollars per barrel)	16.98	16.98	16.98	-1.4%
Delivered Sector Product Prices				
Residential				
Distillate Fuel	97.2	97.3	98.9	-0.6%
Liquefied Petroleum Gas	106.5	106.4	106.7	-0.2%
Commercial				
Distillate Fuel	63.4	63.6	65.1	-1.1%
Residual Fuel	45.4	45.3	45.3	-1.4%
Residual Fuel (2002 dollars per barrel)	19.05	19.04	19.03	-1.4%
Industrial 1/				
Distillate Fuel	66.4	66.6	68.1	-1.0%
Liquefied Petroleum Gas	68.6	68.1	68.8	-0.1%
Residual Fuel	39.6	39.6	39.7	-1.7%
Residual Fuel (2002 dollars per barrel)	16.64	16.64	16.68	-1.7%
Transportation				
Diesel Fuel (Distillate) 2/	118.7	117.8	117.3	-0.5%
Jet Fuel 3/	62.0	62.1	62.8	-1.1%
Motor Gasoline 4/	124.0	123.7	123.5	-0.5%
Liquefied Petroleum Gas	112.5	112.1	112.2	-0.6%
Residual Fuel	36.5	36.5	36.5	-1.9%
Residual Fuel (2002 dollars per barrel)	15.32	15.32	15.31	-1.9%
Ethanol (E85) 5/	147.2	147.6	148.1	0.4%
Electric Generators 6/				
Distillate Fuel	57.2	57.5	58.9	-1.2%
Residual Fuel	42.8	42.8	42.8	-1.5%
Residual Fuel (2002 dollars per barrel)	17.97	17.99	17.99	-1.5%
Refined Petroleum Product Prices 7/				
Distillate Fuel	97.6	97.4	97.1	-0.8%
Jet Fuel 3/	62.0	62.1	62.8	-1.1%
Liquefied Petroleum Gas	76.8	76.4	76.9	-0.1%
Motor Gasoline 4/	124.0	123.7	123.5	-0.5%
Residual Fuel	40.3	40.3	40.4	-1.6%
Residual Fuel (2002 dollars per barrel)	16.92	16.94	16.95	-1.6%
Average	102.2	102.1	102.1	-0.6%

**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 LW2004.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	19.58	19.60	19.19	19.30	19.49	19.68	19.79	20.26	20.30
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	3.50	3.58	3.79	4.18	4.19	4.58	4.70	4.91	5.18
Canada	3.56	3.59	3.39	3.48	3.40	3.35	3.33	3.44	3.58	3.70	3.63
Mexico	-0.13	-0.26	-0.31	-0.42	-0.43	-0.45	-0.46	-0.48	-0.51	-0.45	-0.39
Liquefied Natural Gas	0.17	0.17	0.43	0.52	0.81	1.27	1.32	1.62	1.62	1.66	1.94
Total Supply	23.39	22.62	23.16	23.26	23.07	23.57	23.78	24.36	24.59	25.26	25.58
Consumption by Sector											
Residential	4.78	4.92	5.07	5.19	5.22	5.31	5.38	5.44	5.49	5.55	5.60
Commercial	3.24	3.12	3.17	3.11	3.18	3.26	3.32	3.37	3.42	3.48	3.53
Industrial 3/	7.35	7.23	7.21	7.57	7.56	7.70	7.81	7.87	8.04	8.24	8.40
Electric Generators 4/	5.38	5.55	4.98	5.70	5.39	5.53	5.47	5.81	5.72	5.98	6.04
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	0.63	0.63	0.63	0.64	0.64	0.66	0.66
Lease and Plant Fuel 6/	1.09	1.32	1.00	0.99	1.04	1.10	1.16	1.22	1.28	1.35	1.36
Total	22.48	22.78	22.10	23.24	23.06	23.57	23.80	24.39	24.63	25.32	25.64
Gas to Liquids	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Discrepancy 7/	0.92	-0.16	1.06	0.02	0.01	-0.01	-0.02	-0.03	-0.05	-0.06	-0.06

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Production											
Dry Gas Production 1/	20.30	20.40	20.72	20.57	20.88	20.83	21.14	21.82	22.15	22.12	22.18
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	5.52	5.68	5.67	5.92	5.94	6.48	6.50	6.26	6.29	6.49	6.53
Canada	3.62	3.55	3.47	3.40	3.29	3.18	3.05	2.91	2.88	2.86	2.80
Mexico	-0.32	-0.32	-0.31	-0.25	-0.20	-0.15	-0.16	-0.16	-0.16	-0.16	-0.16
Liquefied Natural Gas	2.23	2.45	2.51	2.77	2.85	3.45	3.60	3.51	3.58	3.79	3.89
Total Supply	25.91	26.18	26.48	26.58	26.92	27.40	27.73	28.17	28.54	28.70	28.80
Consumption by Sector											
Residential	5.65	5.66	5.69	5.72	5.79	5.82	5.86	5.90	5.96	6.00	6.04
Commercial	3.56	3.58	3.61	3.63	3.69	3.71	3.74	3.79	3.83	3.88	3.91
Industrial 3/	8.49	8.60	8.68	8.74	8.92	9.04	9.07	9.18	9.32	9.43	9.56
Electric Generators 4/	6.20	6.30	6.44	6.43	6.52	6.78	6.95	7.09	7.12	7.09	6.96
Transportation 5/	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10
Pipeline Fuel	0.66	0.66	0.67	0.66	0.67	0.67	0.67	0.72	0.75	0.75	0.76
Lease and Plant Fuel 6/	1.36	1.37	1.39	1.39	1.41	1.41	1.43	1.48	1.52	1.53	1.54
Total	25.98	26.25	26.55	26.66	27.09	27.51	27.81	28.25	28.60	28.77	28.87
Gas to Liquids	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Discrepancy 7/	-0.07	-0.07	-0.08	-0.08	-0.17	-0.11	-0.08	-0.08	-0.06	-0.07	-0.07

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

	2023	2024	2025	2002- 2025
Production				
Dry Gas Production 1/	22.45	22.95	22.48	0.7%
Supplemental Natural Gas 2/	0.10	0.10	0.10	0.8%
Net Imports	6.45	6.41	6.77	2.9%
Canada	2.75	2.79	2.87	-1.0%
Mexico	-0.16	-0.15	-0.13	-2.9%
Liquefied Natural Gas	3.85	3.78	4.03	14.9%
Total Supply	29.00	29.46	29.35	1.1%
Consumption by Sector				
Residential	6.08	6.13	6.14	1.0%
Commercial	3.95	4.00	4.02	1.1%
Industrial 3/	9.71	9.88	10.00	1.4%
Electric Generators 4/	6.89	7.08	6.81	0.9%
Transportation 5/	0.10	0.11	0.11	9.5%
Pipeline Fuel	0.77	0.78	0.77	0.9%
Lease and Plant Fuel 6/	1.55	1.58	1.56	0.7%
Total	29.06	29.56	29.43	1.1%
Gas to Liquids	0.00	0.00	0.00	N/A
Discrepancy 7/	-0.06	-0.10	-0.08	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 report

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 LW2004.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	4.82	3.82	3.42	3.31	3.37	3.51	3.36	3.34	3.48
Average Import Price	4.49	3.14	5.33	3.89	3.48	3.41	3.45	3.54	3.54	3.57	3.70
Average 2/	4.20	2.98	4.91	3.84	3.43	3.33	3.39	3.52	3.40	3.39	3.53
Delivered Prices											
Residential	9.79	7.86	9.22	9.01	8.48	8.24	8.13	8.10	7.89	7.79	7.88
Commercial	8.67	6.55	8.24	7.73	7.21	7.01	6.95	6.96	6.79	6.72	6.83
Industrial 3/	5.04	3.85	5.69	4.57	4.14	4.03	4.08	4.20	4.09	4.08	4.20
Electric Generators 4/	5.40	3.85	5.66	4.53	4.08	3.97	4.00	4.12	4.01	3.99	4.10
Transportation 5/	8.94	7.58	9.63	8.42	7.98	7.98	8.12	8.29	8.26	8.33	8.47
Average 6/	6.81	5.21	6.97	6.09	5.66	5.50	5.50	5.55	5.41	5.35	5.46
Transmission & Distribution Margins 7/											
Residential	5.59	4.88	4.31	5.17	5.05	4.91	4.75	4.58	4.49	4.39	4.35
Commercial	4.47	3.56	3.33	3.89	3.78	3.68	3.56	3.44	3.39	3.33	3.30
Industrial 3/	0.84	0.87	0.78	0.73	0.71	0.70	0.69	0.68	0.69	0.69	0.67
Electric Generators 4/	1.20	0.86	0.75	0.70	0.65	0.64	0.61	0.61	0.61	0.60	0.57
Transportation 5/	4.74	4.60	4.72	4.59	4.55	4.65	4.73	4.77	4.86	4.94	4.94
Average 6/	2.61	2.23	2.05	2.26	2.22	2.17	2.11	2.03	2.01	1.96	1.93
Transmission & Distribution Revenue (billion 2002 dollars)											
Residential	26.74	24.02	21.84	26.83	26.35	26.07	25.51	24.93	24.64	24.40	24.34
Commercial	14.49	11.12	10.54	12.12	12.02	12.01	11.84	11.60	11.60	11.60	11.64
Industrial 3/	6.20	6.27	5.62	5.55	5.38	5.38	5.40	5.39	5.56	5.66	5.62
Electric Generators 4/	6.46	4.78	3.71	3.97	3.50	3.56	3.35	3.52	3.48	3.57	3.43
Transportation 5/	0.05	0.06	0.10	0.12	0.14	0.17	0.20	0.22	0.25	0.28	0.31
Total	53.93	46.25	41.80	48.59	47.39	47.19	46.29	45.66	45.53	45.51	45.34

