

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
<b>Production</b>											
Crude Oil & Lease Condensate	12.16	11.91	12.04	12.27	12.41	12.56	12.86	12.90	12.78	12.52	12.28
Natural Gas Plant Liquids	2.55	2.56	2.35	2.70	2.94	2.94	2.98	3.00	3.00	3.05	3.05
Dry Natural Gas	20.23	19.56	20.09	19.86	19.79	19.81	20.09	20.19	20.26	20.69	20.78
Coal	23.97	22.70	22.67	23.02	23.34	23.83	24.22	24.32	24.56	24.76	24.99
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35
Renewable Energy 1/	5.25	5.84	5.97	6.39	6.48	6.59	6.68	6.78	6.87	6.97	7.08
Other 2/	0.53	1.13	0.94	0.98	0.74	0.82	0.86	0.88	0.90	0.85	0.79
Total	72.72	71.85	72.03	73.36	73.95	74.83	75.99	76.38	76.62	77.13	77.32
<b>Imports</b>											
Crude Oil 3/	20.26	19.84	20.68	21.15	21.36	21.63	21.89	22.21	22.72	23.66	24.52
Petroleum Products 4/	5.04	4.75	4.87	5.26	4.70	4.85	4.84	5.05	5.08	4.96	4.99
Natural Gas	4.06	4.10	4.29	4.46	4.68	5.07	5.15	5.53	5.74	5.87	6.06
Other Imports 5/	0.59	0.52	0.69	0.70	0.76	0.77	0.82	0.86	0.90	0.93	0.95
Total	29.95	29.21	30.53	31.57	31.50	32.32	32.70	33.65	34.45	35.42	36.52
<b>Exports</b>											
Petroleum 6/	2.01	2.03	2.03	2.08	2.05	2.07	2.09	2.11	2.13	2.14	2.11
Natural Gas	0.38	0.52	0.70	0.81	0.82	0.84	0.86	0.88	0.91	0.92	0.93
Coal	1.26	1.03	1.07	1.04	1.02	1.00	0.98	0.95	0.93	0.90	0.88
Total	3.65	3.58	3.79	3.93	3.88	3.90	3.93	3.94	3.97	3.96	3.91
Discrepancy 7/	2.09	-0.24	0.68	1.59	0.19	0.22	0.24	0.26	0.28	0.28	0.30
<b>Consumption</b>											
Petroleum Products 8/	38.49	38.11	38.75	38.73	39.81	40.40	40.97	41.54	41.92	42.46	43.05
Natural Gas	23.05	23.37	22.66	23.55	23.72	24.12	24.47	24.95	25.22	25.77	26.05
Coal	22.04	22.18	22.60	22.49	23.00	23.54	24.01	24.17	24.46	24.72	25.00
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35
Renewable Energy 1/	5.25	5.84	5.97	6.39	6.48	6.59	6.68	6.78	6.87	6.98	7.08
Other 9/	0.08	0.07	0.13	0.10	0.10	0.08	0.08	0.09	0.09	0.09	0.09
Total	96.94	97.72	98.09	99.40	101.38	103.03	104.52	105.83	106.81	108.32	109.63
Net Imports - Petroleum	23.29	22.56	23.52	24.33	24.01	24.41	24.64	25.15	25.68	26.48	27.40
<b>Prices (2002 dollars per unit)</b>											
World Oil Price (dollars per barrel) 10/	22.25	23.68	27.25	23.79	23.15	23.24	23.34	23.44	23.57	23.64	23.77
Natural Gas Wellhead Price (dollars per Mcf) 11/	4.14	2.95	4.90	3.84	3.47	3.35	3.40	3.48	3.35	3.31	3.45
Coal Minemouth Price (dollars per ton)	17.79	17.90	17.84	17.55	17.23	17.06	16.86	16.77	16.70	16.53	16.47
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	6.4

Table 1. Total Energy Supply and Disposition Summary  
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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Production</b>											
Crude Oil & Lease Condensate	12.05	11.93	11.73	11.64	11.39	11.08	11.06	10.84	10.49	10.16	9.81
Natural Gas Plant Liquids	3.09	3.05	3.10	3.09	3.08	3.11	3.18	3.20	3.25	3.25	3.29
Dry Natural Gas	21.11	20.94	21.36	21.32	21.31	21.57	22.12	22.30	22.70	22.79	23.13
Coal	25.02	25.18	25.37	25.63	25.97	26.15	26.38	26.75	27.08	27.41	27.66
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/	7.18	7.30	7.41	7.51	7.60	7.71	7.80	7.89	7.96	8.04	8.14
Other 2/	0.76	0.76	0.76	0.76	0.77	0.78	0.79	0.79	0.79	0.76	0.79
Total	77.58	77.57	78.17	78.43	78.62	78.93	79.85	80.28	80.81	80.94	81.35
<b>Imports</b>											
Crude Oil 3/	25.31	26.13	26.85	27.32	27.95	28.70	29.25	29.89	30.65	31.17	31.69
Petroleum Products 4/	5.11	5.10	5.15	5.34	5.52	5.52	5.44	5.51	5.41	5.66	5.91
Natural Gas	6.10	6.53	6.37	6.51	6.83	7.06	7.00	7.01	6.90	7.06	7.05
Other Imports 5/	0.98	1.00	1.02	1.04	1.04	1.06	1.08	1.06	1.10	1.12	1.13
Total	37.50	38.76	39.39	40.21	41.33	42.33	42.77	43.46	44.07	45.01	45.79
<b>Exports</b>											
Petroleum 6/	2.12	2.14	2.15	2.17	2.17	2.16	2.18	2.18	2.16	2.15	2.14
Natural Gas	0.93	0.93	0.92	0.94	0.96	0.97	0.99	1.01	1.02	1.04	1.05
Coal	0.80	0.78	0.79	0.80	0.81	0.81	0.82	0.80	0.74	0.68	0.68
Total	3.85	3.85	3.87	3.91	3.93	3.95	3.98	3.99	3.93	3.87	3.87
Discrepancy 7/	0.31	0.34	0.37	0.38	0.41	0.41	0.41	0.43	0.45	0.45	0.48
<b>Consumption</b>											
Petroleum Products 8/	43.70	44.30	44.89	45.41	45.96	46.43	46.95	47.44	47.82	48.22	48.70
Natural Gas	26.42	26.69	26.95	27.04	27.33	27.81	28.28	28.45	28.73	28.96	29.28
Coal	25.14	25.33	25.53	25.81	26.15	26.35	26.61	26.98	27.41	27.83	28.10
Nuclear Power	8.38	8.41	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53
Renewable Energy 1/	7.18	7.30	7.41	7.51	7.60	7.71	7.80	7.89	7.97	8.04	8.14
Other 9/	0.10	0.10	0.09	0.09	0.08	0.08	0.07	0.06	0.06	0.05	0.04
Total	110.92	112.13	113.32	114.35	115.61	116.90	118.23	119.33	120.51	121.63	122.79
Net Imports - Petroleum	28.29	29.08	29.85	30.49	31.30	32.05	32.51	33.21	33.90	34.69	35.47
<b>Prices (2002 dollars per unit)</b>											
World Oil Price (dollars per barrel) 10/	23.84	23.93	24.03	24.12	24.25	24.41	24.54	24.67	24.77	24.86	24.97
Natural Gas Wellhead Price (dollars per Mcf) 11/	3.62	3.67	3.73	3.88	3.90	3.85	3.86	3.97	3.97	3.92	3.96
Coal Minemouth Price (dollars per ton)	16.30	16.18	15.98	15.84	15.66	15.49	15.57	15.49	15.78	15.75	15.72
Average Electricity (cents per kilowatthour)	6.5	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.5

Table 1. Total Energy Supply and Disposition Summary  
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	2023	2024	2025	2002- 2025
<b>Production</b>				
Crude Oil & Lease Condensate	9.72	9.54	9.29	-1.1%
Natural Gas Plant Liquids	3.29	3.29	3.30	1.1%
Dry Natural Gas	23.14	23.25	23.31	0.8%
Coal	28.05	28.41	28.62	1.0%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 1/	8.23	8.30	8.36	1.6%
Other 2/	0.81	0.82	0.82	-1.4%
Total	81.76	82.14	82.23	0.6%
<b>Imports</b>				
Crude Oil 3/	31.98	32.28	32.65	2.2%
Petroleum Products 4/	6.24	6.71	7.20	1.8%
Natural Gas	7.16	7.27	7.45	2.6%
Other Imports 5/	1.15	1.16	1.17	3.5%
Total	46.53	47.42	48.46	2.2%
<b>Exports</b>				
Petroleum 6/	2.15	2.15	2.14	0.2%
Natural Gas	1.06	1.06	1.06	3.2%
Coal	0.69	0.69	0.64	-2.0%
Total	3.89	3.90	3.85	0.3%
Discrepancy 7/	0.50	0.50	0.52	N/A
<b>Consumption</b>				
Petroleum Products 8/	49.22	49.81	50.41	1.2%
Natural Gas	29.39	29.60	29.85	1.1%
Coal	28.51	28.89	29.16	1.2%
Nuclear Power	8.53	8.53	8.53	0.2%
Renewable Energy 1/	8.23	8.30	8.36	1.6%
Other 9/	0.03	0.03	0.03	-4.6%
Total	123.91	125.15	126.33	1.1%
Net Imports - Petroleum	36.07	36.85	37.70	2.3%
<b>Prices (2002 dollars per unit)</b>				
World Oil Price (dollars per barrel) 10/	25.10	25.17	25.30	0.3%
Natural Gas Wellhead Price (dollars per Mcf) 11/	4.08	4.14	4.28	1.6%
Coal Minemouth Price (dollars per ton)	15.68	15.63	15.67	-0.6%
Average Electricity (cents per kilowatthour)	6.5	6.5	6.6	-0.4%

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](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 LM2004.D101703A.

**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	2012
Energy Consumption												
Residential												
Distillate Fuel	0.90	0.89	0.92	0.95	0.95	0.96	0.95	0.95	0.94	0.93	0.92	0.92
Kerosene	0.11	0.07	0.08	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Liquefied Petroleum Gas	0.50	0.53	0.50	0.51	0.52	0.53	0.54	0.55	0.55	0.56	0.56	0.57
Petroleum Subtotal	1.51	1.48	1.51	1.58	1.59	1.60	1.61	1.61	1.60	1.60	1.60	1.60
Natural Gas	4.92	5.06	5.21	5.32	5.35	5.43	5.49	5.55	5.59	5.65	5.68	5.72
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Energy 1/ Electricity	0.36 4.10	0.39 4.33	0.41 4.37	0.41 4.44	0.40 4.49	0.40 4.56	0.40 4.63	0.40 4.72	0.40 4.78	0.40 4.85	0.40 4.92	0.40 5.00
Delivered Energy	10.91	11.28	11.52	11.75	11.84	12.01	12.14	12.30	12.39	12.51	12.61	12.72
Electricity Related Losses	9.28	9.60	9.69	9.78	9.90	10.05	10.20	10.36	10.37	10.48	10.59	10.71
Total	20.18	20.88	21.21	21.53	21.75	22.06	22.34	22.66	22.76	23.00	23.20	23.43
Commercial												
Distillate Fuel	0.49	0.49	0.57	0.56	0.58	0.59	0.60	0.61	0.61	0.62	0.63	0.63
Residual Fuel	0.09	0.08	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	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	0.02
Liquefied Petroleum Gas	0.09	0.09	0.09	0.09	0.10	0.09	0.10	0.10	0.10	0.10	0.10	0.10
Motor Gasoline 2/ Petroleum Subtotal	0.05 0.74	0.05 0.72	0.05 0.85	0.05 0.85	0.05 0.87	0.05 0.88	0.05 0.90	0.05 0.90	0.05 0.91	0.05 0.92	0.05 0.92	0.05 0.93
Natural Gas	3.33	3.21	3.25	3.20	3.26	3.34	3.40	3.44	3.49	3.55	3.59	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	0.10
Renewable Energy 3/ Electricity	0.09 4.09	0.10 4.12	0.10 4.14	0.10 4.28	0.10 4.42	0.10 4.54	0.10 4.67	0.10 4.79	0.10 4.90	0.10 5.02	0.10 5.14	0.10 5.25
Delivered Energy	8.34	8.25	8.44	8.52	8.75	8.97	9.16	9.33	9.50	9.68	9.85	9.99
Electricity Related Losses	9.24	9.15	9.17	9.42	9.73	10.02	10.27	10.50	10.63	10.84	11.06	11.26
Total	17.58	17.40	17.61	17.94	18.48	18.98	19.43	19.82	20.13	20.53	20.91	21.25
Industrial 4/												
Distillate Fuel	1.21	1.16	1.17	1.12	1.12	1.12	1.11	1.11	1.09	1.10	1.11	1.12
Liquefied Petroleum Gas	2.10	2.22	2.12	2.12	2.13	2.12	2.13	2.13	2.12	2.12	2.13	2.14
Petrochemical Feedstocks	1.16	1.22	1.27	1.26	1.25	1.24	1.24	1.23	1.21	1.21	1.21	1.21
Residual Fuel	0.15	0.20	0.21	0.20	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.16 4.27 9.04	0.16 4.03 9.00	0.16 4.05 8.98	0.15 3.85 8.70	0.15 4.09 8.95	0.15 4.13 8.97	0.15 4.14 8.99	0.15 4.16 8.99	0.15 4.13 8.90	0.15 4.15 8.93	0.15 4.15 8.95	0.15 4.16 8.95
Natural Gas	7.56	7.43	7.41	7.66	7.75	7.80	7.86	7.88	7.97	8.08	8.16	8.19
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.12 8.67	1.35 8.78	1.03 8.44	1.01 8.67	1.07 8.83	1.13 8.93	1.19 9.06	1.25 9.13	1.31 9.28	1.38 9.46	1.39 9.55	1.41 9.60
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63	0.62
Steam Coal	1.51	1.47	1.40	1.39	1.39	1.38	1.37	1.36	1.36	1.36	1.36	1.36
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00

**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	2012
Coal Subtotal	2.25	2.12	2.11	2.09	2.08	2.06	2.05	2.03	2.02	2.01	2.00	1.98
Renewable Energy 7/	1.64	1.66	1.66	1.70	1.73	1.76	1.77	1.78	1.80	1.83	1.86	1.90
Electricity	3.29	3.39	3.34	3.35	3.39	3.43	3.46	3.48	3.49	3.53	3.56	3.59
Delivered Energy	24.89	24.94	24.52	24.52	24.99	25.15	25.33	25.40	25.50	25.76	25.93	26.07
Electricity Related Losses	7.44	7.53	7.39	7.39	7.47	7.56	7.63	7.63	7.58	7.62	7.66	7.70
Total	32.33	32.47	31.91	31.92	32.46	32.70	32.96	33.03	33.07	33.38	33.59	33.77
Transportation												
Distillate Fuel 8/	5.32	5.12	5.17	5.29	5.43	5.56	5.67	5.76	5.87	6.00	6.12	6.25
Jet Fuel 9/	3.43	3.34	3.26	3.33	3.43	3.53	3.61	3.70	3.78	3.87	3.94	4.02
Motor Gasoline 2/	16.17	16.62	16.95	17.40	17.83	18.18	18.49	18.81	19.13	19.45	19.75	20.05
Residual Fuel	0.84	0.71	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79
Liquefied Petroleum Gas	0.02	0.02	0.02	0.02	0.04	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	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Petroleum Subtotal	25.96	26.06	26.41	27.07	27.75	28.33	28.83	29.34	29.86	30.40	30.90	31.41
Pipeline Fuel Natural Gas	0.64	0.65	0.68	0.66	0.66	0.65	0.65	0.65	0.66	0.68	0.68	0.69
Compressed Natural Gas	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.05	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	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	0.00
Electricity	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09
Delivered Energy	26.69	26.79	27.19	27.84	28.52	29.10	29.61	30.13	30.66	31.22	31.73	32.26
Electricity Related Losses	0.17	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20
Total	26.85	26.96	27.36	28.01	28.70	29.28	29.80	30.32	30.85	31.41	31.92	32.46
Delivered Energy Consumption, All Sectors												
Distillate Fuel	7.92	7.66	7.83	7.92	8.09	8.23	8.34	8.43	8.51	8.65	8.78	8.91
Kerosene	0.15	0.09	0.11	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16
Jet Fuel 9/	3.43	3.34	3.26	3.33	3.43	3.53	3.61	3.70	3.78	3.87	3.94	4.02
Liquefied Petroleum Gas	2.70	2.86	2.73	2.75	2.78	2.79	2.81	2.82	2.81	2.82	2.84	2.86
Motor Gasoline 2/	16.37	16.83	17.16	17.60	18.03	18.38	18.69	19.01	19.33	19.65	19.94	20.25
Petrochemical Feedstocks	1.16	1.22	1.27	1.26	1.25	1.24	1.24	1.23	1.21	1.21	1.21	1.21
Residual Fuel	1.07	1.00	1.10	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.13
Other Petroleum 12/	4.45	4.26	4.28	4.07	4.31	4.35	4.36	4.38	4.35	4.37	4.37	4.39
Petroleum Subtotal	37.25	37.26	37.74	38.20	39.16	39.79	40.33	40.84	41.27	41.84	42.36	42.93
Natural Gas	15.81	15.71	15.90	16.20	16.39	16.60	16.78	16.92	17.11	17.33	17.50	17.59
Lease and Plant Fuel 6/	1.12	1.35	1.03	1.01	1.07	1.13	1.19	1.25	1.31	1.38	1.39	1.41
Pipeline Natural Gas	0.64	0.65	0.68	0.66	0.66	0.65	0.65	0.65	0.66	0.68	0.68	0.69
Natural Gas Subtotal	17.57	17.72	17.60	17.87	18.12	18.38	18.63	18.82	19.08	19.39	19.56	19.69
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63	0.62
Steam Coal	1.62	1.58	1.51	1.50	1.50	1.49	1.48	1.48	1.47	1.47	1.47	1.47
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
Coal Subtotal	2.36	2.23	2.22	2.20	2.19	2.18	2.16	2.14	2.13	2.12	2.11	2.09
Renewable Energy 13/	2.09	2.15	2.17	2.21	2.24	2.26	2.27	2.28	2.30	2.34	2.37	2.41
Liquid Hydrogen	0.00	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	12.15	12.38	12.62	12.85	13.07	13.26	13.49	13.71	13.93
Delivered Energy	70.83	71.27	71.66	72.63	74.10	75.22	76.24	77.16	78.04	79.18	80.12	81.05
Electricity Related Losses	26.12	26.45	26.43	26.77	27.28	27.81	28.28	28.67	28.77	29.14	29.51	29.87
Total	96.94	97.72	98.09	99.40	101.38	103.03	104.52	105.83	106.81	108.32	109.63	110.92

Electric Generators 14/

**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	2012
Distillate Fuel	0.33	0.16	0.17	0.17	0.19	0.19	0.20	0.21	0.18	0.15	0.19	0.25
Residual Fuel	0.91	0.69	0.84	0.36	0.46	0.43	0.45	0.48	0.47	0.47	0.50	0.52
Petroleum Subtotal	1.25	0.85	1.01	0.53	0.65	0.61	0.65	0.69	0.65	0.62	0.69	0.77
Natural Gas	5.48	5.65	5.06	5.68	5.60	5.74	5.84	6.13	6.14	6.38	6.49	6.73
Steam Coal	19.68	19.96	20.39	20.29	20.81	21.37	21.85	22.03	22.33	22.60	22.89	23.04
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35	8.38
Renewable Energy/Other 15/ Electricity Imports	3.16	3.69	3.80	4.18	4.24	4.33	4.41	4.50	4.57	4.64	4.72	4.78
Electricity Imports	0.08	0.07	0.13	0.10	0.10	0.08	0.08	0.09	0.09	0.09	0.09	0.10
Total	37.67	38.36	38.36	38.92	39.66	40.43	41.13	41.74	42.03	42.63	43.22	43.80
<b>Total Energy Consumption</b>												
Distillate Fuel	8.26	7.82	8.01	8.09	8.28	8.41	8.54	8.64	8.70	8.80	8.97	9.17
Kerosene	0.15	0.09	0.11	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16
Jet Fuel 9/ Liquefied Petroleum Gas	3.43	3.34	3.26	3.33	3.43	3.53	3.61	3.70	3.78	3.87	3.94	4.02
Liquefied Petroleum Gas	2.70	2.86	2.73	2.75	2.78	2.79	2.81	2.82	2.81	2.82	2.84	2.86
Motor Gasoline 2/ Petrochemical Feedstocks	16.37	16.83	17.16	17.60	18.03	18.38	18.69	19.01	19.33	19.65	19.94	20.25
Petrochemical Feedstocks	1.16	1.22	1.27	1.26	1.25	1.24	1.24	1.23	1.21	1.21	1.21	1.21
Residual Fuel	1.98	1.69	1.94	1.48	1.58	1.54	1.57	1.60	1.59	1.59	1.62	1.65
Other Petroleum 12/ Petroleum Subtotal	4.45	4.26	4.28	4.07	4.31	4.35	4.36	4.38	4.35	4.37	4.37	4.39
Petroleum Subtotal	38.49	38.11	38.75	38.73	39.81	40.40	40.97	41.54	41.92	42.46	43.05	43.70
Natural Gas	21.30	21.36	20.96	21.88	21.99	22.34	22.63	23.04	23.25	23.72	23.99	24.32
Lease and Plant Fuel 6/ Pipeline Natural Gas	1.12	1.35	1.03	1.01	1.07	1.13	1.19	1.25	1.31	1.38	1.39	1.41
Pipeline Natural Gas	0.64	0.65	0.68	0.66	0.66	0.65	0.65	0.65	0.66	0.68	0.68	0.69
Natural Gas Subtotal	23.05	23.37	22.66	23.55	23.72	24.12	24.47	24.95	25.22	25.77	26.05	26.42
Metallurgical Coal	0.71	0.62	0.68	0.69	0.68	0.67	0.67	0.66	0.66	0.64	0.63	0.62
Steam Coal	21.30	21.54	21.90	21.79	22.30	22.86	23.34	23.50	23.80	24.07	24.36	24.51
Net Coal Coke Imports	0.02	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
Coal Subtotal	22.04	22.18	22.60	22.49	23.00	23.54	24.01	24.17	24.46	24.72	25.00	25.14
Nuclear Power	8.03	8.15	7.96	8.13	8.26	8.29	8.30	8.32	8.25	8.29	8.35	8.38
Renewable Energy 16/ Liquid Hydrogen	5.25	5.84	5.97	6.39	6.48	6.59	6.68	6.78	6.87	6.98	7.08	7.18
Liquid Hydrogen	0.00	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	0.09	0.09	0.09	0.09	0.10
Total	96.94	97.72	98.09	99.40	101.38	103.03	104.52	105.83	106.81	108.32	109.63	110.92
<b>Energy Use &amp; Related Statistics</b>												
Delivered Energy Use	70.83	71.27	71.66	72.63	74.10	75.22	76.24	77.16	78.04	79.18	80.12	81.05
Total Energy Use	96.94	97.72	98.09	99.40	101.38	103.03	104.52	105.83	106.81	108.32	109.63	110.92
Population (millions)	285.92	288.93	291.68	293.10	294.99	296.84	298.68	300.51	302.33	304.13	305.95	307.78
US GDP (billion 1996 dollars)	9215	9440	9657	9840	10173	10504	10831	11148	11443	11727	12004	12290
Carbon Dioxide Emissions (million metric tons)	5691.7	5729.3	5744.9	5783.0	5911.7	6025.0	6127.3	6206.6	6277.8	6367.8	6449.1	6526.8

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Energy Consumption												
Residential												
Distillate Fuel	0.91	0.90	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82
Kerosene	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.09	0.09
Liquefied Petroleum Gas	0.57	0.57	0.58	0.58	0.59	0.59	0.60	0.60	0.60	0.61	0.61	0.61
Petroleum Subtotal	1.59	1.59	1.58	1.58	1.57	1.56	1.56	1.56	1.54	1.54	1.53	1.52
Natural Gas	5.72	5.74	5.75	5.79	5.81	5.84	5.86	5.91	5.93	5.96	5.98	6.00
Coal	0.01	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	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39
Delivered Energy	5.05	5.11	5.17	5.24	5.29	5.35	5.41	5.49	5.53	5.59	5.65	5.72
Electricity Related Losses	12.77	12.84	12.92	13.03	13.08	13.17	13.24	13.36	13.41	13.49	13.56	13.65
Total	10.77	10.86	10.95	11.07	11.14	11.21	11.31	11.41	11.46	11.55	11.63	11.74
Total	23.54	23.70	23.86	24.09	24.22	24.37	24.55	24.77	24.87	25.04	25.18	25.39
Commercial												
Distillate Fuel	0.64	0.64	0.65	0.65	0.66	0.66	0.67	0.67	0.67	0.68	0.68	0.68
Residual Fuel	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	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	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	0.10
Motor Gasoline 2/ Petroleum Subtotal	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total	0.93	0.94	0.95	0.95	0.96	0.96	0.96	0.97	0.97	0.98	0.98	0.98
Natural Gas	3.64	3.66	3.68	3.70	3.74	3.77	3.80	3.83	3.87	3.90	3.93	3.95
Coal	0.10	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	0.10
Delivered Energy	5.37	5.47	5.57	5.67	5.77	5.88	5.99	6.10	6.20	6.29	6.39	6.49
Electricity Related Losses	10.14	10.27	10.40	10.52	10.66	10.81	10.95	11.09	11.24	11.37	11.49	11.62
Total	11.46	11.64	11.80	11.97	12.16	12.32	12.51	12.68	12.85	13.00	13.15	13.32
Total	21.59	21.91	22.20	22.49	22.82	23.13	23.46	23.77	24.08	24.37	24.65	24.94
Industrial 4/												
Distillate Fuel	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.20	1.21	1.23	1.24
Liquefied Petroleum Gas	2.15	2.15	2.15	2.17	2.18	2.20	2.22	2.22	2.24	2.25	2.26	2.27
Petrochemical Feedstocks	1.22	1.21	1.21	1.22	1.23	1.24	1.24	1.24	1.24	1.24	1.25	1.25
Residual Fuel	0.20	0.20	0.21	0.21	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21
Motor Gasoline 2/ Other Petroleum 5/ Petroleum Subtotal	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Total	4.20	4.23	4.26	4.30	4.33	4.39	4.42	4.45	4.48	4.51	4.53	4.55
Natural Gas	9.05	9.09	9.14	9.20	9.27	9.38	9.43	9.48	9.53	9.58	9.63	9.68
Natural Gas	8.25	8.30	8.30	8.37	8.48	8.59	8.64	8.69	8.76	8.83	8.89	8.96
Lease and Plant Fuel 6/ Natural Gas Subtotal	1.41	1.43	1.43	1.44	1.45	1.48	1.50	1.54	1.57	1.59	1.60	1.61
Total	9.66	9.73	9.74	9.81	9.93	10.07	10.13	10.23	10.33	10.43	10.49	10.56
Metallurgical Coal	0.61	0.59	0.58	0.57	0.56	0.55	0.53	0.52	0.51	0.50	0.49	0.48
Steam Coal	1.36	1.36	1.36	1.36	1.36	1.37	1.37	1.37	1.37	1.38	1.38	1.38
Net Coal Coke 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



