

**Table 1. Energy Consumption by Sector and Source (1 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
New England**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Energy Consumption																							
Residential																							
Distillate Fuel	0.28	0.29	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	-0.3%
Kerosene	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-2.5%
Liquefied Petroleum Gas	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.3%
Petroleum Subtotal	0.33	0.33	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	-0.5%
Natural Gas	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	1.1%
Coal	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4%
Renewable Energy 1/	0.03	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.2%
Electricity	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	1.6%
Delivered Energy	0.67	0.68	0.70	0.71	0.72	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74	0.75	0.75	0.75	0.5%
Electricity Related Losses	0.28	0.30	0.31	0.34	0.36	0.36	0.37	0.37	0.35	0.34	0.34	0.33	0.34	0.32	0.32	0.32	0.31	0.30	0.31	0.32	0.32	0.32	0.6%
Total	0.95	0.98	1.01	1.06	1.08	1.08	1.09	1.09	1.08	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.05	1.05	1.06	1.07	1.07	1.07	0.6%
Commercial																							
Distillate Fuel	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	-0.3%
Residual Fuel	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.5%
Kerosene	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3%
Liquefied Petroleum Gas	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.6%
Motor Gasoline 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.5%
Petroleum Subtotal	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	-0.1%
Natural Gas	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	1.2%
Coal	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4%
Renewable Energy 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Electricity	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	1.6%
Delivered Energy	0.45	0.45	0.47	0.48	0.49	0.50	0.51	0.51	0.52	0.52	0.53	0.53	0.54	0.54	0.54	0.55	0.55	0.55	0.55	0.55	0.56	0.56	1.1%
Electricity Related Losses	0.32	0.34	0.36	0.40	0.42	0.42	0.42	0.42	0.40	0.39	0.39	0.38	0.38	0.37	0.36	0.37	0.36	0.35	0.36	0.36	0.36	0.36	0.5%
Total	0.76	0.79	0.83	0.89	0.91	0.92	0.93	0.93	0.92	0.91	0.91	0.91	0.92	0.91	0.91	0.92	0.91	0.90	0.91	0.92	0.92	0.91	0.8%
Industrial 4/																							
Distillate Fuel	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.2%
Liquefied Petroleum Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.6%
Petrochemical Feedstocks	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.0%
Residual Fuel	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.3%
Motor Gasoline 2/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.9%
Other Petroleum 5/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.05	0.05	0.6%
Petroleum Subtotal	0.14	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	1.0%
Natural Gas 6/	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	1.0%
Metallurgical Coal	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam 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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Coal Subtotal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Renewable Energy 7/	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	1.5%
Electricity	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.9%
Delivered Energy	0.54	0.54	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.63	0.63	0.64	0.65	0.66	0.66	0.67	0.68	1.1%
Electricity Related Losses	0.18	0.19	0.19	0.21	0.22	0.21	0.21	0.21	0.20	0.19	0.19	0.18	0.18	0.18	0.17	0.18	0.17	0.17	0.17	0.17	0.18	0.18	-0.1%
Total	0.72	0.73	0.74	0.77	0.78	0.78	0.79	0.80	0.80	0.79	0.79	0.79	0.80	0.80	0.80	0.81	0.81	0.82	0.83	0.84	0.85	0.85	0.8%



**Table 1. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
New England**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	0.53	0.54	0.57	0.58	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.6%
Kerosene	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-1.8%
Jet Fuel 8/	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	2.0%
Liquefied Petroleum Gas	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-0.4%
Motor Gasoline 2/	0.78	0.78	0.80	0.82	0.83	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.93	0.94	0.95	0.96	0.97	0.97	0.98	0.98	1.1%
Petrochemical Feedstocks	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	1.0%
Residual Fuel	0.30	0.19	0.18	0.17	0.19	0.16	0.14	0.12	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	-4.9%
Other Petroleum 12/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.6%
Petroleum Subtotal	1.80	1.71	1.76	1.78	1.81	1.80	1.80	1.79	1.79	1.79	1.80	1.80	1.81	1.83	1.84	1.85	1.87	1.88	1.89	1.89	1.90	1.92	0.3%
Natural Gas	0.68	0.83	0.88	0.92	0.93	0.99	1.00	1.05	1.08	1.12	1.14	1.17	1.19	1.23	1.28	1.31	1.35	1.43	1.45	1.47	1.48	1.49	3.8%
Metallurgical Coal	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.18	0.17	0.16	0.16	0.16	0.17	0.16	0.17	0.18	0.17	0.18	0.18	0.18	0.19	1.1%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Coal Subtotal	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.18	0.17	0.16	0.16	0.16	0.17	0.16	0.17	0.18	0.17	0.18	0.18	0.18	0.19	1.1%
Nuclear Power	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.29	0.25	0.25	0.18	0.10	0.10	0.10	0.10	0.10	-5.5%
Renewable Energy 17/	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.38	0.39	0.39	0.39	0.40	0.40	0.40	1.0%
Methanol (M85) 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.2%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Imports 16/	0.18	0.19	0.20	0.28	0.31	0.28	0.30	0.29	0.26	0.22	0.20	0.17	0.17	0.14	0.13	0.12	0.12	0.13	0.13	0.13	0.13	0.12	-2.0%
<b>Total</b>	<b>3.46</b>	<b>3.54</b>	<b>3.65</b>	<b>3.81</b>	<b>3.89</b>	<b>3.92</b>	<b>3.97</b>	<b>3.99</b>	<b>3.99</b>	<b>3.99</b>	<b>4.00</b>	<b>4.01</b>	<b>4.04</b>	<b>4.03</b>	<b>4.04</b>	<b>4.09</b>	<b>4.09</b>	<b>4.09</b>	<b>4.14</b>	<b>4.17</b>	<b>4.20</b>	<b>4.21</b>	<b>0.9%</b>
<b>Energy Use and Related Statistics</b>																							
Delivered Energy Use	2.68	2.71	2.78	2.84	2.88	2.92	2.95	2.99	3.02	3.06	3.08	3.10	3.13	3.15	3.18	3.21	3.23	3.26	3.28	3.30	3.33	3.35	1.1%
Total Energy Use	3.46	3.54	3.65	3.81	3.89	3.92	3.97	3.99	3.99	3.99	4.00	4.01	4.04	4.03	4.04	4.09	4.09	4.09	4.14	4.17	4.20	4.21	0.9%
Population (millions)	13.51	13.59	13.66	13.74	13.82	13.89	13.95	14.02	14.08	14.14	14.19	14.25	14.30	14.36	14.41	14.47	14.52	14.57	14.62	14.67	14.71	14.76	0.4%
U.S. GDP (billion 1996 dollars)	8876	9338	9696	10036	10345	10642	10960	11273	11605	11951	12301	12667	13034	13425	13821	14232	14635	15025	15411	15775	16141	16515	3.0%
U.S. Carbon Dioxide Emissions (Mm	1510.8	1535.4	1576.5	1611.4	1642.8	1667.6	1690.2	1713.0	1742.0	1764.6	1783.9	1809.1	1829.8	1851.4	1876.5	1900.8	1928.1	1950.6	1975.6	1995.9	2016.6	2040.6	1.4%

1/ Includes wood used for residential heating. See Table A18 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 electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. 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 cogeneration, which produces electricity and other useful thermal energy.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes only kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Mmtce = Million metric tons carbon equivalent

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1999 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 electric utility fuel consumption: EIA, Electric Power Annual, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1999 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf> (October 12, 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 2. Energy Consumption by Sector and Source (1 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
Middle Atlantic**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Energy Consumption																							
Residential																							
Distillate Fuel	0.35	0.35	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	-0.8%
Kerosene	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	-3.0%
Liquefied Petroleum Gas	0.04	0.04	0.04	0.04	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	0.02	0.02	0.02	0.02	0.02	-2.1%
Petroleum Subtotal	0.41	0.41	0.43	0.43	0.42	0.41	0.40	0.40	0.39	0.38	0.37	0.36	0.36	0.36	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	-1.0%
Natural Gas	0.83	0.85	0.87	0.88	0.89	0.90	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.93	0.93	0.93	0.94	0.94	0.95	0.6%
Coal	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.5%
Renewable Energy 1/	0.10	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-0.1%
Electricity	0.38	0.39	0.39	0.40	0.41	0.42	0.43	0.43	0.44	0.45	0.45	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.49	0.49	0.49	0.50	1.3%
Delivered Energy	1.74	1.76	1.81	1.83	1.84	1.85	1.85	1.85	1.85	1.85	1.85	1.84	1.85	1.86	1.85	1.86	1.86	1.87	1.87	1.87	1.88	1.89	0.4%
Electricity Related Losses	0.76	0.78	0.77	0.79	0.80	0.82	0.84	0.83	0.85	0.86	0.86	0.86	0.87	0.90	0.91	0.89	0.90	0.89	0.87	0.88	0.89	0.88	0.7%
Total	2.50	2.54	2.58	2.62	2.64	2.67	2.69	2.68	2.70	2.71	2.71	2.71	2.72	2.75	2.76	2.75	2.76	2.76	2.74	2.75	2.76	2.77	0.5%
Commercial																							
Distillate Fuel	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	-0.2%
Residual Fuel	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.3%
Kerosene	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.1%
Liquefied Petroleum Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.4%
Motor Gasoline 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.5%
Petroleum Subtotal	0.20	0.19	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.0%
Natural Gas	0.62	0.64	0.66	0.68	0.70	0.71	0.71	0.71	0.72	0.72	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74	0.75	0.75	0.75	0.74	0.9%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.2%
Renewable Energy 3/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Electricity	0.47	0.48	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.63	1.4%
Delivered Energy	1.32	1.35	1.39	1.43	1.46	1.47	1.49	1.50	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.59	1.60	1.60	1.60	1.60	1.60	0.9%
Electricity Related Losses	0.94	0.97	0.98	1.00	1.01	1.03	1.06	1.06	1.08	1.10	1.10	1.11	1.13	1.16	1.17	1.16	1.16	1.15	1.12	1.13	1.13	1.12	0.8%
Total	2.26	2.32	2.37	2.43	2.46	2.50	2.55	2.56	2.60	2.63	2.65	2.66	2.69	2.73	2.75	2.75	2.75	2.74	2.72	2.73	2.73	2.71	0.9%
Industrial 4/																							
Distillate Fuel	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1.1%
Liquefied Petroleum Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	4.7%
Petrochemical Feedstocks	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	1.0%
Residual Fuel	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	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	1.0%
Motor Gasoline 2/	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.9%
Other Petroleum 5/	0.41	0.42	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.8%
Petroleum Subtotal	0.66	0.66	0.71	0.72	0.73	0.73	0.74	0.75	0.76	0.76	0.77	0.77	0.77	0.77	0.77	0.79	0.80	0.80	0.81	0.82	0.82	0.83	1.1%
Natural Gas 6/	0.66	0.70	0.73	0.74	0.76	0.76	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.80	0.80	0.79	0.80	0.81	0.81	0.80	0.80	0.81	0.9%
Metallurgical Coal	0.29	0.30	0.30	0.29	0.28	0.27	0.26	0.26	0.25	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19	-1.9%
Steam Coal	0.23	0.24	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.0%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.01	0.02	0.02	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	0.03	0.03	5.9%
Coal Subtotal	0.53	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.47	0.46	0.46	-0.7%
Renewable Energy 7/	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.27	1.5%
Electricity	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.37	1.0%
Delivered Energy	2.36	2.41	2.49	2.52	2.54	2.55	2.56	2.58	2.59	2.60	2.61	2.62	2.63	2.64	2.65	2.66	2.68	2.69	2.70	2.71	2.72	2.73	0.7%
Electricity Related Losses	0.60	0.60	0.61	0.61	0.60	0.61	0.62	0.61	0.62	0.62	0.62	0.62	0.63	0.65	0.65	0.65	0.65	0.65	0.64	0.65	0.65	0.65	0.4%
Total	2.95	3.01	3.09	3.13	3.15	3.16	3.18	3.19	3.21	3.22	3.23	3.25	3.26	3.29	3.30	3.30	3.33	3.34	3.34	3.35	3.37	3.38	0.6%



**Table 2. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
Middle Atlantic**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	0.98	1.00	1.05	1.07	1.08	1.08	1.08	1.09	1.10	1.10	1.10	1.10	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.13	1.13	1.13	0.7%
Kerosene	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.5%
Jet Fuel 8/	0.39	0.40	0.40	0.40	0.41	0.42	0.43	0.44	0.44	0.45	0.46	0.47	0.48	0.49	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.59	2.0%
Liquefied Petroleum Gas	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	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	1.5%
Motor Gasoline 2/	1.85	1.85	1.89	1.93	1.94	1.96	1.98	2.00	2.02	2.03	2.05	2.06	2.07	2.08	2.09	2.10	2.12	2.13	2.14	2.14	2.15	2.16	0.7%
Petrochemical Feedstocks	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	1.0%
Residual Fuel	0.39	0.33	0.32	0.28	0.27	0.27	0.24	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	-2.6%
Other Petroleum 12/	0.43	0.43	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.50	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.8%
Petroleum Subtotal	4.28	4.27	4.40	4.41	4.44	4.47	4.48	4.51	4.55	4.57	4.59	4.62	4.64	4.66	4.69	4.73	4.77	4.79	4.82	4.85	4.87	4.90	0.6%
Natural Gas	2.35	2.49	2.55	2.68	2.78	2.84	2.95	3.00	3.07	3.14	3.19	3.33	3.38	3.46	3.51	3.57	3.69	3.79	3.84	3.86	3.89	3.92	2.5%
Metallurgical Coal	0.29	0.30	0.30	0.29	0.28	0.27	0.26	0.26	0.25	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19	-1.9%
Steam Coal	1.62	1.69	1.74	1.76	1.74	1.77	1.76	1.73	1.75	1.75	1.73	1.74	1.74	1.74	1.75	1.76	1.77	1.77	1.79	1.80	1.81	1.82	0.6%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.01	0.02	0.02	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	0.03	0.03	5.9%
Coal Subtotal	1.92	2.00	2.05	2.06	2.04	2.06	2.04	2.01	2.01	2.01	1.99	1.99	1.99	1.99	2.00	2.00	2.01	2.00	2.02	2.03	2.03	2.05	0.3%
Nuclear Power	1.43	1.46	1.44	1.44	1.44	1.44	1.45	1.45	1.45	1.45	1.44	1.31	1.32	1.32	1.31	1.22	1.11	1.03	0.91	0.91	0.91	0.86	-2.4%
Renewable Energy 17/	0.60	0.59	0.61	0.62	0.63	0.65	0.67	0.68	0.69	0.70	0.71	0.73	0.75	0.78	0.79	0.80	0.80	0.81	0.81	0.82	0.82	0.82	1.5%
Methanol (M85) 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.7%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Imports 16/	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-2.0%
<b>Total</b>	<b>10.60</b>	<b>10.83</b>	<b>11.06</b>	<b>11.24</b>	<b>11.36</b>	<b>11.49</b>	<b>11.61</b>	<b>11.68</b>	<b>11.79</b>	<b>11.89</b>	<b>11.95</b>	<b>12.01</b>	<b>12.10</b>	<b>12.23</b>	<b>12.31</b>	<b>12.33</b>	<b>12.40</b>	<b>12.44</b>	<b>12.42</b>	<b>12.48</b>	<b>12.54</b>	<b>12.56</b>	<b>0.8%</b>
<b>Energy Use and Related Statistics</b>																							
Delivered Energy Use	8.29	8.46	8.70	8.84	8.93	9.01	9.08	9.15	9.22	9.26	9.33	9.39	9.43	9.49	9.54	9.59	9.65	9.71	9.75	9.79	9.83	9.87	0.8%
Total Energy Use	10.60	10.83	11.06	11.24	11.36	11.49	11.61	11.68	11.79	11.89	11.95	12.01	12.10	12.23	12.31	12.33	12.40	12.44	12.42	12.48	12.54	12.56	0.8%
Population (millions)	38.40	38.47	38.55	38.64	38.72	38.80	38.89	38.97	39.05	39.12	39.19	39.25	39.32	39.39	39.45	39.51	39.57	39.62	39.68	39.72	39.77	39.82	0.2%
U.S. GDP (billion 1996 dollars)	8876	9338	9696	10036	10345	10642	10960	11273	11605	11951	12301	12667	13034	13425	13821	14232	14635	15025	15411	15775	16141	16515	3.0%
U.S. Carbon Dioxide Emissions (mm	1510.8	1535.4	1576.5	1611.4	1642.8	1667.6	1690.2	1713.0	1742.0	1764.6	1783.9	1809.1	1829.8	1851.4	1876.5	1900.8	1928.1	1950.6	1975.6	1995.9	2016.6	2040.6	1.4%

1/ Includes wood used for residential heating. See Table A18 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 electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. 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 cogeneration, which produces electricity and other useful thermal energy.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes only kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Mmtce = Million metric tons carbon equivalent