**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/	3.61	3.70	3.74	3.80	3.91	3.90	3.91	3.97	3.91	3.97	3.96
Average Import Price	3.81	3.95	4.14	4.16	4.27	4.28	4.27	4.27	4.15	4.19	4.22
Average 2/	3.66	3.76	3.84	3.89	4.00	4.00	4.00	4.05	3.97	4.02	4.03
Delivered Prices											
Residential	7.97	8.06	8.12	8.12	8.19	8.17	8.18	8.18	8.06	8.08	8.10
Commercial	6.94	7.03	7.11	7.12	7.21	7.20	7.21	7.23	7.12	7.15	7.17
Industrial 3/	4.32	4.40	4.48	4.54	4.64	4.63	4.64	4.71	4.64	4.68	4.68
Electric Generators 4/	4.22	4.32	4.40	4.54	4.37	4.53	4.54	4.60	4.50	4.54	4.54
Transportation 5/	8.60	8.71	8.78	8.80	8.88	8.89	8.90	8.89	8.78	8.79	8.79
Average 6/	5.56	5.64	5.71	5.77	5.79	5.81	5.82	5.85	5.76	5.80	5.81
Transmission & Distribution Margins 7/											
Residential	4.32	4.30	4.28	4.23	4.19	4.17	4.17	4.13	4.09	4.06	4.07
Commercial	3.28	3.27	3.27	3.23	3.21	3.20	3.21	3.18	3.15	3.12	3.14
Industrial 3/	0.66	0.64	0.64	0.64	0.64	0.63	0.64	0.66	0.67	0.66	0.66
Electric Generators 4/	0.56	0.56	0.57	0.65	0.37	0.54	0.53	0.55	0.54	0.52	0.51
Transportation 5/	4.94	4.95	4.94	4.91	4.89	4.89	4.89	4.84	4.82	4.76	4.77
Average 6/	1.91	1.89	1.88	1.88	1.79	1.81	1.81	1.81	1.79	1.77	1.78
Transmission & Distribution Revenue (billion 2002 dollars)											
Residential	24.38	24.32	24.38	24.19	24.27	24.27	24.44	24.36	24.38	24.33	24.59
Commercial	11.68	11.72	11.81	11.74	11.84	11.88	12.01	12.04	12.07	12.12	12.30
Industrial 3/	5.59	5.54	5.55	5.64	5.71	5.73	5.79	6.07	6.23	6.20	6.27
Electric Generators 4/	3.49	3.55	3.64	4.19	2.40	3.63	3.71	3.89	3.82	3.67	3.56
Transportation 5/	0.33	0.36	0.38	0.39	0.41	0.43	0.44	0.45	0.46	0.47	0.49
Total	45.47	45.49	45.76	46.15	44.63	45.93	46.39	46.81	46.96	46.79	47.21

**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/	3.98	4.11	4.30	1.7%
Average Import Price	4.24	4.33	4.47	1.5%
Average 2/	4.04	4.16	4.34	1.6%
Delivered Prices				
Residential	8.13	8.25	8.40	0.3%
Commercial	7.20	7.32	7.47	0.6%
Industrial 3/	4.69	4.81	4.99	1.1%
Electric Generators 4/	4.55	4.67	4.83	1.0%
Transportation 5/	8.82	8.91	9.01	0.8%
Average 6/	5.83	5.94	6.12	0.7%
Transmission & Distribution Margins 7/				
Residential	4.09	4.09	4.06	-0.8%
Commercial	3.16	3.16	3.13	-0.6%
Industrial 3/	0.65	0.65	0.65	-1.3%
Electric Generators 4/	0.51	0.51	0.49	-2.4%
Transportation 5/	4.77	4.75	4.66	0.1%
Average 6/	1.79	1.78	1.77	-1.0%
Transmission & Distribution Revenue (billion 2002 dollars)				
Residential	24.83	25.07	24.91	0.2%
Commercial	12.48	12.63	12.57	0.5%
Industrial 3/	6.31	6.43	6.47	0.1%
Electric Generators 4/	3.50	3.63	3.32	-1.6%
Transportation 5/	0.50	0.51	0.52	9.5%
Total	47.62	48.27	47.79	0.1%

**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 LW2004.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	16.46	16.32	16.35	16.35	16.36	16.36	16.68
Production (million barrels per day) 2/											
U.S. Total	5.74	5.62	5.68	5.76	5.85	5.83	5.94	5.92	5.84	5.69	5.55
Lower 48 Onshore	3.14	3.11	2.93	2.95	2.90	2.74	2.66	2.58	2.51	2.45	2.39
Lower 48 Offshore	1.64	1.53	1.78	1.90	2.05	2.21	2.38	2.42	2.41	2.35	2.28
Alaska	0.96	0.98	0.98	0.91	0.90	0.88	0.90	0.91	0.91	0.89	0.88
Lower 48 End of Year Reserves (billion barrels) 2/	19.14	19.05	19.23	18.95	18.17	18.02	18.18	18.06	17.80	17.43	17.09
Natural Gas											
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	4.14	2.95	4.82	3.82	3.42	3.31	3.37	3.51	3.36	3.34	3.48
Dry Production (trillion cubic feet) 3/											
U.S. Total	19.70	19.05	19.59	19.60	19.19	19.30	19.50	19.68	19.80	20.26	20.31
Lower 48 Onshore	13.90	13.76	13.84	13.98	13.68	13.78	13.80	14.08	14.15	14.21	14.33
Associated-Dissolved 4/	1.63	1.60	1.54	1.54	1.52	1.47	1.44	1.41	1.38	1.35	1.33
Non-Associated	12.27	12.16	12.31	12.44	12.15	12.31	12.36	12.67	12.77	12.86	13.00
Conventional	6.62	6.23	6.08	6.29	6.12	6.00	5.85	5.83	5.71	5.70	5.65
Unconventional	5.65	5.93	6.23	6.15	6.03	6.31	6.51	6.84	7.06	7.16	7.34
Lower 48 Offshore	5.37	4.86	5.23	5.08	4.96	4.95	5.12	5.02	5.06	5.44	5.37
Associated-Dissolved 4/	1.15	1.05	1.13	1.16	1.15	1.16	1.48	1.76	1.69	1.61	1.51
Non-Associated	4.21	3.81	4.10	3.92	3.80	3.80	3.65	3.26	3.37	3.84	3.85
Alaska	0.44	0.43	0.51	0.54	0.56	0.57	0.58	0.59	0.59	0.60	0.61
Lower 48 End of Year Dry Reserves (tcf) 3/	174.66	180.03	182.42	186.78	189.99	192.23	192.38	193.88	195.54	196.17	196.61
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	28.17	27.28	24.35	23.22	22.90	23.46	22.97	22.80	22.94

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)	16.32	16.44	16.64	16.51	16.78	16.48	16.85	16.39	16.82	16.33	16.40
Production (million barrels per day) 2/											
U.S. Total	5.43	5.35	5.28	5.25	5.10	4.91	4.84	4.69	4.51	4.37	4.24
Lower 48 Onshore	2.35	2.29	2.25	2.21	2.17	2.13	2.09	2.07	2.03	2.00	1.97
Lower 48 Offshore	2.20	2.18	2.14	2.17	2.10	1.98	1.99	1.92	1.82	1.75	1.70
Alaska	0.88	0.88	0.89	0.87	0.84	0.80	0.76	0.70	0.66	0.61	0.57
Lower 48 End of Year Reserves (billion barrels) 2/	16.69	16.47	16.22	16.14	15.84	15.52	15.31	15.16	14.98	14.73	14.51
Natural Gas											
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	3.61	3.70	3.74	3.80	3.91	3.90	3.91	3.97	3.91	3.97	3.96
Dry Production (trillion cubic feet) 3/											
U.S. Total	20.30	20.40	20.72	20.57	20.88	20.83	21.14	21.82	22.15	22.12	22.18
Lower 48 Onshore	14.49	14.67	14.99	15.05	15.47	15.51	15.74	15.59	15.18	15.31	15.40
Associated-Dissolved 4/	1.31	1.29	1.27	1.25	1.24	1.22	1.21	1.19	1.18	1.17	1.15
Non-Associated	13.18	13.38	13.72	13.80	14.23	14.29	14.54	14.40	14.00	14.15	14.25
Conventional	5.66	5.67	5.71	5.65	5.75	5.67	5.73	5.71	5.57	5.62	5.60
Unconventional	7.51	7.71	8.01	8.15	8.48	8.62	8.81	8.69	8.43	8.52	8.65
Lower 48 Offshore	5.20	5.11	5.10	4.88	4.77	4.66	4.74	4.76	4.68	4.50	4.47
Associated-Dissolved 4/	1.43	1.35	1.34	1.33	1.38	1.38	1.31	1.30	1.28	1.20	1.16
Non-Associated	3.77	3.75	3.76	3.55	3.38	3.28	3.43	3.45	3.40	3.31	3.32
Alaska	0.62	0.63	0.63	0.64	0.65	0.66	0.66	1.48	2.29	2.30	2.31
Lower 48 End of Year Dry Reserves (tcf) 3/	197.13	198.28	198.41	198.07	197.54	197.69	196.58	195.92	194.25	193.11	192.19
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)	23.12	23.85	24.25	24.48	24.73	24.70	24.84	24.75	24.56	24.45	24.25