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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Coal Subtotal	1.97	1.96	1.94	1.93	1.92	1.92	1.90	1.90	1.89	1.88	1.87	1.86
Renewable Energy 7/	1.94	1.98	2.01	2.04	2.08	2.11	2.14	2.16	2.19	2.22	2.25	2.28
Electricity	3.63	3.67	3.70	3.75	3.81	3.87	3.90	3.93	3.96	4.00	4.04	4.07
Delivered Energy	26.25	26.42	26.52	26.73	27.01	27.34	27.49	27.68	27.90	28.10	28.27	28.45
Electricity Related Losses	7.75	7.80	7.84	7.93	8.02	8.10	8.14	8.17	8.21	8.26	8.31	8.36
Total	34.00	34.22	34.37	34.65	35.03	35.45	35.63	35.85	36.11	36.36	36.59	36.82
Transportation												
Distillate Fuel 8/	6.37	6.49	6.59	6.71	6.84	6.96	7.06	7.16	7.28	7.40	7.53	7.67
Jet Fuel 9/	4.10	4.18	4.25	4.34	4.42	4.48	4.53	4.57	4.61	4.64	4.67	4.70
Motor Gasoline 2/	20.38	20.64	20.89	21.13	21.36	21.59	21.83	22.06	22.31	22.59	22.88	23.21
Residual Fuel	0.79	0.79	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.81	0.81	0.81
Liquefied Petroleum Gas	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08
Other Petroleum 10/	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28
Petroleum Subtotal	31.95	32.42	32.84	33.29	33.74	34.17	34.56	34.94	35.35	35.78	36.24	36.75
Pipeline Fuel Natural Gas	0.68	0.69	0.69	0.69	0.69	0.70	0.71	0.75	0.78	0.79	0.79	0.80
Compressed Natural Gas	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09
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	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	0.00
Electricity	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.12
Delivered Energy	32.80	33.29	33.71	34.16	34.61	35.06	35.47	35.88	36.33	36.78	37.25	37.76
Electricity Related Losses	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24
Total	33.00	33.49	33.92	34.37	34.82	35.28	35.69	36.11	36.55	37.01	37.48	38.00
Delivered Energy Consumption, All Sectors												
Distillate Fuel	9.05	9.18	9.28	9.41	9.54	9.68	9.78	9.89	10.00	10.12	10.26	10.41
Kerosene	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14
Jet Fuel 9/	4.10	4.18	4.25	4.34	4.42	4.48	4.53	4.57	4.61	4.64	4.67	4.70
Liquefied Petroleum Gas	2.88	2.88	2.89	2.92	2.94	2.96	2.98	3.00	3.01	3.03	3.04	3.06
Motor Gasoline 2/	20.58	20.85	21.09	21.33	21.56	21.80	22.03	22.26	22.52	22.80	23.09	23.43
Petrochemical Feedstocks	1.22	1.21	1.21	1.22	1.23	1.24	1.24	1.24	1.24	1.24	1.25	1.25
Residual Fuel	1.13	1.13	1.14	1.13	1.13	1.13	1.14	1.14	1.14	1.14	1.14	1.15
Other Petroleum 12/	4.42	4.46	4.49	4.53	4.57	4.63	4.66	4.70	4.73	4.76	4.79	4.81
Petroleum Subtotal	43.53	44.04	44.51	45.02	45.54	46.07	46.51	46.94	47.40	47.88	48.38	48.93
Natural Gas	17.68	17.76	17.81	17.95	18.11	18.28	18.38	18.51	18.65	18.79	18.89	19.00
Lease and Plant Fuel 6/	1.41	1.43	1.43	1.44	1.45	1.48	1.50	1.54	1.57	1.59	1.60	1.61
Pipeline Natural Gas	0.68	0.69	0.69	0.69	0.69	0.70	0.71	0.75	0.78	0.79	0.79	0.80
Natural Gas Subtotal	19.77	19.89	19.93	20.07	20.25	20.47	20.59	20.80	21.00	21.17	21.28	21.41
Metallurgical Coal	0.61	0.59	0.58	0.57	0.56	0.55	0.53	0.52	0.51	0.50	0.49	0.48
Steam Coal	1.47	1.47	1.47	1.47	1.47	1.48	1.48	1.48	1.48	1.48	1.49	1.49
Net Coal Coke 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
Coal Subtotal	2.08	2.07	2.05	2.04	2.03	2.03	2.01	2.00	2.00	1.99	1.98	1.97
Renewable Energy 13/	2.44	2.48	2.51	2.54	2.58	2.62	2.64	2.66	2.69	2.72	2.75	2.78
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	14.14	14.35	14.55	14.76	14.98	15.21	15.40	15.61	15.80	15.99	16.19	16.39
Delivered Energy	81.95	82.82	83.55	84.43	85.37	86.38	87.15	88.01	88.88	89.74	90.57	91.48
Electricity Related Losses	30.18	30.50	30.80	31.17	31.53	31.85	32.18	32.49	32.74	33.04	33.33	33.66
Total	112.13	113.32	114.34	115.61	116.89	118.22	119.33	120.50	121.62	122.78	123.90	125.15

Electric Generators 14/

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Distillate Fuel	0.24	0.30	0.34	0.36	0.33	0.32	0.34	0.32	0.28	0.27	0.28	0.32
Residual Fuel	0.53	0.55	0.56	0.57	0.57	0.56	0.58	0.56	0.54	0.55	0.56	0.56
Petroleum Subtotal	0.77	0.85	0.90	0.93	0.89	0.88	0.93	0.88	0.82	0.82	0.84	0.88
Natural Gas	6.92	7.06	7.10	7.25	7.55	7.81	7.86	7.93	7.96	8.11	8.10	8.19
Steam Coal	23.26	23.47	23.76	24.11	24.32	24.58	24.97	25.41	25.83	26.12	26.53	26.92
Nuclear Power	8.41	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53	8.53	8.53
Renewable Energy/Other 15/ Electricity Imports	4.86 0.10	4.93 0.09	5.00 0.09	5.06 0.08	5.14 0.08	5.18 0.07	5.25 0.06	5.30 0.06	5.35 0.05	5.42 0.04	5.48 0.03	5.52 0.03
Total	44.32	44.85	45.34	45.94	46.50	47.05	47.58	48.10	48.55	49.04	49.51	50.06
<b>Total Energy Consumption</b>												
Distillate Fuel	9.29	9.47	9.62	9.77	9.87	10.00	10.12	10.20	10.28	10.40	10.54	10.73
Kerosene	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14
Jet Fuel 9/	4.10	4.18	4.25	4.34	4.42	4.48	4.53	4.57	4.61	4.64	4.67	4.70
Liquefied Petroleum Gas	2.88	2.88	2.89	2.92	2.94	2.96	2.98	3.00	3.01	3.03	3.04	3.06
Motor Gasoline 2/	20.58	20.85	21.09	21.33	21.56	21.80	22.03	22.26	22.52	22.80	23.09	23.43
Petrochemical Feedstocks	1.22	1.21	1.21	1.22	1.23	1.24	1.24	1.24	1.24	1.24	1.25	1.25
Residual Fuel	1.66	1.68	1.69	1.70	1.70	1.70	1.72	1.70	1.68	1.69	1.70	1.71
Other Petroleum 12/ Petroleum Subtotal	4.42 44.30	4.46 44.89	4.49 45.41	4.53 45.96	4.57 46.43	4.63 46.95	4.66 47.44	4.70 47.82	4.73 48.22	4.76 48.70	4.79 49.22	4.81 49.81
Natural Gas	24.60	24.83	24.92	25.20	25.66	26.09	26.24	26.44	26.62	26.90	27.00	27.20
Lease and Plant Fuel 6/ Pipeline Natural Gas	1.41 0.68	1.43 0.69	1.43 0.69	1.44 0.69	1.45 0.69	1.48 0.70	1.50 0.71	1.54 0.75	1.57 0.78	1.59 0.79	1.60 0.79	1.61 0.80
Natural Gas Subtotal	26.69	26.95	27.04	27.33	27.81	28.28	28.45	28.73	28.96	29.28	29.39	29.60
Metallurgical Coal	0.61	0.59	0.58	0.57	0.56	0.55	0.53	0.52	0.51	0.50	0.49	0.48
Steam Coal	24.73	24.94	25.23	25.58	25.80	26.06	26.45	26.89	27.32	27.60	28.02	28.40
Net Coal Coke 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
Coal Subtotal	25.33	25.53	25.81	26.15	26.35	26.61	26.98	27.41	27.83	28.10	28.51	28.89
Nuclear Power	8.41	8.45	8.48	8.50	8.52	8.52	8.53	8.53	8.53	8.53	8.53	8.53
Renewable Energy 16/ Liquid Hydrogen	7.30 0.00	7.41 0.00	7.51 0.00	7.60 0.00	7.71 0.00	7.80 0.00	7.89 0.00	7.97 0.00	8.04 0.00	8.14 0.00	8.23 0.00	8.30 0.00
Electricity Imports	0.10	0.09	0.09	0.08	0.08	0.07	0.06	0.06	0.05	0.04	0.03	0.03
Total	112.13	113.32	114.35	115.61	116.90	118.23	119.33	120.51	121.63	122.79	123.91	125.15
<b>Energy Use &amp; Related Statistics</b>												
Delivered Energy Use	81.95	82.82	83.55	84.43	85.37	86.38	87.15	88.01	88.88	89.74	90.57	91.48
Total Energy Use	112.13	113.32	114.34	115.61	116.89	118.22	119.33	120.50	121.62	122.78	123.90	125.15
Population (millions)	309.63	311.44	313.23	315.02	316.82	318.61	320.39	322.17	323.95	325.75	327.55	329.44
US GDP (billion 1996 dollars)	12611	12926	13216	13521	13851	14179	14442	14722	14990	15290	15599	15913
Carbon Dioxide Emissions (million metric tons)	6598.8	6672.4	6739.4	6822.3	6897.8	6979.0	7056.7	7136.5	7215.4	7290.1	7369.8	7458.4

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

	2025	2002- 2025
Energy Consumption		
Residential		
Distillate Fuel	0.80	-0.5%
Kerosene	0.09	1.3%
Liquefied Petroleum Gas	0.62	0.7%
Petroleum Subtotal	1.51	0.1%
Natural Gas	5.99	0.7%
Coal	0.01	-0.3%
Renewable Energy 1/	0.39	0.0%
Electricity	5.75	1.2%
Delivered Energy	13.66	0.8%
Electricity Related Losses	11.77	0.9%
Total	25.43	0.9%
Commercial		
Distillate Fuel	0.68	1.5%
Residual Fuel	0.13	2.2%
Kerosene	0.02	1.4%
Liquefied Petroleum Gas	0.10	0.3%
Motor Gasoline 2/	0.05	0.1%
Petroleum Subtotal	0.99	1.3%
Natural Gas	3.98	0.9%
Coal	0.10	0.0%
Renewable Energy 3/	0.10	0.0%
Electricity	6.59	2.1%
Delivered Energy	11.75	1.5%
Electricity Related Losses	13.49	1.7%
Total	25.24	1.6%
Industrial 4/		
Distillate Fuel	1.25	0.3%
Liquefied Petroleum Gas	2.28	0.1%
Petrochemical Feedstocks	1.25	0.1%
Residual Fuel	0.21	0.2%
Motor Gasoline 2/	0.16	0.2%
Other Petroleum 5/	4.58	0.6%
Petroleum Subtotal	9.73	0.3%
Natural Gas	9.02	0.8%
Lease and Plant Fuel 6/	1.61	0.8%
Natural Gas Subtotal	10.64	0.8%
Metallurgical Coal	0.47	-1.2%
Steam Coal	1.38	-0.3%
Net Coal Coke Imports	0.00	N/A

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

	2025	2002-2025
Coal Subtotal	1.86	-0.6%
Renewable Energy 7/	2.32	1.5%
Electricity	4.12	0.8%
Delivered Energy	28.66	0.6%
Electricity Related Losses	8.43	0.5%
Total	37.09	0.6%
Transportation		
Distillate Fuel 8/	7.83	1.9%
Jet Fuel 9/	4.72	1.5%
Motor Gasoline 2/	23.58	1.5%
Residual Fuel	0.81	0.6%
Liquefied Petroleum Gas	0.08	6.4%
Other Petroleum 10/	0.28	0.7%
Petroleum Subtotal	37.30	1.6%
Pipeline Fuel Natural Gas	0.80	0.9%
Compressed Natural Gas	0.10	8.7%
Renewable Energy (E85) 11/	0.00	7.0%
Liquid Hydrogen	0.00	N/A
Electricity	0.12	2.0%
Delivered Energy	38.32	1.6%
Electricity Related Losses	0.24	1.6%
Total	38.56	1.6%
Delivered Energy Consumption, All Sectors		
Distillate Fuel	10.56	1.4%
Kerosene	0.13	1.7%
Jet Fuel 9/	4.72	1.5%
Liquefied Petroleum Gas	3.08	0.3%
Motor Gasoline 2/	23.79	1.5%
Petrochemical Feedstocks	1.25	0.1%
Residual Fuel	1.15	0.6%
Other Petroleum 12/	4.84	0.6%
Petroleum Subtotal	49.53	1.2%
Natural Gas	19.09	0.8%
Lease and Plant Fuel 6/	1.61	0.8%
Pipeline Natural Gas	0.80	0.9%
Natural Gas Subtotal	21.50	0.8%
Metallurgical Coal	0.47	-1.2%
Steam Coal	1.49	-0.3%
Net Coal Coke Imports	0.00	N/A
Coal Subtotal	1.96	-0.5%
Renewable Energy 13/	2.82	1.2%
Liquid Hydrogen	0.00	N/A
Electricity	16.58	1.4%
Delivered Energy	92.39	1.1%
Electricity Related Losses	33.93	1.1%
Total	126.32	1.1%

Electric Generators 14/

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

	2002	2002- 2025
Distillate Fuel	0.31	3.0%
Residual Fuel	0.57	-0.8%
Petroleum Subtotal	0.89	0.2%
Natural Gas	8.34	1.7%
Steam Coal	27.19	1.4%
Nuclear Power	8.53	0.2%
Renewable Energy/Other 15/	5.55	1.8%
Electricity Imports	0.03	-4.6%
Total	50.52	1.2%
<b>Total Energy Consumption</b>		
Distillate Fuel	10.88	1.4%
Kerosene	0.13	1.7%
Jet Fuel 9/	4.72	1.5%
Liquefied Petroleum Gas	3.08	0.3%
Motor Gasoline 2/	23.79	1.5%
Petrochemical Feedstocks	1.25	0.1%
Residual Fuel	1.72	0.1%
Other Petroleum 12/	4.84	0.6%
Petroleum Subtotal	50.41	1.2%
Natural Gas	27.43	1.1%
Lease and Plant Fuel 6/	1.61	0.8%
Pipeline Natural Gas	0.80	0.9%
Natural Gas Subtotal	29.85	1.1%
Metallurgical Coal	0.47	-1.2%
Steam Coal	28.68	1.3%
Net Coal Coke Imports	0.00	N/A
Coal Subtotal	29.16	1.2%
Nuclear Power	8.53	0.2%
Renewable Energy 16/	8.36	1.6%
Liquid Hydrogen	0.00	N/A
Electricity Imports	0.03	-4.6%
Total	126.33	1.1%
<b>Energy Use &amp; Related Statistics</b>		
Delivered Energy Use	92.39	1.1%
Total Energy Use	126.32	1.1%
Population (millions)	331.35	0.6%
US GDP (billion 1996 dollars)	16280	2.4%
Carbon Dioxide Emissions (million metric tons)	7537.9	1.2%

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 LM2004.D101703A.

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Residential	15.95	14.73	15.60	15.14	14.63	14.32	14.12	14.02	13.95	13.86	13.89
Primary Energy 1/	9.85	8.14	9.58	9.23	8.63	8.43	8.34	8.28	8.13	8.04	8.13
Petroleum Products 2/	10.95	9.87	11.53	10.83	9.68	9.68	9.67	9.71	9.74	9.75	9.80
Distillate Fuel	9.09	8.23	9.11	8.31	7.86	7.79	7.73	7.77	7.76	7.73	7.75
Liquefied Petroleum Gas	15.05	12.92	16.49	16.15	13.55	13.58	13.61	13.59	13.63	13.64	13.71
Natural Gas	9.53	7.65	9.03	8.78	8.34	8.08	7.97	7.88	7.69	7.57	7.67
Electricity	25.51	24.73	24.88	24.33	23.92	23.40	22.97	22.74	22.72	22.56	22.43
Commercial	15.67	14.68	15.01	14.51	14.03	13.65	13.42	13.38	13.43	13.39	13.46
Primary Energy 1/	8.07	6.35	7.84	7.29	6.82	6.63	6.58	6.55	6.43	6.37	6.45
Petroleum Products 2/	7.25	6.88	7.62	7.01	6.34	6.24	6.22	6.24	6.24	6.22	6.25
Distillate Fuel	6.38	6.07	6.71	6.12	5.47	5.40	5.35	5.38	5.38	5.36	5.38
Residual Fuel	3.51	4.21	4.97	4.13	3.98	3.98	4.00	4.02	4.03	4.05	4.07
Natural Gas	8.44	6.37	8.08	7.53	7.10	6.88	6.82	6.77	6.62	6.53	6.64
Electricity	23.43	22.82	22.29	21.51	20.94	20.33	19.86	19.71	19.85	19.77	19.74
Industrial 3/	7.24	6.31	7.29	6.67	6.30	6.22	6.21	6.27	6.26	6.19	6.24
Primary Energy	5.87	4.77	6.09	5.41	5.02	4.96	4.98	5.03	5.00	4.95	5.02
Petroleum Products 2/	7.73	6.35	7.50	7.13	6.58	6.58	6.57	6.64	6.68	6.60	6.66
Distillate Fuel	6.62	6.21	6.87	6.27	5.64	5.56	5.55	5.56	5.58	5.57	5.59
Liquefied Petroleum Gas	12.48	8.28	10.56	10.33	9.23	9.30	9.29	9.42	9.45	9.29	9.43
Residual Fuel	3.31	3.89	4.60	3.82	3.59	3.60	3.61	3.63	3.65	3.66	3.68
Natural Gas 4/	4.91	3.75	5.60	4.45	4.09	3.97	4.00	4.06	3.97	3.94	4.05
Metallurgical Coal	1.71	1.87	2.03	2.01	1.98	1.97	1.94	1.94	1.93	1.92	1.90
Steam Coal	1.51	1.52	1.63	1.60	1.58	1.57	1.55	1.55	1.55	1.54	1.53
Electricity	15.11	14.74	13.96	13.61	13.41	13.12	12.96	12.96	13.05	12.88	12.78
Transportation	10.58	9.91	11.12	10.17	10.17	10.25	10.31	10.28	10.28	10.30	10.35
Primary Energy	10.55	9.88	11.09	10.14	10.15	10.22	10.28	10.25	10.25	10.28	10.32
Petroleum Products 2/	10.55	9.88	11.09	10.14	10.15	10.22	10.29	10.26	10.25	10.28	10.33
Distillate Fuel 5/	10.16	9.41	10.41	9.50	9.43	9.70	9.92	9.97	9.84	9.98	10.05
Jet Fuel 6/	6.27	5.97	6.72	6.33	5.85	5.65	5.53	5.59	5.63	5.64	5.71
Motor Gasoline 7/	11.99	11.15	12.54	11.42	11.56	11.63	11.69	11.62	11.64	11.64	11.67
Residual Fuel	3.94	3.77	4.45	3.70	3.46	3.46	3.48	3.49	3.51	3.52	3.54
Liquefied Petroleum Gas8/	17.12	15.00	16.47	16.46	14.74	14.76	14.74	14.70	14.69	14.65	14.68
Natural Gas 9/	8.69	7.38	9.43	8.21	7.87	7.85	7.98	8.11	8.09	8.12	8.26
Ethanol (E85) 10/	16.56	15.19	16.83	16.83	16.73	16.82	17.04	17.03	17.00	17.12	17.32
Electricity	21.58	21.10	21.35	20.67	20.09	19.49	19.12	19.03	19.14	19.07	19.07
Average End-Use Energy	10.95	10.10	11.10	10.41	10.15	10.08	10.05	10.05	10.06	10.03	10.09
Primary Energy	8.69	7.70	9.01	8.28	8.05	8.05	8.08	8.10	8.08	8.07	8.14
Electricity	21.79	21.20	20.90	20.35	19.95	19.48	19.12	19.01	19.09	18.97	18.89
Electric Generators 11/											
Fossil Fuel Average	2.27	1.89	2.22	1.99	1.89	1.85	1.85	1.88	1.85	1.85	1.88
Petroleum Products	5.00	4.32	4.91	4.52	4.18	4.19	4.18	4.18	4.15	4.13	4.17
Distillate Fuel	6.24	5.58	6.17	5.62	4.96	4.86	4.82	4.83	4.79	4.80	4.80

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Residual Fuel	4.55	4.04	4.65	4.01	3.87	3.89	3.90	3.90	3.90	3.92	3.93
Natural Gas	5.30	3.77	5.62	4.46	4.11	3.98	4.00	4.06	3.99	3.95	4.05
Steam Coal	1.25	1.26	1.24	1.23	1.23	1.22	1.20	1.20	1.20	1.19	1.19
Average Price to All Users 12/ Petroleum Products 2/ Distillate Fuel	9.74	8.94	10.11	9.42	9.23	9.30	9.35	9.35	9.38	9.40	9.44
Jet Fuel	9.14	8.52	9.38	8.60	8.35	8.52	8.66	8.71	8.66	8.78	8.83
Liquefied Petroleum Gas	6.27	5.97	6.72	6.33	5.85	5.65	5.53	5.59	5.63	5.64	5.71
Motor Gasoline 7/ Residual Fuel	13.00	9.27	11.82	11.59	10.20	10.27	10.29	10.39	10.44	10.33	10.46
Natural Gas	11.99	11.15	12.53	11.42	11.56	11.63	11.69	11.62	11.64	11.64	11.67
Coal	4.16	3.92	4.58	3.83	3.64	3.64	3.66	3.67	3.69	3.70	3.72
Ethanol (E85) 10/ Electricity	6.63	5.07	6.85	5.96	5.58	5.41	5.39	5.39	5.28	5.20	5.31
	1.27	1.28	1.27	1.25	1.25	1.24	1.22	1.23	1.22	1.22	1.21
	16.56	15.19	16.83	16.83	16.73	16.82	17.04	17.03	17.00	17.12	17.32
	21.79	21.20	20.90	20.35	19.95	19.48	19.12	19.01	19.09	18.97	18.89
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)											
Residential	168.08	160.37	173.30	171.79	167.43	166.13	165.75	166.77	167.22	167.84	169.61
Commercial	129.31	119.67	125.15	122.18	121.32	121.06	121.57	123.41	126.21	128.35	131.22
Industrial	138.60	120.96	137.77	125.38	119.46	117.91	118.07	118.83	118.49	117.85	119.45
Transportation	275.57	259.11	294.78	276.29	283.48	291.48	298.49	302.99	308.20	314.69	321.26
Total Non-Renewable Expenditures	711.55	660.11	731.01	695.63	691.69	696.58	703.87	712.00	720.12	728.73	741.53
Transportation Renewable Expenditures	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03
Total Expenditures	711.56	660.12	731.02	695.65	691.71	696.60	703.90	712.02	720.15	728.76	741.56



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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Residential	14.04	14.02	14.12	14.19	14.20	14.14	14.23	14.29	14.26	14.20	14.25
Primary Energy 1/	8.23	8.27	8.33	8.38	8.39	8.37	8.39	8.46	8.44	8.36	8.40
Petroleum Products 2/	9.84	9.88	9.91	9.96	10.02	10.11	10.18	10.25	10.30	10.33	10.39
Distillate Fuel	7.76	7.77	7.78	7.80	7.81	7.86	7.90	7.93	7.94	7.94	7.96
Liquefied Petroleum Gas	13.73	13.78	13.79	13.84	13.90	14.00	14.06	14.12	14.16	14.18	14.23
Natural Gas	7.80	7.84	7.90	7.96	7.96	7.91	7.92	8.00	7.96	7.87	7.90
Electricity	22.55	22.37	22.43	22.45	22.39	22.21	22.31	22.29	22.20	22.08	22.11
Commercial	13.64	13.55	13.72	13.87	13.92	13.88	14.01	14.09	14.09	14.04	14.11
Primary Energy 1/	6.57	6.61	6.67	6.73	6.74	6.71	6.73	6.80	6.78	6.72	6.76
Petroleum Products 2/	6.25	6.26	6.25	6.26	6.27	6.31	6.34	6.37	6.39	6.40	6.43
Distillate Fuel	5.39	5.40	5.39	5.40	5.42	5.46	5.50	5.52	5.54	5.55	5.59
Residual Fuel	4.08	4.10	4.12	4.13	4.15	4.17	4.19	4.21	4.22	4.23	4.25
Natural Gas	6.78	6.83	6.91	6.99	7.00	6.95	6.97	7.05	7.02	6.94	6.98
Electricity	19.89	19.60	19.77	19.93	19.94	19.83	19.98	20.01	19.95	19.86	19.93
Industrial 3/	6.33	6.33	6.38	6.48	6.52	6.52	6.56	6.63	6.65	6.63	6.68
Primary Energy	5.10	5.13	5.16	5.24	5.27	5.28	5.30	5.37	5.40	5.39	5.44
Petroleum Products 2/	6.68	6.69	6.67	6.72	6.74	6.81	6.84	6.89	6.95	6.97	7.03
Distillate Fuel	5.61	5.61	5.60	5.60	5.62	5.67	5.70	5.72	5.75	5.79	5.84
Liquefied Petroleum Gas	9.46	9.49	9.43	9.55	9.60	9.71	9.71	9.76	9.90	9.93	9.97
Residual Fuel	3.69	3.71	3.72	3.74	3.76	3.78	3.80	3.82	3.84	3.85	3.86
Natural Gas 4/	4.21	4.25	4.34	4.47	4.49	4.44	4.45	4.54	4.55	4.51	4.55
Metallurgical Coal	1.88	1.86	1.86	1.85	1.84	1.82	1.82	1.81	1.79	1.76	1.75
Steam Coal	1.52	1.51	1.50	1.48	1.47	1.46	1.46	1.45	1.45	1.45	1.45
Electricity	12.90	12.70	12.84	12.97	13.01	12.94	13.06	13.09	13.05	12.95	13.00
Transportation	10.32	10.27	10.24	10.23	10.22	10.20	10.15	10.12	10.09	10.09	10.09
Primary Energy	10.29	10.24	10.22	10.21	10.19	10.18	10.13	10.09	10.06	10.07	10.06
Petroleum Products 2/	10.29	10.25	10.22	10.21	10.20	10.18	10.13	10.09	10.07	10.07	10.07
Distillate Fuel 5/	10.01	9.85	9.88	9.91	9.85	9.77	9.59	9.46	9.38	9.39	9.36
Jet Fuel 6/	5.69	5.66	5.65	5.63	5.63	5.64	5.64	5.61	5.62	5.65	5.66
Motor Gasoline 7/	11.63	11.62	11.57	11.55	11.55	11.55	11.53	11.52	11.50	11.49	11.48
Residual Fuel	3.55	3.56	3.57	3.59	3.61	3.63	3.65	3.67	3.68	3.69	3.71
Liquefied Petroleum Gas8/	14.66	14.68	14.64	14.65	14.67	14.72	14.82	14.86	14.73	14.68	14.71
Natural Gas 9/	8.42	8.49	8.58	8.66	8.69	8.64	8.64	8.71	8.66	8.56	8.60
Ethanol (E85) 10/	17.48	17.53	17.58	17.63	17.68	17.71	17.75	17.46	17.47	18.16	18.22
Electricity	19.25	19.18	19.26	19.30	19.25	19.08	19.12	19.07	18.96	18.81	18.81
Average End-Use Energy	10.16	10.13	10.18	10.24	10.26	10.23	10.25	10.28	10.28	10.26	10.29
Primary Energy	8.19	8.19	8.21	8.25	8.26	8.25	8.24	8.26	8.26	8.25	8.27
Electricity	19.03	18.81	18.94	19.05	19.04	18.91	19.04	19.05	19.00	18.90	18.95
Electric Generators 11/											
Fossil Fuel Average	1.93	1.95	1.97	1.99	1.99	1.99	2.00	2.02	2.01	1.99	2.00
Petroleum Products	4.23	4.23	4.27	4.30	4.33	4.35	4.38	4.40	4.41	4.43	4.45
Distillate Fuel	4.82	4.83	4.82	4.81	4.84	4.89	4.93	4.95	4.97	4.99	5.04

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Residual Fuel	3.94	3.96	3.97	3.99	4.01	4.04	4.06	4.08	4.10	4.13	4.15
Natural Gas	4.21	4.27	4.35	4.45	4.48	4.43	4.43	4.52	4.52	4.47	4.52
Steam Coal	1.19	1.18	1.17	1.16	1.15	1.15	1.15	1.14	1.15	1.15	1.14
Average Price to All Users 12/											
Petroleum Products 2/	9.42	9.40	9.38	9.38	9.38	9.39	9.37	9.36	9.36	9.37	9.39
Distillate Fuel	8.79	8.70	8.70	8.71	8.68	8.67	8.56	8.48	8.45	8.48	8.47
Jet Fuel	5.69	5.66	5.65	5.63	5.63	5.64	5.64	5.61	5.62	5.65	5.66
Liquefied Petroleum Gas	10.49	10.53	10.49	10.60	10.66	10.76	10.78	10.84	10.95	10.97	11.02
Motor Gasoline 7/	11.63	11.61	11.57	11.55	11.55	11.55	11.53	11.52	11.50	11.49	11.48
Residual Fuel	3.73	3.75	3.76	3.78	3.80	3.83	3.85	3.87	3.88	3.90	3.91
Natural Gas	5.45	5.49	5.56	5.66	5.67	5.60	5.60	5.69	5.67	5.61	5.65
Coal	1.21	1.20	1.19	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.16
Ethanol (E85) 10/	17.48	17.53	17.58	17.63	17.68	17.71	17.75	17.46	17.47	18.16	18.22
Electricity	19.03	18.81	18.94	19.05	19.04	18.91	19.04	19.05	19.00	18.90	18.95
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)											
Residential	172.93	173.43	175.65	177.66	179.32	179.34	181.62	183.50	184.85	184.74	186.66
Commercial	134.91	136.02	139.54	142.84	145.11	146.67	150.02	152.88	154.83	156.35	159.08
Industrial	121.81	122.40	124.12	126.46	128.06	129.39	131.83	133.65	134.70	135.05	137.02
Transportation	325.68	329.77	333.86	337.89	342.07	346.03	348.76	351.67	354.55	358.75	363.06
Total Non-Renewable Expenditures	755.34	761.62	773.17	784.86	794.57	801.42	812.22	821.70	828.93	834.90	845.81
Transportation Renewable Expenditures	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05
Total Expenditures	755.37	761.66	773.21	784.90	794.61	801.47	812.27	821.75	828.98	834.96	845.87

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

	2023	2024	2025	2002- 2025
Residential	14.34	14.47	14.63	0.0%
Primary Energy 1/	8.50	8.57	8.68	0.3%
Petroleum Products 2/	10.52	10.62	10.72	0.4%
Distillate Fuel	8.05	8.13	8.19	0.0%
Liquefied Petroleum Gas	14.36	14.42	14.49	0.5%
Natural Gas	8.00	8.07	8.18	0.3%
Electricity	22.13	22.25	22.39	-0.4%
Commercial	14.19	14.35	14.54	0.0%
Primary Energy 1/	6.85	6.91	7.01	0.4%
Petroleum Products 2/	6.50	6.55	6.61	-0.2%
Distillate Fuel	5.67	5.73	5.81	-0.2%
Residual Fuel	4.27	4.28	4.30	0.1%
Natural Gas	7.07	7.14	7.25	0.6%
Electricity	19.95	20.13	20.31	-0.5%
Industrial 3/	6.77	6.84	6.94	0.4%
Primary Energy	5.53	5.58	5.67	0.8%
Petroleum Products 2/	7.13	7.18	7.25	0.6%
Distillate Fuel	5.92	5.96	6.06	-0.1%
Liquefied Petroleum Gas	10.09	10.14	10.20	0.9%
Residual Fuel	3.88	3.90	3.92	0.0%
Natural Gas 4/	4.65	4.70	4.82	1.1%
Metallurgical Coal	1.72	1.71	1.70	-0.4%
Steam Coal	1.43	1.43	1.42	-0.3%
Electricity	13.03	13.17	13.31	-0.4%
Transportation	10.09	10.09	10.14	0.1%
Primary Energy	10.07	10.06	10.11	0.1%
Petroleum Products 2/	10.07	10.07	10.11	0.1%
Distillate Fuel 5/	9.36	9.33	9.40	0.0%
Jet Fuel 6/	5.68	5.70	5.77	-0.2%
Motor Gasoline 7/	11.48	11.47	11.49	0.1%
Residual Fuel	3.73	3.74	3.76	0.0%
Liquefied Petroleum Gas8/	14.83	14.88	14.94	0.0%
Natural Gas 9/	8.69	8.75	8.86	0.8%
Ethanol (E85) 10/	18.28	18.34	18.41	0.8%
Electricity	18.80	18.90	19.00	-0.5%
Average End-Use Energy	10.35	10.41	10.50	0.2%
Primary Energy	8.33	8.36	8.44	0.4%
Electricity	18.98	19.13	19.28	-0.4%
Electric Generators 11/				
Fossil Fuel Average	2.01	2.03	2.06	0.4%
Petroleum Products	4.49	4.55	4.58	0.2%
Distillate Fuel	5.13	5.20	5.28	-0.2%

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

	2023	2024	2025	2002- 2025
Residual Fuel	4.17	4.18	4.20	0.2%
Natural Gas	4.61	4.66	4.78	1.0%
Steam Coal	1.14	1.14	1.14	-0.4%
Average Price to All Users 12/				
Petroleum Products 2/	9.42	9.44	9.49	0.3%
Distillate Fuel	8.50	8.50	8.58	0.0%
Jet Fuel	5.68	5.70	5.77	-0.2%
Liquefied Petroleum Gas	11.14	11.19	11.25	0.8%
Motor Gasoline 7/	11.48	11.47	11.49	0.1%
Residual Fuel	3.93	3.94	3.96	0.1%
Natural Gas	5.74	5.80	5.91	0.7%
Coal	1.16	1.16	1.16	-0.4%
Ethanol (E85) 10/	18.28	18.34	18.41	0.8%
Electricity	18.98	19.13	19.28	-0.4%
Non-Renewable Energy Expenditures by Sector (billion 2002 dollars)				
Residential	188.81	191.80	194.06	0.8%
Commercial	161.74	165.34	169.38	1.5%
Industrial	139.60	141.87	145.04	0.8%
Transportation	367.92	373.03	380.37	1.7%
Total Non-Renewable Expenditures	858.07	872.05	888.85	1.3%
Transportation Renewable Expenditures	0.06	0.06	0.06	7.9%
Total Expenditures	858.13	872.10	888.91	1.3%

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

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

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

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

4/ Excludes use for lease and plant fuel.