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1999 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 electric utility fuel consumption: EIA, Electric Power Annual, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1999 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteo/sep00.pdf> (October 12, 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 3. Energy Consumption by Sector and Source (1 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
East North Central**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Energy Consumption																							
Residential																							
Distillate Fuel	0.07	0.07	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-1.2%
Kerosene	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-1.3%
Liquefied Petroleum Gas	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-0.7%
Petroleum Subtotal	0.20	0.20	0.21	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	-0.9%
Natural Gas	1.50	1.53	1.58	1.60	1.62	1.63	1.62	1.62	1.61	1.62	1.61	1.61	1.61	1.63	1.63	1.64	1.65	1.66	1.67	1.67	1.68	1.70	0.6%
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.3%
Renewable Energy 1/	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.6%
Electricity	0.56	0.57	0.59	0.60	0.62	0.63	0.65	0.66	0.67	0.69	0.70	0.71	0.72	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	1.8%
Delivered Energy	2.31	2.35	2.43	2.47	2.50	2.52	2.52	2.52	2.53	2.54	2.54	2.55	2.57	2.59	2.60	2.62	2.64	2.66	2.67	2.69	2.71	2.74	0.8%
Electricity Related Losses	1.30	1.32	1.37	1.43	1.45	1.50	1.51	1.52	1.53	1.55	1.56	1.58	1.58	1.60	1.60	1.61	1.63	1.66	1.70	1.69	1.71	1.74	1.4%
Total	3.60	3.67	3.80	3.90	3.95	4.02	4.04	4.04	4.06	4.09	4.11	4.13	4.15	4.19	4.20	4.24	4.27	4.32	4.37	4.38	4.42	4.48	1.0%
Commercial																							
Distillate Fuel	0.04	0.04	0.04	0.04	0.04	0.04	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	0.05	0.05	0.05	0.7%
Residual Fuel	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8%
Kerosene	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6%
Liquefied Petroleum Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.8%
Motor Gasoline 2/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.5%
Petroleum Subtotal	0.07	0.07	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	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.6%
Natural Gas	0.74	0.76	0.78	0.81	0.83	0.85	0.85	0.86	0.87	0.87	0.88	0.88	0.89	0.90	0.90	0.91	0.91	0.91	0.92	0.92	0.92	0.92	1.1%
Coal	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.4%
Renewable Energy 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Electricity	0.56	0.58	0.60	0.61	0.63	0.64	0.65	0.67	0.68	0.70	0.71	0.72	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.80	0.81	0.82	1.8%
Delivered Energy	1.40	1.44	1.48	1.53	1.57	1.59	1.62	1.64	1.66	1.68	1.70	1.72	1.74	1.75	1.77	1.79	1.80	1.81	1.83	1.83	1.84	1.85	1.3%
Electricity Related Losses	1.30	1.33	1.40	1.46	1.48	1.50	1.52	1.54	1.56	1.58	1.59	1.60	1.61	1.62	1.62	1.64	1.66	1.68	1.71	1.70	1.72	1.73	1.4%
Total	2.70	2.77	2.88	2.99	3.04	3.10	3.14	3.18	3.22	3.25	3.29	3.32	3.34	3.37	3.39	3.43	3.46	3.49	3.54	3.54	3.56	3.58	1.4%
Industrial 4/																							
Distillate Fuel	0.16	0.15	0.15	0.15	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	1.4%
Liquefied Petroleum Gas	0.14	0.15	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.7%
Petrochemical Feedstocks	0.17	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	1.2%
Residual Fuel	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.6%
Motor Gasoline 2/	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	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.3%
Other Petroleum 5/	0.76	0.75	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.85	0.86	0.88	0.89	0.90	0.91	0.92	0.93	0.94	1.0%
Petroleum Subtotal	1.27	1.25	1.26	1.28	1.29	1.32	1.34	1.35	1.38	1.39	1.41	1.42	1.43	1.44	1.46	1.48	1.50	1.52	1.54	1.55	1.57	1.59	1.1%
Natural Gas 6/	1.31	1.35	1.44	1.47	1.50	1.50	1.51	1.54	1.56	1.57	1.59	1.61	1.62	1.63	1.65	1.67	1.69	1.71	1.73	1.75	1.76	1.79	1.5%
Metallurgical Coal	0.28	0.30	0.29	0.28	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19	0.19	-1.9%
Steam Coal	0.37	0.38	0.39	0.38	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.41	0.4%
Net Coal Coke Imports	0.02	0.02	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	6.9%
Coal Subtotal	0.68	0.71	0.71	0.70	0.70	0.70	0.70	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.68	0.68	0.68	0.68	0.69	0.0%
Renewable Energy 7/	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.53	0.54	0.55	0.56	0.57	0.58	0.60	2.4%
Electricity	0.77	0.78	0.78	0.80	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.93	0.94	0.95	0.96	0.98	0.99	1.2%
Delivered Energy	4.40	4.47	4.58	4.65	4.70	4.74	4.80	4.86	4.92	4.97	5.02	5.07	5.11	5.15	5.22	5.28	5.35	5.41	5.46	5.52	5.59	5.66	1.2%
Electricity Related Losses	1.78	1.81	1.83	1.89	1.90	1.90	1.90	1.92	1.92	1.93	1.93	1.93	1.93	1.93	1.93	1.95	1.98	2.00	2.05	2.04	2.08	2.11	0.8%
Total	6.18	6.28	6.41	6.54	6.60	6.64	6.70	6.78	6.85	6.90	6.94	7.00	7.03	7.08	7.14	7.23	7.32	7.41	7.52	7.56	7.66	7.77	1.1%





**Table 3. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
East North Central**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	1.11	1.15	1.19	1.21	1.24	1.26	1.28	1.31	1.33	1.35	1.36	1.37	1.39	1.40	1.41	1.42	1.44	1.46	1.47	1.48	1.49	1.51	1.5%
Kerosene	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.7%
Jet Fuel 8/	0.28	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.33	0.33	0.34	0.35	0.36	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.42	0.43	2.1%
Liquefied Petroleum Gas	0.29	0.29	0.29	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.3%
Motor Gasoline 2/	2.59	2.59	2.66	2.72	2.76	2.80	2.84	2.88	2.91	2.94	2.97	3.00	3.02	3.04	3.07	3.09	3.12	3.14	3.16	3.18	3.20	3.21	1.0%
Petrochemical Feedstocks	0.17	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	1.2%
Residual Fuel	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-2.6%
Other Petroleum 12/	0.79	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.88	0.89	0.90	0.92	0.93	0.94	0.95	0.96	0.97	0.98	1.0%
Petroleum Subtotal	5.28	5.32	5.44	5.54	5.61	5.69	5.77	5.85	5.93	6.00	6.06	6.12	6.17	6.21	6.28	6.35	6.42	6.48	6.53	6.58	6.64	6.69	1.1%
Natural Gas	3.89	3.94	4.13	4.29	4.40	4.51	4.59	4.71	4.83	4.97	5.08	5.18	5.26	5.37	5.46	5.54	5.67	5.77	5.89	6.06	6.14	6.23	2.3%
Metallurgical Coal	0.28	0.30	0.29	0.28	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19	0.19	-1.9%
Steam Coal	4.81	4.93	5.10	5.21	5.24	5.29	5.29	5.28	5.32	5.33	5.31	5.39	5.44	5.47	5.55	5.60	5.67	5.70	5.80	5.80	5.87	5.94	1.0%
Net Coal Coke Imports	0.02	0.02	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	6.9%
Coal Subtotal	5.11	5.26	5.42	5.53	5.55	5.60	5.60	5.58	5.62	5.62	5.60	5.68	5.73	5.76	5.84	5.89	5.96	5.99	6.08	6.08	6.15	6.22	0.9%
Nuclear Power	1.41	1.45	1.42	1.42	1.43	1.43	1.43	1.40	1.38	1.38	1.32	1.24	1.23	1.13	1.13	1.06	1.07	1.03	0.90	0.90	0.90	0.90	-2.1%
Renewable Energy 17/	0.50	0.52	0.54	0.55	0.56	0.58	0.60	0.61	0.62	0.63	0.64	0.66	0.67	0.67	0.69	0.70	0.72	0.73	0.74	0.75	0.76	0.77	2.1%
Methanol (M85) 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Imports 16/	0.10	0.11	0.12	0.16	0.18	0.16	0.17	0.16	0.15	0.13	0.12	0.09	0.10	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.07	-2.0%
<b>Total</b>	<b>16.30</b>	<b>16.59</b>	<b>17.06</b>	<b>17.50</b>	<b>17.73</b>	<b>17.96</b>	<b>18.15</b>	<b>18.36</b>	<b>18.55</b>	<b>18.73</b>	<b>18.88</b>	<b>19.05</b>	<b>19.17</b>	<b>19.33</b>	<b>19.47</b>	<b>19.68</b>	<b>19.90</b>	<b>20.11</b>	<b>20.35</b>	<b>20.45</b>	<b>20.65</b>	<b>20.88</b>	<b>1.2%</b>
<b>Energy Use and Related Statistics</b>																							
Delivered Energy Use	11.90	12.11	12.44	12.70	12.88	13.03	13.18	13.34	13.50	13.64	13.76	13.89	14.01	14.14	14.28	14.43	14.58	14.72	14.84	14.96	15.09	15.24	1.2%
Total Energy Use	16.30	16.59	17.06	17.50	17.73	17.96	18.15	18.36	18.55	18.73	18.88	19.05	19.17	19.33	19.47	19.68	19.90	20.11	20.35	20.45	20.65	20.88	1.2%
Population (millions)	44.42	44.63	44.85	45.08	45.30	45.51	45.72	45.93	46.13	46.31	46.47	46.62	46.77	46.92	47.06	47.19	47.32	47.44	47.55	47.66	47.76	47.86	0.4%
U.S. GDP (billion 1996 dollars)	8876	9338	9696	10036	10345	10642	10960	11273	11605	11951	12301	12667	13034	13425	13821	14232	14635	15025	15411	15775	16141	16515	3.0%
U.S. Carbon Dioxide Emissions (Mm	1510.8	1535.4	1576.5	1611.4	1642.8	1667.6	1690.2	1713.0	1742.0	1764.6	1783.9	1809.1	1829.8	1851.4	1876.5	1900.8	1928.1	1950.6	1975.6	1995.9	2016.6	2040.6	1.4%

1/ Includes wood used for residential heating. See Table A18 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 electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. 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 cogeneration, which produces electricity and other useful thermal energy.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes only kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ Includes hydroelectric, geothermal, wood and wood 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.

Mmtce = Million metric tons carbon equivalent

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1999 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 electric utility fuel consumption: EIA, Electric Power Annual, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1999 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteo/sep00.pdf> (October 12, 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.











**Table 5. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
South Atlantic**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Total Energy Consumption																							
Distillate Fuel	1.22	1.26	1.32	1.36	1.39	1.42	1.45	1.49	1.53	1.56	1.59	1.62	1.65	1.67	1.70	1.74	1.77	1.80	1.83	1.86	1.89	1.92	2.2%
Kerosene	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-0.7%
Jet Fuel 8/	0.40	0.41	0.42	0.42	0.43	0.45	0.46	0.47	0.49	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	2.8%
Liquefied Petroleum Gas	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.3%
Motor Gasoline 2/	3.16	3.16	3.27	3.36	3.43	3.50	3.57	3.65	3.72	3.79	3.86	3.93	3.99	4.06	4.13	4.20	4.28	4.35	4.42	4.48	4.55	4.61	1.8%
Petrochemical Feedstocks	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	1.4%
Residual Fuel	0.52	0.46	0.43	0.38	0.35	0.33	0.30	0.29	0.27	0.27	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.27	-3.1%
Other Petroleum 12/	0.41	0.41	0.40	0.41	0.41	0.42	0.42	0.43	0.44	0.45	0.45	0.46	0.46	0.47	0.47	0.48	0.49	0.50	0.51	0.52	0.52	0.53	1.2%
Petroleum Subtotal	6.09	6.09	6.23	6.32	6.41	6.51	6.61	6.74	6.85	6.97	7.08	7.20	7.31	7.43	7.56	7.70	7.84	7.97	8.11	8.23	8.36	8.49	1.6%
Natural Gas	1.84	1.99	2.07	2.19	2.27	2.42	2.44	2.50	2.56	2.61	2.68	2.77	2.86	2.95	3.05	3.13	3.23	3.31	3.40	3.47	3.53	3.59	3.2%
Metallurgical Coal	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.9%
Steam Coal	4.31	4.46	4.59	4.69	4.87	4.87	4.95	5.03	5.09	5.12	5.10	5.11	5.13	5.16	5.18	5.21	5.25	5.24	5.29	5.33	5.36	5.41	1.1%
Net Coal Coke Imports	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	6.3%
Coal Subtotal	4.36	4.51	4.65	4.75	4.93	4.93	5.01	5.09	5.14	5.17	5.15	5.17	5.19	5.22	5.24	5.27	5.31	5.30	5.35	5.38	5.41	5.46	1.1%
Nuclear Power	2.01	2.07	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.02	1.95	1.92	1.92	1.92	1.84	1.84	1.83	1.80	-0.5%
Renewable Energy 17/	0.73	0.73	0.75	0.78	0.78	0.80	0.82	0.83	0.83	0.85	0.85	0.85	0.86	0.86	0.87	0.87	0.88	0.89	0.89	0.89	0.90	0.91	1.0%
Methanol (M85) 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.9%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Imports 16/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	15.04	15.40	15.75	16.08	16.43	16.70	16.92	17.19	17.43	17.65	17.81	18.04	18.26	18.48	18.67	18.89	19.17	19.38	19.59	19.82	20.04	20.26	1.4%
Energy Use and Related Statistics																							
Delivered Energy Use	10.47	10.62	10.90	11.19	11.45	11.69	11.93	12.18	12.43	12.66	12.89	13.12	13.33	13.56	13.79	14.02	14.27	14.51	14.73	14.94	15.16	15.39	1.8%
Total Energy Use	15.04	15.40	15.75	16.08	16.43	16.70	16.92	17.19	17.43	17.65	17.81	18.04	18.26	18.48	18.67	18.89	19.17	19.38	19.59	19.82	20.04	20.26	1.4%
Population (millions)	49.64	50.26	50.88	51.51	52.14	52.79	53.43	54.08	54.74	55.41	56.08	56.77	57.46	58.17	58.89	59.61	60.34	61.07	61.81	62.56	63.30	64.04	1.2%
U.S. GDP (billion 1996 dollars)	8876	9338	9696	10036	10345	10642	10960	11273	11605	11951	12301	12667	13034	13425	13821	14232	14635	15025	15411	15775	16141	16515	3.0%
U.S. Carbon Dioxide Emissions (mm	1510.8	1535.4	1576.5	1611.4	1642.8	1667.6	1690.2	1713.0	1742.0	1764.6	1783.9	1809.1	1829.8	1851.4	1876.5	1900.8	1928.1	1950.6	1975.6	1995.9	2016.6	2040.6	1.4%

1/ Includes wood used for residential heating. See Table A18 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 electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. 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 cogeneration, which produces electricity and other useful thermal energy.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes only kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Mmtce = Million metric tons carbon equivalent

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1999 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 electric utility fuel consumption: EIA, Electric Power Annual, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1999 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteo/sep00.pdf> (October 12, 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.







**Table 6. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
East South Central**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	0.58	0.60	0.61	0.63	0.64	0.66	0.67	0.69	0.70	0.72	0.72	0.74	0.75	0.75	0.76	0.78	0.79	0.80	0.81	0.82	0.83	0.84	1.8%
Kerosene	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.6%
Jet Fuel 8/	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.24	2.4%
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	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.8%
Motor Gasoline 2/	1.15	1.15	1.18	1.21	1.23	1.25	1.27	1.29	1.31	1.33	1.35	1.36	1.38	1.39	1.41	1.42	1.44	1.45	1.46	1.48	1.49	1.50	1.3%
Petrochemical Feedstocks	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	1.4%
Residual Fuel	0.06	0.05	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-2.5%
Other Petroleum 12/	0.34	0.34	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.41	0.41	0.42	0.42	0.43	1.1%
<b>Petroleum Subtotal</b>	<b>2.48</b>	<b>2.49</b>	<b>2.55</b>	<b>2.60</b>	<b>2.64</b>	<b>2.68</b>	<b>2.73</b>	<b>2.77</b>	<b>2.82</b>	<b>2.86</b>	<b>2.89</b>	<b>2.93</b>	<b>2.96</b>	<b>2.99</b>	<b>3.03</b>	<b>3.08</b>	<b>3.12</b>	<b>3.16</b>	<b>3.20</b>	<b>3.23</b>	<b>3.27</b>	<b>3.31</b>	<b>1.4%</b>
Natural Gas	1.12	1.12	1.18	1.26	1.35	1.39	1.50	1.60	1.73	1.87	2.06	2.22	2.32	2.42	2.56	2.75	2.84	2.93	3.01	3.13	3.21	3.31	5.3%
Metallurgical Coal	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	-1.9%
Steam Coal	2.44	2.55	2.65	2.72	2.80	2.82	2.83	2.82	2.82	2.82	2.82	2.83	2.82	2.84	2.80	2.80	2.80	2.80	2.81	2.78	2.78	2.79	0.6%
Net Coal Coke Imports	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	6.3%
<b>Coal Subtotal</b>	<b>2.56</b>	<b>2.68</b>	<b>2.78</b>	<b>2.85</b>	<b>2.93</b>	<b>2.95</b>	<b>2.96</b>	<b>2.94</b>	<b>2.94</b>	<b>2.95</b>	<b>2.94</b>	<b>2.95</b>	<b>2.95</b>	<b>2.95</b>	<b>2.97</b>	<b>2.93</b>	<b>2.93</b>	<b>2.93</b>	<b>2.94</b>	<b>2.91</b>	<b>2.92</b>	<b>0.6%</b>	
Nuclear Power	0.66	0.68	0.67	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.69	0.69	0.69	0.70	0.67	0.63	0.63	0.63	-0.2%
Renewable Energy 17/	0.50	0.49	0.50	0.52	0.51	0.52	0.53	0.54	0.54	0.55	0.55	0.55	0.56	0.57	0.56	0.57	0.57	0.58	0.58	0.59	0.59	0.59	0.8%
Methanol (M85) 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.3%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Imports 16/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
<b>Total</b>	<b>7.32</b>	<b>7.46</b>	<b>7.68</b>	<b>7.90</b>	<b>8.11</b>	<b>8.21</b>	<b>8.39</b>	<b>8.53</b>	<b>8.72</b>	<b>8.91</b>	<b>9.13</b>	<b>9.34</b>	<b>9.48</b>	<b>9.62</b>	<b>9.81</b>	<b>10.01</b>	<b>10.16</b>	<b>10.29</b>	<b>10.41</b>	<b>10.49</b>	<b>10.61</b>	<b>10.76</b>	<b>1.9%</b>
<b>Energy Use and Related Statistics</b>																							
Delivered Energy Use	5.03	5.11	5.21	5.33	5.43	5.51	5.60	5.69	5.78	5.86	5.93	6.01	6.08	6.15	6.23	6.31	6.39	6.47	6.54	6.61	6.68	6.75	1.4%
Total Energy Use	7.32	7.46	7.68	7.90	8.11	8.21	8.39	8.53	8.72	8.91	9.13	9.34	9.48	9.62	9.81	10.01	10.16	10.29	10.41	10.49	10.61	10.76	1.9%
Population (millions)	16.58	16.67	16.76	16.86	16.96	17.06	17.15	17.24	17.33	17.43	17.52	17.61	17.70	17.80	17.89	17.98	18.07	18.16	18.24	18.33	18.42	18.51	0.5%
U.S. GDP (billion 1996 dollars)	8876	9338	9696	10036	10345	10642	10960	11273	11605	11951	12301	12667	13034	13425	13821	14232	14635	15025	15411	15775	16141	16515	3.0%
U.S. Carbon Dioxide Emissions (Mm	1510.8	1535.4	1576.5	1611.4	1642.8	1667.6	1690.2	1713.0	1742.0	1764.6	1783.9	1809.1	1829.8	1851.4	1876.5	1900.8	1928.1	1950.6	1975.6	1995.9	2016.6	2040.6	1.4%