Table 15. Oil and Gas Supply

	2023	2024	2025	2002- 2025
Crude Oil				
Lower 48 Average Wellhead Price 1/ (2002 dollars per barrel)	16.46	16.50	16.49	-1.7%
Production (million barrels per day) 2/				
U.S. Total	4.25	4.16	4.02	-1.5%
Lower 48 Onshore	1.93	1.90	1.87	-2.2%
Lower 48 Offshore	1.79	1.76	1.68	0.4%
Alaska	0.53	0.49	0.46	-3.2%
Lower 48 End of Year Reserves (billion barrels) 2/	14.30	13.99	13.64	-1.4%
Natural Gas				
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	3.98	4.11	4.30	1.7%
Dry Production (trillion cubic feet) 3/				
U.S. Total	22.46	22.95	22.48	0.7%
Lower 48 Onshore	15.50	15.76	15.56	0.5%
Associated-Dissolved 4/	1.14	1.13	1.11	-1.6%
Non-Associated	14.36	14.64	14.45	0.8%
Conventional	5.60	5.73	5.60	-0.5%
Unconventional	8.76	8.91	8.85	1.8%
Lower 48 Offshore	4.64	4.87	4.59	-0.2%
Associated-Dissolved 4/	1.11	1.20	1.16	0.5%
Non-Associated	3.53	3.67	3.43	-0.5%
Alaska	2.32	2.32	2.33	7.6%
Lower 48 End of Year Dry Reserves (tcf) 3/	191.95	189.16	186.21	0.1%
Supplemental Gas Supplies (tcf) 5/	0.10	0.10	0.10	0.8%
Lower 48 Wells (thousands)	24.34	24.41	24.60	0.0%

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 LW2004.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	391	396	399	409	421	420	424	421	419
Interior	147	147	157	156	170	171	173	177	175	169	171
West	548	550	549	568	578	593	610	607	628	641	652
East of the Mississippi	539	504	492	497	509	520	535	538	541	541	542
West of the Mississippi	599	601	604	624	637	654	669	667	685	690	701
Total	1138	1105	1097	1121	1146	1173	1204	1205	1226	1231	1243
Net Imports											
Imports	20	17	21	23	25	27	29	31	32	33	34
Exports	49	40	42	41	40	39	39	37	37	36	34
Total	-29	-23	-21	-18	-15	-12	-9	-7	-5	-2	0
Total Supply 2/	1109	1083	1076	1103	1132	1161	1195	1198	1222	1228	1243
Consumption by Sector											
Residential and Commercial	4	4	5	5	5	5	5	5	5	5	5
Industrial 3/	65	63	64	64	65	65	65	65	64	65	65
of which: Coal to Liquids	0	0	0	0	0	0	0	0	0	0	0
Coke Plants	26	23	25	25	25	25	24	24	24	24	23
Electric Generators 4/	964	976	1003	1004	1037	1067	1101	1105	1129	1135	1150
Total	1060	1066	1097	1098	1131	1161	1195	1198	1222	1229	1243
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	18.02	17.63	17.55	17.30	17.22	17.25	17.15	17.01	16.92
(2002 dollars per million Btu)	0.87	0.87	0.87	0.85	0.85	0.84	0.84	0.84	0.83	0.82	0.82
Delivered Price (2002 dollars per short ton)											
Industrial	32.96	33.24	35.42	34.90	34.31	34.19	34.07	34.20	34.07	34.12	33.97
Coke Plants	46.94	51.27	55.59	55.13	54.19	53.86	53.36	53.43	53.34	53.28	52.99
Electric Generators											
(2002 dollars / short ton)	25.13	25.96	25.14	24.90	24.89	24.70	24.56	24.59	24.56	24.57	24.45
(2002 dollars /million Btu)	1.25	1.26	1.24	1.23	1.23	1.22	1.22	1.22	1.21	1.21	1.21
Average	26.15	26.93	26.44	26.18	26.07	25.85	25.67	25.70	25.63	25.63	25.48
Exports 7/	37.39	40.44	37.48	36.86	36.54	36.28	35.93	36.14	36.12	35.95	36.03

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	410	408	398	401	400	399	402	403	403	406	411
Interior	178	172	164	162	162	161	163	163	165	169	171
West	666	677	703	711	729	742	746	764	780	791	814
East of the Mississippi	532	530	514	516	515	514	519	520	523	530	537
West of the Mississippi	722	727	750	758	775	788	792	810	826	836	860
Total	1254	1258	1264	1274	1290	1302	1312	1329	1349	1366	1396
Net Imports											
Imports	35	36	37	38	38	39	40	40	42	43	44
Exports	32	32	31	32	32	32	32	30	29	27	27
Total	4	4	6	6	6	7	8	10	13	16	16
Total Supply 2/	1258	1262	1270	1280	1297	1309	1320	1340	1362	1382	1413
Consumption by Sector											
Residential and Commercial	5	5	5	5	5	5	5	5	5	5	5
Industrial 3/	65	65	66	66	66	66	66	66	67	67	67
of which: Coal to Liquids	0	0	0	0	0	0	0	0	0	0	0
Coke Plants	23	22	22	21	21	21	20	20	19	19	19
Electric Generators 4/	1166	1170	1178	1189	1204	1218	1229	1249	1272	1292	1323
Total	1258	1262	1270	1281	1295	1310	1320	1340	1363	1382	1413
Discrepancy and Stock Change 5/	0	0	0	-1	1	0	-1	-1	-1	-1	-1
Average Minemouth Price											
(2002 dollars per short ton)	16.72	16.64	16.32	16.19	16.10	15.99	16.01	15.94	16.08	16.26	16.25
(2002 dollars per million Btu)	0.82	0.81	0.80	0.79	0.79	0.78	0.79	0.78	0.79	0.80	0.80
Delivered Price (2002 dollars per short ton)											
Industrial	33.64	33.52	33.45	33.23	33.11	32.92	32.94	32.75	32.93	32.92	32.90
Coke Plants	52.41	52.15	51.99	51.74	51.69	51.39	51.36	50.99	50.18	49.62	49.38
Electric Generators											
(2002 dollars / short ton)	24.19	24.16	23.95	23.75	23.64	23.51	23.52	23.36	23.49	23.61	23.67
(2002 dollars /million Btu)	1.20	1.20	1.19	1.18	1.18	1.17	1.17	1.17	1.17	1.18	1.18
Average	25.19	25.14	24.93	24.71	24.58	24.43	24.42	24.24	24.34	24.42	24.45
Exports 7/	35.13	34.92	35.00	34.89	34.96	34.92	35.04	34.61	34.15	33.15	33.12

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

	2023	2024	2025	2002- 2025
Production 1/				
Appalachia	422	413	420	0.1%
Interior	174	172	171	0.7%
West	837	877	894	2.1%
East of the Mississippi	551	539	547	0.4%
West of the Mississippi	882	922	939	2.0%
Total	1432	1462	1486	1.3%
Net Imports				
Imports	45	45	46	4.4%
Exports	28	28	24	-2.1%
Total	17	18	21	N/A
Total Supply 2/	1449	1479	1507	1.4%
Consumption by Sector				
Residential and Commercial	5	5	5	0.4%
Industrial 3/	67	67	68	0.3%
of which: Coal to Liquids	0	0	0	N/A
Coke Plants	18	18	18	-1.1%
Electric Generators 4/	1360	1390	1418	1.6%
Total	1450	1480	1508	1.5%
Discrepancy and Stock Change 5/	-1	-1	-1	N/A
Average Minemouth Price				
(2002 dollars per short ton)	16.36	16.25	16.35	-0.4%
(2002 dollars per million Btu)	0.80	0.80	0.81	-0.3%
Delivered Price (2002 dollars per short ton)				
Industrial	32.76	32.69	32.64	-0.1%
Coke Plants	48.93	48.42	48.22	-0.3%
Electric Generators				
(2002 dollars / short ton)	23.70	23.69	23.79	-0.4%
(2002 dollars /million Btu)	1.18	1.18	1.19	-0.2%
Average	24.44	24.40	24.47	-0.4%
Exports 7/	33.03	32.80	32.07	-1.0%

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

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

2/ Production plus net imports plus net storage withdrawals.