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

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

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

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

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

10/ E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol 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](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf) (August 2003). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2001, DOE/EIA-0131(2001) (Washington, DC, February 2003). 2002 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2003/06) (Washington, DC, June 2003). 2001 and 2002 electric power sector natural gas prices: Federal Energy Regulatory Commissions, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2001 and 2002 industrial natural gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2001 and 2002 coal prices based on EIA, Quarterly Coal Report, October-December 2002, DOE/EIA-0340(2002/4Q) (Washington, DC, March 2003) and EIA, AEO2004 National Energy Modeling System run LM2004.D101703A. 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 LM2004.D101703A.

**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	2012	2013
<b>Key Indicators</b>													
<b>Households (millions)</b>													
Single-Family	73.73	74.77	75.83	76.72	77.62	78.52	79.44	80.33	81.18	82.01	82.83	83.60	84.34
Multifamily	28.96	29.20	29.41	29.57	29.71	29.85	30.01	30.18	30.34	30.50	30.68	30.84	31.02
Mobile Homes	6.37	6.31	6.23	6.14	6.08	6.05	6.05	6.09	6.14	6.21	6.27	6.33	6.38
Total	109.06	110.28	111.47	112.43	113.41	114.42	115.50	116.59	117.66	118.72	119.77	120.77	121.74
Average House Square Footage	1684	1689	1695	1700	1705	1711	1715	1720	1724	1728	1732	1736	1740
<b>Energy Intensity</b>													
<b>(million Btu per household)</b>													
Delivered Energy Consumption	100.0	102.3	103.3	104.5	104.4	104.9	105.1	105.5	105.3	105.4	105.3	105.4	104.9
Total Energy Consumption	185.0	189.4	190.3	191.5	191.8	192.8	193.4	194.4	193.4	193.7	193.7	194.0	193.4
<b>(thousand Btu per square foot)</b>													
Delivered Energy Consumption	59.4	60.6	61.0	61.5	61.2	61.3	61.3	61.3	61.1	61.0	60.8	60.7	60.3
Total Energy Consumption	109.9	112.1	112.3	112.7	112.4	112.7	112.8	113.0	112.2	112.1	111.8	111.8	111.2
<b>Delivered Energy Consumption by Fuel</b>													
<b>Electricity</b>													
Space Heating	0.38	0.40	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.43	0.43
Space Cooling	0.63	0.71	0.64	0.66	0.66	0.67	0.68	0.68	0.69	0.69	0.70	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	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	0.36	0.35
Cooking	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Clothes Dryers	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Freezers	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11
Lighting	0.72	0.75	0.76	0.78	0.79	0.81	0.82	0.84	0.85	0.86	0.88	0.89	0.90
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	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	0.03	0.03
Color Televisions	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.18	0.18	0.19	0.20	0.20
Personal Computers	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.09	0.09
Furnace Fans	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09
Other Uses 2/	0.79	0.88	0.97	1.01	1.04	1.08	1.12	1.17	1.20	1.24	1.28	1.32	1.35
Delivered Energy	4.10	4.33	4.37	4.44	4.49	4.56	4.63	4.72	4.78	4.85	4.92	5.00	5.05
<b>Natural Gas</b>													
Space Heating	3.39	3.54	3.69	3.74	3.76	3.81	3.86	3.91	3.94	3.98	4.01	4.03	4.04
Space Cooling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Heating	1.16	1.15	1.15	1.19	1.19	1.21	1.22	1.23	1.23	1.24	1.24	1.24	1.24
Cooking	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.24	0.24
Clothes Dryers	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	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	0.11	0.11
Delivered Energy	4.92	5.06	5.21	5.32	5.35	5.43	5.49	5.55	5.59	5.65	5.68	5.72	5.72
<b>Distillate</b>													
Space Heating	0.77	0.77	0.81	0.83	0.83	0.83	0.83	0.83	0.82	0.81	0.81	0.80	0.80
Water Heating	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	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	0.00	0.00
Delivered Energy	0.90	0.89	0.92	0.95	0.95	0.96	0.95	0.95	0.94	0.93	0.92	0.92	0.91
<b>Liquefied Petroleum Gas</b>													
Space Heating	0.29	0.30	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

**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	2012	2013
Water Heating	0.05	0.05	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	0.03	0.03
Other Uses 3/ Delivered Energy	0.14	0.15	0.14	0.15	0.15	0.16	0.17	0.17	0.17	0.18	0.18	0.19	0.19
Marketed Renewables (wood) 5/ Other Fuels 6/	0.36	0.39	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Delivered Energy Consumption by End-Use													
Space Heating	5.31	5.48	5.70	5.79	5.82	5.89	5.93	5.99	6.01	6.05	6.07	6.10	6.09
Space Cooling	0.63	0.71	0.64	0.66	0.66	0.67	0.68	0.68	0.69	0.69	0.70	0.70	0.70
Water Heating	1.71	1.69	1.68	1.73	1.73	1.75	1.76	1.77	1.77	1.78	1.78	1.78	1.77
Refrigeration	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35
Cooking	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.38	0.38
Clothes Dryers	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35
Freezers	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11
Lighting	0.72	0.75	0.76	0.78	0.79	0.81	0.82	0.84	0.85	0.86	0.88	0.89	0.90
Clothes Washers	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	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	0.03	0.03
Color Televisions	0.12	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.18	0.18	0.19	0.20	0.20
Personal Computers	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.09	0.09
Furnace Fans	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09
Other Uses 7/ Delivered Energy	1.02	1.13	1.21	1.26	1.30	1.34	1.39	1.44	1.48	1.53	1.57	1.62	1.65
Electricity Related Losses	9.28	9.60	9.69	9.78	9.90	10.05	10.20	10.36	10.37	10.48	10.59	10.71	10.77
Total Energy Consumption by End-Use													
Space Heating	6.16	6.36	6.61	6.69	6.72	6.80	6.85	6.91	6.92	6.96	6.99	7.02	7.02
Space Cooling	2.05	2.29	2.07	2.10	2.13	2.15	2.16	2.18	2.17	2.18	2.19	2.21	2.21
Water Heating	2.57	2.51	2.50	2.55	2.55	2.57	2.57	2.58	2.57	2.58	2.57	2.57	2.55
Refrigeration	1.41	1.37	1.33	1.30	1.27	1.25	1.22	1.20	1.17	1.15	1.14	1.13	1.11
Cooking	0.57	0.57	0.57	0.58	0.58	0.59	0.59	0.60	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	0.88	0.89	0.89	0.89	0.89
Freezers	0.45	0.43	0.42	0.41	0.39	0.39	0.38	0.38	0.37	0.36	0.36	0.36	0.36
Lighting	2.34	2.41	2.45	2.50	2.54	2.59	2.64	2.69	2.70	2.73	2.76	2.79	2.81
Clothes Washers	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.14
Dishwashers	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Color Televisions	0.38	0.40	0.42	0.44	0.47	0.49	0.52	0.54	0.56	0.58	0.60	0.62	0.64
Personal Computers	0.21	0.21	0.20	0.20	0.20	0.20	0.21	0.22	0.23	0.25	0.26	0.27	0.28
Furnace Fans	0.24	0.25	0.25	0.25	0.26	0.26	0.27	0.28	0.28	0.28	0.28	0.29	0.29
Other Uses 7/ Total	2.79	3.09	3.36	3.48	3.59	3.73	3.86	4.00	4.09	4.22	4.33	4.44	4.54
Non-Marketed Renewables													
Geothermal 8/ Solar 9/ Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	0.04	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
	0.04	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04

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

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Key Indicators</b>													
<b>Households (millions)</b>													
Single-Family	85.06	85.74	86.41	87.06	87.70	88.31	88.91	89.49	90.06	90.61	91.15	91.66	0.9%
Multifamily	31.20	31.37	31.56	31.75	31.95	32.15	32.34	32.54	32.73	32.92	33.11	33.30	0.6%
Mobile Homes	6.43	6.47	6.52	6.56	6.60	6.64	6.68	6.71	6.74	6.77	6.79	6.81	0.3%
Total	122.69	123.59	124.48	125.37	126.25	127.10	127.93	128.75	129.53	130.30	131.05	131.77	0.8%
Average House Square Footage	1743	1746	1750	1753	1756	1758	1761	1764	1767	1769	1772	1774	0.2%
<b>Energy Intensity</b>													
<b>(million Btu per household)</b>													
Delivered Energy Consumption	104.7	104.5	104.7	104.3	104.3	104.2	104.4	104.2	104.2	104.0	104.1	103.6	0.1%
Total Energy Consumption	193.2	193.1	193.6	193.2	193.1	193.1	193.6	193.2	193.3	193.3	193.7	193.0	0.1%
<b>(thousand Btu per square foot)</b>													
Delivered Energy Consumption	60.1	59.9	59.8	59.5	59.4	59.2	59.3	59.1	59.0	58.8	58.8	58.4	-0.2%
Total Energy Consumption	110.8	110.6	110.6	110.2	110.0	109.8	109.9	109.5	109.4	109.2	109.3	108.8	-0.1%
<b>Delivered Energy Consumption by Fuel</b>													
<b>Electricity</b>													
Space Heating	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.44	0.5%
Space Cooling	0.71	0.71	0.72	0.73	0.73	0.74	0.74	0.75	0.75	0.76	0.77	0.77	0.3%
Water Heating	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	-0.4%
Refrigeration	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	-0.8%
Cooking	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.7%
Clothes Dryers	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.5%
Freezers	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.6%
Lighting	0.90	0.91	0.92	0.93	0.94	0.94	0.95	0.96	0.97	0.98	0.98	0.99	1.2%
Clothes Washers 1/	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	2.8%
Dishwashers 1/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.0%
Color Televisions	0.21	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.26	0.26	0.26	0.26	3.4%
Personal Computers	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.13	0.13	3.1%
Furnace Fans	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	1.5%
Other Uses 2/	1.39	1.42	1.46	1.49	1.52	1.56	1.59	1.63	1.66	1.70	1.74	1.77	3.1%
Delivered Energy	5.11	5.17	5.24	5.29	5.35	5.41	5.49	5.53	5.59	5.65	5.72	5.75	1.2%
<b>Natural Gas</b>													
Space Heating	4.06	4.07	4.10	4.12	4.14	4.16	4.20	4.22	4.24	4.26	4.28	4.28	0.8%
Space Cooling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.6%
Water Heating	1.24	1.23	1.23	1.23	1.23	1.23	1.24	1.24	1.24	1.24	1.23	1.23	0.3%
Cooking	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.9%
Clothes Dryers	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	2.1%
Other Uses 3/	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.9%
Delivered Energy	5.74	5.75	5.79	5.81	5.84	5.86	5.91	5.93	5.96	5.98	6.00	5.99	0.7%
<b>Distillate</b>													
Space Heating	0.79	0.78	0.78	0.77	0.76	0.76	0.75	0.74	0.74	0.73	0.72	0.71	-0.3%
Water Heating	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	-1.2%
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	0.00	N/A
Delivered Energy	0.90	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80	-0.5%
<b>Liquefied Petroleum Gas</b>													
Space Heating	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.0%



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

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
Water Heating	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.3%
Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.1%
Other Uses 3/ Delivered Energy	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.24	0.24	2.1%
	0.57	0.58	0.58	0.59	0.59	0.60	0.60	0.60	0.61	0.61	0.61	0.62	0.7%
Marketed Renewables (wood) 5/ Other Fuels 6/	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.0%
	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.10	0.10	1.1%
Delivered Energy Consumption by End-Use													
Space Heating	6.10	6.12	6.15	6.15	6.17	6.18	6.21	6.21	6.23	6.23	6.25	6.23	0.6%
Space Cooling	0.71	0.71	0.72	0.73	0.73	0.74	0.74	0.75	0.75	0.76	0.77	0.77	0.3%
Water Heating	1.76	1.76	1.76	1.75	1.75	1.74	1.74	1.74	1.73	1.72	1.72	1.70	0.0%
Refrigeration	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	-0.8%
Cooking	0.38	0.38	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.41	0.41	0.8%
Clothes Dryers	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.38	0.9%
Freezers	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	-0.6%
Lighting	0.90	0.91	0.92	0.93	0.94	0.94	0.95	0.96	0.97	0.98	0.98	0.99	1.2%
Clothes Washers	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	2.8%
Dishwashers	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.0%
Color Televisions	0.21	0.22	0.23	0.23	0.24	0.25	0.25	0.26	0.26	0.26	0.26	0.26	3.4%
Personal Computers	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.13	0.13	3.1%
Furnace Fans	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	1.5%
Other Uses 7/ Delivered Energy	1.69	1.74	1.78	1.81	1.85	1.89	1.93	1.97	2.01	2.05	2.09	2.13	2.8%
	12.84	12.92	13.03	13.08	13.17	13.24	13.36	13.41	13.49	13.56	13.65	13.66	0.8%
Electricity Related Losses	10.86	10.95	11.07	11.14	11.21	11.31	11.41	11.46	11.55	11.63	11.74	11.77	0.9%
Total Energy Consumption by End-Use													
Space Heating	7.03	7.04	7.07	7.08	7.09	7.10	7.14	7.13	7.15	7.15	7.16	7.13	0.5%
Space Cooling	2.22	2.22	2.24	2.25	2.26	2.28	2.29	2.30	2.31	2.32	2.34	2.34	0.1%
Water Heating	2.54	2.53	2.53	2.51	2.50	2.49	2.49	2.47	2.46	2.44	2.43	2.40	-0.2%
Refrigeration	1.10	1.09	1.09	1.08	1.08	1.07	1.08	1.07	1.07	1.07	1.08	1.08	-1.0%
Cooking	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.6%
Clothes Dryers	0.89	0.89	0.89	0.89	0.89	0.90	0.90	0.90	0.91	0.91	0.92	0.92	0.4%
Freezers	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	-0.8%
Lighting	2.83	2.85	2.87	2.89	2.90	2.92	2.94	2.95	2.97	2.99	3.01	3.01	1.0%
Clothes Washers	0.14	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.18	2.6%
Dishwashers	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.8%
Color Televisions	0.66	0.68	0.70	0.72	0.74	0.76	0.78	0.78	0.79	0.80	0.80	0.81	3.1%
Personal Computers	0.29	0.30	0.31	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	2.8%
Furnace Fans	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	1.2%
Other Uses 7/ Total	4.64	4.75	4.86	4.95	5.04	5.14	5.25	5.33	5.44	5.54	5.66	5.74	2.7%
	23.70	23.86	24.09	24.22	24.37	24.55	24.77	24.87	25.04	25.18	25.39	25.43	0.9%
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	0.01	8.4%
Solar 9/	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	2.3%
Total	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	3.0%

**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 report:

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 LM2004.D101703A.

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
<b>Key Indicators</b>											
<b>Total Floorspace (billion square feet)</b>											
Surviving	67.2	68.9	70.7	72.8	74.6	76.0	77.2	78.2	79.3	80.3	81.4
New Additions	3.1	3.2	3.4	3.2	2.8	2.6	2.4	2.4	2.5	2.5	2.5
Total	70.2	72.1	74.1	76.0	77.4	78.6	79.6	80.7	81.7	82.8	83.9
<b>Energy Consumption Intensity (thousand Btu per square foot)</b>											
Delivered Energy Consumption	118.8	114.5	113.8	112.2	113.0	114.1	115.0	115.6	116.2	116.9	117.4
Electricity Related Losses	131.5	126.9	123.7	124.1	125.7	127.5	129.0	130.2	130.1	130.9	131.8
Total Energy Consumption	250.3	241.4	237.5	236.3	238.7	241.6	243.9	245.8	246.3	247.8	249.2
<b>Delivered Energy Consumption by Fuel</b>											
<b>Purchased Electricity</b>											
Space Heating 1/	0.14	0.15	0.16	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16
Space Cooling 1/	0.41	0.46	0.42	0.42	0.43	0.43	0.44	0.44	0.44	0.45	0.45
Water Heating 1/	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15
Ventilation	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18
Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Lighting	1.10	1.12	1.14	1.17	1.20	1.22	1.25	1.27	1.29	1.30	1.32
Refrigeration	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22
Office Equipment (PC)	0.14	0.14	0.15	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25
Office Equipment (non-PC)	0.30	0.31	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.46	0.48
Other Uses 2/	1.45	1.41	1.41	1.47	1.54	1.59	1.65	1.71	1.77	1.84	1.90
Delivered Energy	4.09	4.12	4.14	4.28	4.42	4.54	4.67	4.79	4.90	5.02	5.14
<b>Natural Gas</b>											
Space Heating 1/	1.33	1.42	1.49	1.46	1.48	1.50	1.52	1.53	1.54	1.56	1.56
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	0.66	0.68	0.69	0.70
Cooking	0.25	0.26	0.26	0.27	0.27	0.28	0.29	0.29	0.30	0.30	0.31
Other Uses 3/	1.17	0.93	0.90	0.85	0.87	0.90	0.92	0.94	0.96	0.98	1.00
Delivered Energy	3.33	3.21	3.25	3.20	3.26	3.34	3.40	3.44	3.49	3.55	3.59
<b>Distillate</b>											
Space Heating 1/	0.17	0.17	0.20	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.25
Water Heating 1/	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Other Uses 4/	0.25	0.24	0.30	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.30
Delivered Energy	0.49	0.49	0.57	0.56	0.58	0.59	0.60	0.61	0.61	0.62	0.63
Other Fuels 5/	0.35	0.33	0.37	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
<b>Marketed Renewable Fuels</b>											
Biomass	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Delivered Energy	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
<b>Delivered Energy Consumption by End-Use</b>											
Space Heating 1/	1.64	1.74	1.84	1.82	1.84	1.88	1.90	1.92	1.94	1.96	1.97
Space Cooling 1/	0.43	0.48	0.43	0.43	0.44	0.45	0.45	0.46	0.46	0.47	0.47
Water Heating 1/	0.78	0.80	0.81	0.82	0.84	0.86	0.88	0.89	0.91	0.92	0.93
Ventilation	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18
Cooking	0.29	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.34
Lighting	1.10	1.12	1.14	1.17	1.20	1.22	1.25	1.27	1.29	1.30	1.32
Refrigeration	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22
Office Equipment (PC)	0.14	0.14	0.15	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25
Office Equipment (non-PC)	0.30	0.31	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.46	0.48
Other Uses 6/	3.31	3.01	3.08	3.09	3.19	3.28	3.36	3.44	3.52	3.60	3.69
Delivered Energy	8.34	8.25	8.44	8.52	8.75	8.97	9.16	9.33	9.50	9.68	9.85
Electricity Related Losses	9.24	9.15	9.17	9.42	9.73	10.02	10.27	10.50	10.63	10.84	11.06
<b>Total Energy Consumption by End-Use</b>											
Space Heating 1/	1.97	2.07	2.19	2.15	2.19	2.22	2.25	2.27	2.28	2.30	2.31
Space Cooling 1/	1.36	1.51	1.36	1.36	1.38	1.40	1.41	1.42	1.43	1.43	1.44
Water Heating 1/	1.10	1.11	1.12	1.14	1.16	1.18	1.20	1.22	1.23	1.24	1.26
Ventilation	0.53	0.52	0.53	0.53	0.54	0.55	0.55	0.55	0.55	0.56	0.56
Cooking	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.41
Lighting	3.58	3.60	3.67	3.76	3.84	3.92	3.99	4.05	4.08	4.12	4.17
Refrigeration	0.65	0.65	0.66	0.67	0.68	0.68	0.69	0.69	0.70	0.70	0.71
Office Equipment (PC)	0.46	0.44	0.49	0.55	0.61	0.65	0.68	0.71	0.73	0.75	0.78
Office Equipment (non-PC)	0.99	1.00	1.02	1.08	1.14	1.21	1.27	1.33	1.38	1.45	1.51
Other Uses 6/	6.59	6.14	6.21	6.34	6.57	6.79	7.00	7.19	7.36	7.57	7.78
Total	17.58	17.40	17.61	17.94	18.48	18.98	19.43	19.82	20.13	20.53	20.91
<b>Non-Marketed Renewable Fuels</b>											
Solar 7/	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Key Indicators</b>											
<b>Total Floorspace (billion square feet)</b>											
Surviving	82.5	83.5	84.6	85.5	86.4	87.3	88.2	89.1	90.0	91.0	91.8
New Additions	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4
Total	85.0	86.0	87.0	87.9	88.8	89.7	90.7	91.6	92.5	93.4	94.2
<b>Energy Consumption Intensity (thousand Btu per square foot)</b>											
Delivered Energy Consumption	117.5	117.8	118.1	118.3	118.5	118.8	119.2	119.5	119.9	120.3	120.7
Electricity Related Losses	132.4	133.2	133.8	134.3	134.8	135.5	135.9	136.6	137.1	137.5	138.0
Total Energy Consumption	250.0	251.0	251.8	252.5	253.3	254.3	255.1	256.1	256.9	257.9	258.7
<b>Delivered Energy Consumption by Fuel</b>											
<b>Purchased Electricity</b>											
Space Heating 1/	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Space Cooling 1/	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.47
Water Heating 1/	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Ventilation	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Lighting	1.33	1.35	1.36	1.36	1.37	1.37	1.38	1.39	1.39	1.40	1.40
Refrigeration	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24
Office Equipment (PC)	0.26	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.32	0.33	0.34
Office Equipment (non-PC)	0.50	0.52	0.54	0.57	0.59	0.61	0.63	0.66	0.68	0.71	0.74
Other Uses 2/	1.97	2.03	2.10	2.16	2.22	2.28	2.34	2.41	2.47	2.53	2.60
Delivered Energy	5.25	5.37	5.47	5.57	5.67	5.77	5.88	5.99	6.10	6.20	6.29
<b>Natural Gas</b>											
Space Heating 1/	1.57	1.57	1.57	1.57	1.58	1.59	1.59	1.60	1.61	1.62	1.63
Space Cooling 1/	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
Water Heating 1/	0.71	0.72	0.72	0.73	0.74	0.75	0.76	0.77	0.77	0.78	0.79
Cooking	0.31	0.31	0.32	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.34
Other Uses 3/	1.01	1.02	1.03	1.04	1.05	1.05	1.06	1.07	1.08	1.10	1.11
Delivered Energy	3.62	3.64	3.66	3.68	3.70	3.74	3.77	3.80	3.83	3.87	3.90
<b>Distillate</b>											
Space Heating 1/	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.29	0.29
Water Heating 1/	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Other Uses 4/	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Delivered Energy	0.63	0.64	0.64	0.65	0.65	0.66	0.66	0.67	0.67	0.67	0.68
Other Fuels 5/	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Marketed Renewable Fuels</b>											
Biomass	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Delivered Energy	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
<b>Delivered Energy Consumption by End-Use</b>											
Space Heating 1/	1.97	1.98	1.99	2.00	2.00	2.02	2.03	2.04	2.05	2.06	2.07
Space Cooling 1/	0.47	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.50	0.50	0.50
Water Heating 1/	0.94	0.95	0.96	0.97	0.97	0.98	0.99	1.00	1.01	1.02	1.03
Ventilation	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Cooking	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.37	0.37	0.37
Lighting	1.33	1.35	1.36	1.36	1.37	1.37	1.38	1.39	1.39	1.40	1.40
Refrigeration	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24
Office Equipment (PC)	0.26	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.32	0.33	0.34
Office Equipment (non-PC)	0.50	0.52	0.54	0.57	0.59	0.61	0.63	0.66	0.68	0.71	0.74
Other Uses 6/	3.76	3.84	3.92	3.99	4.06	4.13	4.20	4.27	4.35	4.42	4.50
Delivered Energy	9.99	10.14	10.27	10.40	10.52	10.66	10.81	10.95	11.09	11.24	11.37
<b>Electricity Related Losses</b>	11.26	11.46	11.64	11.80	11.97	12.16	12.32	12.51	12.68	12.85	13.00
<b>Total Energy Consumption by End-Use</b>											
Space Heating 1/	2.32	2.32	2.33	2.33	2.34	2.35	2.36	2.37	2.38	2.39	2.40
Space Cooling 1/	1.44	1.45	1.45	1.45	1.45	1.46	1.47	1.47	1.48	1.48	1.48
Water Heating 1/	1.26	1.27	1.28	1.28	1.29	1.30	1.30	1.31	1.32	1.33	1.34
Ventilation	0.56	0.56	0.55	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56
Cooking	0.41	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.43	0.43	0.43
Lighting	4.20	4.23	4.25	4.25	4.25	4.27	4.28	4.29	4.30	4.30	4.30
Refrigeration	0.71	0.71	0.71	0.71	0.71	0.72	0.72	0.73	0.73	0.73	0.73
Office Equipment (PC)	0.80	0.83	0.85	0.88	0.91	0.93	0.96	0.98	1.00	1.02	1.03
Office Equipment (non-PC)	1.57	1.64	1.70	1.76	1.83	1.90	1.96	2.03	2.11	2.18	2.26
Other Uses 6/	7.98	8.18	8.38	8.57	8.75	8.93	9.11	9.30	9.49	9.68	9.86
Total	21.25	21.59	21.91	22.20	22.49	22.82	23.13	23.46	23.77	24.08	24.37
<b>Non-Marketed Renewable Fuels</b>											
Solar 7/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Total	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

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

	2023	2024	2025	2002- 2025
<b>Key Indicators</b>				
<b>Total Floorspace (billion square feet)</b>				
Surviving	92.6	93.4	94.3	1.4%
New Additions	2.5	2.5	2.6	-0.9%
Total	95.0	95.9	96.9	1.3%
<b>Energy Consumption Intensity (thousand Btu per square foot)</b>				
Delivered Energy Consumption	120.9	121.1	121.2	0.3%
Electricity Related Losses	138.4	138.9	139.2	0.4%
Total Energy Consumption	259.3	260.0	260.4	0.3%
<b>Delivered Energy Consumption by Fuel</b>				
<b>Purchased Electricity</b>				
Space Heating 1/	0.16	0.15	0.15	0.1%
Space Cooling 1/	0.47	0.47	0.48	0.1%
Water Heating 1/	0.15	0.15	0.15	0.2%
Ventilation	0.18	0.18	0.18	0.5%
Cooking	0.03	0.03	0.03	-0.7%
Lighting	1.40	1.41	1.41	1.0%
Refrigeration	0.24	0.24	0.24	0.8%
Office Equipment (PC)	0.34	0.34	0.35	4.2%
Office Equipment (non-PC)	0.76	0.79	0.82	4.3%
Other Uses 2/	2.66	2.72	2.78	3.0%
Delivered Energy	6.39	6.49	6.59	2.1%
<b>Natural Gas</b>				
Space Heating 1/	1.63	1.63	1.64	0.6%
Space Cooling 1/	0.03	0.03	0.03	3.8%
Water Heating 1/	0.80	0.80	0.81	1.4%
Cooking	0.35	0.35	0.35	1.3%
Other Uses 3/	1.13	1.14	1.15	0.9%
Delivered Energy	3.93	3.95	3.98	0.9%
<b>Distillate</b>				
Space Heating 1/	0.29	0.30	0.30	2.4%
Water Heating 1/	0.09	0.09	0.09	0.9%
Other Uses 4/	0.30	0.30	0.30	0.9%
Delivered Energy	0.68	0.68	0.68	1.5%
Other Fuels 5/	0.40	0.40	0.40	0.8%

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

	2023	2024	2025	2002-2025
<b>Marketed Renewable Fuels</b>				
Biomass	0.10	0.10	0.10	0.0%
Delivered Energy	0.10	0.10	0.10	0.0%
<b>Delivered Energy Consumption by End-Use</b>				
Space Heating 1/	2.08	2.09	2.09	0.8%
Space Cooling 1/	0.50	0.50	0.51	0.3%
Water Heating 1/	1.04	1.04	1.05	1.2%
Ventilation	0.18	0.18	0.18	0.5%
Cooking	0.37	0.37	0.38	1.1%
Lighting	1.40	1.41	1.41	1.0%
Refrigeration	0.24	0.24	0.24	0.8%
Office Equipment (PC)	0.34	0.34	0.35	4.2%
Office Equipment (non-PC)	0.76	0.79	0.82	4.3%
Other Uses 6/	4.57	4.65	4.72	2.0%
Delivered Energy	11.49	11.62	11.75	1.5%
Electricity Related Losses	13.15	13.32	13.49	1.7%
<b>Total Energy Consumption by End-Use</b>				
Space Heating 1/	2.40	2.40	2.41	0.7%
Space Cooling 1/	1.48	1.48	1.48	-0.1%
Water Heating 1/	1.34	1.34	1.35	0.8%
Ventilation	0.56	0.56	0.56	0.3%
Cooking	0.43	0.43	0.43	0.7%
Lighting	4.29	4.29	4.29	0.8%
Refrigeration	0.73	0.73	0.73	0.5%
Office Equipment (PC)	1.04	1.05	1.06	3.9%
Office Equipment (non-PC)	2.34	2.42	2.51	4.1%
Other Uses 6/	10.04	10.23	10.42	2.3%
Total	24.65	24.94	25.24	1.6%
<b>Non-Marketed Renewable Fuels</b>				
Solar 7/	0.03	0.03	0.03	1.3%
Total	0.03	0.03	0.03	1.3%



**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 report  
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 LM2004.D101703A.