1/ Includes wood used for residential heating. See Table A18 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 electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. 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 cogeneration, which produces electricity and other useful thermal energy.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes only kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Mmtce = Million metric tons carbon equivalent

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1999 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 electric utility fuel consumption: EIA, Electric Power Annual, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1999 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf> (October 12, 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 7. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
West South Central**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	0.98	1.02	1.05	1.09	1.12	1.15	1.18	1.21	1.25	1.27	1.29	1.32	1.34	1.36	1.38	1.41	1.43	1.46	1.49	1.51	1.53	1.56	2.2%
Kerosene	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Jet Fuel 8/	0.85	0.87	0.88	0.89	0.91	0.94	0.97	1.00	1.03	1.06	1.09	1.13	1.16	1.20	1.24	1.28	1.32	1.36	1.40	1.44	1.48	1.53	2.8%
Liquefied Petroleum Gas	1.88	1.93	1.95	1.96	1.98	1.98	1.98	1.98	1.99	2.01	2.03	2.05	2.06	2.09	2.11	2.13	2.16	2.18	2.21	2.23	2.26	2.29	0.9%
Motor Gasoline 2/	1.92	1.92	1.99	2.04	2.07	2.11	2.15	2.19	2.23	2.27	2.30	2.34	2.37	2.40	2.44	2.47	2.51	2.54	2.57	2.60	2.63	2.66	1.6%
Petrochemical Feedstocks	0.65	0.66	0.68	0.69	0.70	0.71	0.73	0.74	0.76	0.77	0.78	0.78	0.79	0.80	0.81	0.82	0.83	0.83	0.84	0.85	0.86	0.87	1.4%
Residual Fuel	0.42	0.35	0.35	0.33	0.32	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.33	-1.2%
Other Petroleum 12/	1.33	1.34	1.32	1.33	1.33	1.38	1.40	1.40	1.43	1.45	1.47	1.49	1.50	1.50	1.55	1.57	1.59	1.62	1.63	1.64	1.66	1.68	1.1%
Petroleum Subtotal	8.04	8.10	8.22	8.33	8.45	8.59	8.73	8.85	9.00	9.15	9.29	9.43	9.55	9.67	9.85	10.00	10.16	10.32	10.46	10.60	10.76	10.91	1.5%
Natural Gas	6.53	6.35	6.48	6.66	6.88	6.97	6.88	6.86	6.88	6.96	7.04	7.17	7.26	7.38	7.47	7.57	7.69	7.79	7.89	7.99	8.07	8.17	1.1%
Metallurgical Coal	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	2.38	2.43	2.46	2.49	2.46	2.49	2.56	2.67	2.68	2.65	2.65	2.65	2.65	2.66	2.66	2.65	2.65	2.65	2.65	2.65	2.65	2.65	0.5%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Coal Subtotal	2.38	2.43	2.46	2.49	2.46	2.49	2.56	2.67	2.68	2.65	2.65	2.65	2.65	2.66	2.66	2.65	2.65	2.65	2.65	2.65	2.65	2.65	0.5%
Nuclear Power	0.72	0.73	0.72	0.72	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.1%
Renewable Energy 17/	0.34	0.34	0.37	0.39	0.39	0.41	0.42	0.44	0.45	0.46	0.47	0.49	0.49	0.50	0.50	0.52	0.53	0.53	0.54	0.54	0.55	0.56	2.4%
Methanol (M85) 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.6%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Imports 16/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.0%
<b>Total</b>	<b>18.02</b>	<b>17.95</b>	<b>18.24</b>	<b>18.58</b>	<b>18.89</b>	<b>19.18</b>	<b>19.32</b>	<b>19.54</b>	<b>19.73</b>	<b>19.95</b>	<b>20.18</b>	<b>20.46</b>	<b>20.68</b>	<b>20.93</b>	<b>21.21</b>	<b>21.47</b>	<b>21.76</b>	<b>22.02</b>	<b>22.28</b>	<b>22.52</b>	<b>22.76</b>	<b>23.02</b>	<b>1.2%</b>
<b>Energy Use and Related Statistics</b>																							
Delivered Energy Use	14.64	14.90	15.15	15.44	15.75	15.98	16.22	16.49	16.75	17.01	17.25	17.51	17.73	17.96	18.23	18.48	18.75	19.00	19.24	19.46	19.70	19.94	1.5%
Total Energy Use	18.02	17.95	18.24	18.58	18.89	19.18	19.32	19.54	19.73	19.95	20.18	20.46	20.68	20.93	21.21	21.47	21.76	22.02	22.28	22.52	22.76	23.02	1.2%
Population (millions)	30.45	30.82	31.20	31.58	31.96	32.33	32.71	33.08	33.45	33.83	34.22	34.61	35.01	35.42	35.82	36.21	36.61	37.00	37.39	37.78	38.16	38.54	1.1%
U.S. GDP (billion 1996 dollars)	8876	9338	9696	10036	10345	10642	10960	11273	11605	11951	12301	12667	13034	13425	13821	14232	14635	15025	15411	15775	16141	16515	3.0%
U.S. Carbon Dioxide Emissions (Mm	1510.8	1535.4	1576.5	1611.4	1642.8	1667.6	1690.2	1713.0	1742.0	1764.6	1783.9	1809.1	1829.8	1851.4	1876.5	1900.8	1928.1	1950.6	1975.6	1995.9	2016.6	2040.6	1.4%

1/ Includes wood used for residential heating. See Table A18 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 electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. 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 cogeneration, which produces electricity and other useful thermal energy.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes only kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Mmtce = Million metric tons carbon equivalent

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1999 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 electric utility fuel consumption: EIA, Electric Power Annual, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1999 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf> (October 12, 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 8. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
Mountain**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	1999-
Total Energy Consumption																								
Distillate Fuel	0.58	0.59	0.61	0.64	0.66	0.68	0.71	0.73	0.75	0.77	0.78	0.80	0.81	0.82	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.98	2.6%	
Kerosene	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.5%	
Jet Fuel 8/	0.19	0.20	0.20	0.20	0.21	0.22	0.22	0.23	0.24	0.25	0.25	0.26	0.27	0.28	0.28	0.29	0.30	0.31	0.33	0.34	0.35	0.36	3.1%	
Liquefied Petroleum Gas	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	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	0.9%	
Motor Gasoline 2/	1.05	1.05	1.10	1.15	1.18	1.22	1.25	1.28	1.32	1.35	1.38	1.40	1.43	1.45	1.48	1.51	1.54	1.57	1.61	1.64	1.68	1.72	2.4%	
Petrochemical Feedstocks	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3%	
Residual Fuel	0.01	0.01	0.01	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	0.00	0.00	0.00	0.00	0.00	0.00	-3.6%	
Other Petroleum 12/	0.22	0.22	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	1.0%	
Petroleum Subtotal	2.12	2.14	2.20	2.28	2.34	2.41	2.48	2.55	2.61	2.67	2.72	2.78	2.83	2.87	2.93	2.99	3.06	3.13	3.20	3.27	3.35	3.43	2.3%	
Natural Gas	1.25	1.32	1.39	1.49	1.54	1.56	1.53	1.52	1.49	1.50	1.52	1.52	1.53	1.55	1.58	1.61	1.65	1.68	1.73	1.77	1.80	1.85	1.9%	
Metallurgical Coal	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.9%	
Steam Coal	2.35	2.37	2.39	2.41	2.44	2.46	2.56	2.63	3.01	3.14	3.21	3.23	3.26	3.27	3.27	3.27	3.27	3.27	3.27	3.28	3.29	3.32	1.7%	
Net Coal Coke Imports	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	8.8%	
Coal Subtotal	2.37	2.40	2.43	2.45	2.47	2.49	2.59	2.66	3.04	3.18	3.24	3.27	3.29	3.30	3.30	3.30	3.31	3.31	3.31	3.31	3.32	3.36	1.7%	
Nuclear Power	0.33	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.0%	
Renewable Energy 17/	0.59	0.56	0.57	0.59	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.61	0.61	0.61	0.61	0.61	0.62	0.62	0.62	0.3%	
Methanol (M85) 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.6%	
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Electricity Imports 16/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.0%	
Total	6.66	6.76	6.92	7.13	7.26	7.38	7.52	7.65	8.07	8.28	8.41	8.49	8.58	8.66	8.74	8.84	8.95	9.06	9.18	9.29	9.43	9.59	1.8%	
Energy Use and Related Statistics																								
Delivered Energy Use	4.19	4.26	4.38	4.54	4.68	4.79	4.89	5.00	5.10	5.20	5.29	5.40	5.48	5.57	5.67	5.78	5.90	6.02	6.14	6.26	6.40	6.54	2.1%	
Total Energy Use	6.66	6.76	6.92	7.13	7.26	7.38	7.52	7.65	8.07	8.28	8.41	8.49	8.58	8.66	8.74	8.84	8.95	9.06	9.18	9.29	9.43	9.59	1.8%	
Population (millions)	17.20	17.65	18.09	18.48	18.87	19.24	19.59	19.92	20.26	20.59	20.92	21.24	21.54	21.84	22.16	22.51	22.90	23.31	23.74	24.20	24.69	25.21	1.8%	
U.S. GDP (billion 1996 dollars)	8876	9338	9696	10036	10345	10642	10960	11273	11605	11951	12301	12667	13034	13425	13821	14232	14635	15025	15411	15775	16141	16515	3.0%	
U.S. Carbon Dioxide Emissions (Mm	1510.8	1535.4	1576.5	1611.4	1642.8	1667.6	1690.2	1713.0	1742.0	1764.6	1783.9	1809.1	1829.8	1851.4	1876.5	1900.8	1928.1	1950.6	1975.6	1995.9	2016.6	2040.6	1.4%	

1/ Includes wood used for residential heating. See Table A18 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 electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. 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 cogeneration, which produces electricity and other useful thermal energy.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes only kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Mmtoe = Million metric tons carbon equivalent

Note: Totals may not equal sum of components due to independent rounding. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1999 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 electric utility fuel consumption: EIA, Electric Power Annual, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1999 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteo/sep00.pdf> (October 12, 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.







**Table 9. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
Pacific**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	0.76	0.79	0.82	0.84	0.87	0.89	0.92	0.94	0.97	0.99	1.01	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.21	1.23	2.3%
Kerosene	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.6%
Jet Fuel 8/	0.96	0.99	1.00	1.00	1.03	1.06	1.09	1.13	1.16	1.20	1.24	1.29	1.33	1.37	1.42	1.47	1.51	1.56	1.61	1.65	1.69	1.73	2.8%
Liquefied Petroleum Gas	0.06	0.07	0.11	0.11	0.11	0.11	0.10	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	1.6%
Motor Gasoline 2/	2.40	2.40	2.46	2.52	2.55	2.59	2.63	2.67	2.71	2.75	2.79	2.82	2.86	2.89	2.93	2.97	3.00	3.04	3.07	3.11	3.14	3.17	1.3%
Petrochemical Feedstocks	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	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	1.3%
Residual Fuel	0.34	0.34	0.34	0.34	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.7%
Other Petroleum 12/	0.66	0.66	0.68	0.69	0.69	0.69	0.69	0.70	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.5%
Petroleum Subtotal	5.22	5.28	5.44	5.54	5.64	5.73	5.83	5.94	6.03	6.14	6.24	6.35	6.45	6.55	6.66	6.78	6.89	7.00	7.11	7.21	7.30	7.39	1.7%
Natural Gas	2.95	3.11	3.10	3.16	3.32	3.38	3.44	3.55	3.44	3.48	3.58	3.72	3.82	3.95	4.08	4.20	4.34	4.46	4.58	4.69	4.79	4.91	2.5%
Metallurgical Coal	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Steam Coal	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.8%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Coal Subtotal	0.20	0.20	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.8%
Nuclear Power	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.3%
Renewable Energy 17/	2.68	2.56	2.62	2.67	2.67	2.73	2.81	2.86	2.98	3.06	3.15	3.19	3.21	3.22	3.22	3.23	3.24	3.20	3.20	3.21	3.22	3.22	0.9%
Methanol (M85) 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.4%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Imports 16/	0.03	0.03	0.04	0.05	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-2.0%
<b>Total</b>	<b>11.51</b>	<b>11.63</b>	<b>11.85</b>	<b>12.07</b>	<b>12.35</b>	<b>12.56</b>	<b>12.80</b>	<b>13.08</b>	<b>13.18</b>	<b>13.40</b>	<b>13.69</b>	<b>13.96</b>	<b>14.19</b>	<b>14.42</b>	<b>14.67</b>	<b>14.91</b>	<b>15.17</b>	<b>15.37</b>	<b>15.59</b>	<b>15.81</b>	<b>16.02</b>	<b>16.23</b>	<b>1.7%</b>
<b>Energy Use and Related Statistics</b>																							
Delivered Energy Use	9.28	9.43	9.61	9.81	10.01	10.19	10.38	10.60	10.82	11.01	11.19	11.38	11.55	11.74	11.93	12.13	12.33	12.52	12.70	12.87	13.02	13.19	1.7%
Total Energy Use	11.51	11.63	11.85	12.07	12.35	12.56	12.80	13.08	13.18	13.40	13.69	13.96	14.19	14.42	14.67	14.91	15.17	15.37	15.59	15.81	16.02	16.23	1.7%
Population (millions)	44.08	44.57	45.03	45.50	45.97	46.47	46.98	47.50	48.03	48.57	49.11	49.66	50.22	50.80	51.37	51.96	52.54	53.11	53.67	54.22	54.76	55.29	1.1%
U.S. GDP (billion 1996 dollars)	8876	9338	9696	10036	10345	10642	10960	11273	11605	11951	12301	12667	13034	13425	13821	14232	14635	15025	15411	15775	16141	16515	3.0%
U.S. Carbon Dioxide Emissions (Mm	1510.8	1535.4	1576.5	1611.4	1642.8	1667.6	1690.2	1713.0	1742.0	1764.6	1783.9	1809.1	1829.8	1851.4	1876.5	1900.8	1928.1	1950.6	1975.6	1995.9	2016.6	2040.6	1.4%

1/ Includes wood used for residential heating. See Table A18 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 electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. 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 cogeneration, which produces electricity and other useful thermal energy.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes only kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ 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.

Mmtce = Million metric tons carbon equivalent

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1999 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 electric utility fuel consumption: EIA, Electric Power Annual, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1999 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteo/sep00.pdf> (October 12, 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 10. Energy Consumption by Sector and Source (3 of 3)  
(Quadrillion Btu per Year, Unless Otherwise Noted)  
United States**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Total Energy Consumption</b>																							
Distillate Fuel	7.48	7.73	8.01	8.24	8.42	8.57	8.75	8.95	9.13	9.27	9.38	9.51	9.63	9.74	9.87	10.02	10.17	10.32	10.45	10.57	10.70	10.84	1.8%
Kerosene	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	-1.0%
Jet Fuel 8/	3.46	3.54	3.59	3.60	3.70	3.79	3.90	4.02	4.13	4.25	4.38	4.51	4.64	4.78	4.92	5.07	5.22	5.37	5.52	5.67	5.81	5.97	2.6%
Liquefied Petroleum Gas	2.88	2.95	3.03	3.04	3.05	3.04	3.03	3.02	2.99	3.01	3.03	3.05	3.07	3.09	3.13	3.17	3.20	3.23	3.27	3.31	3.34	3.38	0.8%
Motor Gasoline 2/	16.17	16.18	16.67	17.10	17.36	17.66	17.96	18.26	18.53	18.80	19.07	19.31	19.54	19.76	20.01	20.26	20.52	20.76	20.99	21.20	21.41	21.63	1.4%
Petrochemical Feedstocks	1.29	1.31	1.33	1.35	1.37	1.40	1.42	1.45	1.49	1.50	1.52	1.53	1.54	1.56	1.57	1.59	1.61	1.62	1.64	1.66	1.68	1.70	1.3%
Residual Fuel	2.08	1.77	1.72	1.58	1.57	1.51	1.44	1.40	1.37	1.35	1.33	1.33	1.32	1.33	1.33	1.34	1.35	1.35	1.36	1.36	1.37	1.38	-1.9%
Other Petroleum 12/	4.53	4.51	4.54	4.60	4.62	4.71	4.77	4.80	4.89	4.94	4.99	5.04	5.07	5.08	5.17	5.24	5.31	5.38	5.42	5.46	5.52	5.57	1.0%
Petroleum Subtotal	38.03	38.13	39.03	39.64	40.23	40.82	41.41	42.04	42.67	43.26	43.83	44.41	44.95	45.47	46.13	46.81	47.50	48.16	48.77	49.36	49.96	50.59	1.4%
Natural Gas	21.95	22.56	23.24	24.15	24.99	25.59	25.88	26.35	26.67	27.26	27.92	28.75	29.32	30.06	30.79	31.54	32.39	33.13	33.81	34.48	34.99	35.57	2.3%
Metallurgical Coal	0.75	0.79	0.77	0.75	0.73	0.71	0.69	0.66	0.64	0.63	0.62	0.61	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	-1.9%
Steam Coal	20.62	21.32	21.91	22.36	22.75	23.01	23.34	23.57	24.10	24.26	24.26	24.39	24.51	24.58	24.72	24.79	24.93	24.95	25.13	25.15	25.28	25.48	1.0%
Net Coal Coke Imports	0.06	0.06	0.07	0.09	0.10	0.11	0.12	0.12	0.13	0.14	0.15	0.16	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.22	0.22	6.6%
Coal Subtotal	21.43	22.17	22.76	23.20	23.59	23.82	24.15	24.36	24.88	25.03	25.02	25.15	25.27	25.34	25.47	25.54	25.68	25.68	25.87	25.88	26.01	26.20	1.0%
Nuclear Power	7.79	7.98	7.86	7.87	7.88	7.89	7.90	7.91	7.88	7.87	7.87	7.89	7.91	7.93	7.93	7.93	7.93	7.93	7.93	7.93	7.93	7.93	-1.1%
Renewable Energy 17/	6.59	6.43	6.63	6.81	6.83	6.96	7.14	7.27	7.45	7.59	7.73	7.83	7.90	7.96	8.02	8.07	8.13	8.14	8.18	8.22	8.27	8.31	1.1%
Methanol (M85) 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.4%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Electricity Imports 16/	0.34	0.35	0.38	0.52	0.57	0.52	0.55	0.53	0.48	0.41	0.37	0.31	0.31	0.25	0.24	0.22	0.22	0.24	0.24	0.25	0.25	0.22	-2.0%
<b>Total</b>	<b>96.14</b>	<b>97.62</b>	<b>99.90</b>	<b>102.18</b>	<b>104.09</b>	<b>105.61</b>	<b>107.03</b>	<b>108.47</b>	<b>110.03</b>	<b>111.42</b>	<b>112.75</b>	<b>114.14</b>	<b>115.36</b>	<b>116.62</b>	<b>117.97</b>	<b>119.28</b>	<b>120.75</b>	<b>122.01</b>	<b>123.26</b>	<b>124.41</b>	<b>125.69</b>	<b>127.04</b>	<b>1.3%</b>
<b>Energy Use and Related Statistics</b>																							
Delivered Energy Use	71.65	72.88	74.62	76.25	77.67	78.85	80.05	81.35	82.60	83.78	84.85	86.01	87.03	88.13	89.28	90.47	91.71	92.90	93.97	95.02	96.08	97.22	1.5%
Total Energy Use	96.14	97.62	99.90	102.18	104.09	105.61	107.03	108.47	110.03	111.42	112.75	114.14	115.36	116.62	117.97	119.28	120.75	122.01	123.26	124.41	125.69	127.04	1.3%
Population (millions)	273.13	275.62	278.11	280.62	283.11	285.57	288.02	290.46	292.89	295.31	297.74	300.17	302.61	305.07	307.56	310.07	312.58	315.11	317.64	320.18	322.71	325.24	0.8%
U.S. GDP (billion 1996 dollars)	8876	9338	9696	10036	10345	10642	10960	11273	11605	11951	12301	12667	13034	13425	13821	14232	14635	15025	15411	15775	16141	16515	3.0%
U.S. Carbon Dioxide Emissions (Mm	1510.8	1535.4	1576.5	1611.4	1642.8	1667.6	1690.2	1713.0	1742.0	1764.6	1783.9	1809.1	1829.8	1851.4	1876.5	1900.8	1928.1	1950.6	1975.6	1995.9	2016.6	2040.6	1.4%