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

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

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

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

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

N/A = Not applicable.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding. Data for 2001 and 2002 are model results and may differ slightly from official EIA data reports.

Sources: 2001: Energy Information Administration (EIA), Annual Coal Report 2001, DOE/EIA-0584(2001) (Washington, DC, March 2003). 2002 data based on: EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0121(2002/4Q) (Washington, DC, March 2003), EIA, Annual Coal Report 2002, DOE/EIA-0584(2002) (Washington, DC, November 2003), and EIA, AEO2004 National Energy Modeling System run LW2004.D101703B. Projections: EIA, AEO2004 National Energy Modeling System run LW2004.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	2013
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	78.68
Geothermal 2/	2.88	2.89	2.90	2.81	2.90	3.15	3.40	3.63	3.92	4.13	4.41	4.65	4.89
Municipal Solid Waste 3/	3.38	3.49	3.61	3.65	3.66	3.69	3.95	3.98	3.99	3.99	3.99	3.99	3.99
Wood and Other Biomass 4,5/	1.79	1.83	1.85	1.87	1.89	1.99	2.04	2.09	2.14	2.26	2.30	2.30	2.34
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	0.47
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	0.20
Wind	4.15	4.83	6.50	6.62	6.68	6.91	9.10	9.31	10.47	11.14	11.84	12.22	12.70
Total	90.67	91.69	93.66	93.83	94.19	94.96	97.73	98.27	99.79	100.80	101.85	102.49	103.27
Generation (billion kilowatthours)													
Conventional Hydropower	213.75	255.78	269.65	303.07	303.44	304.15	304.43	304.45	304.47	304.38	304.35	304.38	304.42
Geothermal 2/	13.74	13.36	13.82	13.66	14.23	15.95	18.21	20.13	22.49	24.18	26.50	28.43	30.45
Municipal Solid Waste 3/	19.22	20.02	25.58	25.97	26.12	26.30	28.35	28.57	28.66	28.68	28.70	28.71	28.72
Wood and Other Biomass 5/	8.56	8.67	15.72	17.25	17.83	19.25	19.92	21.25	22.02	22.71	23.11	23.15	23.50
Dedicated Plants	7.22	6.32	10.76	11.08	10.63	11.20	11.61	12.00	12.45	12.89	13.29	13.50	13.78
Cofiring	1.34	2.35	4.96	6.17	7.20	8.06	8.31	9.25	9.57	9.82	9.81	9.65	9.71
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	0.94
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	0.49
Wind	6.74	10.51	17.38	19.08	19.40	20.07	27.52	28.56	32.73	35.11	37.73	39.13	40.81
Total	262.55	308.87	342.75	379.67	381.88	386.71	399.48	404.06	411.52	416.26	421.68	425.17	429.33
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	0.25
Biomass	3.80	3.91	3.97	4.27	4.58	4.78	4.90	5.03	5.19	5.41	5.63	5.86	6.11
Total	4.01	4.16	4.23	4.53	4.83	5.03	5.15	5.28	5.45	5.66	5.88	6.11	6.36
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	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	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	0.41
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	1.43
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	2.10
Biomass	26.91	28.16	28.56	30.31	32.11	33.24	33.98	34.71	35.68	36.95	38.21	39.56	41.03
Total	28.68	30.00	30.66	32.41	34.21	35.34	36.08	36.81	37.78	39.05	40.31	41.67	43.13
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	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	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	0.87
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	4.98

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

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
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	0.0%
Geothermal 2/	5.11	5.29	5.44	5.57	5.69	5.94	6.11	6.26	6.34	6.34	6.48	6.69	3.7%
Municipal Solid Waste 3/	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	0.6%
Wood and Other Biomass 4,5/	2.44	2.47	2.51	2.59	2.85	2.93	3.04	3.23	3.26	3.41	3.68	4.20	3.7%
Solar Thermal	0.47	0.47	0.48	0.48	0.49	0.49	0.49	0.50	0.50	0.51	0.51	0.52	1.9%
Solar Photovoltaic 6/	0.22	0.24	0.25	0.27	0.29	0.31	0.32	0.34	0.36	0.38	0.39	0.41	13.5%
Wind	12.96	13.41	13.60	13.74	13.86	13.98	14.11	14.27	14.36	14.58	14.82	15.12	5.1%
Total	103.87	104.55	104.96	105.32	105.85	106.31	106.75	107.27	107.49	107.88	108.56	109.61	0.8%
Generation (billion kilowatthours)													
Conventional Hydropower	304.45	304.48	304.51	304.54	304.57	304.60	304.64	304.67	304.70	304.74	304.77	304.81	0.8%
Geothermal 2/	32.26	33.79	35.07	36.11	37.14	39.11	40.55	41.83	42.52	42.59	43.78	45.35	5.5%
Municipal Solid Waste 3/	28.73	28.74	28.75	28.76	28.76	28.77	28.78	28.79	28.80	28.81	28.82	28.84	1.6%
Wood and Other Biomass 5/	23.70	23.89	24.08	24.71	25.25	25.97	26.12	26.82	27.10	26.42	27.03	28.94	5.4%
Dedicated Plants	14.18	14.48	14.79	15.27	16.50	17.25	18.19	19.21	19.77	20.65	22.02	24.78	6.1%
Cofiring	9.52	9.41	9.28	9.44	8.75	8.73	7.93	7.62	7.33	5.77	5.01	4.16	2.5%
Solar Thermal	0.96	0.97	0.98	1.00	1.01	1.02	1.04	1.05	1.06	1.08	1.09	1.11	3.2%
Solar Photovoltaic 6/	0.53	0.57	0.62	0.66	0.71	0.75	0.79	0.84	0.88	0.93	0.97	1.02	28.8%
Wind	41.77	43.42	44.14	44.66	45.11	45.56	46.02	46.60	46.94	47.75	48.66	49.76	7.0%
Total	432.39	435.87	438.15	440.44	442.55	445.79	447.94	450.60	452.01	452.32	455.13	459.83	1.7%
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	0.0%
Biomass	6.33	6.51	6.68	6.87	7.06	7.19	7.35	7.51	7.67	7.83	7.99	8.17	3.3%
Total	6.58	6.76	6.94	7.13	7.31	7.45	7.60	7.76	7.92	8.08	8.24	8.42	3.1%
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	0.0%
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	N/A
Solar Photovoltaic	0.42	0.42	0.43	0.44	0.47	0.51	0.55	0.62	0.72	0.81	0.92	1.04	14.9%
Total	1.44	1.45	1.45	1.46	1.50	1.54	1.57	1.65	1.74	1.84	1.94	2.06	2.9%
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	0.6%
Biomass	42.33	43.37	44.38	45.49	46.55	47.36	48.24	49.17	50.11	51.07	52.01	53.05	2.8%
Total	44.43	45.47	46.48	47.59	48.65	49.46	50.34	51.28	52.21	53.17	54.12	55.16	2.7%
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	0.0%
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	N/A
Solar Photovoltaic	0.89	0.91	0.92	0.94	1.02	1.10	1.18	1.35	1.54	1.75	1.98	2.23	15.0%
Total	5.00	5.02	5.03	5.05	5.13	5.21	5.29	5.46	5.65	5.86	6.09	6.34	1.8%