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	4132	4210	4301	4393	4451	4534	4627	4726
Nonmanufacturing	1309	1222	1184	1152	1196	1213	1230	1247	1273	1300	1317
Total	5368	5285	5227	5284	5407	5514	5623	5698	5807	5927	6044
Energy Prices (2002 dollars per million Btu)											
Distillate Oil	6.62	6.21	6.87	6.27	5.64	5.56	5.55	5.56	5.58	5.57	5.59
Liquefied Petroleum Gas	12.48	8.28	10.56	10.33	9.23	9.30	9.29	9.42	9.45	9.29	9.43
Residual Oil	3.31	3.89	4.60	3.82	3.59	3.60	3.61	3.63	3.65	3.66	3.68
Motor Gasoline	11.70	11.04	12.21	11.14	11.52	11.60	11.66	11.59	11.61	11.61	11.63
Natural Gas	4.91	3.75	5.60	4.45	4.09	3.97	4.00	4.06	3.97	3.94	4.05
Metallurgical Coal	1.71	1.87	2.03	2.01	1.98	1.97	1.94	1.94	1.93	1.92	1.90
Steam Coal	1.51	1.52	1.63	1.60	1.58	1.57	1.55	1.55	1.55	1.54	1.53
Electricity	15.11	14.74	13.96	13.61	13.41	13.12	12.96	12.96	13.05	12.88	12.78
Energy Consumption 1/ (quadrillion Btu)											
Distillate	1.21	1.16	1.17	1.12	1.12	1.12	1.11	1.11	1.09	1.10	1.11
Liquefied Petroleum Gas	2.10	2.22	2.12	2.12	2.13	2.12	2.13	2.13	2.12	2.12	2.13
Petrochemical Feedstocks	1.16	1.22	1.27	1.26	1.25	1.24	1.24	1.23	1.21	1.21	1.21
Residual Fuel	0.15	0.20	0.21	0.20	0.21	0.21	0.21	0.20	0.20	0.20	0.20
Other Petroleum 2/ Petroleum Subtotal	4.42	4.19	4.21	4.00	4.24	4.28	4.29	4.31	4.28	4.30	4.30
Natural Gas	9.04	9.00	8.98	8.70	8.95	8.97	8.99	8.99	8.90	8.93	8.95
Lease and Plant Fuel 3/ Natural Gas Subtotal	7.56	7.43	7.41	7.66	7.75	7.80	7.86	7.88	7.97	8.08	8.16
Lease and Plant Fuel 3/ Natural Gas Subtotal	1.12	1.35	1.03	1.01	1.07	1.13	1.19	1.25	1.31	1.38	1.39
Natural Gas Subtotal	8.67	8.78	8.44	8.67	8.83	8.93	9.06	9.13	9.28	9.46	9.55
Metallurgical Coal & Coke 4/ Steam Coal	0.74	0.65	0.70	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64
Steam Coal	1.51	1.47	1.40	1.39	1.39	1.38	1.37	1.36	1.36	1.36	1.36
Coal Subtotal	2.25	2.12	2.11	2.09	2.08	2.06	2.05	2.03	2.02	2.01	2.00
Renewables 5/ Purchased Electricity	1.64	1.66	1.66	1.70	1.73	1.76	1.77	1.78	1.80	1.83	1.86
Purchased Electricity	3.29	3.39	3.34	3.35	3.39	3.43	3.46	3.48	3.49	3.53	3.56
Delivered Energy	24.89	24.94	24.52	24.52	24.99	25.15	25.33	25.40	25.50	25.76	25.93
Electricity Related Losses	7.44	7.53	7.39	7.39	7.47	7.56	7.63	7.63	7.58	7.62	7.66
Total	32.33	32.47	31.91	31.92	32.46	32.70	32.96	33.03	33.07	33.38	33.59
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	0.19	0.19	0.19	0.18
Liquefied Petroleum Gas	0.39	0.42	0.40	0.40	0.39	0.39	0.38	0.37	0.36	0.36	0.35
Petrochemical Feedstocks	0.22	0.23	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.20	0.20
Residual Fuel	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03
Other Petroleum 2/ Petroleum Subtotal	0.82	0.79	0.81	0.76	0.78	0.78	0.76	0.76	0.74	0.73	0.71
Natural Gas	1.68	1.70	1.72	1.65	1.66	1.63	1.60	1.58	1.53	1.51	1.48
Natural Gas	1.41	1.41	1.42	1.45	1.43	1.41	1.40	1.38	1.37	1.36	1.35
Lease and Plant Fuel 3/ Lease and Plant Fuel 3/	0.21	0.26	0.20	0.19	0.20	0.20	0.21	0.22	0.23	0.23	0.23

Table 6. Industrial Sector Key Indicators and Consumption

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Natural Gas Subtotal	1.62	1.66	1.61	1.64	1.63	1.62	1.61	1.60	1.60	1.60	1.58
Metallurgical Coal & Coke 4/	0.14	0.12	0.13	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11
Steam Coal	0.28	0.28	0.27	0.26	0.26	0.25	0.24	0.24	0.23	0.23	0.23
Coal Subtotal	0.42	0.40	0.40	0.40	0.39	0.37	0.36	0.36	0.35	0.34	0.33
Renewables 5/	0.30	0.31	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31
Purchased Electricity	0.61	0.64	0.64	0.63	0.63	0.62	0.62	0.61	0.60	0.60	0.59
Delivered Energy	4.64	4.72	4.69	4.64	4.62	4.56	4.50	4.46	4.39	4.35	4.29
Electricity Related Losses	1.39	1.42	1.41	1.40	1.38	1.37	1.36	1.34	1.30	1.29	1.27
Total	6.02	6.14	6.10	6.04	6.00	5.93	5.86	5.80	5.70	5.63	5.56

Table 6. Industrial Sector Key Indicators and Consumption

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Value of Shipments</b> (billion 1996 dollars)											
Manufacturing	4826	4934	5055	5173	5319	5475	5622	5723	5830	5946	6069
Nonmanufacturing	1330	1358	1380	1390	1403	1421	1455	1455	1462	1468	1488
Total	6156	6292	6435	6564	6722	6897	7077	7178	7292	7414	7557
<b>Energy Prices</b> (2002 dollars per million Btu)											
Distillate Oil	5.61	5.61	5.60	5.60	5.62	5.67	5.70	5.72	5.75	5.79	5.84
Liquefied Petroleum Gas	9.46	9.49	9.43	9.55	9.60	9.71	9.71	9.76	9.90	9.93	9.97
Residual Oil	3.69	3.71	3.72	3.74	3.76	3.78	3.80	3.82	3.84	3.85	3.86
Motor Gasoline	11.60	11.58	11.54	11.52	11.52	11.52	11.50	11.50	11.47	11.46	11.46
Natural Gas	4.21	4.25	4.34	4.47	4.49	4.44	4.45	4.54	4.55	4.51	4.55
Metallurgical Coal	1.88	1.86	1.86	1.85	1.84	1.82	1.82	1.81	1.79	1.76	1.75
Steam Coal	1.52	1.51	1.50	1.48	1.47	1.46	1.46	1.45	1.45	1.45	1.45
Electricity	12.90	12.70	12.84	12.97	13.01	12.94	13.06	13.09	13.05	12.95	13.00
<b>Energy Consumption 1/</b> (quadrillion Btu)											
Distillate	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.20	1.21
Liquefied Petroleum Gas	2.14	2.15	2.15	2.15	2.17	2.18	2.20	2.22	2.22	2.24	2.25
Petrochemical Feedstocks	1.21	1.22	1.21	1.21	1.22	1.23	1.24	1.24	1.24	1.24	1.24
Residual Fuel	0.20	0.20	0.20	0.21	0.21	0.20	0.20	0.21	0.21	0.21	0.21
Other Petroleum 2/	4.32	4.35	4.38	4.41	4.45	4.49	4.55	4.58	4.61	4.64	4.67
Petroleum Subtotal	8.99	9.05	9.09	9.14	9.20	9.27	9.38	9.43	9.48	9.53	9.58
Natural Gas	8.19	8.25	8.30	8.30	8.37	8.48	8.59	8.64	8.69	8.76	8.83
Lease and Plant Fuel 3/	1.41	1.41	1.43	1.43	1.44	1.45	1.48	1.50	1.54	1.57	1.59
Natural Gas Subtotal	9.60	9.66	9.73	9.74	9.81	9.93	10.07	10.13	10.23	10.33	10.43
Metallurgical Coal & Coke 4/	0.62	0.61	0.59	0.58	0.57	0.56	0.55	0.53	0.52	0.51	0.50
Steam Coal	1.36	1.36	1.36	1.36	1.36	1.36	1.37	1.37	1.37	1.37	1.38
Coal Subtotal	1.98	1.97	1.96	1.94	1.93	1.92	1.92	1.90	1.90	1.89	1.88
Renewables 5/	1.90	1.94	1.98	2.01	2.04	2.08	2.11	2.14	2.16	2.19	2.22
Purchased Electricity	3.59	3.63	3.67	3.70	3.75	3.81	3.87	3.90	3.93	3.96	4.00
Delivered Energy	26.07	26.25	26.42	26.53	26.73	27.01	27.35	27.50	27.69	27.91	28.11
Electricity Related Losses	7.70	7.75	7.80	7.84	7.93	8.02	8.10	8.14	8.17	8.21	8.26
Total	33.77	34.00	34.22	34.37	34.66	35.04	35.45	35.64	35.86	36.12	36.37
<b>Energy Consumption per dollar of Shipments 1/</b> (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	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.30
Petrochemical Feedstocks	0.20	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.16
Residual Fuel	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Other Petroleum 2/	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.64	0.63	0.63	0.62
Petroleum Subtotal	1.46	1.44	1.41	1.39	1.37	1.34	1.32	1.31	1.30	1.29	1.27
Natural Gas	1.33	1.31	1.29	1.26	1.25	1.23	1.21	1.20	1.19	1.18	1.17
Lease and Plant Fuel 3/	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21

Table 6. Industrial Sector Key Indicators and Consumption

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Natural Gas Subtotal	1.56	1.54	1.51	1.48	1.46	1.44	1.42	1.41	1.40	1.39	1.38
Metallurgical Coal & Coke 4/	0.10	0.10	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.07
Steam Coal	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.19	0.19	0.18
Coal Subtotal	0.32	0.31	0.30	0.30	0.29	0.28	0.27	0.27	0.26	0.25	0.25
Renewables 5/	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.29
Purchased Electricity	0.58	0.58	0.57	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.53
Delivered Energy	4.24	4.17	4.11	4.04	3.98	3.92	3.86	3.83	3.80	3.76	3.72
Electricity Related Losses	1.25	1.23	1.21	1.19	1.18	1.16	1.15	1.13	1.12	1.11	1.09
Total	5.49	5.40	5.32	5.24	5.16	5.08	5.01	4.97	4.92	4.87	4.81

Table 6. Industrial Sector Key Indicators and Consumption

	2023	2024	2025	2002- 2025
Value of Shipments (billion 1996 dollars)				
Manufacturing	6194	6329	6483	2.1%
Nonmanufacturing	1499	1501	1503	0.9%
Total	7693	7830	7987	1.8%
Energy Prices (2002 dollars per million Btu)				
Distillate Oil	5.92	5.96	6.06	-0.1%
Liquefied Petroleum Gas	10.09	10.14	10.20	0.9%
Residual Oil	3.88	3.90	3.92	0.0%
Motor Gasoline	11.45	11.44	11.46	0.2%
Natural Gas	4.65	4.70	4.82	1.1%
Metallurgical Coal	1.72	1.71	1.70	-0.4%
Steam Coal	1.43	1.43	1.42	-0.3%
Electricity	13.03	13.17	13.31	-0.4%
Energy Consumption 1/ (quadrillion Btu)				
Distillate	1.23	1.24	1.25	0.3%
Liquefied Petroleum Gas	2.26	2.27	2.28	0.1%
Petrochemical Feedstocks	1.25	1.25	1.25	0.1%
Residual Fuel	0.21	0.21	0.21	0.2%
Other Petroleum 2/ Petroleum Subtotal	4.69	4.72	4.74	0.5%
Natural Gas	9.63	9.68	9.73	0.3%
Lease and Plant Fuel 3/ Natural Gas Subtotal	8.89	8.96	9.02	0.8%
Metallurgical Coal & Coke 4/ Steam Coal	1.60	1.61	1.61	0.8%
Coal Subtotal	10.49	10.56	10.64	0.8%
Renewables 5/ Purchased Electricity	0.49	0.48	0.47	-1.3%
Delivered Energy	1.38	1.38	1.38	-0.3%
Electricity Related Losses	1.87	1.86	1.86	-0.6%
Total	2.25	2.28	2.32	1.5%
Total	4.04	4.07	4.12	0.8%
Total	28.28	28.46	28.67	0.6%
Total	8.31	8.36	8.43	0.5%
Total	36.59	36.82	37.09	0.6%
Energy Consumption per dollar of Shipments 1/ (thousand Btu per 1996 dollar)				
Distillate	0.16	0.16	0.16	-1.5%
Liquefied Petroleum Gas	0.29	0.29	0.29	-1.7%
Petrochemical Feedstocks	0.16	0.16	0.16	-1.7%
Residual Fuel	0.03	0.03	0.03	-1.6%
Other Petroleum 2/ Petroleum Subtotal	0.61	0.60	0.59	-1.2%
Natural Gas	1.25	1.24	1.22	-1.4%
Lease and Plant Fuel 3/ Total	1.16	1.14	1.13	-0.9%
Total	0.21	0.21	0.20	-1.0%

Table 6. Industrial Sector Key Indicators and Consumption

	2023	2024	2025	2002- 2025
Natural Gas Subtotal	1.36	1.35	1.33	-1.0%
Metallurgical Coal & Coke 4/	0.06	0.06	0.06	-3.1%
Steam Coal	0.18	0.18	0.17	-2.0%
Coal Subtotal	0.24	0.24	0.23	-2.3%
Renewables 5/	0.29	0.29	0.29	-0.3%
Purchased Electricity	0.52	0.52	0.52	-0.9%
Delivered Energy	3.68	3.63	3.59	-1.2%
Electricity Related Losses	1.08	1.07	1.06	-1.3%
Total	4.76	4.70	4.64	-1.2%

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](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](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	2012	2013
<b>Key Indicators</b>													
<b>Level of Travel (billions)</b>													
Light-Duty Vehicles <8500 lbs. (VMT)	2485	2504	2552	2621	2682	2741	2799	2859	2920	2982	3043	3108	3178
Commercial Light Trucks (VMT) 1/	64	65	65	66	67	69	70	72	73	75	76	78	79
Freight Trucks >10000 lbs. (VMT)	201	196	197	202	206	210	214	216	219	224	228	232	237
Air (seat miles available)	953	909	906	925	948	975	999	1032	1064	1103	1137	1179	1220
Rail (ton miles traveled)	1417	1336	1334	1354	1375	1404	1421	1429	1444	1460	1491	1509	1527
Domestic Shipping (ton miles traveled)	774	724	720	725	738	747	756	761	766	773	778	785	788
<b>Energy Efficiency</b>													
New Light-Duty Vehicle (MPG) 2/	24.0	23.8	24.0	24.1	24.1	24.8	25.2	25.0	25.1	25.3	25.4	25.6	25.7
New Car (MPG) 2/	28.2	28.2	28.5	28.5	28.3	28.5	28.4	28.2	28.5	28.8	29.0	29.3	29.5
New Light Truck (MPG) 2/	20.5	20.5	20.6	20.8	21.1	22.0	22.8	22.6	22.6	22.8	22.9	23.0	23.2
Light-Duty Fleet (MPG) 3/	19.8	19.7	19.6	19.5	19.5	19.5	19.5	19.5	19.6	19.6	19.7	19.7	19.8
New Commercial Light Truck (MPG) 1/	13.9	13.9	14.0	13.9	14.0	14.7	15.2	15.0	15.1	15.1	15.2	15.3	15.4
Stock Commercial Light Truck (MPG) 1/	13.7	13.8	13.9	13.9	13.9	14.0	14.1	14.3	14.4	14.5	14.5	14.6	14.7
Aircraft (seat miles per gallon)	55.3	54.8	56.7	57.1	57.4	57.8	58.1	58.5	58.9	59.4	60.0	60.7	61.4
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	6.0	6.1
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	3.2	3.2
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	2.3	2.3
<b>Energy Use by Mode</b>													
quadrillion Btu													
Light-Duty Vehicles	15.16	15.58	15.91	16.36	16.78	17.15	17.49	17.84	18.19	18.53	18.85	19.18	19.53
Commercial Light Trucks 1/	0.58	0.59	0.58	0.59	0.61	0.61	0.62	0.63	0.64	0.64	0.65	0.66	0.67
Bus Transportation	0.25	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26
Freight Trucks	4.22	4.09	4.11	4.19	4.28	4.36	4.43	4.48	4.56	4.64	4.72	4.81	4.89
Rail, Passenger	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14
Rail, Freight	0.50	0.47	0.46	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.48	0.48	0.48
Shipping, Domestic	0.34	0.32	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.34	0.34
Shipping, International	0.77	0.64	0.71	0.71	0.71	0.71	0.72	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	0.32	0.33	0.33	0.33	0.33	0.34	0.34
Air	2.97	2.84	2.72	2.78	2.87	2.96	3.04	3.13	3.20	3.29	3.36	3.44	3.51
Military Use	0.62	0.66	0.72	0.74	0.75	0.75	0.76	0.76	0.77	0.77	0.78	0.78	0.79
Lubricants	0.19	0.20	0.20	0.20	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20
Pipeline Fuel	0.64	0.65	0.68	0.66	0.66	0.65	0.65	0.65	0.66	0.68	0.68	0.69	0.68
Total	26.67	26.70	27.07	27.68	28.32	28.89	29.40	29.91	30.44	31.00	31.49	32.02	32.55
million barrels per day oil equivalent													
Light-Duty Vehicles	7.98	8.20	8.37	8.61	8.84	9.03	9.21	9.39	9.58	9.76	9.92	10.10	10.28
Commercial Light Trucks 1/	0.31	0.31	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35	0.35
Bus Transportation	0.12	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Freight Trucks	2.00	1.94	1.95	1.98	2.03	2.07	2.10	2.12	2.16	2.20	2.23	2.27	2.31
Rail, Passenger	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07
Rail, Freight	0.24	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23
Shipping, Domestic	0.16	0.15	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Shipping, International	0.34	0.28	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32
Recreational Boats	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18
Air	1.44	1.38	1.32	1.34	1.39	1.43	1.47	1.51	1.55	1.59	1.62	1.66	1.70
Military Use	0.30	0.32	0.34	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.38	0.38
Lubricants	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10
Pipeline Fuel	0.32	0.33	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.35	0.34
Total	13.50	13.54	13.73	14.04	14.38	14.67	14.93	15.19	15.45	15.74	15.99	16.26	16.53

**Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption**

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Key Indicators</b>													
<b>Level of Travel (billions)</b>													
Light-Duty Vehicles <8500 lbs. (VMT)	3239	3298	3357	3416	3476	3537	3597	3657	3720	3786	3859	3937	2.0%
Commercial Light Trucks (VMT) 1/	81	83	84	86	88	90	91	93	95	96	98	100	1.9%
Freight Trucks >10000 lbs. (VMT)	242	247	252	258	265	269	274	280	285	291	297	305	1.9%
Air (seat miles available)	1263	1302	1346	1386	1411	1435	1455	1473	1489	1501	1514	1521	2.3%
Rail (ton miles traveled)	1547	1566	1599	1623	1644	1666	1687	1709	1731	1759	1788	1810	1.3%
Domestic Shipping (ton miles traveled)	797	800	806	814	828	832	838	843	849	855	862	867	0.8%
<b>Energy Efficiency</b>													
New Light-Duty Vehicle (MPG) 2/	25.8	26.0	26.1	26.2	26.3	26.4	26.4	26.5	26.6	26.7	26.7	26.8	0.5%
New Car (MPG) 2/	29.7	29.8	29.9	30.1	30.2	30.3	30.3	30.4	30.5	30.5	30.6	30.6	0.4%
New Light Truck (MPG) 2/	23.3	23.5	23.6	23.7	23.8	24.0	24.1	24.2	24.3	24.4	24.5	24.6	0.8%
Light-Duty Fleet (MPG) 3/	19.9	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.6	20.7	20.8	20.8	0.2%
New Commercial Light Truck (MPG) 1/	15.5	15.6	15.7	15.7	15.8	15.9	16.0	16.0	16.1	16.2	16.3	16.3	0.7%
Stock Commercial Light Truck (MPG) 1/	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.8	0.6%
Aircraft (seat miles per gallon)	62.0	62.7	63.3	63.8	64.2	64.5	64.9	65.2	65.5	65.8	66.1	66.2	0.8%
Freight Truck (MPG)	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.4	6.5	6.5	6.5	0.4%
Rail (ton miles/thousand Btu)	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.5	3.5	3.5	3.6	3.6	1.0%
Domestic Shipping (ton miles per thousand Btu)	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.2%
<b>Energy Use by Mode</b>													
<b>quadrillion Btu</b>													
Light-Duty Vehicles	19.82	20.08	20.34	20.59	20.84	21.09	21.35	21.62	21.92	22.23	22.58	22.97	1.7%
Commercial Light Trucks 1/	0.68	0.69	0.70	0.71	0.73	0.73	0.74	0.75	0.76	0.77	0.78	0.79	1.3%
Bus Transportation	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.3%
Freight Trucks	4.97	5.03	5.11	5.20	5.28	5.34	5.40	5.47	5.56	5.64	5.74	5.86	1.6%
Rail, Passenger	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.17	0.17	1.7%
Rail, Freight	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.3%
Shipping, Domestic	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.6%
Shipping, International	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.6%
Recreational Boats	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.8%
Air	3.59	3.66	3.74	3.82	3.87	3.93	3.97	4.00	4.03	4.06	4.09	4.11	1.6%
Military Use	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.82	0.82	0.82	0.82	0.83	1.0%
Lubricants	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.8%
Pipeline Fuel	0.69	0.69	0.69	0.69	0.70	0.71	0.75	0.78	0.79	0.79	0.80	0.80	0.9%
Total	33.03	33.45	33.89	34.34	34.78	35.18	35.59	36.02	36.47	36.93	37.44	37.99	1.5%
<b>million barrels per day oil equivalent</b>													
Light-Duty Vehicles	10.43	10.57	10.70	10.83	10.96	11.09	11.22	11.37	11.52	11.68	11.87	12.07	1.7%
Commercial Light Trucks 1/	0.36	0.36	0.37	0.38	0.38	0.39	0.39	0.39	0.40	0.40	0.41	0.42	1.3%
Bus Transportation	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.3%
Freight Trucks	2.35	2.38	2.41	2.46	2.50	2.52	2.55	2.59	2.63	2.67	2.71	2.77	1.6%
Rail, Passenger	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	1.7%
Rail, Freight	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.3%
Shipping, Domestic	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.6%
Shipping, International	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.6%
Recreational Boats	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.8%
Air	1.74	1.77	1.81	1.85	1.87	1.90	1.92	1.94	1.95	1.97	1.98	1.99	1.6%
Military Use	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.40	1.0%
Lubricants	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.8%
Pipeline Fuel	0.35	0.35	0.35	0.35	0.36	0.36	0.38	0.39	0.40	0.40	0.40	0.41	0.9%
Total	16.77	16.98	17.20	17.43	17.65	17.85	18.06	18.28	18.50	18.74	19.00	19.28	1.5%

**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](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](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 LM2004.D101703A.