1/ Includes wood used for residential heating. See Table A18 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 electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. 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 cogeneration, which produces electricity and other useful thermal energy.

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

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes only kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, 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 all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. 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 cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ Includes hydroelectric, geothermal, wood and wood 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.

Mmtce = Million metric tons carbon equivalent

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1999 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 electric utility fuel consumption: EIA, Electric Power Annual, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1999 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1999 values: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf> (October 12, 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 11. Energy Prices by Sector and Source (2 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**  
**New England**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Average Price to All Users 14/																							
Petroleum Products 2/	7.21	10.13	9.31	8.94	8.68	8.84	8.91	9.02	9.21	9.18	9.21	9.30	9.26	9.27	9.27	9.27	9.33	9.34	9.34	9.35	9.36	9.35	1.2%
Distillate Fuel	6.49	9.28	8.04	7.66	7.47	7.61	7.61	7.54	7.64	7.66	7.72	7.82	7.83	7.89	7.93	7.96	8.10	8.14	8.17	8.20	8.24	8.24	1.1%
Jet Fuel	4.93	6.87	6.09	5.67	5.54	5.71	5.70	5.61	5.68	5.71	5.76	5.83	5.81	5.85	5.86	5.85	5.99	6.05	6.06	6.09	6.13	6.13	1.0%
Liquefied Petroleum Gas	11.98	14.90	16.33	15.36	15.06	15.11	15.11	15.04	15.16	15.15	15.19	15.21	15.16	15.24	14.80	14.55	14.79	14.67	14.66	14.65	14.65	14.63	1.0%
Motor Gasoline 8/	9.93	12.71	11.84	11.41	11.12	11.17	11.16	11.28	11.51	11.32	11.29	11.37	11.29	11.28	11.26	11.25	11.25	11.23	11.22	11.21	11.20	11.19	0.6%
Residual Fuel	2.32	3.98	3.59	3.21	3.09	3.09	3.09	3.09	3.11	3.11	3.13	3.15	3.16	3.18	3.19	3.21	3.23	3.25	3.27	3.28	3.30	3.32	1.7%
Natural Gas	5.71	5.66	5.66	5.11	4.82	4.59	4.57	4.52	4.50	4.46	4.41	4.39	4.34	4.30	4.27	4.25	4.23	4.21	4.24	4.25	4.30	4.37	-1.3%
Coal	1.70	1.70	1.68	1.68	1.67	1.66	1.65	1.64	1.63	1.61	1.59	1.60	1.59	1.57	1.56	1.55	1.53	1.56	1.54	1.53	1.52	1.51	-0.6%
Ethanol (E85) 11/	14.42	16.92	20.58	19.81	20.62	20.58	20.71	20.64	20.57	20.53	20.43	20.55	20.58	20.63	20.67	20.72	20.79	20.85	20.94	21.02	21.11	21.20	1.9%
Methanol (M85) 12/	10.38	13.45	16.11	15.32	14.98	15.01	15.02	15.06	15.14	15.12	15.13	15.17	15.16	15.53	15.52	15.53	15.54	15.53	15.55	15.93	15.93	15.93	2.1%
Electricity	28.23	29.61	30.03	28.24	27.45	26.29	25.47	24.14	23.34	22.07	21.76	21.77	21.59	21.78	21.78	21.79	22.33	22.29	22.26	22.03	22.02	22.28	-1.4%
Non-Renewable Energy Expenditures																							
by Sector (billion 1999 dollars)																							
Residential	8.57	9.63	9.73	9.40	9.27	9.24	9.22	9.13	9.15	9.12	9.16	9.26	9.29	9.42	9.46	9.52	9.70	9.78	9.81	9.85	9.93	10.05	0.8%
Commercial	6.49	6.75	6.99	6.70	6.60	6.45	6.35	6.15	6.05	5.82	5.80	5.85	5.85	5.94	5.98	6.02	6.20	6.22	6.25	6.22	6.24	6.32	-0.1%
Industrial	3.24	3.55	3.50	3.28	3.16	3.05	3.00	2.92	2.89	2.77	2.75	2.78	2.76	2.81	2.84	2.87	2.98	3.02	3.06	3.08	3.13	3.22	0.0%
Transportation	9.42	12.26	11.65	11.49	11.40	11.68	11.86	12.13	12.52	12.52	12.66	12.90	12.96	13.09	13.22	13.35	13.53	13.65	13.76	13.86	13.95	14.04	1.9%
Total Non-Renewable Expenditures	27.72	32.19	31.87	30.88	30.43	30.41	30.43	30.33	30.60	30.23	30.37	30.79	30.86	31.25	31.49	31.77	32.40	32.67	32.89	33.01	33.25	33.63	0.9%
Trans. Renew. Expenditures	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	9.2%
Total Expenditures	27.73	32.20	31.88	30.89	30.45	30.44	30.45	30.35	30.63	30.26	30.40	30.82	30.90	31.29	31.53	31.81	32.44	32.71	32.93	33.05	33.30	33.67	0.9%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). 1999 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000), and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 12. Energy Prices by Sector and Source (1 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**  
**Middle Atlantic**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Average Price to All Users 14/																							
Petroleum Products 2/	7.04	9.51	8.90	8.56	8.33	8.41	8.44	8.47	8.62	8.55	8.56	8.64	8.60	8.61	8.60	8.61	8.66	8.66	8.68	8.69	8.70	8.69	1.0%
Distillate Fuel	7.08	9.61	8.59	8.20	8.02	8.16	8.16	8.08	8.17	8.19	8.24	8.33	8.34	8.39	8.42	8.44	8.57	8.61	8.62	8.64	8.66	8.66	1.0%
Jet Fuel	4.51	6.55	5.63	5.21	5.08	5.25	5.24	5.15	5.23	5.25	5.30	5.40	5.40	5.46	5.49	5.50	5.65	5.73	5.75	5.79	5.85	5.85	1.2%
Liquefied Petroleum Gas	11.92	14.39	16.03	15.05	14.74	14.78	14.76	14.69	14.79	14.77	14.79	14.80	14.74	14.82	14.37	13.78	14.03	13.85	13.76	13.59	13.57	13.50	0.6%
Motor Gasoline 8/	9.28	12.00	11.49	11.05	10.76	10.80	10.79	10.90	11.14	10.96	10.92	11.02	10.93	10.90	10.86	10.84	10.84	10.80	10.79	10.78	10.78	10.76	0.7%
Residual Fuel	2.56	4.17	4.02	3.63	3.48	3.51	3.51	3.53	3.54	3.56	3.58	3.59	3.61	3.63	3.64	3.66	3.68	3.69	3.71	3.73	3.74	3.76	1.8%
Natural Gas	5.85	6.26	6.51	5.89	5.49	5.32	5.24	5.24	5.21	5.19	5.15	5.08	5.04	5.00	4.98	4.95	4.93	4.92	4.95	4.98	5.03	5.11	-0.6%
Coal	1.40	1.39	1.38	1.37	1.35	1.34	1.32	1.31	1.31	1.29	1.28	1.27	1.27	1.26	1.26	1.25	1.24	1.24	1.23	1.22	1.22	1.21	-0.7%
Ethanol (E85) 11/	14.42	16.92	19.64	18.86	19.68	19.64	19.77	19.69	19.63	19.58	19.49	19.61	19.64	19.69	19.73	19.78	19.85	19.91	20.00	20.08	20.17	20.26	1.6%
Methanol (M85) 12/	10.38	13.45	14.69	13.90	13.56	13.60	13.61	13.64	13.72	13.70	13.71	13.75	13.74	14.11	14.11	14.11	14.12	14.11	14.13	14.51	14.52	14.52	1.6%
Electricity	26.22	26.22	26.35	25.01	24.20	23.82	22.45	21.43	20.59	19.70	19.56	19.71	19.68	19.72	19.80	20.11	20.35	20.50	20.69	20.77	20.88	21.23	-1.0%
Non-Renewable Energy Expenditures																							
by Sector (billion 1999 dollars)																							
Residential	21.73	23.41	24.09	23.24	22.69	22.66	22.35	22.17	22.07	22.04	22.09	22.29	22.34	22.51	22.57	22.79	23.01	23.23	23.35	23.49	23.68	24.04	0.5%
Commercial	17.74	18.60	19.30	18.51	18.07	17.92	17.28	16.79	16.42	15.92	15.92	16.16	16.23	16.38	16.54	16.84	17.12	17.32	17.55	17.68	17.84	18.12	0.1%
Industrial	9.90	11.69	11.49	10.91	10.53	10.44	10.16	10.00	9.93	9.76	9.78	9.93	9.93	10.04	10.16	10.44	10.69	10.88	11.12	11.33	11.57	11.89	0.9%
Transportation	23.23	30.76	29.66	28.93	28.56	29.15	29.48	30.00	30.87	30.86	31.13	31.68	31.75	31.97	32.20	32.44	32.86	33.07	33.30	33.49	33.67	33.85	1.8%
Total Non-Renewable Expenditures	72.61	84.47	84.54	81.59	79.84	80.17	79.27	78.96	79.29	78.57	78.93	80.06	80.26	80.91	81.47	82.50	83.68	84.50	85.32	86.00	86.76	87.91	0.9%
Trans. Renew. Expenditures	0.02	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	8.5%
Total Expenditures	72.63	84.51	84.57	81.63	79.89	80.22	79.33	79.02	79.37	78.64	79.01	80.14	80.34	81.00	81.56	82.60	83.78	84.60	85.42	86.10	86.87	88.02	0.9%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). 1999 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000), and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 13. Energy Prices by Sector and Source (2 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**  
**East North Central**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Average Price to All Users 14/																							
Petroleum Products 2/	7.81	10.09	9.42	8.99	8.74	8.79	8.78	8.79	8.95	8.87	8.88	8.96	8.90	8.91	8.88	8.87	8.89	8.90	8.90	8.91	8.92	8.91	0.6%
Distillate Fuel	7.48	9.72	8.66	8.27	8.11	8.25	8.22	8.13	8.18	8.19	8.23	8.31	8.31	8.35	8.37	8.37	8.49	8.49	8.49	8.48	8.48	8.49	0.6%
Jet Fuel	4.43	6.34	5.40	5.00	4.87	5.04	5.03	4.94	5.01	5.04	5.09	5.17	5.16	5.20	5.22	5.22	5.36	5.43	5.44	5.47	5.52	5.52	1.1%
Liquefied Petroleum Gas	9.50	11.87	12.56	11.62	11.34	11.40	11.43	11.34	11.50	11.47	11.53	11.56	11.53	11.66	11.28	11.14	11.27	11.30	11.30	11.31	11.33	11.31	0.8%
Motor Gasoline 8/	9.50	11.96	11.24	10.79	10.49	10.51	10.50	10.60	10.85	10.70	10.66	10.77	10.66	10.63	10.60	10.61	10.54	10.53	10.54	10.54	10.53	10.52	0.5%
Residual Fuel	2.73	4.11	3.86	3.43	3.28	3.28	3.28	3.29	3.30	3.31	3.33	3.34	3.36	3.37	3.39	3.41	3.42	3.44	3.46	3.47	3.49	3.50	1.2%
Natural Gas	4.38	5.29	5.60	5.03	4.69	4.53	4.51	4.50	4.47	4.44	4.40	4.38	4.37	4.35	4.35	4.35	4.35	4.38	4.39	4.41	4.46	4.52	0.2%
Coal	1.27	1.25	1.24	1.24	1.23	1.22	1.21	1.19	1.18	1.17	1.15	1.15	1.14	1.13	1.12	1.11	1.10	1.10	1.09	1.08	1.07	1.07	-0.8%
Ethanol (E85) 11/	14.42	16.92	17.98	17.35	18.22	18.17	18.29	18.21	18.14	18.09	17.99	18.10	18.13	18.17	18.21	18.28	18.32	18.40	18.47	18.55	18.64	18.72	1.2%
Methanol (M85) 12/	10.38	13.45	14.24	13.29	12.80	13.19	13.18	13.12	13.26	13.18	13.19	14.04	14.03	14.41	14.41	14.43	14.80	14.65	14.63	14.83	14.84	14.84	1.7%
Electricity	18.10	18.20	18.13	17.59	17.70	17.44	16.73	16.68	16.23	15.99	15.72	15.83	15.80	15.71	15.76	15.84	15.91	15.97	16.05	16.12	16.01	16.04	-0.6%
Non-Renewable Energy Expenditures																							
by Sector (billion 1999 dollars)																							
Residential	22.78	24.43	25.95	24.99	24.82	24.74	24.50	25.06	25.09	25.26	25.24	25.52	25.67	25.89	26.06	26.33	26.67	27.04	27.29	27.61	27.85	28.27	1.0%
Commercial	15.94	17.03	17.88	17.55	17.63	17.63	17.44	17.46	17.36	17.38	17.39	17.72	17.93	18.08	18.34	18.62	18.86	19.12	19.37	19.62	19.69	19.89	1.1%
Industrial	19.41	23.49	23.27	22.27	21.89	21.76	21.53	21.52	21.62	21.67	21.73	22.16	22.32	22.56	22.89	23.31	23.92	24.41	24.94	25.47	25.94	26.56	1.5%
Transportation	32.69	42.11	40.09	39.31	38.91	39.77	40.37	41.18	42.56	42.67	43.10	43.99	44.06	44.41	44.74	45.23	45.64	46.07	46.43	46.75	47.02	47.30	1.8%
Total Non-Renewable Expenditures	90.82	107.06	107.20	104.11	103.24	103.90	103.84	105.23	106.64	106.99	107.46	109.39	109.99	110.94	112.04	113.49	115.10	116.63	118.03	119.45	120.50	122.02	1.4%
Trans. Renew. Expenditures	0.02	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.13	8.5%
Total Expenditures	90.85	107.10	107.24	104.16	103.29	103.95	103.90	105.30	106.72	107.07	107.54	109.48	110.09	111.04	112.14	113.60	115.21	116.75	118.15	119.58	120.62	122.15	1.4%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). 1999 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000), and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 14. Energy Prices by Sector and Source (2 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**  
**West North Central**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Average Price to All Users 14/																							
Petroleum Products 2/	7.55	9.94	9.29	8.83	8.58	8.64	8.62	8.62	8.78	8.70	8.71	8.80	8.74	8.75	8.71	8.70	8.72	8.73	8.73	8.73	8.74	8.73	0.7%
Distillate Fuel	7.03	9.36	8.24	7.85	7.68	7.81	7.78	7.68	7.74	7.75	7.79	7.88	7.87	7.92	7.94	7.94	8.06	8.07	8.07	8.07	8.08	8.09	0.7%
Jet Fuel	5.01	6.79	5.83	5.43	5.29	5.46	5.45	5.37	5.44	5.46	5.51	5.57	5.55	5.57	5.58	5.57	5.69	5.75	5.76	5.78	5.82	5.82	0.7%
Liquefied Petroleum Gas	7.12	9.67	10.34	9.38	9.09	9.15	9.18	9.10	9.25	9.22	9.28	9.32	9.28	9.42	9.04	8.90	9.03	9.06	9.06	9.07	9.09	9.07	1.2%
Motor Gasoline 8/	9.05	11.71	11.05	10.58	10.27	10.29	10.28	10.38	10.63	10.48	10.45	10.56	10.45	10.42	10.38	10.40	10.31	10.31	10.31	10.31	10.30	10.29	0.6%
Residual Fuel	2.42	3.59	3.18	2.83	2.72	2.79	2.81	2.84	2.85	2.87	2.89	2.92	2.93	2.95	2.96	2.97	2.98	3.00	3.01	3.03	3.04	3.05	1.1%
Natural Gas	4.45	5.19	5.58	5.14	4.86	4.75	4.76	4.77	4.77	4.77	4.75	4.75	4.73	4.71	4.69	4.69	4.70	4.73	4.76	4.80	4.85	4.92	0.5%
Coal	0.88	0.88	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.79	0.78	0.77	0.78	0.77	0.77	0.76	0.75	-0.7%
Ethanol (E85) 11/	14.42	16.92	18.27	17.61	18.29	18.24	18.36	18.28	18.21	18.16	18.06	18.18	18.20	18.25	18.29	18.35	18.40	18.47	18.55	18.63	18.71	18.80	1.3%
Methanol (M85) 12/	10.38	13.45	13.88	12.93	12.44	12.83	12.82	12.76	12.90	12.82	12.83	13.69	13.67	14.05	14.05	14.08	14.44	14.29	14.28	14.48	14.48	14.49	1.6%
Electricity	17.25	16.73	16.51	16.35	16.16	16.08	16.03	16.31	16.14	16.23	16.26	16.32	16.08	15.94	15.99	16.23	16.27	16.38	16.35	16.41	16.28	16.28	-0.3%
Non-Renewable Energy Expenditures																							
by Sector (billion 1999 dollars)																							
Residential	9.52	10.09	10.67	10.37	10.28	10.32	10.37	10.62	10.68	10.82	10.89	11.02	11.04	11.14	11.23	11.42	11.57	11.76	11.84	12.00	12.10	12.28	1.2%
Commercial	6.37	6.61	6.96	7.03	7.01	7.07	7.18	7.34	7.41	7.56	7.68	7.83	7.87	7.94	8.07	8.27	8.40	8.56	8.64	8.76	8.80	8.90	1.6%
Industrial	7.34	8.69	8.55	8.24	8.02	8.07	8.18	8.31	8.47	8.57	8.68	8.85	8.84	8.93	9.04	9.23	9.47	9.66	9.83	10.02	10.20	10.40	1.7%
Transportation	16.22	21.43	20.37	19.94	19.77	20.24	20.57	20.98	21.71	21.83	22.12	22.64	22.74	22.97	23.20	23.50	23.77	24.04	24.28	24.48	24.67	24.86	2.1%
Total Non-Renewable Expenditures	39.45	46.82	46.55	45.58	45.08	45.70	46.30	47.25	48.27	48.78	49.37	50.34	50.49	50.98	51.53	52.41	53.21	54.02	54.59	55.26	55.77	56.44	1.7%
Trans. Renew. Expenditures	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	8.6%
Total Expenditures	39.46	46.84	46.57	45.60	45.10	45.73	46.32	47.28	48.31	48.82	49.41	50.38	50.53	51.03	51.58	52.46	53.25	54.07	54.64	55.31	55.82	56.50	1.7%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). 1999 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000), and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 15. Energy Prices by Sector and Source (2 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**  
**South Atlantic**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Average Price to All Users 14/																							
Petroleum Products 2/	7.15	9.66	8.98	8.61	8.38	8.46	8.47	8.50	8.69	8.61	8.62	8.71	8.65	8.66	8.64	8.65	8.66	8.67	8.67	8.68	8.68	8.68	0.9%
Distillate Fuel	6.93	9.36	8.16	7.76	7.60	7.74	7.71	7.62	7.69	7.70	7.74	7.82	7.82	7.86	7.89	7.89	8.01	8.03	8.03	8.03	8.03	8.04	0.7%
Jet Fuel	4.79	6.71	5.66	5.24	5.11	5.28	5.27	5.18	5.26	5.28	5.33	5.42	5.42	5.47	5.50	5.51	5.65	5.73	5.75	5.78	5.83	5.84	0.9%
Liquefied Petroleum Gas	10.52	13.16	14.91	13.95	13.64	13.69	13.69	13.62	13.74	13.72	13.76	13.78	13.74	13.87	13.48	13.33	13.45	13.47	13.46	13.46	13.47	13.45	1.2%
Motor Gasoline 8/	8.75	11.54	10.76	10.30	10.01	10.02	10.02	10.12	10.36	10.21	10.17	10.28	10.18	10.15	10.11	10.12	10.05	10.05	10.05	10.05	10.04	10.03	0.6%
Residual Fuel	2.63	3.91	3.85	3.44	3.28	3.29	3.28	3.28	3.28	3.29	3.29	3.31	3.31	3.33	3.34	3.36	3.37	3.39	3.41	3.43	3.44	3.46	1.3%
Natural Gas	4.57	5.09	5.23	4.64	4.31	4.14	4.19	4.23	4.28	4.33	4.34	4.35	4.35	4.35	4.36	4.38	4.39	4.44	4.48	4.52	4.58	4.67	0.1%
Coal	1.44	1.40	1.38	1.37	1.35	1.33	1.32	1.31	1.30	1.28	1.26	1.26	1.25	1.24	1.23	1.22	1.21	1.21	1.20	1.19	1.19	1.18	-0.9%
Ethanol (E85) 11/	14.42	16.92	19.39	18.59	19.40	19.36	19.49	19.42	19.36	19.31	19.22	19.34	19.37	19.42	19.47	19.54	19.60	19.68	19.76	19.85	19.94	20.03	1.6%
Methanol (M85) 12/	10.38	13.45	13.48	12.53	12.05	12.44	12.43	12.37	12.51	12.43	12.44	13.29	13.27	13.66	13.66	13.68	14.04	13.89	13.88	14.08	14.09	14.09	1.5%
Electricity	18.73	19.50	19.32	18.76	18.49	18.26	18.04	18.06	17.94	17.93	17.96	17.96	17.91	17.81	17.84	17.97	17.97	18.04	18.07	18.14	18.12	18.15	-0.1%
Non-Renewable Energy Expenditures																							
by Sector (billion 1999 dollars)																							
Residential	25.51	27.42	28.24	28.01	28.18	28.66	29.14	29.93	30.61	31.42	32.08	32.79	33.26	33.87	34.44	35.17	35.85	36.66	37.23	37.97	38.62	39.43	2.1%
Commercial	18.06	19.45	19.97	19.89	20.02	20.23	20.39	20.76	21.03	21.39	21.89	22.40	22.82	23.16	23.64	24.25	24.65	25.09	25.51	25.93	26.23	26.62	1.9%
Industrial	13.41	16.05	15.83	15.14	14.85	14.84	14.95	15.13	15.41	15.57	15.78	16.06	16.14	16.31	16.53	16.81	17.21	17.56	17.90	18.27	18.64	19.05	1.7%
Transportation	36.69	49.29	46.72	45.94	45.68	47.02	48.06	49.40	51.49	52.03	53.01	54.63	55.21	56.17	57.13	58.31	59.38	60.53	61.61	62.64	63.62	64.62	2.7%