**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 LW2004.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	2012
Marketed Renewable Energy 2/												
Residential	0.36	0.39	0.41	0.41	0.40	0.40	0.40	0.41	0.40	0.40	0.40	0.41
Wood	0.36	0.39	0.41	0.41	0.40	0.40	0.40	0.41	0.40	0.40	0.40	0.41
Commercial	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Biomass	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Industrial 3/	1.64	1.66	1.66	1.73	1.80	1.85	1.88	1.91	1.95	2.01	2.06	2.11
Conventional Hydroelectric	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Biomass	1.59	1.60	1.61	1.68	1.75	1.79	1.83	1.86	1.90	1.96	2.01	2.06
Transportation	0.14	0.17	0.23	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31
Ethanol used in E85 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol used in Gasoline Blending	0.14	0.17	0.23	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31
Electric Generators 5/	3.16	3.69	3.81	4.20	4.23	4.33	4.52	4.61	4.74	4.83	4.94	5.01
Conventional Hydroelectric	2.29	2.75	2.78	3.12	3.12	3.13	3.13	3.13	3.13	3.13	3.13	3.13
Geothermal	0.29	0.30	0.30	0.30	0.32	0.37	0.45	0.51	0.59	0.64	0.71	0.78
Municipal Solid Waste 6/	0.33	0.34	0.35	0.36	0.36	0.36	0.39	0.39	0.39	0.39	0.40	0.40
Biomass	0.15	0.17	0.20	0.22	0.22	0.24	0.25	0.27	0.28	0.29	0.29	0.29
Dedicated Plants	0.12	0.11	0.13	0.13	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.16
Cofiring	0.03	0.06	0.07	0.09	0.10	0.12	0.12	0.13	0.14	0.14	0.14	0.14
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.08	0.13	0.18	0.20	0.20	0.21	0.28	0.29	0.34	0.36	0.39	0.40
Total Marketed Renewable Energy	5.40	6.01	6.22	6.69	6.81	6.95	7.19	7.32	7.49	7.64	7.80	7.94
Sources of Ethanol												
From Corn	0.14	0.17	0.23	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30
From Cellulose	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total	0.14	0.17	0.23	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31
Non-Marketed Renewable Energy												
-- Selected Consumption 7/												
Residential	0.04	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
Solar Hot Water Heating	0.04	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Geothermal Heat Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Commercial	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Thermal	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Marketed Renewable Energy 2/												
Residential	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Wood	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Commercial	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Biomass	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Industrial 3/	2.17	2.22	2.27	2.31	2.37	2.42	2.46	2.50	2.54	2.59	2.63	2.68
Conventional Hydroelectric	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Municipal Solid Waste	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Biomass	2.12	2.17	2.22	2.26	2.32	2.36	2.40	2.45	2.49	2.53	2.58	2.63
Transportation	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.37
Ethanol used in E85 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethanol used in Gasoline Blending	0.31	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.37
Electric Generators 5/	5.10	5.17	5.23	5.28	5.33	5.37	5.45	5.50	5.55	5.58	5.58	5.63
Conventional Hydroelectric	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13
Geothermal	0.84	0.90	0.95	0.99	1.02	1.05	1.12	1.16	1.21	1.23	1.23	1.27
Municipal Solid Waste 6/	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Biomass	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.31	0.32
Dedicated Plants	0.16	0.16	0.17	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25
Cofiring	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.10	0.10	0.09	0.07	0.06
Solar Thermal	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.42	0.43	0.45	0.45	0.46	0.46	0.47	0.47	0.48	0.48	0.49	0.50
Total Marketed Renewable Energy	8.09	8.21	8.33	8.43	8.53	8.63	8.75	8.85	8.95	9.03	9.08	9.19
Sources of Ethanol												
From Corn	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.33
From Cellulose	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04
Total	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.37
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	0.05
Solar Hot Water Heating	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
Geothermal Heat Pumps	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Commercial	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Thermal	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

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

	2025	2002- 2025
Marketed Renewable Energy 2/		
Residential	0.41	0.1%
Wood	0.41	0.1%
Commercial	0.10	0.0%
Biomass	0.10	0.0%
Industrial 3/	2.73	2.2%
Conventional Hydroelectric	0.04	N/A
Municipal Solid Waste	0.01	N/A
Biomass	2.68	2.3%
Transportation	0.38	3.4%
Ethanol used in E85 4/	0.00	N/A
Ethanol used in Gasoline Blending	0.37	3.4%
Electric Generators 5/	5.71	1.9%
Conventional Hydroelectric	3.13	0.6%
Geothermal	1.32	6.7%
Municipal Solid Waste 6/	0.40	0.6%
Biomass	0.33	3.0%
Dedicated Plants	0.28	4.1%
Cofiring	0.05	-0.4%
Solar Thermal	0.02	6.0%
Solar Photovoltaic	0.00	N/A
Wind	0.51	6.3%
Total Marketed Renewable Energy	9.32	1.9%
Sources of Ethanol		
From Corn	0.33	2.8%
From Cellulose	0.05	N/A
Total	0.38	3.4%
Non-Marketed Renewable Energy		
-- Selected Consumption 7/		
Residential	0.05	3.1%
Solar Hot Water Heating	0.04	2.2%
Geothermal Heat Pumps	0.01	8.9%
Solar Photovoltaic	0.00	14.9%
Commercial	0.03	1.4%
Solar Thermal	0.03	0.5%
Solar Photovoltaic	0.01	15.0%

**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 LW2004.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	2012	2013
Residential													
Petroleum	105.6	104.0	104.2	109.2	111.8	114.2	115.1	115.4	115.0	115.0	115.0	115.4	115.0
Natural Gas	259.5	267.2	275.2	281.5	283.5	288.2	291.8	295.5	298.0	301.4	303.9	306.5	307.2
Coal	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1
Electricity	790.8	816.7	826.7	820.6	843.3	862.4	882.3	895.4	906.1	915.1	927.5	943.3	951.7
Total	1157.0	1189.0	1207.3	1212.5	1239.7	1266.0	1290.3	1307.4	1320.3	1332.7	1347.6	1366.4	1375.1
Commercial													
Petroleum	52.9	52.6	60.9	61.5	65.2	66.0	67.7	68.6	69.6	70.7	71.6	72.3	73.2
Natural Gas	165.0	169.4	171.9	169.0	172.7	177.2	180.4	182.7	185.6	188.9	191.3	193.1	194.6
Coal	9.2	9.2	9.3	9.0	9.3	9.4	9.3	9.3	9.3	9.2	9.3	9.3	9.3
Electricity	787.4	778.0	782.3	790.0	828.7	860.3	890.3	910.4	933.1	951.8	974.6	997.5	1018.2
Total	1014.5	1009.1	1024.4	1029.5	1075.8	1112.9	1147.6	1171.0	1197.5	1220.7	1246.8	1272.3	1295.3
Industrial 1/													
Petroleum	409.9	412.8	345.2	338.5	375.1	381.3	384.2	388.6	386.0	385.9	386.4	391.7	399.1
Natural Gas 2/	441.5	432.7	439.1	458.2	460.5	470.8	479.7	486.3	498.3	513.7	522.3	527.2	533.8
Coal	196.8	185.1	195.8	196.4	196.6	195.6	194.7	193.7	193.2	192.5	191.7	190.8	190.0
Electricity	634.1	640.0	630.5	633.8	662.1	678.8	694.2	701.8	710.9	719.5	730.1	740.9	752.6
Total	1682.3	1670.6	1610.7	1626.9	1694.3	1726.5	1752.7	1770.5	1788.4	1811.6	1830.4	1850.7	1875.5
Transportation													
Petroleum 3/	1789.7	1811.2	1848.8	1911.0	1984.1	2042.9	2090.9	2139.9	2189.0	2240.6	2288.2	2337.2	2387.8
Natural Gas 4/	33.9	35.2	36.9	36.7	36.0	36.2	36.5	37.0	37.6	38.8	39.1	39.5	39.8
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	14.2	14.2	14.6	14.7	15.3	15.8	16.2	16.4	16.8	17.0	17.3	17.7	18.0
Total	1837.8	1860.6	1900.4	1962.4	2035.5	2094.9	2143.6	2193.4	2243.4	2296.4	2344.6	2394.4	2445.5
Total by Delivered Fuel													
Petroleum 3/	2358.2	2380.5	2359.2	2420.3	2536.3	2604.3	2657.9	2712.5	2759.5	2812.3	2861.2	2916.6	2975.1
Natural Gas	899.9	904.4	923.1	945.4	952.7	972.4	988.3	1001.6	1019.6	1042.8	1056.6	1066.4	1075.3
Coal	207.1	195.4	206.3	206.6	207.0	206.1	205.2	204.2	203.7	202.9	202.1	201.2	200.4
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	2226.6	2249.0	2254.2	2259.0	2349.4	2417.3	2482.9	2524.1	2566.8	2603.4	2649.4	2699.4	2740.5
Total	5691.7	5729.3	5742.7	5831.3	6045.4	6200.2	6334.3	6442.4	6549.6	6661.3	6769.3	6883.7	6991.4
Electric Power Sector 6/													
Petroleum	99.6	72.2	76.8	41.4	85.5	87.8	91.8	104.5	106.3	111.1	128.4	149.8	175.6
Natural Gas	289.1	299.1	267.7	306.7	290.0	297.7	294.1	312.4	307.7	321.7	325.2	333.5	339.0
Coal	1838.0	1877.8	1909.6	1910.9	1973.8	2031.8	2097.0	2107.2	2152.8	2170.5	2195.9	2216.2	2226.0
Total	2226.6	2249.0	2254.2	2259.0	2349.4	2417.3	2482.9	2524.1	2566.8	2603.4	2649.4	2699.4	2740.5
Total by Primary Fuel 7/													
Petroleum 3/	2457.7	2452.7	2436.0	2461.6	2621.8	2692.2	2749.7	2817.0	2865.8	2923.4	2989.5	3066.4	3150.7
Natural Gas	1189.0	1203.4	1190.9	1252.1	1242.8	1270.1	1282.4	1314.0	1327.3	1364.5	1381.8	1399.9	1414.3
Coal	2045.0	2073.2	2115.9	2117.5	2180.8	2237.9	2302.2	2311.4	2356.5	2373.4	2398.0	2417.4	2426.4
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	5691.7	5729.3	5742.7	5831.3	6045.4	6200.2	6334.3	6442.4	6549.6	6661.3	6769.3	6883.7	6991.4
Carbon Dioxide Emissions (tons per person)	19.9	19.8	19.7	19.8	20.4	20.7	21.0	21.2	21.3	21.5	21.7	21.9	22.1