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Generation by Fuel Type											
Electric Power Sector 1/ Power Only 2/											
Coal	1852	1875	1946	1939	1989	2042	2089	2104	2132	2159	2187
Petroleum	113	77	95	50	60	57	61	65	61	58	65
Natural Gas 3/	427	450	420	494	483	499	507	537	557	594	613
Nuclear Power	769	780	762	779	791	794	795	796	791	794	800
Pumped Storage/Other	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
Renewable Sources 4/	259	304	337	374	379	383	388	392	395	398	401
Distributed Generation (Natural Gas)	0	0	0	0	0	0	0	0	0	0	0
Non-Utility Generation for Own Use	-20	-34	-39	-40	-40	-40	-40	-40	-37	-37	-37
Total	3391	3443	3512	3586	3653	3726	3790	3845	3890	3956	4021
Combined Heat and Power 5/											
Coal	31	32	28	29	30	32	33	33	33	33	33
Petroleum	6	6	2	0	0	0	1	1	1	1	1
Natural Gas	128	148	152	155	155	156	159	165	172	171	169
Renewable Sources	4	5	4	4	4	4	4	4	4	4	4
Non-Utility Generation for Own Use	-9	-11	-24	-24	-24	-24	-24	-24	-24	-24	-24
Total	160	183	163	164	166	168	172	179	186	184	184
Net Available to the Grid	3551	3626	3675	3750	3819	3894	3963	4025	4075	4141	4204
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	12	13
Natural Gas	83	84	84	86	89	93	96	99	102	106	109
Other Gaseous Fuels 7/	4	5	6	6	8	8	8	9	9	9	10
Renewable Sources 4/	29	30	31	32	33	33	33	34	34	35	36
Other 8/	9	11	11	11	11	11	11	11	11	11	11
Total	151	157	158	162	171	176	179	183	189	194	200
Other End-Use Generators 9/	3	4	4	4	4	4	5	5	5	5	5
Generation for Own Use	-129	-134	-134	-136	-144	-146	-148	-150	-152	-155	-158
Total Sales to the Grid	25	27	28	30	31	34	36	38	41	44	47
Total Electricity Generation	3734	3831	3900	3980	4057	4138	4211	4277	4330	4401	4470
Net Imports	22	22	39	29	31	24	24	25	26	28	28
Electricity Sales by Sector											
Residential	1203	1268	1282	1301	1317	1337	1358	1384	1401	1422	1442
Commercial	1197	1208	1213	1253	1294	1332	1368	1402	1437	1472	1507
Industrial	964	994	978	983	994	1005	1015	1019	1024	1034	1044

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Transportation	22	22	23	23	24	24	25	25	26	26	27
Total	3386	3492	3495	3560	3628	3697	3766	3830	3887	3954	4019
End-Use Prices 10/ (2002 cents per kilowatthour)											
Residential	8.7	8.4	8.5	8.3	8.2	8.0	7.8	7.8	7.8	7.7	7.7
Commercial	8.0	7.8	7.6	7.3	7.1	6.9	6.8	6.7	6.8	6.7	6.7
Industrial	5.2	5.0	4.8	4.6	4.6	4.5	4.4	4.4	4.5	4.4	4.4
Transportation	7.4	7.2	7.3	7.1	6.9	6.6	6.5	6.5	6.5	6.5	6.5
All Sectors Average	7.4	7.2	7.1	6.9	6.8	6.6	6.5	6.5	6.5	6.5	6.4
Prices by Service Category 10/ (2002 cents per kilowatthour)											
Generation	4.8	4.6	4.6	4.4	4.3	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	10.66	10.72	10.42	10.47	10.32	10.04	10.20	9.98	9.55
Nitrogen Oxide (million tons)	4.75	4.39	3.70	3.22	3.25	3.33	3.39	3.41	3.43	3.45	3.47
Mercury (tons)	49.14	50.95	51.50	50.31	50.97	51.83	52.37	51.59	52.60	52.57	52.58

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Generation by Fuel Type											
Electric Power Sector 1/ Power Only 2/											
Coal	2201	2223	2246	2277	2314	2338	2371	2416	2468	2523	2555
Petroleum	75	75	83	89	92	87	86	90	85	79	79
Natural Gas 3/	643	677	704	718	743	785	821	833	847	859	884
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/	404	408	412	415	418	421	423	426	429	431	434
Distributed Generation (Natural Gas)	0	0	1	1	1	1	2	2	2	3	3
Non-Utility Generation for Own Use	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37	-37
Total	4080	4142	4207	4266	4335	4403	4473	4538	4602	4665	4726
Combined Heat and Power 5/											
Coal	33	33	33	33	33	33	33	33	33	33	33
Petroleum	2	2	3	3	3	3	3	3	3	3	3
Natural Gas	172	171	166	163	162	162	163	161	160	157	157
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	187	186	182	179	179	178	179	177	176	173	173
Net Available to the Grid	4267	4327	4389	4445	4514	4581	4652	4715	4778	4839	4898
End-Use Sector Generation											
Combined Heat and Power 6/											
Coal	21	21	21	21	21	21	21	21	21	21	21
Petroleum	13	13	13	13	13	13	13	13	13	13	13
Natural Gas	112	115	117	120	122	125	128	131	134	137	140
Other Gaseous Fuels 7/	10	10	10	11	11	11	11	11	11	11	12
Renewable Sources 4/	37	38	39	39	40	41	42	42	43	43	44
Other 8/	11	11	11	11	11	11	11	11	11	11	11
Total	204	208	212	215	219	222	226	230	233	237	242
Other End-Use Generators 9/	5	5	5	5	5	5	5	5	5	5	5
Generation for Own Use	-160	-162	-164	-166	-168	-171	-173	-175	-177	-179	-182
Total Sales to the Grid	49	51	52	54	55	57	59	60	62	64	65
Total Electricity Generation	4537	4601	4667	4726	4799	4870	4945	5011	5078	5142	5206
Net Imports	28	28	26	28	25	22	20	17	18	14	12
Electricity Sales by Sector											
Residential	1464	1479	1497	1515	1536	1551	1568	1586	1608	1621	1638
Commercial	1539	1573	1604	1634	1662	1693	1724	1755	1787	1817	1845
Industrial	1053	1064	1075	1086	1100	1117	1134	1142	1151	1162	1172

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Transportation	27	28	28	29	29	30	30	31	31	32	33
Total	4083	4144	4205	4263	4327	4389	4456	4514	4576	4632	4688
End-Use Prices 10/ (2002 cents per kilowatthour)											
Residential	7.7	7.6	7.7	7.7	7.6	7.6	7.6	7.6	7.6	7.5	7.5
Commercial	6.8	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Industrial	4.4	4.3	4.4	4.4	4.4	4.4	4.5	4.5	4.5	4.4	4.4
Transportation	6.6	6.5	6.6	6.6	6.6	6.5	6.5	6.5	6.5	6.4	6.4
All Sectors Average	6.5	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.5
Prices by Service Category 10/ (2002 cents per kilowatthour)											
Generation	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7
Distribution	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7
Electric Power Sector Emissions 1/											
Sulfur Dioxide (million tons)	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.94	8.95	8.94
Nitrogen Oxide (million tons)	3.48	3.50	3.52	3.54	3.57	3.59	3.59	3.61	3.62	3.61	3.62
Mercury (tons)	51.69	51.66	52.10	52.28	52.73	52.98	52.93	53.55	53.49	53.29	53.79

**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	2604	2648	2681	1.6%
Petroleum	81	86	86	0.5%
Natural Gas 3/	892	906	929	3.2%
Nuclear Power	816	816	816	0.2%
Pumped Storage/Other	-9	-9	-9	0.3%
Renewable Sources 4/	437	439	440	1.6%
Distributed Generation (Natural Gas)	3	4	4	N/A
Non-Utility Generation for Own Use	-37	-37	-37	0.4%
Total	4788	4852	4911	1.6%
Combined Heat and Power 5/				
Coal	33	33	33	0.1%
Petroleum	3	3	3	-3.5%
Natural Gas	154	153	153	0.1%
Renewable Sources	4	4	4	-0.7%
Non-Utility Generation for Own Use	-24	-24	-24	3.6%
Total	170	169	169	-0.3%
Net Available to the Grid	4958	5022	5079	1.5%
End-Use Sector Generation				
Combined Heat and Power 6/				
Coal	21	21	21	0.0%
Petroleum	13	14	14	4.7%
Natural Gas	144	147	151	2.6%
Other Gaseous Fuels 7/	12	12	12	3.9%
Renewable Sources 4/	45	45	46	1.9%
Other 8/	11	11	11	0.0%
Total	246	250	256	2.1%
Other End-Use Generators 9/	6	6	6	1.6%
Generation for Own Use	-184	-187	-190	1.5%
Total Sales to the Grid	67	70	72	4.3%
Total Electricity Generation	5270	5339	5402	1.5%
Net Imports	10	8	7	-4.6%
Electricity Sales by Sector				
Residential	1655	1676	1686	1.2%
Commercial	1872	1901	1932	2.1%
Industrial	1183	1194	1207	0.8%



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

	2023	2024	2025	2002- 2025
Transportation	33	34	35	2.0%
Total	4744	4805	4861	1.4%
End-Use Prices 10/ (2002 cents per kilowatthour)				
Residential	7.5	7.6	7.6	-0.4%
Commercial	6.8	6.9	6.9	-0.5%
Industrial	4.4	4.5	4.5	-0.4%
Transportation	6.4	6.4	6.5	-0.5%
All Sectors Average	6.5	6.5	6.6	-0.4%
Prices by Service Category 10/ (2002 cents per kilowatthour)				
Generation	4.1	4.2	4.2	-0.4%
Transmission	0.7	0.7	0.7	0.8%
Distribution	1.7	1.7	1.7	-0.8%
Electric Power Sector Emissions 1/				
Sulfur Dioxide (million tons)	8.94	8.95	8.95	-0.7%
Nitrogen Oxide (million tons)	3.63	3.66	3.67	-0.8%
Mercury (tons)	53.67	54.42	53.54	0.2%

**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 report

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 and 2002 prices: EIA, AEO2004 National Energy Modeling System run LM2004.D101703A. Projections: EIA, AEO2004 National Energy Modeling System run LM2004.D101703A.

**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	300.9	301.3	300.6	302.6	305.0
Other Fossil Steam 4/	133.8	132.5	130.1	129.8	127.7	126.0	123.4	122.2	111.1	100.4	98.7
Combined Cycle	43.0	81.0	114.5	120.7	121.4	121.4	121.4	121.7	121.1	124.5	127.9
Combustion Turbine/Diesel	97.3	123.5	129.8	130.2	134.1	133.8	133.2	133.3	126.1	128.7	130.9
Nuclear Power 5/	98.2	98.7	99.2	99.5	99.8	100.1	100.2	100.4	100.4	100.6	100.7
Pumped Storage	19.9	20.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Renewable Sources 6/	90.4	91.4	93.4	93.6	93.9	94.7	95.4	96.0	96.3	96.8	97.3
Distributed Generation (Natural Gas) 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6
Total	788.0	853.1	892.6	898.6	901.0	899.0	895.0	895.3	876.1	874.4	881.4
Combined Heat and Power 8/											
Coal Steam	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.0	5.0	5.0
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	44.8	44.7	44.7
Total Electric Power Industry	821.8	894.5	936.9	943.7	946.0	944.1	940.0	940.4	921.0	919.1	926.1
Cumulative Planned Additions 9/											
Coal Steam	0.0	0.0	0.1	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1
Other Fossil Steam 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined Cycle	0.0	0.0	35.8	42.7	43.5	43.5	43.5	43.5	43.5	43.5	43.5
Combustion Turbine/Diesel	0.0	0.0	7.3	7.5	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Renewable Sources 6/	0.0	0.0	1.9	2.1	2.4	3.0	3.7	4.0	4.2	4.3	4.4
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.0	0.0	45.1	52.9	54.5	55.7	56.4	56.8	56.9	57.1	57.1
Cumulative Unplanned Additions 9/											
Coal Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	1.1	3.1	5.5
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	0.3	1.1	4.6	8.0
Combustion Turbine/Diesel	0.0	0.0	0.0	0.2	3.9	3.9	3.9	4.1	5.0	8.7	11.3
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewable Sources 6/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.8	1.3

**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	0.0	0.2	0.4	0.6
Total	0.0	0.0	0.0	0.2	3.9	3.9	4.2	5.8	7.9	17.6	26.6
Cumulative Total Additions	0.0	0.0	45.1	53.1	58.4	59.6	60.6	62.5	64.8	74.7	83.8
Cumulative Retirements 10/											
Coal Steam	0.0	0.0	0.4	1.7	2.7	4.2	6.3	6.7	7.6	7.6	7.6
Other Fossil Steam 4/	0.0	0.0	0.5	0.8	2.9	4.6	7.2	8.4	19.5	30.2	31.9
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	9.8	10.8	11.3
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewable Sources 6/	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total	0.0	0.0	1.2	3.0	6.3	9.9	15.1	16.8	38.6	50.5	52.6
End-Use Sector Generators											
Combined Heat and Power 11/											
Coal	4.1	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Petroleum	1.0	1.0	1.0	1.0	1.2	1.3	1.3	1.4	1.5	1.6	1.7
Natural Gas	13.9	14.1	14.2	14.5	15.1	15.6	15.9	16.4	16.8	17.3	17.8
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	4.4	4.6	4.7	4.7	4.7	4.8	5.0	5.1
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	26.2	27.4	28.1	28.5	29.0	29.8	30.5	31.3
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	0.7	1.9	2.7	3.0	3.6	4.3	5.1	5.8
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	305.7	307.7	310.0	313.5	317.6	320.4	324.3	330.3	337.7	345.4	350.0
Other Fossil Steam 4/	98.1	97.6	97.3	95.5	95.2	94.6	94.1	93.4	93.2	92.6	92.0
Combined Cycle	129.9	135.9	141.4	146.3	150.8	155.5	159.9	164.8	169.6	174.1	179.7
Combustion Turbine/Diesel	132.7	137.7	143.8	147.5	151.7	155.6	158.8	161.9	164.0	166.8	168.7
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/	97.6	98.4	99.1	99.7	100.3	101.0	101.4	101.9	102.4	102.9	103.4
Distributed Generation (Natural Gas) 7/	0.7	1.0	1.5	1.9	2.3	3.0	3.8	4.6	5.5	6.2	7.0
Total	886.1	900.0	915.3	926.9	940.6	953.1	965.3	979.9	995.4	1011.1	1023.8
Combined Heat and Power 8/											
Coal Steam	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
Total Electric Power Industry	930.8	944.7	960.0	971.5	985.3	997.8	1010.0	1024.6	1040.1	1055.7	1068.5
Cumulative Planned Additions 9/											
Coal Steam	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Other Fossil Steam 4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined Cycle	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
Combustion Turbine/Diesel	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fuel Cells	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Renewable Sources 6/	4.4	4.5	4.6	4.6	4.6	4.7	4.7	4.7	4.7	4.8	4.8
Distributed Generation 7/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	57.2	57.2	57.3	57.4	57.4	57.4	57.4	57.4	57.5	57.5	57.5
Cumulative Unplanned Additions 9/											
Coal Steam	6.3	8.2	11.1	14.6	18.7	21.5	26.7	32.7	40.1	48.7	53.2
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	10.0	16.0	21.5	26.3	30.8	35.6	40.0	44.9	49.7	54.2	59.7
Combustion Turbine/Diesel	13.4	18.6	25.0	28.7	32.8	36.8	40.2	43.4	45.6	48.3	50.3
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/	1.5	2.2	2.9	3.4	4.0	4.6	5.0	5.5	6.0	6.4	7.0

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Distributed Generation 7/	0.7	1.0	1.5	1.9	2.3	3.0	3.8	4.6	5.5	6.2	7.0
Total	31.9	46.1	61.9	74.8	88.7	101.5	115.7	131.1	146.8	163.9	177.2
Cumulative Total Additions	89.1	103.3	119.2	132.2	146.0	158.9	173.2	188.5	204.3	221.4	234.7
Cumulative Retirements 10/											
Coal Steam	7.6	7.6	8.2	8.2	8.2	8.2	9.5	9.5	9.5	10.3	10.3
Other Fossil Steam 4/	32.5	33.0	33.3	35.1	35.4	36.0	36.5	37.2	37.4	38.0	38.6
Combined Cycle	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Combustion Turbine/Diesel	11.7	11.9	12.0	12.0	12.0	12.0	12.3	12.4	12.4	12.4	12.4
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/	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total	53.6	54.3	55.3	57.1	57.4	58.0	60.0	60.8	61.1	62.5	63.1
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	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8
Natural Gas	18.2	18.5	18.9	19.2	19.5	19.9	20.3	20.7	21.1	21.5	22.0
Other Gaseous Fuels	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5
Renewable Sources 6/	5.3	5.4	5.6	5.7	5.8	6.0	6.1	6.2	6.3	6.4	6.5
Other	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Total	31.9	32.5	33.0	33.5	34.0	34.5	35.1	35.6	36.1	36.6	37.2
Other End-Use Generators 12/											
Renewable Sources 13/	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.6
Cumulative Additions 9/											
Combined Heat and Power 11/	6.4	7.0	7.5	8.0	8.5	9.0	9.6	10.1	10.6	11.1	11.7
Other End-Use Generators 12/	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6

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

	2023	2024	2025	2002- 2025
Electric Power Sector 2/				
Power Only 3/				
Coal Steam	357.2	363.0	367.4	0.8%
Other Fossil Steam 4/	91.6	91.1	90.7	-1.6%
Combined Cycle	184.8	187.6	191.6	3.8%
Combustion Turbine/Diesel	172.5	173.9	176.4	1.6%
Nuclear Power 5/	102.6	102.6	102.6	0.2%
Pumped Storage	20.3	20.3	20.3	0.0%
Fuel Cells	0.1	0.1	0.1	N/A
Renewable Sources 6/	104.0	104.3	104.6	0.6%
Distributed Generation (Natural Gas) 7/	7.8	8.5	9.4	N/A
Total	1040.9	1051.5	1063.2	1.0%
Combined Heat and Power 8/				
Coal Steam	5.0	5.0	5.0	-0.2%
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	44.7	44.7	44.7	0.3%
Total Electric Power Industry	1085.6	1096.1	1107.9	0.9%
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	60.4	66.3	70.9	N/A
Other Fossil Steam 4/	0.0	0.0	0.0	N/A
Combined Cycle	64.9	67.7	71.7	N/A
Combustion Turbine/Diesel	54.0	55.4	58.0	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/	7.5	7.8	8.1	N/A

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

	2023	2024	2025	2002- 2025
Distributed Generation 7/ Total	7.8	8.5	9.4	N/A
	194.6	205.7	218.1	N/A
Cumulative Total Additions	252.1	263.3	275.7	N/A
Cumulative Retirements 10/ Coal Steam	10.3	10.3	10.6	N/A
Other Fossil Steam 4/ Combined Cycle	39.0	39.5	39.9	N/A
Combustion Turbine/Diesel	1.7	1.7	1.7	N/A
Nuclear Power	12.4	12.4	12.4	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
	63.5	64.0	64.7	N/A
End-Use Sector Generators				
Combined Heat and Power 11/ Coal	4.1	4.1	4.1	0.0%
Petroleum	1.8	1.8	1.9	3.0%
Natural Gas	22.5	22.9	23.5	2.2%
Other Gaseous Fuels	2.5	2.5	2.5	1.6%
Renewable Sources 6/ Other	6.6	6.7	6.9	2.2%
Total	0.3	0.3	0.3	N/A
	37.8	38.5	39.2	1.9%
Other End-Use Generators 12/ Renewable Sources 13/	1.7	1.8	1.9	2.6%
Cumulative Additions 9/ Combined Heat and Power 11/ Other End-Use Generators 12/	12.3	13.0	13.7	N/A
	0.7	0.7	0.8	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 report

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 LM2004.D101703A.

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
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	92.5
Gross Domestic Economy Sales	182.1	209.9	225.5	213.9	213.7	227.1	238.8	241.8	242.6	243.1	233.7	230.7
Gross Domestic Trade	324.8	348.8	362.2	346.3	339.0	344.1	355.7	356.8	357.0	350.2	333.5	323.2
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	4618.7
Gross Domestic Economy Sales (million 2002 dollars)												
	8870.2	6809.8	9029.7	7059.4	6599.0	6850.2	7301.6	7587.4	7755.1	7817.6	7628.8	7933.0
Gross Domestic Sales (million 2002 dollars)												
	15997.0	13742.1	15852.9	13671.1	12854.7	12691.1	13141.1	13330.6	13464.4	13163.3	12611.0	12551.8
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	4.6
Economy Imports from Canada & Mexico	26.3	26.8	38.6	34.3	36.6	33.7	34.6	35.6	36.5	38.3	37.8	38.2
Gross Imports from Canada & Mexico	38.4	36.3	52.2	45.4	47.3	40.4	41.3	42.3	43.0	44.2	43.0	42.7
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	6.8
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	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	14.4

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Interregional Electricity Trade												
Gross Domestic Firm Power Sales	85.2	78.0	70.7	63.4	56.1	48.8	45.2	41.5	41.5	41.5	41.5	41.5
Gross Domestic Economy Sales	233.2	233.1	228.7	231.8	231.5	232.9	229.8	221.7	215.6	209.9	207.8	206.3
Gross Domestic Trade	318.4	311.0	299.3	295.2	287.6	281.8	275.0	263.2	257.1	251.5	249.4	247.8
Gross Domestic Firm Power Sales (million 2002 dollars)												
	4255.2	3891.7	3528.2	3164.7	2801.2	2437.7	2256.0	2074.2	2074.2	2074.2	2074.2	2074.2
Gross Domestic Economy Sales (million 2002 dollars)												
	8054.6	8276.5	8261.3	8451.1	8382.1	8533.8	8490.6	8127.5	7827.6	7651.4	7668.0	7783.4
Gross Domestic Sales (million 2002 dollars)												
	12309.8	12168.2	11789.6	11615.8	11183.3	10971.5	10746.5	10201.7	9901.8	9725.6	9742.2	9857.6
International Electricity Trade												
Firm Power Imports from Canada & Mexico	3.9	3.3	2.6	2.0	1.3	0.7	0.4	0.0	0.0	0.0	0.0	0.0
Economy Imports from Canada & Mexico	37.5	35.3	36.5	33.2	30.4	28.4	24.4	25.7	22.1	19.4	17.6	15.9
Gross Imports from Canada & Mexico	41.4	38.6	39.1	35.2	31.7	29.1	24.8	25.7	22.1	19.4	17.6	16.0
Firm Power Exports to Canada & Mexico	5.8	4.8	3.9	2.9	1.9	1.0	0.5	0.0	0.0	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	7.7
Gross Exports to Canada & Mexico	13.5	12.5	11.5	10.6	9.6	8.6	8.1	7.7	7.7	7.7	7.7	7.7

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

	2025	2002- 2025
Interregional Electricity Trade		
Gross Domestic Firm Power Sales	41.5	-5.1%
Gross Domestic Economy Sales	205.1	-0.1%
Gross Domestic Trade	246.7	-1.5%
Gross Domestic Firm Power Sales (million 2002 dollars)	2074.2	-5.1%
Gross Domestic Economy Sales (million 2002 dollars)	7892.8	0.6%
Gross Domestic Sales (million 2002 dollars)	9967.0	-1.4%
International Electricity Trade		
Firm Power Imports from Canada & Mexico	0.0	-21.9%
Economy Imports from Canada & Mexico	15.0	-2.5%
Gross Imports from Canada & Mexico	15.0	-3.8%
Firm Power Exports to Canada & Mexico	0.0	N/A
Economy Exports to Canada & Mexico	7.7	-0.6%
Gross Exports to Canada & Mexico	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 LM2004.D101703A.

**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	2013
Crude Oil													
Domestic Crude Production 1/	5.74	5.62	5.69	5.80	5.86	5.93	6.08	6.09	6.04	5.91	5.80	5.69	5.63
Alaska	0.96	0.98	0.98	0.95	0.90	0.88	0.91	0.93	0.94	0.92	0.92	0.92	0.93
Lower 48 States	4.78	4.64	4.71	4.85	4.97	5.05	5.16	5.16	5.10	5.00	4.88	4.77	4.70
Net Imports	9.31	9.13	9.52	9.73	9.77	9.89	10.00	10.15	10.39	10.82	11.22	11.59	11.97
Gross Imports	9.33	9.14	9.53	9.74	9.84	9.96	10.08	10.23	10.47	10.90	11.29	11.66	12.04
Exports	0.02	0.01	0.01	0.01	0.07	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06
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	0.00
Total Crude Supply	15.07	14.83	15.39	15.71	15.63	15.82	16.08	16.24	16.42	16.74	17.02	17.28	17.61
Natural Gas Plant Liquids	1.87	1.88	1.72	1.90	2.13	2.13	2.16	2.17	2.17	2.21	2.21	2.23	2.21
Other Inputs 3/	0.30	0.67	0.35	0.39	0.40	0.43	0.45	0.46	0.47	0.45	0.43	0.42	0.42
Refinery Processing Gain 4/	0.93	0.98	0.93	0.94	0.89	0.87	0.87	0.87	0.87	0.88	0.89	0.91	0.92
Net Product Imports 5/	1.59	1.41	1.47	1.68	1.44	1.52	1.51	1.60	1.60	1.53	1.56	1.60	1.59
Gross Refined Product Imports 6/	2.08	1.92	2.00	2.09	1.95	1.97	1.92	1.92	1.90	1.85	1.93	1.94	1.94
Unfinished Oil Imports	0.38	0.41	0.39	0.50	0.39	0.45	0.50	0.60	0.62	0.61	0.56	0.60	0.60
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	0.00
Exports	0.95	0.97	0.97	0.97	0.90	0.90	0.91	0.92	0.93	0.94	0.93	0.94	0.95
Total Primary Supply 7/	19.75	19.77	19.87	20.60	20.48	20.77	21.06	21.35	21.54	21.81	22.11	22.44	22.74
Refined Petroleum Products Supplied													
Motor Gasoline 8/	8.62	8.86	9.04	9.27	9.51	9.69	9.85	10.02	10.19	10.36	10.51	10.67	10.85
Jet Fuel 9/	1.66	1.61	1.57	1.61	1.66	1.70	1.74	1.79	1.83	1.87	1.90	1.94	1.98
Distillate Fuel 10/	3.88	3.68	3.77	3.81	3.89	3.96	4.02	4.06	4.09	4.14	4.22	4.31	4.37
Residual Fuel	0.86	0.74	0.85	0.64	0.69	0.67	0.68	0.70	0.69	0.69	0.71	0.72	0.72
Other 11/	4.69	4.72	4.67	4.60	4.74	4.76	4.78	4.79	4.76	4.77	4.79	4.81	4.84
Total	19.71	19.61	19.89	19.94	20.48	20.78	21.07	21.36	21.56	21.83	22.13	22.46	22.76
Refined Petroleum Products Supplied													
Residential and Commercial	1.23	1.22	1.28	1.32	1.34	1.35	1.36	1.37	1.37	1.37	1.37	1.38	1.38
Industrial 12/	4.79	4.80	4.77	4.64	4.76	4.77	4.78	4.78	4.73	4.74	4.76	4.78	4.81
Transportation	13.14	13.21	13.40	13.74	14.09	14.39	14.64	14.90	15.17	15.44	15.69	15.96	16.23
Electric Generators 13/	0.55	0.38	0.45	0.24	0.29	0.27	0.29	0.31	0.29	0.27	0.31	0.35	0.35
Total	19.71	19.61	19.89	19.94	20.48	20.78	21.07	21.36	21.56	21.83	22.13	22.46	22.76
Discrepancy 14/	0.04	0.16	-0.03	0.66	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02
World Oil Price (2002 dollars per barrel) 15/	22.25	23.68	27.25	23.79	23.15	23.24	23.34	23.44	23.57	23.64	23.77	23.84	23.93
Import Share of Product Supplied	0.55	0.54	0.55	0.57	0.55	0.55	0.55	0.55	0.56	0.57	0.58	0.59	0.60
Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2002 dollars)	90.15	90.38	109.40	100.70	96.01	98.07	99.67	102.03	104.75	108.26	112.61	116.45	120.03
Domestic Refinery Distillation Capacity 16/	16.8	16.8	17.0	16.9	17.1	17.3	17.5	17.7	17.9	18.2	18.4	18.7	18.9
Capacity Utilization Rate (percent)	93.0	91.0	91.0	94.0	92.5	92.6	93.0	93.0	92.8	93.4	93.7	93.8	94.2