Total Non-Renewable Expenditures	93.68	112.20	110.76	108.99	108.73	110.74	112.54	115.21	118.54	120.41	122.76	125.87	127.44	129.51	131.74	134.54	137.09	139.85	142.25	144.81	147.12	149.73	2.3%
Trans. Renew. Expenditures	0.03	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.13	0.14	0.15	0.15	0.16	0.17	0.17	0.18	0.18	9.7%
Total Expenditures	93.70	112.25	110.81	109.05	108.79	110.82	112.62	115.30	118.64	120.51	122.87	126.00	127.56	129.65	131.88	134.69	137.24	140.01	142.41	144.99	147.29	149.92	2.3%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). 1999 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000), and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 16. Energy Prices by Sector and Source (2 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**  
**East South Central**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Average Price to All Users 14/																							
Petroleum Products 2/	7.33	9.68	8.97	8.54	8.29	8.36	8.34	8.35	8.51	8.44	8.45	8.54	8.48	8.49	8.46	8.46	8.49	8.50	8.50	8.51	8.52	8.51	0.7%
Distillate Fuel	7.38	9.37	8.22	7.81	7.64	7.77	7.74	7.64	7.69	7.70	7.73	7.81	7.80	7.84	7.86	7.86	7.97	7.98	7.98	7.97	7.97	7.97	0.4%
Jet Fuel	4.74	6.55	5.49	5.08	4.95	5.12	5.11	5.02	5.09	5.12	5.17	5.27	5.29	5.35	5.39	5.41	5.56	5.65	5.68	5.72	5.78	5.79	1.0%
Liquefied Petroleum Gas	9.83	11.48	12.46	11.52	11.23	11.29	11.31	11.22	11.37	11.33	11.37	11.40	11.36	11.49	11.11	10.96	11.09	11.12	11.12	11.12	11.14	11.12	0.6%
Motor Gasoline 8/	9.00	11.77	10.98	10.51	10.21	10.22	10.22	10.31	10.56	10.42	10.38	10.49	10.38	10.35	10.31	10.32	10.24	10.24	10.24	10.23	10.23	10.21	0.6%
Residual Fuel	1.67	3.61	3.00	2.62	2.48	2.49	2.50	2.50	2.52	2.52	2.53	2.54	2.56	2.58	2.59	2.61	2.62	2.64	2.66	2.67	2.69	2.71	2.3%
Natural Gas	3.79	4.85	5.00	4.38	4.01	3.89	3.92	3.93	3.95	3.97	3.96	3.96	3.95	3.96	3.97	4.00	4.04	4.09	4.14	4.20	4.26	4.34	0.6%
Coal	1.22	1.21	1.18	1.17	1.15	1.13	1.12	1.11	1.09	1.08	1.06	1.05	1.04	1.03	1.03	1.01	1.00	1.00	0.99	0.98	0.97	0.96	-1.1%
Ethanol (E85) 11/	14.42	16.92	18.35	17.70	17.31	17.34	17.34	17.48	17.84	17.65	17.60	17.77	17.62	17.58	17.52	17.56	17.44	17.45	17.46	17.46	17.46	17.45	0.9%
Methanol (M85) 12/	10.38	13.45	14.42	13.46	12.98	13.37	13.36	13.30	13.44	13.36	13.37	14.22	14.21	14.59	14.59	14.61	14.97	14.82	14.81	15.01	15.02	15.02	1.8%
Electricity	16.51	17.05	16.87	16.51	16.42	16.25	16.12	16.25	16.14	16.17	16.17	16.19	16.11	15.97	15.94	16.01	15.98	16.02	16.03	16.10	16.07	16.06	-0.1%
Non-Renewable Energy Expenditures																							
by Sector (billion 1999 dollars)																							
Residential	8.90	9.49	9.77	9.63	9.64	9.70	9.78	10.03	10.16	10.35	10.46	10.62	10.70	10.81	10.89	11.03	11.17	11.35	11.46	11.63	11.77	11.94	1.4%
Commercial	5.46	5.89	6.04	6.02	6.09	6.16	6.27	6.40	6.51	6.64	6.77	6.91	7.01	7.08	7.20	7.36	7.47	7.60	7.71	7.83	7.92	8.00	1.8%
Industrial	8.62	10.34	10.22	9.81	9.65	9.65	9.72	9.84	10.01	10.13	10.25	10.44	10.49	10.60	10.73	10.92	11.17	11.39	11.61	11.86	12.08	12.33	1.7%
Transportation	14.74	19.39	18.26	17.89	17.74	18.18	18.49	18.88	19.56	19.67	19.93	20.42	20.52	20.75	20.97	21.27	21.54	21.83	22.08	22.31	22.52	22.75	2.1%
Total Non-Renewable Expenditures	37.72	45.11	44.29	43.35	43.12	43.69	44.26	45.16	46.24	46.79	47.42	48.40	48.72	49.23	49.79	50.58	51.34	52.17	52.86	53.63	54.29	55.02	1.8%
Trans. Renew. Expenditures	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	8.4%
Total Expenditures	37.73	45.12	44.31	43.37	43.14	43.71	44.29	45.18	46.27	46.82	47.45	48.43	48.76	49.27	49.83	50.62	51.39	52.21	52.91	53.68	54.34	55.07	1.8%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). 1999 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000), and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 17. Energy Prices by Sector and Source (2 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**  
**West South Central**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Average Price to All Users 14/																							
Petroleum Products 2/	6.94	8.38	8.08	7.54	7.30	7.37	7.38	7.34	7.48	7.44	7.47	7.54	7.50	7.55	7.45	7.41	7.50	7.52	7.53	7.55	7.56	7.56	0.4%
Distillate Fuel	6.92	9.38	8.28	7.88	7.71	7.85	7.81	7.71	7.76	7.77	7.81	7.89	7.89	7.92	7.94	7.94	8.06	8.06	8.06	8.05	8.05	8.05	0.7%
Jet Fuel	4.16	6.07	5.24	4.84	4.70	4.87	4.86	4.78	4.85	4.87	4.92	5.02	5.04	5.10	5.13	5.15	5.30	5.38	5.40	5.44	5.50	5.51	1.3%
Liquefied Petroleum Gas	8.51	7.68	8.39	7.45	7.16	7.22	7.25	7.16	7.32	7.28	7.34	7.38	7.34	7.48	7.10	6.95	7.08	7.11	7.11	7.12	7.14	7.13	-0.8%
Motor Gasoline 8/	8.89	11.66	10.99	10.54	10.25	10.27	10.26	10.37	10.61	10.45	10.42	10.52	10.42	10.40	10.36	10.37	10.31	10.31	10.31	10.31	10.30	10.29	0.7%
Residual Fuel	1.82	3.66	3.27	2.84	2.68	2.70	2.71	2.73	2.74	2.75	2.77	2.79	2.80	2.82	2.83	2.85	2.86	2.88	2.90	2.91	2.93	2.95	2.3%
Natural Gas	2.83	4.21	4.27	3.71	3.40	3.30	3.34	3.37	3.42	3.47	3.48	3.51	3.53	3.55	3.58	3.62	3.66	3.72	3.77	3.83	3.90	3.98	1.6%
Coal	1.17	1.17	1.16	1.15	1.14	1.12	1.11	1.10	1.09	1.07	1.05	1.05	1.04	1.03	1.02	1.01	1.01	1.00	1.00	0.99	0.98	0.97	-0.9%
Ethanol (E85) 11/	14.42	16.92	19.32	18.60	19.44	19.40	19.52	19.44	19.38	19.33	19.24	19.35	19.38	19.43	19.48	19.54	19.59	19.67	17.58	17.57	17.58	17.57	0.9%
Methanol (M85) 12/	10.38	13.45	14.87	13.92	13.44	13.83	13.81	13.75	13.89	13.81	13.82	14.68	14.66	15.04	15.05	15.07	15.43	15.28	15.27	15.47	15.47	15.47	1.9%
Electricity	16.79	17.52	17.31	16.81	16.67	16.91	16.53	16.43	16.30	16.02	15.72	15.60	15.51	15.49	15.49	15.61	15.82	16.04	16.27	16.50	16.60	16.79	0.0%
Non-Renewable Energy Expenditures																							
by Sector (billion 1999 dollars)																							
Residential	14.42	15.00	15.55	15.28	15.48	15.98	16.04	16.49	16.98	17.22	17.33	17.67	17.94	18.33	18.64	19.07	19.58	20.16	20.65	21.21	21.67	22.28	2.1%
Commercial	10.01	11.27	11.54	11.47	11.52	11.82	11.86	11.95	11.98	12.01	12.03	12.17	12.30	12.49	12.70	13.00	13.33	13.67	14.01	14.33	14.54	14.81	1.9%
Industrial	33.64	39.74	40.75	37.20	35.93	36.17	36.53	36.61	37.50	37.89	38.44	39.10	39.30	40.15	40.00	40.39	41.76	42.68	43.64	44.61	45.58	46.60	1.6%
Transportation	26.96	37.18	35.07	34.25	34.05	35.12	35.85	36.68	38.10	38.52	39.26	40.43	40.91	41.65	42.36	43.17	44.12	45.01	45.79	46.55	47.29	48.02	2.8%
Total Non-Renewable Expenditures	85.02	103.18	102.91	98.21	96.98	99.08	100.27	101.73	104.57	105.65	107.05	109.36	110.45	112.62	113.70	115.63	118.80	121.51	124.08	126.69	129.08	131.70	2.1%
Trans. Renew. Expenditures	0.02	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.09	0.09	8.7%
Total Expenditures	85.04	103.21	102.93	98.24	97.02	99.13	100.32	101.79	104.63	105.71	107.12	109.43	110.52	112.69	113.78	115.71	118.89	121.60	124.16	126.78	129.16	131.79	2.1%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). 1999 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000), and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 18. Energy Prices by Sector and Source (2 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**  
**Mountain**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Average Price to All Users 14/																							
Petroleum Products 2/	8.36	10.44	9.98	9.57	9.33	9.39	9.38	9.39	9.55	9.48	9.48	9.57	9.51	9.51	9.48	9.47	9.49	9.50	9.50	9.50	9.51	9.51	0.6%
Distillate Fuel	7.61	9.79	8.85	8.46	8.31	8.44	8.41	8.31	8.37	8.38	8.42	8.51	8.50	8.55	8.57	8.58	8.70	8.72	8.72	8.73	8.74	8.75	0.7%
Jet Fuel	5.33	7.12	6.22	5.82	5.69	5.86	5.85	5.76	5.83	5.86	5.91	5.93	5.87	5.86	5.84	5.81	5.92	5.96	5.95	5.96	5.99	5.98	0.5%
Liquefied Petroleum Gas	8.47	10.13	11.15	10.22	9.94	10.01	10.04	9.95	10.11	10.07	10.12	10.15	10.11	10.24	9.86	9.71	9.84	9.86	9.87	9.87	9.89	9.88	0.7%
Motor Gasoline 8/	10.18	12.39	12.02	11.56	11.26	11.28	11.27	11.37	11.62	11.47	11.43	11.54	11.43	11.41	11.37	11.38	11.30	11.30	11.30	11.30	11.29	11.28	0.5%
Residual Fuel	2.81	4.37	4.13	3.35	3.18	3.21	3.20	3.20	3.19	3.20	3.22	3.23	3.25	3.26	3.27	3.29	3.30	3.32	3.34	3.35	3.37	3.38	0.9%
Natural Gas	3.99	5.06	5.31	4.80	4.60	4.58	4.71	4.84	4.91	4.94	4.97	5.05	5.12	5.15	5.17	5.18	5.21	5.26	5.28	5.33	5.39	5.46	1.5%
Coal	1.05	1.03	1.02	1.00	0.99	0.97	0.95	0.93	0.88	0.85	0.82	0.80	0.79	0.78	0.77	0.77	0.76	0.76	0.75	0.74	0.73	0.72	-1.8%
Ethanol (E85) 11/	14.42	16.92	19.23	18.44	19.25	19.21	19.33	19.26	19.20	19.15	19.06	19.18	19.22	19.27	19.31	19.38	19.44	19.52	19.60	19.69	19.78	19.87	1.5%
Methanol (M85) 12/	10.38	13.45	13.97	13.02	12.54	12.92	12.91	12.85	12.99	12.91	12.92	13.78	13.76	14.14	14.14	14.16	14.53	14.38	14.36	14.56	14.57	14.57	1.6%
Electricity	17.35	17.34	17.21	16.96	16.78	17.58	17.59	17.64	17.47	17.43	17.34	17.28	17.20	17.15	17.22	17.42	17.36	17.49	17.38	17.36	17.30	17.22	0.0%
Non-Renewable Energy Expenditures																							
by Sector (billion 1999 dollars)																							
Residential	7.07	7.50	7.96	7.97	8.07	8.56	8.79	9.06	9.25	9.49	9.65	9.85	9.98	10.15	10.28	10.48	10.63	10.86	10.97	11.16	11.35	11.59	2.4%
Commercial	5.64	6.00	6.26	6.35	6.47	6.86	7.07	7.29	7.43	7.60	7.74	7.91	8.07	8.23	8.43	8.68	8.82	9.05	9.18	9.33	9.48	9.61	2.6%
Industrial	5.37	6.35	6.31	6.12	6.03	6.21	6.32	6.44	6.57	6.62	6.69	6.82	6.90	7.01	7.13	7.30	7.49	7.69	7.82	7.99	8.17	8.33	2.1%
Transportation	15.20	19.03	18.87	18.88	19.04	19.76	20.32	20.95	21.86	22.21	22.70	23.40	23.66	24.07	24.51	25.07	25.67	26.30	26.92	27.56	28.25	28.98	3.1%
Total Non-Renewable Expenditures	33.29	38.88	39.39	39.32	39.60	41.38	42.50	43.74	45.12	45.91	46.79	47.98	48.61	49.46	50.35	51.53	52.61	53.90	54.88	56.04	57.24	58.51	2.7%
Trans. Renew. Expenditures	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	10.4%
Total Expenditures	33.30	38.90	39.40	39.34	39.63	41.41	42.53	43.77	45.15	45.95	46.83	48.03	48.66	49.51	50.40	51.58	52.67	53.96	54.94	56.11	57.31	58.58	2.7%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). 1999 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000), and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 19. Energy Prices by Sector and Source (2 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**  
**Pacific**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Average Price to All Users 14/																							
Petroleum Products 2/	8.19	9.91	9.32	8.86	8.87	8.90	9.01	9.25	9.26	9.16	9.18	9.24	9.19	9.19	9.32	9.30	9.26	9.26	9.17	9.06	9.14	0.5%	
Distillate Fuel	8.61	10.66	9.59	9.15	9.06	9.12	9.15	9.22	9.22	9.17	9.20	9.27	9.30	9.32	9.33	9.29	9.30	9.31	9.32	9.24	9.13	9.20	0.3%
Jet Fuel	5.09	6.84	5.70	5.26	5.26	5.29	5.48	5.66	5.73	5.76	5.81	5.87	5.86	5.89	5.97	6.23	6.31	6.31	6.31	6.30	6.30	6.30	1.0%
Liquefied Petroleum Gas	10.42	13.34	13.31	13.04	13.50	13.58	13.62	13.71	14.27	14.50	14.56	14.57	14.51	14.51	14.52	14.45	14.80	14.76	14.77	14.80	14.92	14.92	1.7%
Motor Gasoline 8/	10.87	12.53	11.89	11.37	11.56	11.60	11.77	12.25	12.35	12.16	12.17	12.26	12.16	12.15	12.15	12.34	12.28	12.21	12.21	12.03	11.84	11.98	0.5%
Residual Fuel	3.24	4.01	4.20	3.83	3.67	3.70	3.72	3.73	3.73	3.74	3.76	3.78	3.79	3.81	3.83	3.84	3.86	3.88	3.90	3.91	3.93	3.94	0.9%
Natural Gas	3.82	4.93	5.14	4.78	4.53	4.43	4.36	4.30	4.32	4.31	4.29	4.29	4.30	4.29	4.27	4.26	4.26	4.26	4.26	4.27	4.30	4.35	0.6%
Coal	1.52	1.51	1.51	1.50	1.49	1.48	1.47	1.46	1.46	1.45	1.43	1.43	1.42	1.42	1.41	1.40	1.39	1.38	1.37	1.36	1.35	1.34	-0.6%
Ethanol (E85) 11/	14.42	16.92	17.92	17.36	19.03	18.99	19.14	19.16	19.05	18.95	18.88	19.02	19.08	19.16	19.22	19.38	19.44	19.52	19.60	19.67	19.70	19.86	1.5%
Methanol (M85) 12/	10.38	13.45	13.88	13.09	12.41	12.44	12.48	12.63	12.64	12.56	12.59	12.65	12.67	12.72	12.73	12.86	12.86	12.87	12.89	12.87	12.80	12.88	1.0%
Electricity	21.64	23.15	22.63	21.68	21.22	20.84	19.56	18.95	17.80	17.65	17.68	17.42	17.40	17.25	17.29	17.46	17.42	17.39	17.66	17.51	17.42	17.61	-1.0%
Non-Renewable Energy Expenditures																							
by Sector (billion 1999 dollars)																							
Residential	16.09	17.07	17.64	17.36	17.57	17.79	17.59	17.74	17.69	18.20	18.59	18.92	19.21	19.49	19.72	20.07	20.33	20.63	20.94	21.15	21.40	21.83	1.5%
Commercial	13.79	15.49	15.81	15.61	15.52	15.54	15.02	14.91	14.40	14.48	14.72	14.76	15.02	15.14	15.46	15.86	16.05	16.26	16.73	16.78	16.87	17.24	1.1%
Industrial	10.06	12.27	12.33	11.77	11.36	11.30	10.96	10.83	10.33	10.28	10.41	10.47	10.60	10.69	10.88	11.14	11.32	11.51	11.88	12.04	12.24	12.65	1.1%
Transportation	37.48	45.37	43.14	41.87	42.96	43.94	45.50	47.96	49.24	49.64	50.68	51.96	52.56	53.46	54.51	56.40	57.36	58.10	58.98	59.16	59.22	60.54	2.3%
Total Non-Renewable Expenditures	77.41	90.21	88.93	86.61	87.41	88.58	89.07	91.44	91.66	92.60	94.39	96.12	97.39	98.79	100.57	103.46	105.07	106.50	108.52	109.14	109.74	112.25	1.8%
Trans. Renew. Expenditures	0.02	0.04	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.14	9.1%
Total Expenditures	77.43	90.25	88.96	86.66	87.46	88.64	89.13	91.51	91.74	92.69	94.48	96.21	97.49	98.89	100.68	103.57	105.19	106.62	108.65	109.27	109.87	112.39	1.8%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). 1999 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000), and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 20. Energy Prices by Sector and Source (2 of 2)**  
**(1999 Dollars per Million Btu, Unless Otherwise Noted)**  
**United States**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Average Price to All Users 14/																							
Petroleum Products 2/	7.44	9.55	8.98	8.55	8.34	8.41	8.43	8.47	8.61	8.54	8.56	8.64	8.59	8.60	8.57	8.58	8.61	8.61	8.62	8.61	8.60	8.61	0.7%
Distillate Fuel	7.27	9.61	8.51	8.11	7.95	8.08	8.06	7.99	8.05	8.05	8.10	8.18	8.18	8.22	8.25	8.25	8.36	8.37	8.38	8.37	8.36	8.38	0.7%
Jet Fuel	4.70	6.57	5.58	5.17	5.07	5.20	5.25	5.24	5.31	5.33	5.39	5.47	5.46	5.51	5.55	5.63	5.75	5.80	5.82	5.84	5.87	5.88	1.1%
Liquefied Petroleum Gas	8.84	9.13	9.97	9.04	8.76	8.82	8.84	8.74	8.85	8.81	8.86	8.88	8.84	8.96	8.58	8.45	8.58	8.60	8.60	8.62	8.63	8.62	-0.1%
Motor Gasoline 8/	9.45	11.96	11.29	10.82	10.60	10.62	10.64	10.80	11.02	10.86	10.83	10.93	10.83	10.81	10.77	10.81	10.75	10.73	10.73	10.70	10.67	10.68	0.6%
Residual Fuel	2.48	3.93	3.78	3.38	3.23	3.26	3.26	3.27	3.28	3.29	3.31	3.33	3.34	3.36	3.38	3.39	3.41	3.43	3.44	3.46	3.48	3.49	1.6%
Natural Gas	4.05	5.02	5.21	4.68	4.36	4.23	4.24	4.26	4.27	4.28	4.27	4.27	4.26	4.26	4.26	4.27	4.28	4.31	4.34	4.38	4.43	4.50	0.5%
Coal	1.23	1.22	1.20	1.20	1.18	1.17	1.15	1.14	1.12	1.10	1.08	1.07	1.06	1.06	1.05	1.04	1.03	1.03	1.02	1.02	1.01	1.00	-1.0%
Ethanol (E85) 11/	14.42	16.92	18.87	18.17	19.04	19.00	19.12	19.08	19.03	18.97	18.88	19.00	19.03	19.07	19.12	19.19	19.24	19.31	19.14	19.21	19.28	19.36	1.4%
Methanol (M85) 12/	10.38	13.45	14.24	13.34	12.85	13.12	13.12	13.11	13.21	13.14	13.15	13.74	13.73	14.05	14.06	14.09	14.33	14.23	14.23	14.42	14.42	14.43	1.6%
Electricity	19.50	19.93	19.78	19.13	18.86	18.71	18.15	17.95	17.54	17.32	17.21	17.20	17.13	17.05	17.08	17.23	17.30	17.38	17.48	17.52	17.50	17.59	-0.5%
Non-Renewable Energy Expenditures																							
by Sector (billion 1999 dollars)																							
Residential	134.60	144.05	149.60	146.26	145.98	147.64	147.79	150.23	151.69	153.92	155.49	157.93	159.44	161.61	163.28	165.87	168.52	171.46	173.53	176.07	178.36	181.70	1.4%
Commercial	99.50	107.09	110.75	109.13	108.93	109.67	108.85	109.04	108.59	108.80	109.94	111.72	113.11	114.44	116.38	118.89	120.89	122.89	124.96	126.49	127.62	129.51	1.3%
Industrial	110.90	132.12	132.34	124.84	121.49	121.58	121.44	121.69	122.69	123.21	124.46	126.53	127.23	129.04	130.15	132.35	135.93	138.73	141.73	144.60	147.46	150.97	1.5%
Transportation	212.63	276.81	263.83	258.52	258.10	264.86	270.48	278.17	287.92	289.96	294.58	302.06	304.37	308.54	312.81	318.74	323.87	328.60	333.14	336.81	340.21	344.96	2.3%
Total Non-Renewable Expenditures	557.64	660.07	656.53	638.74	634.50	643.76	648.57	659.14	670.89	675.89	684.48	698.23	704.15	713.63	722.63	735.85	749.21	761.67	773.36	783.97	793.65	807.14	1.8%
Trans. Renew. Expenditures	0.14	0.26	0.25	0.29	0.33	0.37	0.42	0.46	0.51	0.54	0.57	0.61	0.64	0.67	0.69	0.73	0.75	0.77	0.80	0.82	0.84	0.86	9.0%
Total Expenditures	557.78	660.32	656.78	639.03	634.83	644.13	648.99	659.60	671.40	676.43	685.05	698.85	704.79	714.30	723.32	736.58	749.96	762.45	774.15	784.79	794.49	808.00	1.8%