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

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Residential													
Petroleum	114.9	114.8	114.8	114.1	113.9	113.7	113.8	113.3	113.1	112.9	112.8	112.1	0.3%
Natural Gas	308.9	310.3	314.5	315.9	317.8	320.0	323.6	325.6	327.7	329.8	332.8	333.4	1.0%
Coal	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-0.3%
Electricity	960.4	973.0	984.3	995.8	1006.8	1021.2	1037.9	1049.7	1068.5	1087.9	1105.5	1119.7	1.4%
Total	1385.4	1399.2	1414.6	1427.0	1439.7	1455.9	1476.4	1489.6	1510.5	1531.6	1552.3	1566.3	1.2%
Commercial													
Petroleum	74.0	74.9	75.4	76.0	76.7	77.4	78.3	79.1	80.1	80.9	81.6	82.4	2.0%
Natural Gas	196.2	197.2	200.3	201.3	203.2	205.5	207.8	210.6	212.5	214.5	216.9	218.3	1.1%
Coal	9.3	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	0.0%
Electricity	1035.2	1054.9	1069.9	1094.0	1113.8	1137.0	1160.2	1183.3	1209.7	1236.6	1259.8	1288.7	2.2%
Total	1314.6	1336.2	1354.9	1380.6	1403.0	1429.1	1455.5	1482.3	1511.5	1541.3	1567.5	1598.7	2.0%
Industrial 1/													
Petroleum	406.0	417.4	410.6	418.8	433.0	436.4	443.7	448.5	456.9	462.4	466.3	472.0	0.6%
Natural Gas 2/	539.1	538.5	554.7	559.3	562.0	571.7	580.1	587.1	593.5	603.0	613.6	619.2	1.6%
Coal	189.2	188.1	187.2	186.6	186.2	185.1	184.6	183.9	183.7	183.4	183.0	183.0	-0.1%
Electricity	759.7	771.1	780.0	796.5	807.5	818.2	830.9	843.5	862.9	882.6	898.7	920.5	1.6%
Total	1894.0	1915.2	1932.5	1961.1	1988.8	2011.5	2039.3	2063.0	2097.0	2131.4	2161.7	2194.7	1.2%
Transportation													
Petroleum 3/	2431.5	2471.6	2511.4	2552.4	2592.9	2632.4	2673.9	2718.7	2765.7	2814.2	2865.7	2920.4	2.1%
Natural Gas 4/	40.4	40.3	40.9	41.1	41.5	44.0	46.1	46.3	46.6	47.3	48.3	47.9	1.4%
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electricity	18.2	18.5	18.8	19.2	19.6	20.0	20.4	20.8	21.4	21.9	22.3	22.9	2.1%
Total	2490.1	2530.5	2571.2	2612.6	2654.0	2696.4	2740.5	2785.8	2833.7	2883.4	2936.3	2991.2	2.1%
Total by Delivered Fuel													
Petroleum 3/	3026.5	3078.7	3112.1	3161.3	3216.6	3259.8	3309.7	3359.6	3415.9	3470.5	3526.5	3586.9	1.8%
Natural Gas	1084.6	1086.4	1110.3	1117.6	1124.5	1141.2	1157.5	1169.5	1180.3	1194.6	1211.6	1218.9	1.3%
Coal	199.6	198.5	197.6	197.0	196.5	195.5	194.9	194.2	194.0	193.7	193.3	193.2	0.0%
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electricity	2773.5	2817.6	2853.0	2905.5	2947.7	2996.4	3049.5	3097.4	3162.5	3229.0	3286.3	3351.8	1.8%
Total	7084.2	7181.1	7273.1	7381.3	7485.4	7592.9	7711.7	7820.7	7952.7	8087.8	8217.7	8350.9	1.7%
Electric Power Sector 6/													
Petroleum	190.8	210.6	226.1	233.4	243.9	248.0	255.5	263.8	277.6	275.9	277.3	300.9	6.4%
Natural Gas	346.0	349.6	343.9	363.0	373.8	380.8	384.3	380.7	375.4	372.0	379.7	366.4	0.9%
Coal	2236.7	2257.4	2283.0	2309.1	2330.1	2367.7	2409.7	2452.9	2509.5	2581.1	2629.4	2684.6	1.6%
Total	2773.5	2817.6	2853.0	2905.5	2947.7	2996.4	3049.5	3097.4	3162.5	3229.0	3286.3	3351.8	1.8%
Total by Primary Fuel 7/													
Petroleum 3/	3217.3	3289.3	3338.2	3394.7	3460.5	3507.8	3565.2	3623.4	3693.5	3746.4	3803.7	3887.7	2.0%
Natural Gas	1430.6	1435.9	1454.2	1480.5	1498.3	1521.9	1541.8	1550.2	1555.7	1566.6	1591.3	1585.3	1.2%
Coal	2436.3	2455.8	2480.6	2506.0	2526.6	2563.1	2604.6	2647.2	2703.5	2774.8	2822.7	2877.8	1.4%
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	7084.2	7181.1	7273.1	7381.3	7485.4	7592.9	7711.7	7820.7	7952.7	8087.8	8217.7	8350.9	1.7%
Carbon Dioxide Emissions (tons per person)	22.2	22.3	22.4	22.6	22.7	22.9	23.0	23.2	23.4	23.6	23.8	24.0	0.8%