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

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2002-2025
<b>Crude Oil</b>													
Domestic Crude Production 1/ Alaska	5.54	5.50	5.38	5.23	5.22	5.12	4.96	4.80	4.63	4.59	4.51	4.39	-1.1%
Lower 48 States	0.95	0.93	0.90	0.86	0.82	0.76	0.72	0.67	0.62	0.57	0.53	0.50	-2.9%
Net Imports	4.59	4.57	4.48	4.37	4.41	4.36	4.24	4.13	4.01	4.02	3.97	3.89	-0.8%
Gross Imports	12.31	12.53	12.82	13.17	13.43	13.72	14.08	14.33	14.58	14.71	14.86	15.03	2.2%
Exports	12.37	12.58	12.87	13.22	13.47	13.77	14.12	14.36	14.60	14.73	14.87	15.04	2.2%
Other Crude Supply 2/	0.06	0.06	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.5%
	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
<b>Total Crude Supply</b>	<b>17.85</b>	<b>18.02</b>	<b>18.20</b>	<b>18.41</b>	<b>18.65</b>	<b>18.85</b>	<b>19.04</b>	<b>19.13</b>	<b>19.21</b>	<b>19.30</b>	<b>19.36</b>	<b>19.42</b>	<b>1.2%</b>
<b>Natural Gas Plant Liquids</b>	<b>2.24</b>	<b>2.23</b>	<b>2.22</b>	<b>2.24</b>	<b>2.29</b>	<b>2.30</b>	<b>2.33</b>	<b>2.33</b>	<b>2.35</b>	<b>2.34</b>	<b>2.35</b>	<b>2.35</b>	<b>1.0%</b>
<b>Other Inputs 3/</b>	<b>0.42</b>	<b>0.42</b>	<b>0.43</b>	<b>0.44</b>	<b>0.44</b>	<b>0.44</b>	<b>0.44</b>	<b>0.43</b>	<b>0.45</b>	<b>0.46</b>	<b>0.46</b>	<b>0.47</b>	<b>-1.6%</b>
<b>Refinery Processing Gain 4/</b>	<b>0.94</b>	<b>0.95</b>	<b>0.96</b>	<b>0.97</b>	<b>0.98</b>	<b>0.99</b>	<b>1.00</b>	<b>1.00</b>	<b>1.01</b>	<b>1.02</b>	<b>1.03</b>	<b>1.04</b>	<b>0.2%</b>
<b>Net Product Imports 5/</b>	<b>1.59</b>	<b>1.68</b>	<b>1.77</b>	<b>1.77</b>	<b>1.72</b>	<b>1.75</b>	<b>1.71</b>	<b>1.84</b>	<b>1.96</b>	<b>2.12</b>	<b>2.35</b>	<b>2.58</b>	<b>2.7%</b>
Gross Refined Product Imports 6/ Unfinished Oil Imports	1.96	2.00	2.07	2.08	2.06	2.07	2.01	2.10	2.21	2.33	2.53	2.69	1.5%
Ether Imports	0.60	0.65	0.68	0.67	0.65	0.67	0.69	0.73	0.75	0.79	0.83	0.90	3.5%
Exports	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
	0.96	0.97	0.98	0.98	0.99	0.99	0.99	0.99	1.00	1.00	1.01	1.01	0.1%
<b>Total Primary Supply 7/</b>	<b>23.04</b>	<b>23.30</b>	<b>23.57</b>	<b>23.81</b>	<b>24.08</b>	<b>24.33</b>	<b>24.52</b>	<b>24.73</b>	<b>24.98</b>	<b>25.24</b>	<b>25.55</b>	<b>25.85</b>	<b>1.2%</b>
<b>Refined Petroleum Products Supplied</b>													
Motor Gasoline 8/ Jet Fuel 9/ Distillate Fuel 10/ Residual Fuel Other 11/ Total	10.99	11.12	11.24	11.37	11.49	11.61	11.74	11.87	12.02	12.17	12.35	12.54	1.5%
	2.02	2.06	2.10	2.13	2.16	2.19	2.21	2.23	2.24	2.26	2.27	2.28	1.5%
	4.45	4.53	4.59	4.64	4.70	4.76	4.80	4.83	4.89	4.96	5.04	5.12	1.4%
	0.73	0.74	0.74	0.74	0.74	0.75	0.74	0.73	0.74	0.74	0.74	0.75	0.1%
	4.86	4.88	4.92	4.95	5.00	5.03	5.06	5.09	5.11	5.13	5.16	5.19	0.4%
	23.06	23.32	23.59	23.83	24.10	24.35	24.54	24.75	25.00	25.26	25.57	25.87	1.2%
<b>Refined Petroleum Products Supplied</b>													
Residential and Commercial Industrial 12/ Transportation Electric Generators 13/ Total	1.38	1.38	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.38	1.39	1.38	0.5%
	4.83	4.85	4.88	4.92	4.97	5.00	5.02	5.05	5.08	5.10	5.13	5.16	0.3%
	16.47	16.68	16.90	17.13	17.35	17.55	17.74	17.95	18.17	18.40	18.66	18.94	1.6%
	0.38	0.40	0.42	0.40	0.40	0.42	0.39	0.37	0.37	0.37	0.39	0.40	0.2%
	23.06	23.32	23.59	23.83	24.10	24.35	24.54	24.75	25.00	25.26	25.57	25.87	1.2%
<b>Discrepancy 14/</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.02</b>	<b>-0.02</b>	<b>N/A</b>
<b>World Oil Price (2002 dollars per barrel) 15/</b>	<b>24.03</b>	<b>24.12</b>	<b>24.25</b>	<b>24.41</b>	<b>24.54</b>	<b>24.67</b>	<b>24.77</b>	<b>24.86</b>	<b>24.97</b>	<b>25.10</b>	<b>25.17</b>	<b>25.30</b>	<b>0.3%</b>
<b>Import Share of Product Supplied</b>	<b>0.60</b>	<b>0.61</b>	<b>0.62</b>	<b>0.63</b>	<b>0.63</b>	<b>0.64</b>	<b>0.64</b>	<b>0.65</b>	<b>0.66</b>	<b>0.67</b>	<b>0.67</b>	<b>0.68</b>	<b>1.0%</b>
<b>Net Expenditures for Imports of Crude Oil and Petroleum Products (billion 2002 dollars)</b>	<b>123.51</b>	<b>126.75</b>	<b>130.93</b>	<b>134.99</b>	<b>137.64</b>	<b>141.25</b>	<b>144.55</b>	<b>148.70</b>	<b>152.83</b>	<b>156.59</b>	<b>160.95</b>	<b>166.08</b>	<b>2.7%</b>
<b>Domestic Refinery Distillation Capacity 16/</b>	<b>19.2</b>	<b>19.4</b>	<b>19.6</b>	<b>19.9</b>	<b>20.0</b>	<b>20.2</b>	<b>20.4</b>	<b>20.5</b>	<b>20.6</b>	<b>20.7</b>	<b>20.7</b>	<b>20.8</b>	<b>0.9%</b>
<b>Capacity Utilization Rate (percent)</b>	<b>94.2</b>	<b>94.1</b>	<b>93.9</b>	<b>94.0</b>	<b>94.4</b>	<b>94.5</b>	<b>94.7</b>	<b>94.7</b>	<b>94.7</b>	<b>94.8</b>	<b>94.8</b>	<b>94.8</b>	<b>0.2%</b>

**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 LM2004.D101703A.



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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
World Oil Price (2002 dollars per barrel)	22.25	23.68	27.25	23.79	23.15	23.24	23.34	23.44	23.57	23.64	23.77
Delivered Sector Product Prices											
Residential											
Distillate Fuel	126.1	114.2	126.3	115.2	108.9	108.1	107.2	107.8	107.6	107.2	107.5
Liquefied Petroleum Gas	129.1	110.8	141.4	138.6	116.2	116.5	116.7	116.6	116.9	117.0	117.6
Commercial											
Distillate Fuel	88.5	84.1	93.1	84.9	75.8	74.8	74.2	74.6	74.6	74.3	74.6
Residual Fuel	52.5	63.1	74.4	61.9	59.6	59.6	59.9	60.2	60.4	60.6	61.0
Residual Fuel (2002 dollars per barrel)	22.07	26.48	31.23	25.98	25.03	25.05	25.16	25.26	25.37	25.43	25.60
Industrial 1/											
Distillate Fuel	91.8	86.2	95.2	86.9	78.3	77.2	76.9	77.1	77.4	77.2	77.6
Liquefied Petroleum Gas	107.1	71.1	90.6	88.7	79.2	79.8	79.7	80.8	81.1	79.7	80.9
Residual Fuel	49.6	58.3	68.8	57.2	53.7	53.8	54.1	54.4	54.6	54.8	55.1
Residual Fuel (2002 dollars per barrel)	20.82	24.48	28.89	24.04	22.56	22.60	22.72	22.84	22.95	23.01	23.15
Transportation											
Diesel Fuel (Distillate) 2/	141.0	130.6	144.3	131.8	130.7	134.6	137.5	138.2	136.4	138.4	139.4
Jet Fuel 3/	84.7	80.6	90.7	85.4	79.0	76.3	74.7	75.5	76.0	76.1	77.1
Motor Gasoline 4/	148.6	138.1	155.2	141.5	143.1	143.9	144.6	143.8	144.0	144.0	144.4
Liquefied Petroleum Gas	146.9	128.7	141.3	141.2	126.5	126.6	126.4	126.1	126.1	125.7	125.9
Residual Fuel	59.0	56.5	66.7	55.4	51.7	51.8	52.1	52.3	52.5	52.6	52.9
Residual Fuel (2002 dollars per barrel)	24.80	23.71	28.00	23.28	21.72	21.77	21.87	21.96	22.06	22.11	22.23
Ethanol (E85) 5/	148.1	135.8	150.5	150.5	149.6	150.4	152.3	152.3	152.0	153.0	154.8
Electric Generators 6/											
Distillate Fuel	86.5	77.4	85.6	77.9	68.8	67.3	66.9	67.0	66.4	66.5	66.6
Residual Fuel	68.1	60.4	69.6	60.1	57.9	58.3	58.4	58.4	58.4	58.7	58.8
Residual Fuel (2002 dollars per barrel)	28.61	25.38	29.24	25.23	24.31	24.48	24.52	24.51	24.55	24.63	24.71
Refined Petroleum Product Prices 7/											
Distillate Fuel	126.8	118.1	130.1	119.2	115.9	118.2	120.1	120.8	120.1	121.7	122.5
Jet Fuel 3/	84.7	80.6	90.7	85.4	79.0	76.3	74.7	75.5	76.0	76.1	77.1
Liquefied Petroleum Gas	111.5	79.6	101.4	99.4	87.5	88.1	88.2	89.1	89.6	88.6	89.7
Motor Gasoline 4/	148.5	138.1	155.2	141.4	143.1	143.9	144.6	143.8	144.0	144.0	144.4
Residual Fuel	62.2	58.6	68.6	57.4	54.4	54.5	54.8	55.0	55.2	55.3	55.7
Residual Fuel (2002 dollars per barrel)	26.14	24.62	28.82	24.10	22.86	22.91	23.01	23.10	23.18	23.24	23.38
Average	126.7	116.1	131.5	121.8	119.6	120.5	121.2	121.1	121.4	121.7	122.3

**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)	23.84	23.93	24.03	24.12	24.25	24.41	24.54	24.67	24.77	24.86	24.97
Delivered Sector Product Prices											
Residential											
Distillate Fuel	107.7	107.8	108.0	108.1	108.4	109.0	109.5	110.0	110.1	110.1	110.4
Liquefied Petroleum Gas	117.8	118.2	118.3	118.8	119.2	120.1	120.6	121.1	121.5	121.6	122.0
Commercial											
Distillate Fuel	74.8	74.8	74.8	74.9	75.1	75.7	76.2	76.6	76.8	77.0	77.6
Residual Fuel	61.1	61.4	61.6	61.8	62.1	62.4	62.7	63.0	63.2	63.4	63.6
Residual Fuel (2002 dollars per barrel)	25.68	25.78	25.88	25.95	26.07	26.23	26.34	26.47	26.54	26.61	26.72
Industrial 1/											
Distillate Fuel	77.9	77.8	77.6	77.7	77.9	78.6	79.1	79.4	79.8	80.3	81.0
Liquefied Petroleum Gas	81.1	81.4	80.9	81.9	82.3	83.3	83.3	83.8	85.0	85.2	85.5
Residual Fuel	55.3	55.5	55.7	55.9	56.3	56.6	56.9	57.3	57.4	57.6	57.8
Residual Fuel (2002 dollars per barrel)	23.22	23.31	23.41	23.49	23.63	23.79	23.91	24.05	24.12	24.19	24.30
Transportation											
Diesel Fuel (Distillate) 2/	138.9	136.6	137.0	137.5	136.6	135.5	133.0	131.2	130.1	130.3	129.8
Jet Fuel 3/	76.9	76.4	76.2	76.0	76.1	76.2	76.2	75.7	75.9	76.3	76.4
Motor Gasoline 4/	144.0	143.7	143.2	142.9	143.0	142.9	142.7	142.6	142.3	142.1	142.1
Liquefied Petroleum Gas	125.8	125.9	125.6	125.7	125.8	126.3	127.1	127.5	126.4	126.0	126.2
Residual Fuel	53.1	53.3	53.5	53.7	54.0	54.3	54.6	54.9	55.1	55.3	55.5
Residual Fuel (2002 dollars per barrel)	22.30	22.38	22.46	22.55	22.67	22.82	22.94	23.07	23.15	23.23	23.33
Ethanol (E85) 5/	156.3	156.7	157.1	157.6	158.1	158.4	158.7	156.1	156.2	162.3	162.9
Electric Generators 6/											
Distillate Fuel	66.8	66.9	66.9	66.8	67.1	67.9	68.4	68.7	68.9	69.3	69.9
Residual Fuel	59.0	59.2	59.4	59.7	60.0	60.5	60.8	61.1	61.4	61.9	62.2
Residual Fuel (2002 dollars per barrel)	24.77	24.87	24.95	25.08	25.19	25.40	25.54	25.65	25.81	25.98	26.11
Refined Petroleum Product Prices 7/											
Distillate Fuel	121.9	120.6	120.7	120.8	120.4	120.2	118.7	117.6	117.1	117.6	117.5
Jet Fuel 3/	76.9	76.4	76.2	76.0	76.1	76.2	76.2	75.7	75.9	76.3	76.4
Liquefied Petroleum Gas	90.0	90.3	90.0	90.9	91.4	92.3	92.5	93.0	94.0	94.1	94.5
Motor Gasoline 4/	144.0	143.7	143.2	142.9	143.0	142.9	142.7	142.6	142.3	142.1	142.1
Residual Fuel	55.9	56.1	56.3	56.6	56.9	57.3	57.6	57.9	58.1	58.3	58.6
Residual Fuel (2002 dollars per barrel)	23.46	23.56	23.66	23.76	23.89	24.06	24.18	24.32	24.40	24.50	24.61
Average	122.0	121.7	121.4	121.4	121.4	121.5	121.1	120.9	120.8	121.0	121.1

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

	2023	2024	2025	2002- 2025
World Oil Price (2002 dollars per barrel)	25.10	25.17	25.30	0.3%
<b>Delivered Sector Product Prices</b>				
<b>Residential</b>				
Distillate Fuel	111.6	112.8	113.6	0.0%
Liquefied Petroleum Gas	123.2	123.7	124.3	0.5%
<b>Commercial</b>				
Distillate Fuel	78.7	79.5	80.6	-0.2%
Residual Fuel	63.9	64.1	64.3	0.1%
Residual Fuel (2002 dollars per barrel)	26.84	26.90	27.02	0.1%
<b>Industrial 1/</b>				
Distillate Fuel	82.0	82.7	84.0	-0.1%
Liquefied Petroleum Gas	86.6	87.0	87.5	0.9%
Residual Fuel	58.1	58.3	58.6	0.0%
Residual Fuel (2002 dollars per barrel)	24.42	24.49	24.62	0.0%
<b>Transportation</b>				
Diesel Fuel (Distillate) 2/	129.8	129.4	130.3	0.0%
Jet Fuel 3/	76.7	76.9	77.9	-0.2%
Motor Gasoline 4/	142.1	141.9	142.2	0.1%
Liquefied Petroleum Gas	127.2	127.7	128.2	0.0%
Residual Fuel	55.8	56.0	56.3	0.0%
Residual Fuel (2002 dollars per barrel)	23.45	23.51	23.63	0.0%
Ethanol (E85) 5/	163.5	163.9	164.5	0.8%
<b>Electric Generators 6/</b>				
Distillate Fuel	71.1	72.1	73.3	-0.2%
Residual Fuel	62.5	62.5	62.8	0.2%
Residual Fuel (2002 dollars per barrel)	26.23	26.26	26.37	0.2%
<b>Refined Petroleum Product Prices 7/</b>				
Distillate Fuel	117.9	117.9	119.0	0.0%
Jet Fuel 3/	76.7	76.9	77.9	-0.2%
Liquefied Petroleum Gas	95.6	96.0	96.5	0.8%
Motor Gasoline 4/	142.1	141.9	142.2	0.1%
Residual Fuel	58.9	59.0	59.3	0.1%
Residual Fuel (2002 dollars per barrel)	24.74	24.79	24.92	0.1%
Average	121.4	121.5	122.2	0.2%

**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](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](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 LM2004.D101703A.

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Production											
Dry Gas Production 1/	19.70	19.05	19.57	19.34	19.27	19.29	19.56	19.66	19.73	20.15	20.23
Supplemental Natural Gas 2/	0.09	0.08	0.08	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Net Imports	3.60	3.49	3.51	3.56	3.77	4.12	4.18	4.53	4.71	4.83	5.01
Canada	3.56	3.59	3.40	3.46	3.37	3.29	3.25	3.29	3.43	3.53	3.43
Mexico	-0.13	-0.26	-0.31	-0.42	-0.43	-0.45	-0.41	-0.38	-0.34	-0.35	-0.36
Liquefied Natural Gas	0.17	0.17	0.43	0.52	0.82	1.28	1.34	1.61	1.62	1.64	1.93
Total Supply	23.39	22.62	23.15	22.98	23.13	23.51	23.84	24.29	24.54	25.07	25.34
Consumption by Sector											
Residential	4.78	4.92	5.07	5.17	5.20	5.28	5.34	5.40	5.44	5.50	5.53
Commercial	3.24	3.12	3.17	3.11	3.17	3.25	3.30	3.35	3.40	3.45	3.49
Industrial 3/	7.35	7.23	7.21	7.45	7.54	7.58	7.65	7.66	7.75	7.86	7.94
Electric Generators 4/	5.38	5.55	4.97	5.57	5.50	5.64	5.73	6.01	6.03	6.26	6.37
Transportation 5/	0.01	0.01	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06
Pipeline Fuel	0.62	0.63	0.66	0.64	0.64	0.63	0.64	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	1.27	1.35	1.35
Total	22.48	22.78	22.09	22.96	23.12	23.52	23.86	24.32	24.58	25.13	25.40
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/	20.55	20.39	20.80	20.76	20.75	21.01	21.54	21.71	22.10	22.19	22.52
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	5.05	5.47	5.31	5.44	5.73	5.94	5.87	5.86	5.74	5.88	5.86
Canada	3.40	3.28	3.12	3.04	2.90	2.70	2.65	2.57	2.44	2.28	2.26
Mexico	-0.36	-0.36	-0.35	-0.31	-0.26	-0.22	-0.24	-0.25	-0.27	-0.28	-0.30
Liquefied Natural Gas	2.01	2.55	2.54	2.70	3.09	3.46	3.46	3.54	3.56	3.88	3.90
Total Supply	25.69	25.96	26.21	26.29	26.57	27.04	27.50	27.66	27.94	28.16	28.48
Consumption by Sector											
Residential	5.56	5.56	5.58	5.60	5.63	5.65	5.68	5.70	5.75	5.77	5.80
Commercial	3.52	3.54	3.56	3.58	3.60	3.64	3.67	3.69	3.72	3.76	3.80
Industrial 3/	7.97	8.03	8.07	8.08	8.14	8.25	8.36	8.40	8.45	8.53	8.59
Electric Generators 4/	6.61	6.79	6.93	6.97	7.12	7.41	7.66	7.71	7.78	7.81	7.96
Transportation 5/	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09
Pipeline Fuel	0.67	0.66	0.67	0.67	0.67	0.67	0.69	0.69	0.73	0.76	0.77
Lease and Plant Fuel 6/	1.37	1.37	1.39	1.40	1.40	1.42	1.45	1.46	1.50	1.53	1.55
Total	25.76	26.02	26.28	26.37	26.65	27.11	27.58	27.74	28.01	28.24	28.56
Gas to Liquids	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Discrepancy 7/	-0.07	-0.07	-0.07	-0.07	-0.07	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08

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

	2023	2024	2025	2002- 2025
Production				
Dry Gas Production 1/	22.53	22.64	22.70	0.8%
Supplemental Natural Gas 2/	0.10	0.10	0.10	0.8%
Net Imports	5.95	6.06	6.23	2.5%
Canada	2.26	2.30	2.37	-1.8%
Mexico	-0.30	-0.31	-0.31	0.7%
Liquefied Natural Gas	3.99	4.06	4.17	15.1%
Total Supply	28.58	28.79	29.03	1.1%
Consumption by Sector				
Residential	5.81	5.84	5.83	0.7%
Commercial	3.82	3.84	3.87	0.9%
Industrial 3/	8.65	8.71	8.78	0.8%
Electric Generators 4/	7.95	8.04	8.18	1.7%
Transportation 5/	0.09	0.10	0.10	8.9%
Pipeline Fuel	0.77	0.78	0.78	0.9%
Lease and Plant Fuel 6/	1.56	1.56	1.57	0.8%
Total	28.66	28.87	29.11	1.1%
Gas to Liquids	0.00	0.00	0.00	N/A
Discrepancy 7/	-0.08	-0.08	-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 LM2004.D101703A



**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
<b>Source Price</b>											
Average Lower 48 Wellhead Price 1/	4.14	2.95	4.90	3.84	3.47	3.35	3.40	3.48	3.35	3.31	3.45
Average Import Price	4.49	3.14	5.36	3.89	3.64	3.52	3.56	3.60	3.60	3.63	3.76
Average 2/	4.20	2.98	4.98	3.85	3.50	3.39	3.43	3.51	3.41	3.38	3.52
<b>Delivered Prices</b>											
Residential	9.79	7.86	9.28	9.03	8.57	8.31	8.19	8.10	7.90	7.78	7.88
Commercial	8.67	6.55	8.31	7.74	7.30	7.08	7.01	6.96	6.80	6.72	6.83
Industrial 3/	5.04	3.85	5.76	4.58	4.21	4.08	4.11	4.18	4.08	4.05	4.16
Electric Generators 4/	5.40	3.85	5.73	4.54	4.19	4.05	4.08	4.14	4.06	4.02	4.13
Transportation 5/	8.94	7.58	9.70	8.44	8.09	8.07	8.21	8.33	8.31	8.35	8.49
Average 6/	6.81	5.21	7.03	6.12	5.73	5.56	5.54	5.54	5.42	5.34	5.45
<b>Transmission &amp; Distribution Margins 7/</b>											
Residential	5.59	4.88	4.30	5.18	5.07	4.92	4.76	4.59	4.50	4.40	4.36
Commercial	4.47	3.56	3.33	3.90	3.80	3.69	3.57	3.45	3.40	3.33	3.31
Industrial 3/	0.84	0.87	0.78	0.73	0.71	0.69	0.68	0.67	0.68	0.67	0.64
Electric Generators 4/	1.20	0.86	0.75	0.69	0.69	0.67	0.65	0.63	0.66	0.64	0.61
Transportation 5/	4.74	4.60	4.72	4.59	4.59	4.69	4.77	4.83	4.91	4.97	4.97
Average 6/	2.61	2.23	2.05	2.27	2.23	2.17	2.11	2.03	2.01	1.96	1.93
<b>Transmission &amp; Distribution Revenue (billion 2002 dollars)</b>											
Residential	26.74	24.02	21.83	26.79	26.36	25.98	25.40	24.80	24.46	24.18	24.13
Commercial	14.49	11.12	10.53	12.12	12.05	11.99	11.81	11.56	11.54	11.51	11.55
Industrial 3/	6.20	6.27	5.62	5.44	5.32	5.24	5.21	5.12	5.24	5.23	5.10
Electric Generators 4/	6.46	4.78	3.72	3.87	3.77	3.75	3.71	3.79	3.97	4.01	3.86
Transportation 5/	0.05	0.06	0.10	0.12	0.14	0.16	0.19	0.21	0.24	0.27	0.29
Total	53.93	46.25	41.79	48.33	47.64	47.13	46.31	45.48	45.45	45.19	44.93

**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
<b>Source Price</b>											
Average Lower 48 Wellhead Price 1/	3.62	3.67	3.73	3.88	3.90	3.85	3.86	3.97	3.97	3.92	3.96
Average Import Price	3.90	4.02	4.20	4.25	4.30	4.23	4.24	4.30	4.28	4.24	4.27
Average 2/	3.69	3.75	3.84	3.97	4.00	3.94	3.95	4.05	4.04	4.00	4.04
<b>Delivered Prices</b>											
Residential	8.02	8.06	8.12	8.19	8.19	8.13	8.15	8.23	8.18	8.09	8.12
Commercial	6.97	7.02	7.10	7.18	7.20	7.14	7.16	7.25	7.21	7.13	7.17
Industrial 3/	4.33	4.37	4.47	4.60	4.62	4.57	4.57	4.67	4.68	4.64	4.68
Electric Generators 4/	4.29	4.35	4.43	4.54	4.56	4.51	4.52	4.61	4.61	4.56	4.60
Transportation 5/	8.66	8.73	8.82	8.91	8.93	8.88	8.88	8.95	8.90	8.80	8.84
Average 6/	5.59	5.63	5.71	5.81	5.82	5.75	5.75	5.84	5.83	5.77	5.80
<b>Transmission &amp; Distribution Margins 7/</b>											
Residential	4.33	4.31	4.28	4.22	4.19	4.19	4.20	4.18	4.14	4.09	4.09
Commercial	3.29	3.27	3.26	3.21	3.20	3.20	3.21	3.20	3.17	3.13	3.13
Industrial 3/	0.64	0.62	0.62	0.63	0.62	0.62	0.63	0.62	0.63	0.64	0.64
Electric Generators 4/	0.61	0.60	0.59	0.57	0.56	0.57	0.57	0.56	0.56	0.56	0.57
Transportation 5/	4.97	4.98	4.98	4.94	4.93	4.94	4.93	4.90	4.85	4.81	4.80
Average 6/	1.91	1.88	1.87	1.84	1.82	1.81	1.80	1.79	1.78	1.77	1.76
<b>Transmission &amp; Distribution Revenue (billion 2002 dollars)</b>											
Residential	24.08	23.95	23.89	23.62	23.61	23.68	23.84	23.85	23.78	23.58	23.69
Commercial	11.56	11.57	11.61	11.51	11.52	11.64	11.77	11.82	11.81	11.79	11.90
Industrial 3/	5.10	4.97	5.03	5.09	5.07	5.15	5.23	5.22	5.35	5.47	5.48
Electric Generators 4/	4.00	4.05	4.10	3.98	4.01	4.23	4.35	4.32	4.36	4.37	4.50
Transportation 5/	0.31	0.33	0.35	0.36	0.38	0.40	0.41	0.42	0.43	0.43	0.44
Total	45.06	44.88	44.98	44.56	44.59	45.08	45.61	45.63	45.73	45.65	46.01

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

	2023	2024	2025	2002- 2025
<b>Source Price</b>				
Average Lower 48 Wellhead Price 1/	4.08	4.14	4.28	1.6%
Average Import Price	4.35	4.39	4.48	1.5%
Average 2/	4.14	4.20	4.33	1.6%
<b>Delivered Prices</b>				
Residential	8.22	8.29	8.41	0.3%
Commercial	7.27	7.34	7.45	0.6%
Industrial 3/	4.78	4.83	4.95	1.1%
Electric Generators 4/	4.70	4.75	4.87	1.0%
Transportation 5/	8.93	9.00	9.11	0.8%
Average 6/	5.90	5.96	6.07	0.7%
<b>Transmission &amp; Distribution Margins 7/</b>				
Residential	4.08	4.09	4.08	-0.8%
Commercial	3.13	3.14	3.12	-0.6%
Industrial 3/	0.64	0.63	0.63	-1.4%
Electric Generators 4/	0.56	0.55	0.54	-2.0%
Transportation 5/	4.79	4.80	4.78	0.2%
Average 6/	1.76	1.76	1.74	-1.1%
<b>Transmission &amp; Distribution Revenue (billion 2002 dollars)</b>				
Residential	23.72	23.90	23.80	0.0%
Commercial	11.95	12.07	12.08	0.4%
Industrial 3/	5.50	5.52	5.51	-0.6%
Electric Generators 4/	4.43	4.43	4.43	-0.3%
Transportation 5/	0.45	0.46	0.47	9.1%
Total	46.05	46.39	46.30	0.0%

**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 LM2004.D101703A.

**Table 15. Oil and Gas Supply**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Crude Oil											
Lower 48 Average Wellhead Price 1/ (2002 dollars per barrel)	23.16	24.54	27.29	24.36	22.61	22.62	22.78	22.84	23.00	23.02	23.30
Production (million barrels per day) 2/											
U.S. Total	5.74	5.62	5.69	5.80	5.86	5.93	6.08	6.09	6.04	5.91	5.80
Lower 48 Onshore	3.14	3.11	2.93	2.95	2.90	2.83	2.77	2.71	2.65	2.60	2.55
Lower 48 Offshore	1.64	1.53	1.78	1.90	2.06	2.22	2.40	2.45	2.45	2.40	2.33
Alaska	0.96	0.98	0.98	0.95	0.90	0.88	0.91	0.93	0.94	0.92	0.92
Lower 48 End of Year Reserves (billion barrels) 2/	19.14	19.05	19.23	18.96	18.59	18.59	18.84	18.79	18.60	18.29	17.96
Natural Gas											
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	4.14	2.95	4.90	3.84	3.47	3.35	3.40	3.48	3.35	3.31	3.45
Dry Production (trillion cubic feet) 3/											
U.S. Total	19.70	19.05	19.57	19.34	19.27	19.30	19.57	19.66	19.73	20.15	20.24
Lower 48 Onshore	13.90	13.76	13.82	13.79	13.73	13.81	13.90	14.11	14.13	14.18	14.29
Associated-Dissolved 4/	1.63	1.60	1.54	1.54	1.52	1.49	1.47	1.45	1.42	1.40	1.38
Non-Associated	12.27	12.16	12.29	12.25	12.21	12.31	12.43	12.66	12.70	12.78	12.91
Conventional	6.62	6.23	6.07	6.19	6.16	6.03	5.93	5.86	5.77	5.72	5.72
Unconventional	5.65	5.93	6.22	6.05	6.05	6.28	6.50	6.80	6.93	7.06	7.19
Lower 48 Offshore	5.37	4.86	5.23	5.02	4.98	4.92	5.09	4.97	5.01	5.37	5.34
Associated-Dissolved 4/	1.15	1.05	1.13	1.16	1.16	1.16	1.48	1.76	1.69	1.61	1.52
Non-Associated	4.21	3.81	4.10	3.86	3.83	3.76	3.61	3.21	3.32	3.76	3.83
Alaska	0.44	0.43	0.51	0.54	0.56	0.57	0.58	0.58	0.59	0.60	0.61
Lower 48 End of Year Dry Reserves (tcf) 3/	174.66	180.03	182.47	187.13	190.81	193.54	194.23	195.86	197.75	198.58	199.30
Supplemental Gas Supplies (tcf) 5/	0.09	0.08	0.08	0.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Lower 48 Wells (thousands)	34.10	24.47	28.27	27.32	26.02	24.83	24.51	24.61	24.22	23.94	24.13