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/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

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

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

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

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

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ 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 1999 are model results and may differ slightly from official EIA data reports.

Sources: 1999 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380(99/03-2000/04) (Washington, DC, 1999-2000). 1999 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1997, DOE/EIA-0376(97) (Washington, DC, July 2000). 1999 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1999 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1999 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 coal prices based on EIA, Quarterly Coal Report, DOE/EIA-0121(2000/1Q) (Washington, DC, August 2000), and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. 1999 electricity prices for commercial, industrial, and transportation: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 21. Residential Sector Supplement Table (2 of 2)**

Equipment Stock Data	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Stock Average Equipment Efficiency																							
<b>Main Space Heaters</b>																							
Electric Heat Pumps (HSPF)	7.02	7.09	7.15	7.19	7.21	7.23	7.24	7.25	7.25	7.25	7.25	7.26	7.27	7.28	7.29	7.31	7.34	7.36	7.39	7.41	7.43	7.44	0.3%
Natural Gas Heat Pumps (GCOP)	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.41	1.42	1.43	1.44	1.45	1.45	0.2%
Geothermal Heat Pumps (COP)	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.41	3.42	3.43	3.44	3.45	3.46	0.1%
Natural Gas Furnace (AFUE)	0.75	0.76	0.77	0.77	0.78	0.79	0.79	0.80	0.80	0.81	0.81	0.81	0.82	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.5%
Distillate Furnace (AFUE)	0.78	0.79	0.79	0.80	0.80	0.81	0.81	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.2%
<b>Space Cooling</b>																							
Electric Heat Pumps (SEER)	10.41	10.55	10.67	10.77	10.84	10.89	10.95	10.99	11.03	11.05	11.08	11.11	11.14	11.17	11.20	11.23	11.29	11.34	11.38	11.42	11.45	11.49	0.5%
Natural Gas Heat Pumps (GCOP)	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.0%
Geothermal Heat Pumps (EER)	13.50	13.50	13.50	13.50	13.50	13.50	13.91	14.16	14.45	14.75	15.08	15.44	15.81	16.20	16.61	17.00	16.89	16.75	16.57	16.37	16.15	15.89	0.8%
Central Air Conditioners (SEER)	10.21	10.32	10.43	10.51	10.58	10.64	10.71	10.77	10.81	10.85	10.89	10.93	10.96	10.99	11.02	11.04	11.10	11.15	11.20	11.25	11.29	11.33	0.5%
Room Air Conditioners (EER)	8.62	8.70	8.81	8.92	9.03	9.12	9.21	9.29	9.36	9.42	9.47	9.52	9.56	9.61	9.66	9.69	9.73	9.75	9.78	9.79	9.80	9.80	0.6%
<b>Water Heaters</b>																							
Electric (EF)	0.87	0.87	0.87	0.87	0.87	0.87	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.89	0.1%
Natural Gas (EF)	0.54	0.54	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.3%
Distillate (EF)	0.53	0.53	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.0%
Liquefied Petroleum Gas (EF)	0.54	0.55	0.55	0.55	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.59	0.59	0.59	0.59	0.60	0.60	0.5%
<b>Other Appliances (kilowatthours per year) 2/</b>																							
Refrigerators	907.65	880.84	857.34	822.10	789.18	758.84	730.96	705.39	681.55	659.13	637.88	618.51	600.99	585.20	571.25	558.95	548.28	539.07	531.24	524.56	518.99	514.08	-2.7%
Freezers	653.95	631.19	609.74	586.52	564.84	544.83	527.59	513.68	502.18	492.20	483.65	476.05	469.55	464.01	458.98	454.72	451.17	448.28	445.97	444.17	442.74	441.69	-1.9%
<b>Building Shell Efficiency Index</b>																							
<b>Space Heating</b>																							
Pre-1998 Homes	0.95	0.94	0.94	0.93	0.93	0.93	0.92	0.92	0.92	0.92	0.92	0.91	0.91	0.91	0.90	0.90	0.90	0.90	0.90	0.89	0.89	0.89	-0.3%
New Construction	0.80	0.81	0.81	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.79	0.79	0.79	-0.1%
All Homes	0.94	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90	0.90	0.89	0.89	0.89	0.88	0.88	0.88	0.87	0.87	0.87	0.86	0.86	0.86	-0.4%
<b>Space Cooling</b>																							
Pre-1998 Homes	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.93	-0.1%
New Construction	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.90	0.90	0.90	0.0%
All Homes	0.95	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.92	0.92	-0.1%

1/ Does not include microwave ovens or outdoor grills.  
 2/ Kilowatthours per year to run the appliance under certain test conditions as specified by the Department of Energy.  
 HSPF = Heating Seasonal Performance Factor: The total heating output of a heat pump in Btu during its normal annual usage period for heating divided by total electric input in watt-hours during the same period.  
 COP = Coefficient of Performance: Energy efficiency rating measure determined, under specific testing conditions, by dividing the energy output by the energy input.  
 GCOP = Gas Coefficient of Performance: Energy efficiency rating measure determined, under specific testing conditions, by dividing the energy output by the energy input.  
 AFUE = Annual Fuel Utilization Efficiency: Efficiency rating based on average usage, including on and off cycling, as set out in the standardized Department of Energy test procedures.  
 SEER = Seasonal Energy Efficiency Ratio: The total cooling of a central unitary air conditioner or a unitary heat pump in Btu during its normal annual usage period for cooling divided by the total electric energy input in watt-hours during the same period.  
 EER = Energy Efficiency Ratio: A ratio calculated by dividing the cooling capacity in Btu per hour by the power input in watts at any given set of rating conditions, expressed in Btu per hour per watt.  
 EF = Efficiency Factor: Efficiency (measured in Btu out / Btu in) of water heaters under certain test conditions specified by the Department of Energy.  
 Btu = British thermal unit.  
 N/A = Not applicable.  
 Note: Totals may not equal sum of components due to independent rounding.  
 Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 22. Commercial Sector Supplement Table (1 of 2)**