**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 LW2004.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	10027	10435	10797	11159	11524	11873	12234	12582	12940	13348
Real Potential Gross Domestic Product	9433	9726	10008	10304	10625	10970	11323	11665	12006	12352	12711	13056	13417
Real Disposable Personal Income	6748	7032	7244	7565	7787	7999	8198	8427	8682	8964	9217	9510	9828
Components of Real Gross Domestic Product													
Real Consumption	6377	6576	6754	7027	7296	7521	7743	7986	8228	8488	8737	9000	9295
Real Investment	1575	1590	1637	1752	1894	2009	2122	2224	2311	2413	2521	2624	2762
Real Government Spending	1640	1713	1754	1778	1809	1845	1875	1904	1933	1961	1981	2005	2031
Real Exports	1076	1059	1062	1146	1273	1391	1502	1615	1727	1840	1959	2084	2214
Real Imports	1492	1547	1608	1732	1887	2011	2116	2230	2345	2483	2625	2778	2957
Energy Intensity (thousand Btu per 1996 dollar of GDP)													
Delivered Energy	7.69	7.55	7.43	7.32	7.26	7.18	7.07	6.97	6.87	6.80	6.72	6.64	6.54
Total Energy	10.53	10.36	10.16	10.01	9.92	9.80	9.67	9.52	9.37	9.25	9.14	9.03	8.89
Price Indices													
GDP Chain-Type Price Index (1996=1.000)	1.094	1.107	1.123	1.143	1.163	1.184	1.208	1.234	1.262	1.293	1.327	1.362	1.400
Consumer Price Index (1982-4=1.00)	1.77	1.80	1.84	1.86	1.89	1.92	1.96	2.00	2.04	2.09	2.14	2.20	2.26
Wholesale Price Index (1982=1.00)													
All Commodities	1.34	1.31	1.37	1.35	1.35	1.36	1.38	1.39	1.40	1.42	1.44	1.45	1.47
Fuel and Power	1.05	0.93	1.11	1.00	0.93	0.93	0.95	0.95	0.96	0.98	0.98	0.99	1.01
Interest Rates (percent, nominal)													
Federal Funds Rate	3.89	1.67	1.12	1.09	1.74	2.09	2.38	3.20	4.25	5.28	5.32	5.31	5.29
10-Year Treasury Note	5.02	4.61	4.15	4.87	5.09	5.04	5.15	5.55	6.02	6.46	6.35	6.30	6.33
AA Utility Bond Rate	7.57	7.19	6.57	6.64	6.69	6.50	6.50	6.82	7.34	7.88	7.79	7.81	7.87
Unemployment Rate (percent)	4.77	5.78	6.08	6.06	5.65	5.53	5.43	5.23	5.08	4.91	4.84	4.73	4.50
Housing Starts (millions)	1.79	1.88	1.85	1.76	1.77	1.83	1.92	1.96	1.96	1.98	2.01	1.98	1.98
Commercial Floorspace, Total (billion square feet)	70.2	72.1	74.1	76.0	77.6	79.0	80.2	81.4	82.7	84.0	85.4	86.7	87.9
Unit Sales of Light-Duty Vehicles (millions)	17.11	16.78	16.36	16.94	17.54	17.88	17.98	17.96	17.96	18.10	18.26	18.32	18.55
Value of Shipments (billion 1996 dollars)													
Total Industrial	5368	5285	5226	5438	5665	5819	5966	6111	6274	6456	6622	6787	6987
Non-Manufacturing	1309	1222	1183	1208	1270	1303	1325	1356	1395	1433	1463	1486	1527
Manufacturing	4059	4064	4043	4230	4396	4516	4641	4756	4879	5023	5159	5302	5459
Energy Intensive	1085	1120	1103	1139	1174	1197	1217	1237	1257	1284	1308	1335	1364
Non-Intensive	2974	2944	2940	3091	3222	3319	3424	3519	3623	3739	3851	3967	4095
Population and Employment (millions)													
Population, with Armed Forces Overseas	285.9	288.9	291.7	294.2	296.8	299.3	301.8	304.3	306.8	309.3	311.8	314.3	316.9
Population, aged 16 and over	221.5	224.3	226.9	229.4	231.9	234.5	237.0	239.5	241.8	244.1	246.2	248.3	250.4
Employment, Nonfarm	131.6	130.5	130.1	131.6	134.3	136.7	139.0	141.2	143.1	145.0	146.8	148.2	150.0
Employment, Manufacturing	17.7	16.7	16.1	15.8	15.9	16.0	16.1	16.0	16.0	16.1	16.1	16.2	16.2
Labor Force	143.9	145.1	146.6	148.2	150.1	152.3	154.3	156.2	158.0	159.8	161.4	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	13749	14137	14534	14957	15386	15787	16226	16640	17097	17567	18049	18588	3.0%
Real Potential Gross Domestic Product	13796	14190	14581	14965	15395	15804	16238	16652	17106	17577	18063	18594	2.9%
Real Disposable Personal Income	10099	10381	10668	10954	11260	11566	11897	12232	12585	12967	13393	13859	3.0%
Components of Real Gross Domestic Product													
Real Consumption	9577	9848	10135	10428	10723	11020	11333	11642	11963	12291	12631	12989	3.0%
Real Investment	2909	3043	3170	3318	3465	3585	3753	3908	4093	4284	4466	4698	4.8%
Real Government Spending	2059	2089	2121	2154	2187	2220	2260	2286	2319	2353	2386	2418	1.5%
Real Exports	2351	2488	2638	2812	3006	3200	3395	3599	3821	4061	4315	4588	6.6%
Real Imports	3144	3324	3523	3742	3977	4227	4511	4802	5112	5440	5772	6120	6.2%
Energy Intensity (thousand Btu per 1996 dollar of GDP)													
Delivered Energy	6.44	6.35	6.26	6.17	6.08	6.01	5.93	5.86	5.79	5.72	5.65	5.56	-1.3%
Total Energy	8.75	8.61	8.49	8.37	8.24	8.13	8.03	7.92	7.82	7.71	7.62	7.50	-1.4%
Price Indices													
GDP Chain-Type Price Index (1996=1.000)	1.442	1.485	1.529	1.576	1.628	1.683	1.741	1.801	1.864	1.929	1.997	2.067	2.8%
Consumer Price Index (1982-4=1.00)	2.33	2.40	2.47	2.55	2.63	2.72	2.82	2.91	3.02	3.13	3.25	3.37	2.8%
Wholesale Price Index (1982=1.00)													
All Commodities	1.50	1.52	1.54	1.56	1.59	1.63	1.66	1.69	1.73	1.76	1.80	1.84	1.5%
Fuel and Power	1.03	1.04	1.06	1.08	1.11	1.14	1.17	1.18	1.22	1.25	1.27	1.31	1.5%
Interest Rates (percent, nominal)													
Federal Funds Rate	5.52	5.51	5.49	5.49	5.98	6.00	6.02	6.02	6.07	6.11	6.39	6.68	N/A
10-Year Treasury Note	6.43	6.33	6.33	6.36	6.69	6.74	6.86	6.95	7.08	7.17	7.44	7.70	N/A
AA Utility Bond Rate	8.05	8.02	8.03	8.02	8.30	8.30	8.36	8.47	8.56	8.61	8.82	8.96	N/A
Unemployment Rate (percent)	4.39	4.57	4.61	4.56	4.51	4.47	4.46	4.46	4.45	4.45	4.42	4.45	N/A
Housing Starts (millions)	1.97	1.94	1.94	1.94	1.92	1.93	1.95	1.95	1.95	1.95	1.94	1.92	0.1%
Commercial Floorspace, Total (billion square feet)	89.1	90.3	91.4	92.6	93.8	95.0	96.2	97.4	98.5	99.6	100.8	102.1	1.5%
Unit Sales of Light-Duty Vehicles (millions)	18.64	18.76	19.04	19.40	19.73	19.98	20.27	20.34	20.53	20.77	21.06	21.37	1.1%
Value of Shipments (billion 1996 dollars)													
Total Industrial	7176	7362	7561	7779	7999	8167	8383	8581	8822	9068	9312	9584	2.6%
Non-Manufacturing	1562	1585	1604	1628	1661	1672	1704	1726	1764	1801	1827	1854	1.8%
Manufacturing	5615	5778	5957	6151	6338	6496	6679	6854	7058	7266	7485	7730	2.8%
Energy Intensive	1388	1410	1433	1457	1481	1501	1524	1546	1571	1596	1620	1646	1.7%
Non-Intensive	4227	4368	4523	4694	4857	4995	5155	5309	5487	5670	5865	6084	3.2%
Population and Employment (millions)													
Population, with Armed Forces Overseas	319.4	321.9	324.5	327.0	329.5	332.1	334.6	337.2	339.7	342.3	344.9	347.5	0.8%
Population, aged 16 and over	252.5	254.5	256.5	258.4	260.4	262.3	264.3	266.2	268.2	270.2	272.2	274.3	0.9%
Employment, Nonfarm	151.8	153.2	154.7	156.2	157.8	159.4	160.9	162.4	163.9	165.4	166.9	168.5	1.1%
Employment, Manufacturing	16.1	16.1	16.1	16.1	16.1	16.0	16.0	16.0	16.1	16.1	16.2	16.3	-0.1%
Labor Force	165.0	166.3	167.1	168.0	169.1	170.2	171.3	172.1	172.8	173.8	175.1	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 LW2004.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	25.33	16.86	16.98	16.98	16.98	16.98	16.98	16.98	16.98
Production (Conventional) 2/											
Industrialized Countries											
U.S. (50 states)	8.84	9.16	8.69	8.99	9.21	9.22	9.36	9.36	9.31	9.22	9.06
Canada	2.09	2.14	2.12	2.10	2.08	2.05	2.00	1.95	1.88	1.80	1.75
Mexico	3.62	3.61	3.66	3.69	3.73	3.80	3.87	3.94	4.02	4.09	4.14
Western Europe 3/	6.82	6.76	6.67	6.56	6.46	6.41	6.37	6.33	6.29	6.25	6.16
Japan	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07
Australia and New Zealand	0.79	0.75	0.79	0.82	0.85	0.87	0.88	0.90	0.91	0.93	0.92
Total Industrialized	22.24	22.51	22.01	22.24	22.42	22.43	22.56	22.56	22.48	22.37	22.10
Eurasia											
Former Soviet Union											
Russia	7.30	7.67	8.23	8.53	9.05	9.20	9.37	9.54	9.62	9.65	9.69
Caspian Area 4/	1.48	1.66	1.75	1.83	1.90	2.13	2.36	2.58	2.81	3.03	3.28
Eastern Europe 5/	0.24	0.23	0.25	0.27	0.30	0.30	0.31	0.31	0.32	0.33	0.33
Total Eurasia	9.02	9.56	10.23	10.63	11.25	11.64	12.04	12.44	12.74	13.01	13.30
Developing Countries	44.44	44.24	44.79	46.14	47.74	49.38	50.83	52.45	54.00	55.83	57.68
Total Production (Conventional)	75.70	76.30	77.03	79.01	81.42	83.45	85.42	87.44	89.23	91.21	93.08
Production (Nonconventional) 8/											
U.S. (50 states)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other North America	0.72	0.79	0.86	0.92	0.98	1.08	1.20	1.32	1.46	1.61	1.79
Western Europe	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Asia	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.02	0.03
Middle East	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Africa	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
South and Central America	0.49	0.54	0.58	0.62	0.66	0.69	0.71	0.74	0.76	0.78	0.85
Total Production (Nonconventional)	1.42	1.55	1.66	1.77	1.87	2.00	2.14	2.29	2.45	2.62	2.88
Total Production	77.12	77.85	78.69	80.78	83.29	85.45	87.56	89.73	91.68	93.84	95.95
Consumption 9/											
Industrialized Countries											
U.S. (50 states)	19.71	19.61	19.88	20.18	21.37	21.90	22.35	22.86	23.22	23.68	24.19
U.S. Territories	0.28	0.29	0.31	0.34	0.37	0.38	0.40	0.41	0.42	0.43	0.44
Canada	1.91	1.96	2.02	2.12	2.21	2.27	2.33	2.39	2.44	2.48	2.52
Mexico	1.94	2.01	2.10	2.21	2.31	2.43	2.55	2.67	2.80	2.93	3.08
Western Europe	13.98	14.02	14.10	14.34	14.50	14.65	14.78	14.90	15.00	15.09	15.19
Japan	5.42	5.45	5.51	5.66	5.79	5.94	6.09	6.23	6.37	6.52	6.66
Australia and New Zealand	1.01	1.04	1.08	1.13	1.17	1.20	1.24	1.27	1.30	1.33	1.37
Total Industrialized	44.25	44.39	45.00	45.98	47.72	48.78	49.74	50.73	51.56	52.46	53.45
Eurasia											
Former Soviet Union	3.90	4.05	4.22	4.44	4.63	4.77	4.91	5.05	5.18	5.31	5.36
Eastern Europe	1.41	1.44	1.48	1.53	1.57	1.62	1.66	1.70	1.74	1.79	1.83
Total Eurasia	5.30	5.49	5.70	5.96	6.20	6.39	6.57	6.75	6.92	7.10	7.19