**Table 15. Oil and Gas Supply**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Crude Oil											
Lower 48 Average Wellhead Price 1/ (2002 dollars per barrel)	23.23	23.33	23.47	23.56	23.70	23.87	24.03	24.15	24.27	24.43	24.68
Production (million barrels per day) 2/											
U.S. Total	5.69	5.63	5.54	5.50	5.38	5.23	5.22	5.12	4.96	4.80	4.63
Lower 48 Onshore	2.50	2.45	2.40	2.36	2.32	2.28	2.24	2.21	2.17	2.14	2.10
Lower 48 Offshore	2.27	2.26	2.19	2.21	2.16	2.09	2.17	2.16	2.07	1.99	1.91
Alaska	0.92	0.93	0.95	0.93	0.90	0.86	0.82	0.76	0.72	0.67	0.62
Lower 48 End of Year Reserves (billion barrels) 2/	17.63	17.43	17.10	17.01	16.74	16.43	16.46	16.35	16.05	15.76	15.44
Natural Gas											
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	3.62	3.67	3.73	3.88	3.90	3.85	3.86	3.97	3.97	3.92	3.96
Dry Production (trillion cubic feet) 3/											
U.S. Total	20.56	20.39	20.81	20.77	20.75	21.01	21.54	21.71	22.10	22.19	22.53
Lower 48 Onshore	14.69	14.66	15.05	15.34	15.47	15.63	15.85	15.90	15.48	15.18	15.63
Associated-Dissolved 4/	1.36	1.34	1.32	1.30	1.29	1.27	1.25	1.24	1.22	1.21	1.20
Non-Associated	13.33	13.32	13.73	14.04	14.18	14.36	14.60	14.66	14.26	13.97	14.43
Conventional	5.83	5.72	5.80	5.84	5.82	5.81	5.84	5.82	5.70	5.59	5.76
Unconventional	7.51	7.60	7.93	8.19	8.37	8.55	8.76	8.84	8.55	8.38	8.67
Lower 48 Offshore	5.25	5.11	5.12	4.79	4.64	4.73	5.03	5.14	5.15	4.72	4.60
Associated-Dissolved 4/	1.44	1.37	1.36	1.33	1.37	1.38	1.33	1.34	1.34	1.27	1.22
Non-Associated	3.81	3.74	3.76	3.46	3.27	3.35	3.70	3.80	3.80	3.45	3.37
Alaska	0.61	0.62	0.63	0.64	0.64	0.65	0.66	0.67	1.48	2.29	2.30
Lower 48 End of Year Dry Reserves (tcf) 3/	199.94	201.36	200.94	200.64	200.66	201.38	200.93	200.59	198.82	197.54	195.41
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)	24.39	25.01	25.28	25.68	25.77	25.77	25.81	25.87	25.79	25.34	25.30

**Table 15. Oil and Gas Supply**

	2023	2024	2025	2025
Crude Oil				
Lower 48 Average Wellhead Price 1/ (2002 dollars per barrel)	24.65	24.71	24.83	0.1%
Production (million barrels per day) 2/				
U.S. Total	4.59	4.51	4.39	-1.1%
Lower 48 Onshore	2.07	2.04	2.01	-1.9%
Lower 48 Offshore	1.95	1.93	1.88	0.9%
Alaska	0.57	0.53	0.50	-2.9%
Lower 48 End of Year Reserves (billion barrels) 2/	15.02	14.71	14.42	-1.2%
Natural Gas				
Lower 48 Average Wellhead Price 1/ (2002 dollars per thousand cubic feet)	4.08	4.14	4.28	1.6%
Dry Production (trillion cubic feet) 3/				
U.S. Total	22.54	22.64	22.70	0.8%
Lower 48 Onshore	15.77	15.80	15.86	0.6%
Associated-Dissolved 4/	1.18	1.17	1.16	-1.4%
Non-Associated	14.59	14.63	14.71	0.8%
Conventional	5.77	5.72	5.70	-0.4%
Unconventional	8.81	8.91	9.00	1.8%
Lower 48 Offshore	4.46	4.52	4.51	-0.3%
Associated-Dissolved 4/	1.16	1.23	1.23	0.7%
Non-Associated	3.29	3.30	3.29	-0.6%
Alaska	2.31	2.32	2.32	7.6%
Lower 48 End of Year Dry Reserves (tcf) 3/	193.80	191.69	188.97	0.2%
Supplemental Gas Supplies (tcf) 5/	0.10	0.10	0.10	0.8%
Lower 48 Wells (thousands)	25.59	25.44	25.40	0.2%

**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 LM2004.D101703A.



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	389	394	395	402	404	398	398	401	399
Interior	147	147	152	154	156	163	165	167	168	165	165
West	548	550	558	568	583	593	609	618	631	642	657
East of the Mississippi	539	504	487	495	496	509	516	512	513	513	512
West of the Mississippi	599	601	613	621	638	649	662	671	684	694	709
Total	1138	1105	1100	1116	1134	1158	1178	1183	1197	1208	1221
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	35
Total	-29	-23	-21	-18	-15	-12	-9	-7	-5	-2	0
Total Supply 2/	1109	1083	1079	1098	1119	1146	1168	1176	1192	1205	1220
Consumption by Sector											
Residential and Commercial	4	4	5	5	5	5	5	5	5	5	5
Industrial 3/	65	63	64	64	64	63	63	63	62	62	62
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	23	23
Electric Generators 4/	964	976	1006	999	1026	1053	1076	1085	1101	1115	1130
Total	1060	1066	1100	1092	1119	1146	1169	1176	1192	1205	1220
Discrepancy and Stock Change 5/	49	17	-21	5	0	0	0	0	0	0	0
Average Minemouth Price											
(2002 dollars per short ton)	17.79	17.90	17.84	17.55	17.23	17.06	16.86	16.77	16.70	16.53	16.47
(2002 dollars per million Btu)	0.87	0.87	0.87	0.85	0.84	0.83	0.82	0.82	0.81	0.81	0.80
Delivered Price (2002 dollars per short ton)											
Industrial	32.96	33.24	35.52	34.88	34.47	34.23	33.84	33.90	33.74	33.54	33.41
Coke Plants	46.94	51.27	55.61	55.14	54.40	53.96	53.19	53.19	52.84	52.75	52.21
Electric Generators											
(2002 dollars / short ton)	25.13	25.96	25.03	24.82	24.73	24.52	24.25	24.26	24.16	24.03	23.94
(2002 dollars /million Btu)	1.25	1.26	1.24	1.23	1.23	1.22	1.20	1.20	1.20	1.19	1.19
Average	26.15	26.92	26.34	26.11	25.95	25.70	25.37	25.37	25.24	25.09	24.96
Exports 7/	37.39	40.44	37.42	36.78	36.51	36.24	35.83	36.03	35.80	35.68	35.39

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	385	383	380	383	382	375	382	381	385	383	383
Interior	160	160	160	158	156	157	158	160	161	156	161
West	683	693	708	721	743	762	763	781	791	814	826
East of the Mississippi	493	491	488	490	487	482	490	492	497	501	499
West of the Mississippi	735	745	760	772	794	812	813	831	840	853	871
Total	1228	1236	1248	1262	1281	1294	1303	1323	1337	1354	1370
Net Imports											
Imports	35	36	37	38	38	39	40	40	42	43	44
Exports	32	31	31	32	32	32	32	32	29	27	27
Total	4	5	6	6	6	7	8	9	12	15	16
Total Supply 2/	1232	1242	1254	1268	1288	1301	1311	1332	1349	1370	1387
Consumption by Sector											
Residential and Commercial	5	5	5	5	5	5	5	5	5	5	5
Industrial 3/	62	62	62	62	62	63	63	63	63	63	63
of which: Coal to Liquids	0	0	0	0	0	0	0	0	0	0	0
Coke Plants	23	22	22	21	21	20	20	19	19	19	18
Electric Generators 4/	1142	1153	1165	1180	1200	1214	1224	1245	1263	1284	1301
Total	1232	1242	1254	1269	1288	1301	1312	1332	1349	1370	1387
Discrepancy and Stock Change 5/	0	0	0	-1	0	0	0	-1	0	-1	-1
Average Minemouth Price											
(2002 dollars per short ton)	16.30	16.18	15.98	15.84	15.66	15.49	15.57	15.49	15.78	15.75	15.72
(2002 dollars per million Btu)	0.80	0.79	0.79	0.78	0.77	0.77	0.77	0.77	0.78	0.78	0.78
Delivered Price (2002 dollars per short ton)											
Industrial	33.13	32.84	32.70	32.35	32.10	31.84	31.76	31.53	31.62	31.60	31.52
Coke Plants	51.60	51.10	50.92	50.63	50.36	50.04	50.04	49.71	48.98	48.23	47.90
Electric Generators											
(2002 dollars / short ton)	23.85	23.64	23.38	23.17	22.99	22.81	22.86	22.71	22.87	22.88	22.77
(2002 dollars /million Btu)	1.19	1.18	1.17	1.16	1.15	1.15	1.15	1.14	1.15	1.15	1.14
Average	24.83	24.59	24.32	24.09	23.88	23.68	23.70	23.52	23.65	23.63	23.50
Exports 7/	34.78	34.56	34.53	34.41	34.33	34.34	34.50	34.15	33.43	32.61	32.47

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

	2023	2024	2025	2002- 2025
Production 1/				
Appalachia	380	375	378	-0.3%
Interior	156	163	144	-0.1%
West	854	879	898	2.2%
East of the Mississippi	495	488	492	-0.1%
West of the Mississippi	896	927	929	1.9%
Total	1391	1416	1420	1.1%
Net Imports				
Imports	45	45	46	4.4%
Exports	28	28	26	-1.8%
Total	17	17	20	N/A
Total Supply 2/	1408	1433	1440	1.2%
Consumption by Sector				
Residential and Commercial	5	5	5	0.4%
Industrial 3/	63	63	63	0.0%
of which: Coal to Liquids	0	0	0	N/A
Coke Plants	18	18	17	-1.2%
Electric Generators 4/	1322	1348	1355	1.4%
Total	1408	1434	1441	1.3%
Discrepancy and Stock Change 5/	0	-1	-1	N/A
Average Minemouth Price				
(2002 dollars per short ton)	15.68	15.63	15.67	-0.6%
(2002 dollars per million Btu)	0.78	0.78	0.78	-0.5%
Delivered Price (2002 dollars per short ton)				
Industrial	31.27	31.12	31.01	-0.3%
Coke Plants	47.21	46.86	46.67	-0.4%
Electric Generators				
(2002 dollars / short ton)	22.75	22.62	22.75	-0.6%
(2002 dollars /million Btu)	1.14	1.14	1.14	-0.4%
Average	23.44	23.29	23.40	-0.6%
Exports 7/	32.18	32.11	31.67	-1.1%

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 LM2004.D101703A. Projections: EIA, AEO2004 National Energy Modeling System run LM2004.D101703A.

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

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
<b>Electric Power Sector 1/</b>											
<b>Net Summer Capacity</b>											
Conventional Hydropower	78.13	78.29	78.43	78.50	78.57	78.71	78.71	78.71	78.71	78.69	78.68
Geothermal 2/	2.88	2.89	2.90	2.81	2.90	3.15	3.28	3.51	3.71	3.94	4.18
Municipal Solid Waste 3/	3.38	3.49	3.61	3.65	3.66	3.69	3.73	3.88	3.89	3.89	3.89
Wood and Other Biomass 4,5/	1.79	1.83	1.85	1.87	1.89	1.99	2.04	2.09	2.14	2.17	2.22
Solar Thermal	0.33	0.33	0.33	0.34	0.42	0.42	0.42	0.43	0.43	0.43	0.46
Solar Photovoltaic 6/	0.02	0.02	0.04	0.05	0.06	0.08	0.10	0.12	0.14	0.15	0.17
Wind	4.15	4.83	6.50	6.62	6.68	6.91	7.40	7.55	7.60	7.82	8.02
Total	90.67	91.69	93.66	93.83	94.19	94.96	95.69	96.29	96.61	97.09	97.61
<b>Generation (billion kilowatthours)</b>											
Conventional Hydropower	213.75	255.78	269.65	303.06	303.42	304.13	304.41	304.43	304.45	304.35	304.32
Geothermal 2/	13.74	13.36	13.82	13.66	14.23	15.95	17.23	19.14	20.81	22.67	24.66
Municipal Solid Waste 3/	19.22	20.02	25.58	25.97	26.12	26.29	26.63	27.79	27.87	27.89	27.90
Wood and Other Biomass 5/	8.56	8.67	14.43	15.88	18.65	19.80	20.78	21.21	22.27	22.68	22.90
Dedicated Plants	7.22	6.32	10.52	10.85	11.06	11.80	12.22	12.41	12.88	13.09	13.34
Cofiring	1.34	2.35	3.91	5.03	7.60	7.99	8.57	8.80	9.39	9.59	9.56
Solar Thermal	0.54	0.54	0.52	0.52	0.72	0.80	0.81	0.82	0.83	0.84	0.90
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
Wind	6.74	10.51	17.38	19.08	19.40	20.07	21.56	22.40	22.67	23.41	24.19
Total	262.55	308.87	341.45	378.29	382.69	387.23	391.66	396.07	399.22	402.20	405.27
<b>End Use Sector</b>											
<b>Net Summer Capacity</b>											
<b>Combined Heat and Power 7/</b>											
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
Biomass	3.80	3.91	3.97	4.19	4.34	4.42	4.46	4.48	4.57	4.71	4.85
Total	4.01	4.16	4.23	4.44	4.59	4.67	4.71	4.73	4.82	4.96	5.10
<b>Other End-Use Generators 8/</b>											
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
Geothermal	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
Total	1.05	1.06	1.08	1.10	1.12	1.16	1.21	1.27	1.33	1.41	1.42
<b>Generation (billion kwh)</b>											
<b>Combined Heat and Power 7/</b>											
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
Biomass	26.91	28.16	28.56	29.82	30.69	31.14	31.38	31.49	32.03	32.85	33.69
Total	28.68	30.00	30.66	31.92	32.79	33.25	33.48	33.59	34.13	34.95	35.79
<b>Other End-Use Generators 8/</b>											
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
Geothermal	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
Total	3.27	4.20	4.23	4.27	4.33	4.41	4.52	4.63	4.77	4.93	4.95

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

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Electric Power Sector 1/</b>											
<b>Net Summer Capacity</b>											
Conventional Hydropower	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68
Geothermal 2/	4.35	4.61	4.80	5.01	5.15	5.39	5.53	5.74	5.91	6.05	6.27
Municipal Solid Waste 3/	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.92	3.92	3.92
Wood and Other Biomass 4,5/	2.22	2.22	2.30	2.30	2.37	2.43	2.49	2.49	2.55	2.58	2.61
Solar Thermal	0.46	0.47	0.47	0.47	0.48	0.48	0.49	0.49	0.49	0.50	0.50
Solar Photovoltaic 6/	0.18	0.20	0.22	0.24	0.25	0.27	0.29	0.31	0.32	0.34	0.36
Wind	8.12	8.57	9.04	9.38	9.77	10.08	10.26	10.58	10.77	11.07	11.35
Total	97.91	98.64	99.41	99.97	100.60	101.22	101.64	102.19	102.65	103.13	103.69
<b>Generation (billion kilowatthours)</b>											
Conventional Hydropower	304.34	304.38	304.41	304.44	304.47	304.49	304.52	304.55	304.57	304.60	304.63
Geothermal 2/	26.08	28.22	29.80	31.51	32.75	34.68	35.83	37.57	38.92	40.11	41.94
Municipal Solid Waste 3/	27.91	27.92	27.92	27.93	27.94	27.95	27.99	28.00	28.18	28.18	28.19
Wood and Other Biomass 5/	23.77	23.72	24.17	24.40	24.64	24.92	25.25	25.06	25.16	25.22	25.31
Dedicated Plants	13.46	13.51	13.84	13.98	14.40	14.75	15.18	15.34	15.66	15.85	16.09
Cofiring	10.30	10.21	10.33	10.42	10.24	10.17	10.07	9.72	9.50	9.37	9.22
Solar Thermal	0.93	0.94	0.96	0.97	0.98	1.00	1.01	1.02	1.04	1.05	1.06
Solar Photovoltaic 6/	0.44	0.49	0.53	0.57	0.62	0.66	0.71	0.75	0.79	0.84	0.88
Wind	24.57	26.16	27.84	29.03	30.45	31.57	32.24	33.40	34.10	35.18	36.20
Total	408.04	411.82	415.63	418.85	421.85	425.27	427.55	430.35	432.77	435.19	438.22
<b>End Use Sector</b>											
<b>Net Summer Capacity</b>											
<b>Combined Heat and Power 7/</b>											
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
Biomass	5.02	5.19	5.35	5.46	5.58	5.72	5.85	5.94	6.02	6.13	6.24
Total	5.27	5.44	5.60	5.71	5.83	5.97	6.11	6.20	6.27	6.38	6.49
<b>Other End-Use Generators 8/</b>											
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
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic	0.40	0.41	0.42	0.42	0.43	0.44	0.45	0.45	0.49	0.53	0.61
Total	1.42	1.43	1.44	1.45	1.45	1.46	1.47	1.48	1.51	1.55	1.63
<b>Generation (billion kwh)</b>											
<b>Combined Heat and Power 7/</b>											
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
Biomass	34.66	35.65	36.59	37.25	37.91	38.73	39.54	40.05	40.51	41.16	41.80
Total	36.76	37.75	38.69	39.35	40.01	40.83	41.64	42.16	42.61	43.26	43.90
<b>Other End-Use Generators 8/</b>											
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
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar Photovoltaic	0.86	0.87	0.89	0.91	0.92	0.94	0.96	0.97	1.05	1.13	1.31
Total	4.97	4.98	5.00	5.02	5.03	5.05	5.07	5.08	5.16	5.24	5.42

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

	2023	2024	2025	2002- 2025
<b>Electric Power Sector 1/</b>				
<b>Net Summer Capacity</b>				
Conventional Hydropower	78.68	78.68	78.68	0.0%
Geothermal 2/	6.42	6.53	6.63	3.7%
Municipal Solid Waste 3/	3.92	3.92	3.92	0.5%
Wood and Other Biomass 4,5/	2.65	2.65	2.65	1.6%
Solar Thermal	0.51	0.51	0.52	1.9%
Solar Photovoltaic 6/	0.38	0.39	0.41	13.5%
Wind	11.73	11.90	12.09	4.1%
Total	104.28	104.59	104.90	0.6%
<b>Generation (billion kilowatthours)</b>				
Conventional Hydropower	304.66	304.69	304.72	0.8%
Geothermal 2/	43.16	44.18	45.01	5.4%
Municipal Solid Waste 3/	28.20	28.21	28.22	1.5%
Wood and Other Biomass 5/	25.50	25.40	25.21	4.7%
Dedicated Plants	16.36	16.46	16.52	4.3%
Cofiring	9.14	8.94	8.68	5.8%
Solar Thermal	1.08	1.09	1.11	3.2%
Solar Photovoltaic 6/	0.93	0.97	1.02	28.8%
Wind	37.58	38.23	38.91	5.9%
Total	441.10	442.77	444.18	1.6%
<b>End Use Sector</b>				
<b>Net Summer Capacity</b>				
<b>Combined Heat and Power 7/</b>				
Municipal Solid Waste	0.25	0.25	0.25	0.0%
Biomass	6.35	6.47	6.60	2.3%
Total	6.61	6.72	6.86	2.2%
<b>Other End-Use Generators 8/</b>				
Conventional Hydropower 9/	1.02	1.02	1.02	0.0%
Geothermal	0.00	0.00	0.00	N/A
Solar Photovoltaic	0.69	0.79	0.89	14.2%
Total	1.72	1.81	1.91	2.6%
<b>Generation (billion kwh)</b>				
<b>Combined Heat and Power 7/</b>				
Municipal Solid Waste	2.10	2.10	2.10	0.6%
Biomass	42.45	43.14	43.92	2.0%
Total	44.55	45.24	46.02	1.9%
<b>Other End-Use Generators 8/</b>				
Conventional Hydropower 9/	4.11	4.11	4.11	0.0%
Geothermal	0.00	0.00	0.00	N/A
Solar Photovoltaic	1.49	1.69	1.92	14.2%
Total	5.60	5.80	6.02	1.6%

**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 LM2004.D101703A.



**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 report. 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 LM2004.D101.

**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	0.40	0.40	0.40	0.40	0.40
Wood	0.36	0.39	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Commercial	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	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	1.70	1.73	1.76	1.77	1.78	1.80	1.83	1.86	1.90
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	1.65	1.68	1.70	1.72	1.72	1.75	1.78	1.81	1.85
Transportation	0.14	0.17	0.23	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29
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	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29
Electric Generators 5/	3.16	3.69	3.80	4.18	4.24	4.33	4.41	4.50	4.57	4.64	4.72	4.78
Conventional Hydroelectric	2.29	2.75	2.78	3.12	3.12	3.13	3.13	3.13	3.13	3.13	3.13	3.13
Geothermal	0.29	0.30	0.30	0.30	0.32	0.37	0.41	0.47	0.53	0.59	0.65	0.70
Municipal Solid Waste 6/	0.33	0.34	0.35	0.36	0.36	0.36	0.37	0.38	0.38	0.38	0.38	0.38
Biomass	0.15	0.17	0.19	0.20	0.23	0.25	0.26	0.26	0.28	0.28	0.28	0.29
Dedicated Plants	0.12	0.11	0.13	0.13	0.12	0.13	0.14	0.14	0.15	0.15	0.15	0.15
Cofiring	0.03	0.06	0.06	0.08	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.14
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wind	0.08	0.13	0.18	0.20	0.20	0.21	0.22	0.23	0.23	0.24	0.25	0.25
<b>Total Marketed Renewable Energy</b>	<b>5.40</b>	<b>6.01</b>	<b>6.20</b>	<b>6.65</b>	<b>6.74</b>	<b>6.86</b>	<b>6.95</b>	<b>7.05</b>	<b>7.15</b>	<b>7.26</b>	<b>7.37</b>	<b>7.47</b>
Sources of Ethanol												
From Corn	0.14	0.17	0.23	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.28
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
<b>Total</b>	<b>0.14</b>	<b>0.17</b>	<b>0.23</b>	<b>0.26</b>	<b>0.26</b>	<b>0.27</b>	<b>0.27</b>	<b>0.28</b>	<b>0.28</b>	<b>0.28</b>	<b>0.29</b>	<b>0.29</b>
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	0.03
Solar Hot Water Heating	0.04	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	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	0.00
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39
Wood	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39
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/	1.94	1.98	2.01	2.04	2.08	2.11	2.14	2.16	2.19	2.22	2.25	2.28
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	1.89	1.92	1.95	1.99	2.02	2.06	2.09	2.11	2.14	2.17	2.20	2.23
Transportation	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33
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	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33
Electric Generators 5/	4.86	4.93	5.00	5.06	5.14	5.18	5.25	5.30	5.35	5.42	5.48	5.52
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	0.77	0.82	0.87	0.91	0.97	1.01	1.07	1.11	1.15	1.21	1.25	1.28
Municipal Solid Waste 6/	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39
Biomass	0.29	0.30	0.30	0.30	0.30	0.31	0.30	0.30	0.30	0.31	0.31	0.31
Dedicated Plants	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19
Cofiring	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.12
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	0.27	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.39	0.39
<b>Total Marketed Renewable Energy</b>	<b>7.60</b>	<b>7.71</b>	<b>7.81</b>	<b>7.90</b>	<b>8.02</b>	<b>8.10</b>	<b>8.20</b>	<b>8.28</b>	<b>8.36</b>	<b>8.46</b>	<b>8.55</b>	<b>8.63</b>
Sources of Ethanol												
From Corn	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
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
<b>Total</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.30</b>	<b>0.31</b>	<b>0.31</b>	<b>0.31</b>	<b>0.32</b>	<b>0.32</b>	<b>0.32</b>	<b>0.33</b>	<b>0.33</b>
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	0.00

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

	2025	2002- 2025
<b>Marketed Renewable Energy 2/</b>		
Residential	0.39	0.0%
Wood	0.39	0.0%
Commercial	0.10	0.0%
Biomass	0.10	0.0%
Industrial 3/	2.32	1.5%
Conventional Hydroelectric	0.04	0.0%
Municipal Solid Waste	0.01	N/A
Biomass	2.27	1.5%
Transportation	0.34	2.9%
Ethanol used in E85 4/	0.00	N/A
Ethanol used in Gasoline Blending	0.33	2.9%
Electric Generators 5/	5.55	1.8%
Conventional Hydroelectric	3.13	0.6%
Geothermal	1.30	6.7%
Municipal Solid Waste 6/	0.39	0.6%
Biomass	0.30	2.6%
Dedicated Plants	0.19	2.3%
Cofiring	0.12	3.1%
Solar Thermal	0.02	6.0%
Solar Photovoltaic	0.00	N/A
Wind	0.40	5.1%
<b>Total Marketed Renewable Energy</b>	<b>8.70</b>	<b>1.6%</b>
<b>Sources of Ethanol</b>		
From Corn	0.29	2.2%
From Cellulose	0.05	N/A
Total	0.34	2.9%
<b>Non-Marketed Renewable Energy</b>		
<b>-- Selected Consumption 7/</b>		
Residential	0.05	3.0%
Solar Hot Water Heating	0.04	2.2%
Geothermal Heat Pumps	0.01	8.4%
Solar Photovoltaic	0.00	14.7%
Commercial	0.03	1.3%
Solar Thermal	0.03	0.5%
Solar Photovoltaic	0.01	14.2%

**Table 18. Renewable Energy Consumption by Sector and Source (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 kilowatt-hour.

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 releases.  
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 LM2004.D101703A.