Indicators	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Commercial Building Delivered																							
Energy Consumption (quadrillion Btu) 1/																							
Assembly	0.52	0.51	0.54	0.55	0.57	0.57	0.58	0.59	0.59	0.60	0.60	0.61	0.62	0.62	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.65	1.1%
Education	0.69	0.68	0.72	0.74	0.76	0.77	0.79	0.80	0.81	0.82	0.83	0.84	0.86	0.87	0.88	0.89	0.89	0.90	0.91	0.91	0.91	0.92	1.3%
Food Sales	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	1.2%
Food Service	0.38	0.38	0.38	0.40	0.40	0.41	0.42	0.42	0.43	0.44	0.44	0.45	0.46	0.46	0.47	0.47	0.48	0.48	0.48	0.49	0.49	0.49	1.3%
Health Care	0.53	0.53	0.55	0.58	0.60	0.61	0.62	0.64	0.65	0.66	0.68	0.69	0.70	0.71	0.72	0.74	0.75	0.76	0.76	0.77	0.78	0.79	1.9%
Lodging	0.52	0.53	0.54	0.56	0.58	0.59	0.60	0.61	0.63	0.64	0.65	0.66	0.67	0.68	0.70	0.71	0.72	0.73	0.74	0.74	0.75	0.75	1.7%
Office - Large	0.67	0.68	0.71	0.73	0.75	0.77	0.79	0.80	0.82	0.84	0.86	0.87	0.89	0.90	0.92	0.93	0.94	0.95	0.97	0.98	0.99	0.99	1.9%
Office - Small	0.53	0.53	0.56	0.58	0.60	0.61	0.63	0.64	0.66	0.67	0.69	0.70	0.71	0.73	0.74	0.75	0.75	0.76	0.77	0.77	0.78	0.78	1.9%
Mercantile/Service	1.10	1.11	1.17	1.21	1.24	1.27	1.29	1.31	1.33	1.35	1.37	1.39	1.41	1.42	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.50	1.5%
Warehouse	0.37	0.37	0.39	0.41	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.54	0.55	0.56	0.56	0.57	0.57	2.2%
Other	0.45	0.46	0.48	0.50	0.52	0.54	0.55	0.57	0.58	0.60	0.61	0.62	0.64	0.65	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	2.4%
Total	5.91	5.94	6.20	6.43	6.61	6.74	6.88	7.00	7.14	7.27	7.39	7.51	7.63	7.76	7.87	7.96	8.05	8.13	8.21	8.27	8.34	8.38	1.7%
Commercial Building Floorspace (billion square feet)																							
Assembly	7.05	7.18	7.31	7.43	7.53	7.60	7.68	7.76	7.82	7.89	7.96	8.03	8.09	8.15	8.21	8.27	8.32	8.36	8.40	8.43	8.46	8.49	0.9%
Education	8.28	8.46	8.68	8.91	9.13	9.32	9.49	9.66	9.83	10.00	10.17	10.34	10.51	10.68	10.82	10.95	11.07	11.17	11.25	11.33	11.41	11.47	1.6%
Food Sales	0.69	0.71	0.72	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.85	0.86	0.86	0.87	0.87	0.87	0.88	1.1%
Food Service	1.45	1.47	1.50	1.53	1.55	1.56	1.58	1.60	1.62	1.64	1.65	1.67	1.69	1.70	1.71	1.72	1.73	1.74	1.74	1.75	1.75	1.75	0.9%
Health Care	1.78	1.82	1.87	1.92	1.96	1.99	2.02	2.05	2.08	2.11	2.14	2.17	2.19	2.21	2.24	2.26	2.28	2.30	2.32	2.34	2.36	2.37	1.4%
Lodging	3.94	4.07	4.19	4.31	4.40	4.48	4.56	4.64	4.72	4.79	4.87	4.94	5.02	5.09	5.16	5.22	5.28	5.34	5.40	5.45	5.49	5.52	1.6%
Office - Large	5.93	6.05	6.16	6.27	6.36	6.43	6.50	6.57	6.64	6.70	6.76	6.82	6.88	6.93	6.99	7.03	7.07	7.11	7.15	7.18	7.20	7.21	0.9%
Office - Small	5.61	5.72	5.84	5.95	6.04	6.11	6.18	6.25	6.32	6.38	6.45	6.51	6.57	6.62	6.68	6.73	6.77	6.81	6.85	6.88	6.90	6.92	1.0%
Mercantile/Service	13.64	13.99	14.37	14.69	14.93	15.14	15.34	15.55	15.76	15.97	16.17	16.37	16.55	16.72	16.88	17.03	17.16	17.28	17.39	17.48	17.56	17.63	1.2%
Warehouse	9.22	9.48	9.76	10.03	10.26	10.45	10.63	10.80	10.97	11.12	11.25	11.38	11.50	11.61	11.71	11.80	11.89	11.96	12.03	12.09	12.14	12.18	1.3%
Other	5.21	5.36	5.51	5.69	5.84	5.98	6.10	6.22	6.35	6.47	6.59	6.71	6.82	6.92	7.02	7.11	7.19	7.27	7.34	7.40	7.46	7.51	1.8%
Total	62.80	64.31	65.93	67.46	68.73	69.82	70.85	71.88	72.90	73.88	74.83	75.75	76.64	77.48	78.26	78.97	79.62	80.21	80.74	81.20	81.60	81.94	1.3%
Stock Average Equipment Efficiency 2/																							
Space Heating																							
Electricity	1.09	1.09	1.10	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	0.2%
Natural Gas	0.75	0.75	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.3%
Distillate	0.75	0.75	0.75	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.1%
Space Cooling																							
Electricity	2.54	2.58	2.63	2.68	2.72	2.76	2.80	2.84	2.87	2.91	2.94	2.97	3.00	3.03	3.06	3.08	3.11	3.13	3.16	3.18	3.20	3.22	1.1%
Natural Gas	0.91	0.94	0.96	0.98	0.99	1.00	1.02	1.04	1.05	1.07	1.08	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.16	1.17	1.18	1.19	1.3%

**Table 22. Commercial Sector Supplement Table (2 of 2)**

Indicators	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Water Heating																							
Electricity	0.94	0.95	0.95	0.95	0.95	0.95	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.97	0.97	0.97	0.97	0.97	0.1%
Natural Gas	0.73	0.74	0.75	0.76	0.76	0.77	0.77	0.78	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79	0.80	0.80	0.80	0.80	0.80	0.4%
Distillate	0.75	0.75	0.75	0.75	0.76	0.76	0.76	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.2%
Ventilation (cubic feet per minute per Btu) 3/																							
Electricity	0.39	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.6%
Cooking																							
Electricity	0.70	0.71	0.71	0.72	0.72	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.75	0.75	0.75	0.3%
Natural Gas	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.1%
Lighting Efficacy 4/ (efficacy in lumens per watt)																							
Electricity	48.46	49.02	49.55	50.01	50.44	50.85	51.15	51.45	51.67	51.81	51.90	51.98	52.06	52.11	52.16	52.27	52.57	52.86	53.19	53.54	53.93	54.38	0.6%
Refrigeration																							
Electricity	1.31	1.32	1.32	1.33	1.33	1.33	1.33	1.34	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	0.1%

1/ Excludes commercial sector energy consumption (from uses such as street lights) that is not attributable to buildings.

2/ Unless noted otherwise, the efficiency measures are in the terms of Btu of energy output divided by Btu of energy input.

3/ The efficiency measure for ventilation is in terms of cubic feet per minute (cfm) of ventilation air delivered divided by Btu of energy input.

4/ A measurement of the ratio of light produced by a light source to the electrical power used to produce that quality of light, expressed in lumens per watt.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 23. Industrial Sector Macroeconomic Indicators (1 of 2)**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
GDP (billion 1996 dollars)	8875.8	9338.4	9696.5	10036.4	10344.6	10641.8	10959.7	11273.3	11604.6	11950.9	12300.5	12666.7	13034.2	13424.8	13820.9	14231.7	14635.2	15024.7	15410.6	15774.9	16141.4	16514.9	3.0%
Non-Agricultural Employment (million)	128.5	130.4	131.9	134.0	136.1	137.8	139.7	142.0	144.1	146.1	147.9	149.7	151.1	152.3	153.6	155.3	157.3	159.1	160.8	162.2	163.6	165.1	1.2%
Value of Gross Output (billion 1992 dollars)																							
Nonmanufacturing Sector																							
Agricultural	279.0	284.8	288.0	290.9	292.9	295.2	298.6	303.0	306.5	309.9	313.2	317.2	321.6	324.7	329.2	333.9	338.9	344.2	348.9	353.5	357.6	362.2	1.3%
Mining	163.2	163.6	165.9	170.8	173.7	174.2	174.7	175.3	176.5	178.2	179.9	182.6	184.1	186.6	189.4	192.2	195.6	198.7	201.6	204.1	205.7	207.9	1.2%
Construction	530.1	544.8	546.5	561.8	572.6	584.1	596.9	612.8	628.1	640.7	651.4	662.6	673.0	682.5	693.4	710.5	730.3	747.4	760.9	773.3	786.7	800.1	2.0%
Manufacturing Sector																							
Food and Kindred Products	465.2	471.2	477.4	486.3	491.6	496.2	501.7	508.0	514.1	519.7	525.0	531.1	537.6	543.8	550.7	558.5	566.9	575.1	583.3	590.7	597.8	605.2	1.3%
Tobacco Products	44.5	45.3	45.4	45.9	46.1	46.3	46.3	46.4	46.5	46.4	46.4	46.4	46.4	46.4	46.5	46.5	46.5	46.5	46.5	46.5	46.4	46.5	0.2%
Textile Mill Products	63.0	63.3	63.8	63.6	64.0	64.1	64.5	65.2	65.5	65.9	66.1	66.6	67.1	67.4	67.8	68.2	68.7	69.0	69.2	69.5	69.9	70.3	0.5%
Apparel and Other Textile Products	86.0	85.7	84.2	83.6	82.8	82.4	82.6	82.2	81.0	80.2	78.9	78.5	78.0	77.0	76.9	76.5	76.0	76.5	76.5	76.3	76.3	76.5	-0.6%
Lumber and Wood Products	103.1	105.8	106.8	108.0	109.7	110.6	111.8	113.5	115.0	116.2	117.5	118.9	120.8	121.7	122.8	124.6	126.1	128.1	129.5	130.4	131.6	132.9	1.2%
Furniture and Fixtures	55.6	58.5	59.4	61.0	62.7	63.6	65.1	66.2	67.5	68.7	69.6	70.9	71.9	72.8	74.5	76.7	79.0	81.0	82.8	84.2	85.7	87.9	2.2%
Paper and Allied Products	150.5	154.1	157.8	161.6	164.8	167.5	170.6	173.9	177.2	180.3	183.1	186.1	188.4	191.0	194.1	196.5	199.3	201.8	204.1	206.1	208.1	210.3	1.6%
Printing and Publishing	178.8	181.7	183.8	187.7	190.4	192.7	196.1	199.7	203.3	206.6	209.4	212.8	215.2	217.6	220.8	224.5	228.9	233.0	236.6	240.2	243.7	247.7	1.6%
Chemical and Allied Products	347.1	358.0	367.4	378.4	389.0	397.0	406.0	415.5	425.6	434.9	444.2	454.4	462.9	472.9	483.9	495.4	507.7	520.4	534.0	547.6	562.3	577.9	2.5%
Bulk Chemicals	177.4	180.8	184.2	186.6	190.0	192.1	194.5	197.4	200.4	202.9	205.1	207.6	209.1	211.7	214.4	216.9	219.8	222.1	224.8	227.4	230.4	233.4	1.3%
Other Chemicals and Allied Products	169.7	177.2	183.2	191.8	199.0	204.9	211.5	218.1	225.2	232.0	239.1	246.8	253.8	261.2	269.5	278.4	287.9	298.3	309.2	320.2	331.9	344.5	3.4%
Petroleum and Coal Products	173.0	174.1	176.6	178.8	181.0	182.8	185.0	186.3	188.1	191.0	192.8	194.7	195.8	197.1	198.7	200.2	201.9	203.2	204.6	205.6	207.3	208.6	0.9%
Petroleum Refining	154.8	155.7	158.0	159.8	161.7	163.4	165.3	166.3	167.8	170.4	172.1	173.7	174.7	175.8	177.2	178.3	179.7	180.7	181.9	182.6	184.1	185.2	0.9%
Other Petroleum and Coal Products	18.1	18.5	18.6	19.0	19.3	19.4	19.7	20.0	20.3	20.5	20.8	21.0	21.1	21.3	21.5	21.9	22.2	22.5	22.8	23.0	23.2	23.4	1.2%
Rubber and Miscellaneous Plastic Proc	150.1	155.8	159.4	167.2	174.1	179.7	187.2	195.1	202.6	209.8	216.6	223.9	230.3	236.8	244.9	253.5	262.5	270.7	279.0	287.3	296.1	305.8	3.4%
Leather and Leather Products	7.0	6.4	5.9	5.6	5.2	4.6	4.2	4.0	3.5	3.2	3.0	2.7	2.4	2.4	2.2	2.1	2.2	2.3	2.2	2.1	2.1	2.2	-5.3%
Stone, Clay, and Glass Products	77.1	78.2	78.3	79.2	80.2	80.9	81.9	83.2	84.4	85.5	86.1	86.9	87.5	88.2	89.0	90.2	91.3	92.3	93.4	94.2	95.0	96.1	1.1%
Glass and Glass Products	20.9	21.2	21.3	21.6	22.0	22.2	22.5	22.9	23.3	23.7	24.0	24.2	24.4	24.7	25.0	25.3	25.7	26.0	26.3	26.5	26.9	27.2	1.3%
Cement, Hydraulic	5.2	5.2	5.2	5.2	5.3	5.3	5.3	5.4	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.7	5.8	5.8	5.9	5.9	6.0	6.0	0.8%
Other Stone, Clay, and Glass Product	51.1	51.8	51.8	52.3	53.0	53.4	54.1	54.9	55.7	56.3	56.6	57.1	57.5	57.8	58.3	59.2	59.8	60.5	61.2	61.8	62.1	62.8	1.0%

**Table 23. Industrial Sector Macroeconomic Indicators (2 of 2)**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Primary Metals Industry	163.9	166.8	169.3	173.1	175.4	176.9	179.5	181.8	184.3	185.9	187.4	189.8	191.0	193.5	195.3	197.5	198.9	200.0	201.5	202.6	204.1	205.6	1.1%
Blast Furnace and Basic Steel Product	67.8	69.9	71.4	73.5	74.6	75.4	76.9	77.7	79.0	79.6	80.1	81.4	81.8	83.3	83.9	84.9	85.1	85.7	86.4	86.7	87.4	88.3	1.3%
Aluminum	36.0	36.1	36.3	36.7	37.0	37.3	37.4	37.7	37.9	38.1	38.3	38.4	38.7	38.9	39.1	39.4	39.6	39.7	39.8	39.9	39.9	40.1	0.5%
Other Primary Metal Products	60.2	60.8	61.6	63.0	63.8	64.2	65.2	66.3	67.4	68.2	69.0	70.0	70.5	71.4	72.3	73.2	74.1	74.6	75.4	76.1	76.8	77.3	1.2%
Fabricated Metal Products	211.5	217.9	220.2	227.7	234.6	237.1	242.6	248.7	254.2	258.2	261.7	265.6	268.8	271.8	276.3	282.0	288.3	293.5	298.3	303.0	308.9	315.1	1.9%
Industrial Machinery and Equipment	389.0	411.3	422.1	450.0	466.6	482.9	509.7	541.6	566.9	594.8	618.3	646.7	675.1	702.4	731.0	761.8	796.0	829.8	860.3	893.4	927.6	963.2	4.4%
Electronic and Other Electric Equipment	421.6	436.7	456.3	499.0	530.2	559.5	597.6	644.3	684.3	727.1	769.4	813.1	851.3	895.5	937.6	979.4	1030.0	1077.5	1138.2	1203.5	1279.3	1349.7	5.7%
Transportation Equipment	457.8	469.7	460.4	479.3	497.0	499.4	520.1	538.4	556.7	572.8	587.7	605.4	621.3	635.3	659.3	683.1	706.4	724.0	742.0	759.7	780.2	806.2	2.7%
Instruments and Related Products	152.9	156.7	160.9	169.1	176.3	182.0	188.8	197.2	205.3	213.0	221.1	229.1	237.1	244.8	253.7	264.1	275.8	286.9	297.1	307.2	318.2	330.6	3.7%
Miscellaneous Manufacturing Industries	51.7	52.2	52.7	55.0	55.6	56.2	57.7	59.4	60.7	61.9	63.3	64.9	66.5	67.9	70.3	72.8	75.8	78.4	80.6	82.7	85.0	87.8	2.6%
Total Industrial Gross Output	4721.8	4842.8	4908.4	5083.7	5216.5	5315.7	5469.3	5641.6	5798.0	5950.9	6092.1	6251.2	6394.5	6539.9	6708.4	6890.9	7093.0	7280.3	7471.1	7663.7	7875.6	8096.3	2.6%