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
Developing Countries											
China	4.97	5.11	5.26	5.51	5.71	5.97	6.23	6.47	6.71	6.95	7.23
India	2.13	2.16	2.21	2.27	2.33	2.46	2.59	2.72	2.85	2.98	3.15
South Korea	2.14	2.20	2.27	2.37	2.46	2.57	2.67	2.77	2.87	2.97	3.04
Other Asia	5.53	5.63	5.75	5.91	6.05	6.22	6.39	6.55	6.71	6.88	7.13
Middle East 7/	5.36	5.34	5.33	5.36	5.51	5.53	5.71	5.88	6.05	6.32	6.39
Africa	2.58	2.56	2.54	2.54	2.47	2.58	2.63	2.68	2.72	2.77	2.82
South and Central America	4.87	4.91	4.96	5.04	5.13	5.23	5.36	5.47	5.59	5.71	5.86
Total Developing Countries	27.59	27.91	28.31	29.00	29.66	30.56	31.56	32.54	33.51	34.57	35.62
Total Consumption	77.14	77.79	79.01	80.95	83.58	85.73	87.86	90.01	91.99	94.13	96.26

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/	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98	16.98
Production (Conventional) 2/											
Industrialized Countries											
U.S. (50 states)	8.94	8.90	8.88	8.84	8.74	8.55	8.54	8.44	8.28	8.12	8.01
Canada	1.72	1.67	1.64	1.62	1.61	1.59	1.58	1.56	1.54	1.52	1.50
Mexico	4.20	4.26	4.32	4.38	4.39	4.40	4.40	4.41	4.42	4.46	4.50
Western Europe 3/	6.06	5.97	5.88	5.78	5.70	5.62	5.54	5.46	5.39	5.28	5.18
Japan	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05
Australia and New Zealand	0.91	0.90	0.89	0.88	0.87	0.86	0.86	0.85	0.85	0.84	0.84
Total Industrialized	21.91	21.76	21.66	21.56	21.36	21.08	20.98	20.78	20.53	20.28	20.08
Eurasia											
Former Soviet Union											
Russia	9.81	9.97	10.10	10.17	10.22	10.28	10.31	10.33	10.36	10.39	10.41
Caspian Area 4/	3.52	3.77	4.01	4.25	4.39	4.53	4.67	4.81	4.95	5.13	5.31
Eastern Europe 5/	0.34	0.35	0.35	0.36	0.37	0.37	0.38	0.39	0.40	0.40	0.41
Total Eurasia	13.67	14.08	14.47	14.79	14.98	15.19	15.36	15.53	15.70	15.92	16.14
Developing Countries	59.53	61.30	62.97	64.49	67.39	69.27	71.41	73.72	76.04	78.62	81.09
Total Production (Conventional)	95.11	97.15	99.10	100.83	103.73	105.54	107.76	110.03	112.27	114.82	117.30
Production (Nonconventional) 8/											
U.S. (50 states)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other North America	1.99	2.21	2.46	2.74	2.76	2.79	2.81	2.83	2.86	2.85	2.85
Western Europe	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03
Asia	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Middle East	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Africa	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
South and Central America	0.92	0.99	1.05	1.11	1.12	1.13	1.15	1.15	1.16	1.15	1.14
Total Production (Nonconventional)	3.14	3.43	3.74	4.08	4.11	4.15	4.18	4.22	4.25	4.23	4.21
Total Production	98.26	100.58	102.84	104.91	107.84	109.69	111.94	114.24	116.52	119.05	121.52
Consumption 9/											
Industrialized Countries											
U.S. (50 states)	24.77	25.41	25.92	26.42	26.88	27.31	27.82	28.20	28.66	29.12	29.65
U.S. Territories	0.45	0.45	0.46	0.47	0.48	0.48	0.49	0.50	0.50	0.51	0.53
Canada	2.55	2.58	2.61	2.64	2.66	2.68	2.70	2.72	2.74	2.77	2.80
Mexico	3.25	3.41	3.58	3.76	3.91	4.06	4.21	4.37	4.53	4.71	4.89
Western Europe	15.29	15.38	15.47	15.54	15.61	15.66	15.72	15.77	15.82	15.94	16.06
Japan	6.81	6.95	7.09	7.23	7.35	7.47	7.58	7.70	7.81	7.95	8.08
Australia and New Zealand	1.40	1.44	1.47	1.51	1.54	1.57	1.61	1.64	1.68	1.71	1.75
Total Industrialized	54.51	55.63	56.60	57.57	58.42	59.24	60.13	60.90	61.74	62.71	63.75
Eurasia											
Former Soviet Union											
Eastern Europe	1.88	1.93	1.97	2.02	2.07	2.13	2.18	2.23	2.29	2.36	2.43
Total Eurasia	7.28	7.36	7.45	7.54	7.70	7.85	8.01	8.17	8.32	8.51	8.69

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
Developing Countries											
China	7.51	7.79	8.06	8.34	8.72	9.09	9.47	9.85	10.28	10.57	10.92
India	3.33	3.50	3.67	3.84	4.07	4.29	4.52	4.74	4.97	5.21	5.45
South Korea	3.10	3.17	3.24	3.30	3.35	3.39	3.44	3.48	3.53	3.58	3.63
Other Asia	7.38	7.63	7.89	8.14	8.38	8.62	8.86	9.10	9.35	9.61	9.88
Middle East 7/	6.57	6.75	6.92	7.15	7.28	7.46	7.64	7.82	8.08	8.22	8.43
Africa	2.87	2.91	2.96	3.04	3.07	3.14	3.20	3.26	3.33	3.39	3.45
South and Central America	6.02	6.17	6.32	6.51	6.64	6.81	6.97	7.14	7.30	7.51	7.71
Total Developing Countries	36.77	37.92	39.06	40.32	41.50	42.80	44.10	45.40	46.84	48.09	49.46
Total Consumption	98.55	100.91	103.12	105.43	107.62	109.89	112.25	114.47	116.91	119.30	121.91

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/	16.98	16.98	16.98	-1.4%
Production (Conventional) 2/				
Industrialized Countries				
U.S. (50 states)	8.06	8.03	7.86	-0.7%
Canada	1.48	1.46	1.45	-1.7%
Mexico	4.54	4.58	4.62	1.1%
Western Europe 3/	5.08	4.98	4.88	-1.4%
Japan	0.05	0.05	0.05	-2.3%
Australia and New Zealand	0.83	0.83	0.82	0.4%
Total Industrialized	20.04	19.92	19.67	-0.6%
Eurasia				
Former Soviet Union				
Russia	10.43	10.46	10.47	1.4%
Caspian Area 4/	5.49	5.67	5.85	5.6%
Eastern Europe 5/	0.42	0.42	0.43	2.8%
Total Eurasia	16.34	16.56	16.75	2.5%
Developing Countries	83.49	86.15	89.14	3.1%
Total Production (Conventional)	119.87	122.63	125.56	2.2%
Production (Nonconventional) 8/				
U.S. (50 states)	0.00	0.00	0.00	N/A
Other North America	2.84	2.84	2.83	5.7%
Western Europe	0.03	0.03	0.03	-0.4%
Asia	0.02	0.02	0.02	-1.4%
Middle East	0.01	0.01	0.01	4.1%
Africa	0.15	0.15	0.15	-0.1%
South and Central America	1.13	1.12	1.11	3.2%
Total Production (Nonconventional)	4.19	4.17	4.16	4.4%
Total Production	124.07	126.81	129.72	2.2%
Consumption 9/				
Industrialized Countries				
U.S. (50 states)	30.10	30.55	31.20	2.0%
U.S. Territories	0.54	0.55	0.56	2.9%
Canada	2.82	2.85	2.88	1.7%
Mexico	5.07	5.25	5.44	4.4%
Western Europe	16.18	16.30	16.42	0.7%
Japan	8.21	8.35	8.48	1.9%
Australia and New Zealand	1.79	1.82	1.86	2.6%
Total Industrialized	64.71	65.68	66.84	1.8%
Eurasia				
Former Soviet Union				
Eastern Europe	6.38	6.50	6.62	2.2%
Total Eurasia	2.49	2.56	2.63	2.7%
Total Eurasia	8.88	9.06	9.25	2.3%

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

	2023	2024	2025	2002- 2025
Developing Countries				
China	11.27	11.62	12.02	3.8%
India	5.69	5.93	6.18	4.7%
South Korea	3.68	3.72	3.77	2.4%
Other Asia	10.14	10.41	10.70	2.8%
Middle East 7/	8.64	8.85	9.14	2.4%
Africa	3.52	3.58	3.71	1.6%
South and Central America	7.92	8.12	8.33	2.3%
Total Developing Countries	50.85	52.24	53.85	2.9%
Total Consumption	124.44	126.98	129.94	2.3%

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 LW2004.D101703B.