**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
<b>Residential</b>													
Petroleum	105.6	104.0	104.2	109.2	109.9	110.8	111.0	111.1	110.5	110.2	110.0	110.0	109.5
Natural Gas	259.5	267.2	275.2	280.9	282.3	286.5	289.6	293.2	295.3	298.3	300.1	301.9	301.9
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	827.4	819.1	833.2	850.6	867.9	882.0	889.4	900.4	911.9	923.5	930.2
Total	1157.0	1189.0	1208.0	1210.3	1226.6	1249.1	1269.7	1287.4	1296.4	1310.1	1323.1	1336.5	1342.7
<b>Commercial</b>													
Petroleum	52.9	52.6	60.9	61.5	62.8	63.6	64.5	64.9	65.4	66.0	66.4	66.8	67.2
Natural Gas	165.0	169.4	171.9	168.8	172.1	176.3	179.3	181.7	184.4	187.5	189.6	190.9	192.1
Coal	9.2	9.2	9.3	9.0	9.3	9.4	9.3	9.3	9.2	9.2	9.3	9.3	9.2
Electricity	787.4	778.0	783.0	789.3	818.9	847.7	873.9	893.8	911.9	931.6	952.8	970.9	989.2
Total	1014.5	1009.1	1025.0	1028.6	1063.1	1097.0	1127.0	1149.7	1171.0	1194.3	1218.1	1237.8	1257.8
<b>Industrial 1/</b>													
Petroleum	409.9	412.8	345.3	334.2	347.2	348.8	349.6	349.6	346.0	346.2	346.2	347.5	349.1
Natural Gas 2/	441.5	432.7	439.1	451.3	459.4	464.8	471.7	475.6	483.5	493.3	498.1	500.8	503.9
Coal	196.8	185.1	195.8	194.7	193.7	191.9	190.5	188.9	187.9	186.9	185.7	184.4	182.9
Electricity	634.1	640.0	631.1	619.2	628.7	639.3	648.8	649.1	649.8	654.5	660.0	664.3	669.3
Total	1682.3	1670.6	1611.3	1599.4	1629.0	1644.9	1660.6	1663.3	1667.2	1680.9	1689.9	1697.0	1705.1
<b>Transportation</b>													
Petroleum 3/	1789.7	1811.2	1849.0	1893.8	1941.7	1982.3	2017.6	2053.3	2089.3	2127.3	2162.2	2198.5	2236.2
Natural Gas 4/	33.9	35.2	36.9	36.2	36.2	36.3	36.7	36.9	37.5	38.6	38.9	39.7	39.6
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	14.2	14.2	14.6	14.6	15.1	15.5	15.8	16.1	16.3	16.6	16.8	17.1	17.4
Total	1837.8	1860.6	1900.6	1944.7	1993.0	2034.0	2070.1	2106.3	2143.2	2182.5	2218.0	2255.4	2293.2
<b>Total by Delivered Fuel</b>													
Petroleum 3/	2358.2	2380.5	2359.5	2398.6	2461.6	2505.6	2542.7	2578.9	2611.2	2649.7	2684.7	2722.8	2761.9
Natural Gas	899.9	904.4	923.1	937.2	950.1	964.0	977.3	987.4	1000.8	1017.7	1026.7	1033.3	1037.5
Coal	207.1	195.4	206.3	204.9	204.1	202.4	201.0	199.3	198.3	197.3	196.1	194.8	193.2
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	2226.6	2249.0	2256.1	2242.2	2295.8	2353.1	2406.4	2440.9	2467.5	2503.1	2541.5	2575.8	2606.2
Total	5691.7	5729.3	5744.9	5783.0	5911.7	6025.0	6127.3	6206.6	6277.8	6367.8	6449.1	6526.8	6598.8
<b>Electric Power Sector 6/</b>													
Petroleum	99.6	72.2	78.0	40.6	49.4	46.9	49.5	52.9	49.7	47.4	52.5	59.0	59.0
Natural Gas	289.1	299.1	267.2	299.8	295.8	303.3	308.4	323.4	324.2	336.9	342.6	355.4	365.5
Coal	1838.0	1877.8	1910.9	1901.8	1950.6	2002.9	2048.4	2064.6	2093.6	2118.8	2146.5	2161.4	2181.7
Total	2226.6	2249.0	2256.1	2242.2	2295.8	2353.1	2406.4	2440.9	2467.5	2503.1	2541.5	2575.8	2606.2
<b>Total by Primary Fuel 7/</b>													
Petroleum 3/	2457.7	2452.7	2437.5	2439.2	2511.1	2552.5	2592.1	2631.8	2660.9	2697.1	2737.2	2781.8	2820.9
Natural Gas	1189.0	1203.4	1190.3	1237.0	1245.9	1267.3	1285.7	1310.8	1325.0	1354.6	1369.3	1388.7	1403.0
Coal	2045.0	2073.2	2117.2	2106.7	2154.7	2205.3	2249.4	2264.0	2291.9	2316.1	2342.5	2356.3	2374.9
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	5691.7	5729.3	5744.9	5783.0	5911.7	6025.0	6127.3	6206.6	6277.8	6367.8	6449.1	6526.8	6598.8
<b>Carbon Dioxide Emissions (tons per person)</b>	19.9	19.8	19.7	19.7	20.0	20.3	20.5	20.7	20.8	20.9	21.1	21.2	21.3

**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
<b>Residential</b>													
Petroleum	109.1	108.8	108.7	107.9	107.4	106.9	106.7	105.9	105.3	104.6	104.2	103.2	0.0%
Natural Gas	302.9	303.8	305.9	306.7	308.4	309.6	311.9	313.0	314.6	315.6	316.9	316.3	0.7%
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	939.8	950.1	964.3	971.5	980.7	993.9	1008.2	1017.7	1028.3	1040.6	1055.8	1062.2	1.2%
Total	1353.0	1363.9	1380.0	1387.2	1397.6	1411.4	1427.8	1437.6	1449.3	1461.9	1477.9	1482.8	1.0%
<b>Commercial</b>													
Petroleum	67.7	68.1	68.5	68.8	69.1	69.4	69.8	70.1	70.3	70.6	70.8	71.0	1.3%
Natural Gas	193.3	194.3	195.6	197.3	199.0	200.5	202.2	204.3	206.2	207.5	208.7	210.0	0.9%
Coal	9.2	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	1007.0	1024.4	1043.2	1060.5	1078.0	1100.1	1120.3	1140.8	1157.9	1177.3	1198.1	1217.1	2.0%
Total	1277.2	1296.1	1316.5	1335.8	1355.3	1379.2	1401.4	1424.4	1443.5	1464.6	1486.7	1507.2	1.8%
<b>Industrial 1/</b>													
Petroleum	350.9	353.6	355.8	358.0	361.4	364.4	366.9	369.9	371.6	374.0	376.7	380.0	-0.4%
Natural Gas 2/	507.3	507.8	511.6	518.2	525.5	528.6	533.7	539.1	543.9	547.2	551.1	554.9	1.1%
Coal	181.7	180.1	178.9	178.2	177.7	176.4	175.6	174.7	174.0	173.2	172.5	171.9	-0.3%
Electricity	675.1	680.7	690.6	699.7	709.1	715.8	721.5	729.3	735.7	744.1	752.2	760.4	0.8%
Total	1715.0	1722.3	1737.0	1754.0	1773.8	1785.3	1797.7	1813.0	1825.3	1838.4	1852.4	1867.2	0.5%
<b>Transportation</b>													
Petroleum 3/	2269.3	2298.7	2330.0	2361.4	2391.6	2419.3	2445.6	2474.4	2504.7	2537.0	2572.6	2611.2	1.6%
Natural Gas 4/	40.3	40.4	40.4	40.7	41.7	42.1	44.1	45.8	46.7	47.0	47.3	47.7	1.3%
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electricity	17.7	18.0	18.3	18.6	19.0	19.4	19.8	20.1	20.5	20.9	21.4	21.8	1.9%
Total	2327.2	2357.1	2388.8	2420.8	2452.2	2480.8	2509.5	2540.4	2572.0	2604.9	2641.4	2680.7	1.6%
<b>Total by Delivered Fuel</b>													
Petroleum 3/	2797.0	2829.2	2863.0	2896.2	2929.6	2960.1	2989.0	3020.3	3052.0	3086.1	3124.3	3165.4	1.2%
Natural Gas	1043.8	1046.4	1053.5	1062.9	1074.6	1080.7	1091.9	1102.2	1111.4	1117.3	1124.0	1128.9	1.0%
Coal	192.0	190.5	189.3	188.5	188.0	186.7	185.9	185.0	184.2	183.5	182.7	182.1	-0.3%
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Electricity	2639.6	2673.3	2716.5	2750.2	2786.8	2829.1	2869.7	2907.9	2942.4	2982.9	3027.4	3061.5	1.4%
Total	6672.4	6739.4	6822.3	6897.8	6979.0	7056.7	7136.5	7215.4	7290.1	7369.8	7458.4	7537.9	1.2%
<b>Electric Power Sector 6/</b>													
Petroleum	64.6	68.4	70.6	67.7	67.1	70.3	66.8	62.7	62.5	63.7	66.8	67.4	-0.3%
Natural Gas	372.9	375.1	383.0	398.9	412.3	414.9	418.5	420.3	428.1	427.9	432.4	440.3	1.7%
Coal	2202.1	2229.8	2262.9	2283.6	2307.4	2344.0	2384.4	2424.9	2451.8	2491.3	2528.2	2553.8	1.4%
Total	2639.6	2673.3	2716.5	2750.2	2786.8	2829.1	2869.7	2907.9	2942.4	2982.9	3027.4	3061.5	1.4%
<b>Total by Primary Fuel 7/</b>													
Petroleum 3/	2861.6	2897.6	2933.6	2963.9	2996.7	3030.4	3055.8	3083.0	3114.5	3149.8	3191.1	3232.8	1.2%
Natural Gas	1416.7	1421.5	1436.6	1461.8	1486.9	1495.6	1510.4	1522.5	1539.5	1545.2	1556.4	1569.2	1.2%
Coal	2394.1	2420.3	2452.1	2472.2	2495.4	2530.7	2570.3	2609.9	2636.0	2674.8	2710.9	2735.9	1.2%
Other 5/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	6672.4	6739.4	6822.3	6897.8	6979.0	7056.7	7136.5	7215.4	7290.1	7369.8	7458.4	7537.9	1.2%
<b>Carbon Dioxide Emissions (tons per person)</b>													
	21.4	21.5	21.7	21.8	21.9	22.0	22.2	22.3	22.4	22.5	22.6	22.7	0.6%

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

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

2/ Includes lease and plant fuel.

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

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

5/ Includes methanol and liquid hydrogen.

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

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

N/A = Not applicable.

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

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 LM2004.D101703A.



**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	9840	10173	10504	10831	11148	11443	11727	12004	12290	12611
Real Potential Gross Domestic Product	9433	9726	10008	10235	10522	10821	11128	11424	11714	12001	12298	12578	12868
Real Disposable Personal Income	6748	7032	7244	7444	7616	7804	7982	8177	8387	8619	8821	9066	9346
Components of Real Gross Domestic Product													
Real Consumption	6377	6576	6754	6900	7124	7322	7525	7746	7959	8162	8360	8571	8805
Real Investment	1575	1590	1637	1639	1739	1854	1969	2055	2129	2209	2298	2379	2483
Real Government Spending	1640	1713	1754	1748	1769	1794	1814	1837	1861	1879	1889	1904	1919
Real Exports	1076	1059	1062	1140	1258	1370	1470	1567	1658	1751	1851	1955	2064
Real Imports	1492	1547	1608	1643	1760	1872	1971	2074	2173	2278	2385	2502	2636
Energy Intensity (thousand Btu per 1996 dollar of GDP)													
Delivered Energy	7.69	7.55	7.43	7.39	7.29	7.17	7.04	6.93	6.83	6.76	6.68	6.60	6.50
Total Energy	10.53	10.36	10.16	10.11	9.97	9.81	9.66	9.50	9.34	9.24	9.14	9.03	8.90
Price Indices													
GDP Chain-Type Price Index (1996=1.000)	1.094	1.107	1.123	1.143	1.170	1.201	1.234	1.271	1.311	1.356	1.405	1.457	1.512
Consumer Price Index (1982-4=1.00)	1.77	1.80	1.84	1.87	1.91	1.96	2.01	2.07	2.13	2.21	2.29	2.38	2.47
Wholesale Price Index (1982=1.00)													
All Commodities	1.34	1.31	1.37	1.36	1.37	1.40	1.44	1.47	1.50	1.53	1.57	1.61	1.65
Fuel and Power	1.05	0.93	1.11	1.01	0.99	0.99	1.01	1.02	1.05	1.08	1.10	1.14	1.17
Interest Rates (percent, nominal)													
Federal Funds Rate	3.89	1.67	1.12	1.11	1.93	2.37	2.73	3.61	4.77	5.86	5.94	5.98	5.99
10-Year Treasury Note	5.02	4.61	4.15	4.93	5.33	5.37	5.50	5.92	6.46	6.95	6.84	6.87	6.90
AA Utility Bond Rate	7.57	7.19	6.57	6.85	7.03	6.86	6.86	7.20	7.81	8.41	8.31	8.43	8.52
Unemployment Rate (percent)	4.77	5.78	6.08	6.52	6.23	6.12	5.98	5.74	5.59	5.45	5.38	5.26	5.00
Housing Starts (millions)	1.79	1.88	1.85	1.62	1.64	1.68	1.75	1.77	1.76	1.74	1.75	1.70	1.68
Commercial Floorspace, Total (billion square feet)	70.2	72.1	74.1	76.0	77.4	78.6	79.6	80.7	81.7	82.8	83.9	85.0	86.0
Unit Sales of Light-Duty Vehicles (millions)	17.11	16.78	16.36	16.09	16.28	16.44	16.65	16.80	16.87	17.01	17.17	17.17	17.40
Value of Shipments (billion 1996 dollars)													
Total Industrial	5368	5285	5227	5284	5407	5514	5623	5698	5807	5927	6044	6156	6292
Non-Manufacturing	1309	1222	1184	1152	1196	1213	1230	1247	1273	1300	1317	1330	1358
Manufacturing	4059	4064	4043	4132	4210	4301	4393	4451	4534	4627	4726	4826	4934
Energy Intensive	1085	1120	1103	1121	1133	1143	1152	1158	1167	1181	1195	1210	1224
Non-Intensive	2974	2944	2940	3011	3077	3158	3240	3293	3367	3446	3531	3616	3709
Population and Employment (millions)													
Population, with Armed Forces Overseas	285.9	288.9	291.7	293.1	295.0	296.8	298.7	300.5	302.3	304.1	305.9	307.8	309.6
Population, aged 16 and over	221.5	224.3	226.9	228.5	230.5	232.6	234.7	236.6	238.5	240.3	241.9	243.5	245.1
Employment, Nonfarm	131.6	130.5	130.1	130.5	130.9	131.7	132.9	134.3	135.5	136.7	137.2	137.7	138.4
Employment, Manufacturing	17.7	16.7	16.1	15.7	15.5	15.5	15.6	15.4	15.3	15.3	15.3	15.4	15.4
Labor Force	143.9	145.1	146.6	147.1	148.7	150.6	152.3	153.9	155.5	156.8	158.0	158.6	159.3

**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	12926	13216	13521	13851	14179	14442	14722	14990	15290	15599	15913	16280	2.4%
Real Potential Gross Domestic Product	13172	13484	13787	14078	14409	14713	15028	15313	15626	15947	16277	16645	2.4%
Real Disposable Personal Income	9565	9794	10034	10268	10523	10785	11030	11279	11571	11885	12243	12643	2.6%
Components of Real Gross Domestic Product													
Real Consumption	9028	9234	9458	9690	9917	10121	10329	10543	10764	10995	11229	11483	2.5%
Real Investment	2591	2677	2769	2882	2994	3051	3125	3211	3320	3421	3505	3627	3.7%
Real Government Spending	1938	1959	1980	2002	2025	2046	2072	2085	2104	2126	2149	2172	1.0%
Real Exports	2175	2284	2401	2535	2684	2830	2969	3112	3266	3428	3595	3773	5.7%
Real Imports	2773	2900	3043	3204	3373	3539	3713	3954	4212	4486	4765	5058	5.3%
Energy Intensity (thousand Btu per 1996 dollar of GDP)													
Delivered Energy	6.41	6.33	6.25	6.17	6.10	6.04	5.98	5.93	5.87	5.81	5.75	5.68	-1.2%
Total Energy	8.77	8.66	8.56	8.44	8.34	8.27	8.19	8.12	8.04	7.95	7.87	7.76	-1.2%
Price Indices													
GDP Chain-Type Price Index (1996=1.000)	1.573	1.636	1.700	1.770	1.846	1.927	2.012	2.100	2.194	2.291	2.390	2.493	3.6%
Consumer Price Index (1982-4=1.00)	2.57	2.68	2.79	2.91	3.04	3.18	3.33	3.49	3.66	3.84	4.03	4.23	3.8%
Wholesale Price Index (1982=1.00)													
All Commodities	1.70	1.74	1.79	1.84	1.90	1.97	2.03	2.09	2.17	2.24	2.31	2.38	2.6%
Fuel and Power	1.22	1.26	1.30	1.34	1.39	1.46	1.51	1.56	1.63	1.71	1.78	1.85	3.0%
Interest Rates (percent, nominal)													
Federal Funds Rate	6.30	6.34	6.35	6.38	6.95	7.03	7.08	7.14	7.24	7.32	7.67	8.06	N/A
10-Year Treasury Note	7.06	6.98	7.03	7.10	7.51	7.63	7.79	7.96	8.17	8.29	8.66	9.02	N/A
AA Utility Bond Rate	8.78	8.79	8.86	8.91	9.30	9.40	9.53	9.76	9.96	10.07	10.43	10.69	N/A
Unemployment Rate (percent)	4.87	5.08	5.13	5.08	5.03	5.00	5.01	5.03	5.03	5.05	5.04	5.08	N/A
Housing Starts (millions)	1.66	1.62	1.62	1.62	1.61	1.59	1.57	1.56	1.54	1.53	1.50	1.49	-1.0%
Commercial Floorspace, Total (billion square feet)	87.0	87.9	88.8	89.7	90.7	91.6	92.5	93.4	94.2	95.0	95.9	96.9	1.3%
Unit Sales of Light-Duty Vehicles (millions)	17.49	17.50	17.73	18.07	18.42	18.50	18.41	18.11	17.97	17.97	18.02	18.08	0.3%
Value of Shipments (billion 1996 dollars)													
Total Industrial	6435	6564	6722	6897	7077	7178	7292	7414	7557	7693	7830	7987	1.8%
Non-Manufacturing	1380	1390	1403	1421	1455	1455	1462	1468	1488	1499	1501	1503	0.9%
Manufacturing	5055	5173	5319	5475	5622	5723	5830	5946	6069	6194	6329	6483	2.1%
Energy Intensive	1238	1250	1265	1281	1298	1309	1321	1335	1348	1362	1377	1393	1.0%
Non-Intensive	3817	3923	4054	4194	4324	4414	4508	4611	4721	4832	4952	5090	2.4%
Population and Employment (millions)													
Population, with Armed Forces Overseas	311.4	313.2	315.0	316.8	318.6	320.4	322.2	324.0	325.7	327.5	329.4	331.4	0.6%
Population, aged 16 and over	246.7	248.2	249.6	251.0	252.5	253.8	255.2	256.6	258.0	259.3	260.8	262.3	0.7%
Employment, Nonfarm	139.3	139.9	141.0	142.5	144.3	146.2	148.5	150.7	152.9	155.5	158.0	160.5	0.9%
Employment, Manufacturing	15.3	15.3	15.3	15.4	15.4	15.4	15.3	15.3	15.3	15.3	15.3	15.3	-0.4%
Labor Force	160.4	161.3	161.8	162.3	162.9	163.6	164.2	164.4	164.6	165.1	165.9	167.1	0.6%

**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 LM2004.D101703A.

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	27.25	23.79	23.15	23.24	23.34	23.44	23.57	23.64	23.77
Production (Conventional) 2/											
Industrialized Countries											
U.S. (50 states)	8.84	9.16	8.69	9.02	9.27	9.37	9.56	9.60	9.56	9.46	9.33
Canada	2.09	2.14	2.13	2.11	2.10	2.06	2.02	1.97	1.90	1.83	1.77
Mexico	3.62	3.61	3.67	3.72	3.78	3.86	3.95	4.03	4.11	4.20	4.26
Western Europe 3/	6.82	6.76	6.67	6.59	6.50	6.46	6.43	6.40	6.36	6.33	6.24
Japan	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08
Australia and New Zealand	0.79	0.75	0.79	0.83	0.86	0.88	0.90	0.92	0.94	0.95	0.94
Total Industrialized	22.24	22.51	22.03	22.35	22.59	22.73	22.94	23.00	22.95	22.85	22.62
Eurasia											
Former Soviet Union											
Russia	7.30	7.67	8.24	8.60	9.17	9.36	9.55	9.75	9.85	9.90	9.96
Caspian Area 4/	1.48	1.66	1.75	1.84	1.93	2.17	2.40	2.64	2.88	3.11	3.37
Eastern Europe 5/	0.24	0.23	0.25	0.28	0.30	0.31	0.31	0.32	0.33	0.33	0.34
Total Eurasia	9.02	9.56	10.25	10.72	11.40	11.83	12.27	12.71	13.06	13.35	13.67
Developing Countries	44.44	44.24	44.54	44.82	44.84	45.54	46.26	47.12	48.08	49.32	50.53
Total Production (Conventional)	75.70	76.30	76.82	77.89	78.83	80.09	81.46	82.83	84.09	85.52	86.82
Production (Nonconventional) 8/											
U.S. (50 states)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other North America	0.72	0.79	0.86	0.93	1.00	1.11	1.23	1.37	1.52	1.69	1.89
Western Europe	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Asia	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Middle East	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Africa	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20
South and Central America	0.49	0.54	0.58	0.63	0.68	0.71	0.75	0.78	0.82	0.85	0.94
Total Production (Nonconventional)	1.42	1.55	1.67	1.80	1.92	2.08	2.24	2.41	2.61	2.81	3.11
Total Production	77.12	77.85	78.50	79.69	80.75	82.17	83.70	85.25	86.70	88.33	89.93
Consumption 9/											
Industrialized Countries											
U.S. (50 states)	19.71	19.61	19.89	19.94	20.48	20.78	21.07	21.36	21.56	21.83	22.13
U.S. Territories	0.28	0.29	0.31	0.33	0.34	0.35	0.36	0.37	0.38	0.38	0.39
Canada	1.91	1.96	2.00	2.05	2.10	2.13	2.16	2.19	2.22	2.25	2.26
Mexico	1.94	2.01	2.09	2.16	2.24	2.32	2.41	2.49	2.58	2.66	2.77
Western Europe	13.98	14.02	14.05	14.08	14.12	14.17	14.23	14.28	14.34	14.39	14.46
Japan	5.42	5.45	5.48	5.51	5.55	5.60	5.65	5.70	5.76	5.82	5.88
Australia and New Zealand	1.01	1.04	1.08	1.11	1.15	1.17	1.20	1.23	1.25	1.28	1.31
Total Industrialized	44.25	44.39	44.90	45.19	45.97	46.53	47.08	47.62	48.08	48.61	49.20
Eurasia											

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
Former Soviet Union	3.90	4.05	4.21	4.36	4.52	4.64	4.76	4.88	4.99	5.11	5.15
Eastern Europe	1.41	1.44	1.48	1.51	1.55	1.59	1.62	1.66	1.70	1.74	1.79
Total Eurasia	5.30	5.49	5.68	5.87	6.07	6.23	6.38	6.54	6.70	6.85	6.93
Developing Countries											
China	4.97	5.11	5.24	5.37	5.50	5.70	5.90	6.10	6.30	6.50	6.75
India	2.13	2.16	2.20	2.23	2.27	2.38	2.48	2.59	2.70	2.81	2.96
South Korea	2.14	2.20	2.26	2.32	2.38	2.46	2.53	2.61	2.68	2.76	2.81
Other Asia	5.53	5.63	5.74	5.84	5.94	6.09	6.23	6.37	6.51	6.66	6.89
Middle East 7/	5.36	5.34	5.32	5.30	5.43	5.45	5.61	5.77	5.93	6.20	6.27
Africa	2.58	2.56	2.54	2.52	2.44	2.53	2.57	2.61	2.65	2.69	2.73
South and Central America	4.87	4.91	4.94	4.98	5.04	5.12	5.23	5.33	5.44	5.54	5.69
Total Developing Countries	27.59	27.91	28.23	28.56	29.00	29.71	30.55	31.38	32.22	33.17	34.09
Total Consumption	77.14	77.79	78.82	79.62	81.04	82.47	84.00	85.54	86.99	88.63	90.23

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/	23.84	23.93	24.03	24.12	24.25	24.41	24.54	24.67	24.77	24.86	24.97
Production (Conventional) 2/											
Industrialized Countries											
U.S. (50 states)	9.25	9.18	9.13	9.09	8.98	8.87	8.93	8.85	8.73	8.56	8.44
Canada	1.75	1.69	1.65	1.64	1.63	1.62	1.61	1.60	1.59	1.58	1.58
Mexico	4.32	4.39	4.45	4.52	4.53	4.54	4.56	4.57	4.58	4.62	4.67
Western Europe 3/	6.15	6.05	5.96	5.87	5.79	5.71	5.63	5.55	5.47	5.37	5.27
Japan	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06
Australia and New Zealand	0.93	0.92	0.91	0.90	0.90	0.89	0.89	0.88	0.88	0.87	0.87
Total Industrialized	22.48	22.32	22.19	22.09	21.90	21.71	21.68	21.52	21.32	21.07	20.89
Eurasia											
Former Soviet Union											
Russia	10.09	10.27	10.42	10.49	10.55	10.62	10.66	10.69	10.72	10.76	10.79
Caspian Area 4/	3.63	3.88	4.14	4.39	4.54	4.69	4.83	4.98	5.13	5.32	5.51
Eastern Europe 5/	0.35	0.36	0.37	0.37	0.38	0.39	0.39	0.40	0.41	0.42	0.43
Total Eurasia	14.07	14.51	14.92	15.26	15.47	15.69	15.89	16.07	16.26	16.49	16.73
Developing Countries	51.70	52.80	53.86	55.00	56.62	58.30	59.86	61.56	63.37	65.18	67.13
Total Production (Conventional)	88.24	89.62	90.96	92.35	93.99	95.70	97.42	99.15	100.94	102.75	104.74
Production (Nonconventional) 8/											
U.S. (50 states)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other North America	2.12	2.37	2.65	2.97	3.02	3.06	3.11	3.15	3.20	3.22	3.23
Western Europe	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Asia	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Middle East	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Africa	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.25	0.26	0.26
South and Central America	1.02	1.11	1.19	1.27	1.30	1.33	1.36	1.39	1.42	1.42	1.43
Total Production (Nonconventional)	3.43	3.77	4.14	4.55	4.63	4.71	4.80	4.88	4.97	5.00	5.03
Total Production	91.67	93.39	95.11	96.89	98.62	100.41	102.22	104.03	105.91	107.74	109.77
Consumption 9/											
Industrialized Countries											
U.S. (50 states)	22.46	22.76	23.06	23.32	23.59	23.83	24.10	24.35	24.54	24.75	25.00
U.S. Territories	0.39	0.40	0.40	0.41	0.41	0.42	0.43	0.43	0.43	0.44	0.45
Canada	2.28	2.30	2.32	2.34	2.35	2.36	2.37	2.39	2.40	2.42	2.44
Mexico	2.89	3.00	3.11	3.23	3.32	3.41	3.50	3.60	3.69	3.79	3.89
Western Europe	14.52	14.59	14.66	14.71	14.76	14.79	14.83	14.87	14.90	15.00	15.10
Japan	5.95	6.01	6.08	6.14	6.19	6.24	6.29	6.34	6.38	6.45	6.52
Australia and New Zealand	1.34	1.37	1.40	1.44	1.47	1.50	1.53	1.56	1.59	1.62	1.66
Total Industrialized	49.83	50.44	51.03	51.59	52.10	52.56	53.05	53.52	53.94	54.48	55.06
Eurasia											

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
Former Soviet Union	5.18	5.22	5.25	5.28	5.38	5.47	5.57	5.66	5.76	5.86	5.97
Eastern Europe	1.83	1.87	1.92	1.96	2.02	2.07	2.12	2.17	2.22	2.29	2.35
Total Eurasia	7.01	7.09	7.17	7.25	7.40	7.54	7.69	7.83	7.98	8.15	8.32
Developing Countries											
China	7.00	7.24	7.49	7.74	8.08	8.41	8.75	9.09	9.48	9.74	10.05
India	3.10	3.25	3.40	3.55	3.74	3.93	4.13	4.32	4.52	4.72	4.93
South Korea	2.86	2.91	2.96	3.01	3.05	3.08	3.11	3.15	3.18	3.22	3.26
Other Asia	7.13	7.36	7.60	7.84	8.07	8.29	8.52	8.74	8.97	9.22	9.47
Middle East 7/	6.44	6.61	6.78	7.00	7.12	7.30	7.47	7.65	7.89	8.03	8.23
Africa	2.77	2.81	2.85	2.92	2.95	3.00	3.06	3.11	3.18	3.22	3.28
South and Central America	5.84	5.98	6.13	6.30	6.43	6.59	6.74	6.90	7.06	7.25	7.45
Total Developing Countries	35.13	36.17	37.21	38.36	39.42	40.60	41.78	42.96	44.27	45.40	46.66
Total Consumption	91.97	93.69	95.41	97.19	98.92	100.71	102.52	104.32	106.20	108.04	110.05

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/	25.10	25.17	25.30	0.3%
<b>Production (Conventional) 2/</b>				
<b>Industrialized Countries</b>				
U.S. (50 states)	8.41	8.34	8.24	-0.5%
Canada	1.57	1.56	1.55	-1.4%
Mexico	4.71	4.75	4.79	1.2%
Western Europe 3/	5.17	5.06	4.96	-1.3%
Japan	0.06	0.06	0.06	-1.2%
Australia and New Zealand	0.86	0.86	0.85	0.5%
Total Industrialized	20.78	20.64	20.46	-0.4%
<b>Eurasia</b>				
<b>Former Soviet Union</b>				
Russia	10.82	10.85	10.87	1.5%
Caspian Area 4/	5.70	5.89	6.08	5.8%
Eastern Europe 5/	0.43	0.44	0.45	3.0%
Total Eurasia	16.95	17.18	17.39	2.6%
Developing Countries	69.02	70.93	73.18	2.2%
Total Production (Conventional)	106.75	108.75	111.03	1.6%
<b>Production (Nonconventional) 8/</b>				
U.S. (50 states)	0.00	0.00	0.00	N/A
Other North America	3.25	3.27	3.28	6.4%
Western Europe	0.04	0.04	0.04	0.8%
Asia	0.03	0.03	0.03	1.3%
Middle East	0.02	0.03	0.03	6.8%
Africa	0.27	0.28	0.28	2.6%
South and Central America	1.44	1.44	1.45	4.4%
Total Production (Nonconventional)	5.06	5.09	5.11	5.3%
Total Production	111.81	113.84	116.14	1.8%
<b>Consumption 9/</b>				
<b>Industrialized Countries</b>				
U.S. (50 states)	25.26	25.57	25.87	1.2%
U.S. Territories	0.46	0.47	0.48	2.2%
Canada	2.46	2.48	2.50	1.1%
Mexico	3.99	4.10	4.20	3.2%
Western Europe	15.20	15.31	15.41	0.4%
Japan	6.59	6.66	6.73	0.9%
Australia and New Zealand	1.69	1.73	1.76	2.3%
Total Industrialized	55.66	56.30	56.95	1.1%
<b>Eurasia</b>				



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

	2023	2024	2025	2002- 2025
Former Soviet Union	6.08	6.19	6.29	1.9%
Eastern Europe	2.42	2.49	2.55	2.5%
Total Eurasia	8.50	8.67	8.85	2.1%
Developing Countries				
China	10.35	10.67	11.03	3.4%
India	5.14	5.34	5.55	4.2%
South Korea	3.30	3.33	3.37	1.9%
Other Asia	9.72	9.97	10.24	2.6%
Middle East 7/	8.43	8.64	8.92	2.3%
Africa	3.34	3.40	3.52	1.4%
South and Central America	7.64	7.83	8.03	2.2%
Total Developing Countries	47.92	49.18	50.66	2.6%
Total Consumption	112.08	114.16	116.45	1.8%

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 LM2004.D101703A.