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999: Standard & Pooors DRI, Simulation T250200. Projections: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 24. Refining Industry Energy Consumption (1 of 1)**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
<b>Industry Output and Consumption 1/</b>																							
Industry Output (billion 1992 dollars)	154.83	155.66	157.96	159.79	161.72	163.38	165.25	166.26	167.84	170.42	172.07	173.74	174.71	175.76	177.18	178.35	179.71	180.70	181.87	182.56	184.07	185.19	0.9%
Energy Consumption (trillion Btu)																							
Residual Oil	37.1	14.7	11.9	12.5	37.4	37.5	37.5	37.8	37.9	37.8	38.1	38.2	38.2	38.4	38.7	39.0	39.3	39.4	39.6	39.8	39.8	40.0	0.4%
Distillate Oil	3.3	3.4	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Liquefied Petroleum Gas	14.9	15.2	49.2	47.7	40.3	39.2	36.2	26.4	0.0	0.0	0.0	0.0	0.0	0.0	1.6	14.5	15.0	18.7	23.7	33.9	36.0	38.8	4.7%
Petroleum Coke	580.6	591.7	577.2	584.0	590.8	594.7	614.1	641.4	670.0	674.9	686.1	697.6	706.2	704.9	742.3	758.1	772.5	784.0	785.7	790.6	790.2	791.6	1.5%
Still Gas	1414.1	1440.8	1500.0	1517.9	1512.1	1573.9	1579.4	1550.5	1574.9	1586.2	1603.7	1610.0	1612.3	1597.6	1619.6	1625.2	1631.6	1642.3	1642.5	1646.3	1672.5	1682.7	0.8%
Other Petroleum 2/	35.8	36.4	5.9	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	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Petroleum Subtotal	2085.8	2102.2	2144.2	2162.1	2180.5	2245.4	2267.2	2256.0	2282.8	2298.9	2327.9	2345.8	2356.8	2341.0	2402.2	2436.7	2458.4	2484.5	2491.5	2510.5	2538.6	2553.0	1.0%
Natural Gas	825.9	841.5	908.1	921.3	971.0	934.0	943.6	1015.5	1053.9	1064.1	1062.2	1059.7	1059.9	1074.2	1062.1	1039.9	1039.8	1024.6	1016.1	997.3	978.9	970.5	0.8%
Steam Coal	0.8	0.8	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Purchased Electricity	111.6	113.7	130.8	125.4	134.8	140.1	146.4	160.5	163.7	166.5	165.5	167.6	166.8	162.7	161.5	159.3	158.0	158.3	157.5	155.9	156.4	155.4	1.6%
Total	3024.1	3058.2	3183.1	3208.9	3286.4	3319.6	3357.2	3432.0	3500.5	3529.5	3555.6	3573.1	3583.4	3577.9	3625.9	3636.0	3656.2	3667.3	3665.1	3663.7	3674.0	3678.9	0.9%
Energy Consumption per Unit of Output (thousand Btu per 1992 dollar of output)																							
Residual Oil	0.24	0.09	0.08	0.08	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	-0.5%
Distillate Oil	0.02	0.02	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Liquefied Petroleum Gas	0.10	0.10	0.31	0.30	0.25	0.24	0.22	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.08	0.10	0.13	0.19	0.20	0.21	3.8%
Petroleum Coke	3.75	3.80	3.65	3.65	3.65	3.64	3.72	3.86	3.99	3.96	3.99	4.02	4.04	4.01	4.19	4.25	4.30	4.34	4.32	4.33	4.29	4.27	0.6%
Still Gas	9.13	9.26	9.50	9.50	9.35	9.63	9.56	9.33	9.38	9.31	9.32	9.27	9.23	9.09	9.14	9.11	9.08	9.09	9.03	9.02	9.09	9.09	0.0%
Other Petroleum 2/	0.23	0.23	0.04	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	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Petroleum Subtotal	13.47	13.51	13.57	13.53	13.48	13.74	13.72	13.57	13.60	13.49	13.53	13.50	13.49	13.32	13.56	13.66	13.68	13.75	13.70	13.75	13.79	13.79	0.1%
Natural Gas	5.33	5.41	5.75	5.77	6.00	5.72	5.71	6.11	6.28	6.24	6.17	6.10	6.07	6.11	5.99	5.83	5.79	5.67	5.59	5.46	5.32	5.24	-0.1%
Steam Coal	0.01	0.01	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Purchased Electricity	0.72	0.73	0.83	0.79	0.83	0.86	0.89	0.97	0.98	0.98	0.96	0.96	0.95	0.93	0.91	0.89	0.88	0.88	0.87	0.85	0.85	0.84	0.7%
Total	19.53	19.65	20.15	20.08	20.32	20.32	20.32	20.64	20.86	20.71	20.66	20.57	20.51	20.36	20.46	20.39	20.35	20.29	20.15	20.07	19.96	19.87	0.1%
Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent)	52.0	52.5	55.0	55.2	56.8	57.6	58.3	59.7	60.8	61.2	61.6	61.9	62.0	61.7	62.4	62.5	62.8	62.9	62.9	62.8	63.1	63.1	0.9%

1/ Fuel consumption includes consumption for cogeneration.

2/ Includes lubricants and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 are model results and may differ slightly from official EIA data reports.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 25. Food Industry Energy Consumption (1 of 1)**

																					1999-		
Industry Output and Consumption 1/	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Industry Output (billion 1992 dollars)	465.22	471.17	477.43	486.26	491.60	496.17	501.73	508.00	514.07	519.67	525.00	531.05	537.58	543.76	550.72	558.52	566.89	575.13	583.26	590.65	597.75	605.16	1.3%
Energy Consumption (trillion Btu)																							
Residual Oil	25.6	25.3	26.0	26.5	26.6	26.5	26.9	27.2	27.5	27.7	27.8	28.1	28.3	28.5	28.8	29.1	29.6	30.0	30.4	30.8	31.2	31.7	1.0%
Distillate Oil	23.8	23.3	25.0	25.0	24.9	24.7	24.9	25.3	25.4	25.6	25.6	25.8	26.0	26.1	26.3	26.6	26.7	27.1	27.4	27.8	28.1	28.5	0.9%
Liquefied Petroleum Gas	5.5	6.3	6.0	5.9	5.7	5.7	5.7	5.8	5.8	6.0	6.0	6.0	6.1	6.1	6.4	6.5	6.5	6.6	6.7	6.8	7.0	7.1	1.3%
Other Petroleum 2/	92.6	95.2	97.4	98.2	98.8	99.1	100.6	102.2	103.7	105.1	106.3	107.8	109.3	110.7	112.3	114.2	116.2	118.3	120.3	122.3	124.3	126.4	1.5%
Petroleum Subtotal	147.6	150.2	154.4	155.6	156.0	156.0	158.1	160.5	162.4	164.4	165.8	167.7	169.6	171.4	173.8	176.3	179.0	181.9	184.9	187.7	190.5	193.8	1.3%
Natural Gas	662.5	662.0	664.0	677.9	688.8	696.1	701.9	708.5	714.8	720.0	725.5	731.7	738.6	745.1	752.3	760.9	770.4	779.5	788.3	796.1	803.2	810.2	1.0%
Steam Coal	152.0	155.9	156.2	154.9	155.7	156.2	156.9	157.5	158.1	158.6	159.0	159.5	159.9	160.4	160.8	161.4	162.0	162.6	163.3	164.0	164.7	165.5	0.4%
Renewables	12.9	13.1	13.3	13.6	13.7	13.9	14.1	14.3	14.5	14.7	14.8	15.0	15.3	15.5	15.7	15.9	16.2	16.5	16.8	17.0	17.2	17.5	1.5%
Purchased Electricity	204.6	207.0	208.7	210.4	208.7	206.7	205.9	205.7	205.9	206.1	206.2	206.7	207.4	208.2	209.2	210.4	212.0	213.4	214.7	215.8	216.9	218.0	0.3%
Total	1179.6	1188.2	1196.7	1212.4	1222.9	1228.9	1236.9	1246.5	1255.6	1263.7	1271.3	1280.5	1290.9	1300.5	1311.8	1325.0	1339.6	1353.9	1368.0	1380.6	1392.5	1405.1	0.8%
Energy Consumption per Unit of Output (thousand Btu per 1992 dollar of output)																							
Residual Oil	0.06	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.2%
Distillate Oil	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.4%
Liquefied Petroleum Gas	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Other Petroleum 2/	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.2%
Petroleum Subtotal	0.32	0.32	0.32	0.32	0.32	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.0%
Natural Gas	1.42	1.40	1.39	1.39	1.40	1.40	1.39	1.39	1.39	1.39	1.38	1.38	1.37	1.37	1.37	1.36	1.36	1.36	1.35	1.35	1.34	1.34	-0.3%
Steam Coal	0.33	0.33	0.33	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.27	-0.8%
Renewables	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.2%
Purchased Electricity	0.44	0.44	0.44	0.43	0.42	0.42	0.41	0.40	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	-0.9%
Total	2.54	2.52	2.51	2.49	2.49	2.48	2.47	2.45	2.44	2.43	2.42	2.41	2.40	2.39	2.38	2.37	2.36	2.35	2.35	2.34	2.33	2.32	-0.4%
Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent)	26.5	26.8	27.1	27.3	27.4	27.4	27.4	27.5	27.6	27.7	27.7	27.9	28.0	28.2	28.4	28.6	28.9	29.1	29.4	29.6	29.8	30.0	0.6%

1/ Fuel consumption includes consumption for cogeneration.

2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 are model results and may differ slightly from official EIA data reports.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 26. Paper Industry Energy Consumption**

Industry Output and Consumption 1/	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
Industry Output (billion 1992 dollars)	150.46	154.07	157.81	161.57	164.77	167.48	170.60	173.92	177.19	180.27	183.05	186.09	188.41	191.00	194.09	196.51	199.31	201.77	204.07	206.09	208.13	210.32	1.6%	
Energy Consumption (trillion Btu)																								
Residual Oil	139.1	135.7	136.7	135.5	135.3	134.5	135.0	135.5	135.9	136.0	136.0	136.1	135.8	135.7	135.9	135.9	136.1	136.3	136.6	136.4	135.4	134.7	-0.2%	
Distillate Oil	10.5	10.3	10.9	10.6	10.6	10.5	10.5	9.4	8.7	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.9	8.9	8.9	8.9	8.9	8.9	-0.8%
Liquefied Petroleum Gas	3.6	4.6	4.2	4.0	3.9	3.8	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.1	4.1	4.1	4.2	4.2	4.2	4.2	4.3	0.9%	
Petroleum Subtotal	153.2	150.6	151.7	150.2	149.9	148.9	149.4	148.7	148.5	148.8	148.7	148.8	148.6	148.5	148.9	148.8	149.1	149.4	149.7	149.5	148.6	148.0	-0.2%	
Natural Gas	587.2	582.7	577.9	577.6	590.3	592.5	593.0	593.7	597.4	600.4	603.1	606.3	608.2	610.5	614.0	616.5	620.0	622.9	625.6	628.7	633.7	638.6	0.4%	
Steam Coal	280.6	277.1	272.3	266.7	269.1	267.7	266.6	266.7	266.7	266.5	266.4	266.2	266.1	266.0	265.8	265.9	265.9	266.1	266.3	266.1	264.8	263.5	-0.3%	
Renewables	1439.2	1470.2	1502.0	1534.3	1561.9	1586.0	1613.9	1643.5	1672.9	1701.3	1727.1	1755.1	1777.6	1801.8	1830.8	1854.3	1881.3	1905.2	1927.9	1948.1	1968.7	1991.7	1.6%	
Purchased Electricity	244.1	249.3	253.4	259.8	256.0	255.9	255.2	255.3	256.1	257.3	258.4	260.0	261.0	262.5	264.7	266.1	268.0	269.7	271.3	272.8	274.6	276.8	0.6%	
Total	2704.3	2729.9	2757.4	2788.5	2829.1	2851.0	2878.0	2908.0	2941.7	2974.4	3003.6	3036.5	3061.4	3089.3	3124.2	3151.6	3184.4	3213.2	3240.7	3265.2	3290.4	3318.6	1.0%	
Energy Consumption per Unit of Output (thousand Btu per 1992 dollar of output)																								
Residual Oil	0.92	0.88	0.87	0.84	0.82	0.80	0.79	0.78	0.77	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.68	0.68	0.67	0.66	0.65	0.64	-1.7%	
Distillate Oil	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	-2.3%	
Liquefied Petroleum Gas	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.7%	
Petroleum Subtotal	1.02	0.98	0.96	0.93	0.91	0.89	0.88	0.86	0.84	0.83	0.81	0.80	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.73	0.71	0.70	-1.7%	
Natural Gas	3.90	3.78	3.66	3.57	3.58	3.54	3.48	3.41	3.37	3.33	3.29	3.26	3.23	3.20	3.16	3.14	3.11	3.09	3.07	3.05	3.04	3.04	-1.2%	
Steam Coal	1.86	1.80	1.73	1.65	1.63	1.60	1.56	1.53	1.51	1.48	1.46	1.43	1.41	1.39	1.37	1.35	1.33	1.32	1.30	1.29	1.27	1.25	-1.9%	
Renewables	9.56	9.54	9.52	9.50	9.48	9.47	9.46	9.45	9.44	9.44	9.43	9.43	9.43	9.43	9.43	9.44	9.44	9.44	9.45	9.45	9.46	9.47	0.0%	
Purchased Electricity	1.62	1.62	1.61	1.61	1.57	1.53	1.50	1.47	1.45	1.43	1.41	1.40	1.39	1.37	1.36	1.35	1.34	1.34	1.33	1.32	1.32	1.32	-1.0%	
Total	17.97	17.72	17.47	17.26	17.17	17.02	16.87	16.72	16.60	16.50	16.41	16.32	16.25	16.17	16.10	16.04	15.98	15.93	15.88	15.84	15.81	15.78	-0.6%	
Carbon Dioxide Emissions 2/ (million metric tons carbon equivalent)	30.8	31.0	31.1	31.2	31.4	31.2	31.0	30.9	31.0	31.0	31.0	31.1	31.1	31.2	31.3	31.4	31.6	31.6	31.8	31.9	31.9	32.0	0.2%	

1/ Fuel consumption includes consumption for cogeneration.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 are model results and may differ slightly from official EIA data reports.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 28. Glass Industry Energy Consumption (1 of 1)**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
<b>Industry Output and Consumption 1/</b>																							
Industry Output (billion 1992 dollars)	20.85	21.22	21.31	21.63	21.96	22.21	22.52	22.94	23.32	23.69	23.99	24.22	24.41	24.74	25.00	25.34	25.71	25.96	26.28	26.49	26.86	27.20	1.3%
Energy Consumption (trillion Btu)																							
Residual Oil	4.3	3.9	4.2	4.2	4.1	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.2	4.2	4.2	4.3	4.3	4.4	4.5	0.2%
Distillate Oil	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3%
Liquefied Petroleum Gas	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0%
Petroleum Subtotal	5.4	5.0	5.4	5.4	5.2	5.0	5.1	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.3	5.3	5.4	5.4	5.5	5.5	5.6	5.8	0.3%
Natural Gas	162.6	163.7	162.4	163.4	164.4	164.9	165.5	166.8	167.8	168.8	169.4	169.6	169.5	170.3	170.6	171.5	172.5	172.8	173.4	173.5	174.4	175.1	0.4%
Purchased Electricity	31.3	31.9	31.8	31.9	32.0	32.1	32.4	32.8	33.1	33.4	33.6	33.7	33.8	34.0	34.2	34.4	34.7	34.8	35.0	35.1	35.4	35.7	0.6%
Total	199.3	200.6	199.7	200.7	201.6	202.0	203.0	204.7	206.1	207.4	208.2	208.5	208.5	209.5	210.1	211.2	212.5	213.0	213.9	214.1	215.5	216.6	0.4%
Energy Consumption per Unit of Output (thousand Btu per 1992 dollar of output)																							
Residual Oil	0.21	0.18	0.20	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.17	-1.0%
Distillate Oil	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.0%
Liquefied Petroleum Gas	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.3%
Petroleum Subtotal	0.26	0.24	0.26	0.25	0.24	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	-0.9%
Natural Gas	7.80	7.71	7.62	7.55	7.49	7.42	7.35	7.27	7.20	7.12	7.06	7.00	6.94	6.88	6.82	6.77	6.71	6.65	6.60	6.55	6.49	6.44	-0.9%
Purchased Electricity	1.50	1.50	1.49	1.48	1.46	1.45	1.44	1.43	1.42	1.41	1.40	1.39	1.38	1.37	1.37	1.36	1.35	1.34	1.33	1.33	1.32	1.31	-0.6%
Total	9.56	9.45	9.37	9.28	9.18	9.10	9.01	8.92	8.84	8.76	8.68	8.61	8.54	8.47	8.40	8.33	8.27	8.20	8.14	8.08	8.02	7.96	-0.9%
Carbon Dioxide Emissions 2/ (million metric tons carbon equivalent)	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.3	0.4%

1/ Fuel consumption includes consumption for cogeneration.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 are model results and may differ slightly from official EIA data reports.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 29. Cement Industry Energy Consumption (1 of 1)**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Industry Output and Consumption 1/																							
Industry Output (billion 1992 dollars)	5.16	5.21	5.24	5.25	5.28	5.29	5.32	5.37	5.43	5.47	5.51	5.56	5.61	5.66	5.69	5.74	5.76	5.81	5.88	5.93	5.97	6.03	0.8%
Energy Consumption (trillion Btu)																							
Residual Oil	1.3	0.9	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	-1.7%
Distillate Oil	3.7	2.6	3.1	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.0	2.9	2.9	2.9	2.8	2.8	2.7	2.7	2.7	2.6	2.6	2.6	-1.8%
Other Petroleum 2/	65.6	65.7	65.6	65.2	65.0	64.6	64.5	64.6	64.7	64.7	64.7	64.8	64.8	64.9	64.8	64.9	64.7	64.8	65.1	65.2	65.2	65.4	0.0%
Petroleum Subtotal	70.7	69.2	69.6	69.4	69.3	68.9	68.7	68.8	68.8	68.7	68.7	68.7	68.8	68.7	68.6	68.7	68.4	68.4	68.7	68.8	68.7	68.9	-0.1%
Natural Gas	32.6	24.7	24.5	27.0	28.4	28.7	28.4	28.0	27.7	27.3	27.0	26.7	26.5	26.3	25.9	25.6	25.2	24.8	24.5	24.1	23.6	23.0	-1.6%
Steam Coal	254.2	263.4	262.8	258.1	255.6	253.6	253.3	253.4	254.1	254.2	254.1	254.4	254.7	254.8	254.5	255.0	254.5	255.2	256.4	257.0	257.2	258.4	0.1%
Purchased Electricity	44.1	44.3	44.1	43.9	43.8	43.7	43.8	43.9	44.2	44.3	44.4	44.6	44.7	44.9	44.9	45.0	45.0	45.2	45.5	45.7	45.7	46.0	0.2%
Total	401.6	401.6	401.1	398.4	397.1	394.9	394.1	394.1	394.8	394.7	394.2	394.4	394.7	394.7	393.9	394.3	393.0	393.6	395.0	395.4	395.2	396.3	-0.1%
Energy Consumption per Unit of Output																							
(thousand Btu per 1992 dollar of output)																							
Residual Oil	0.26	0.18	0.19	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.15	-2.5%
Distillate Oil	0.72	0.50	0.58	0.61	0.62	0.60	0.59	0.59	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.47	0.46	0.45	0.44	0.44	0.43	-2.5%
Other Petroleum 2/	12.73	12.61	12.51	12.41	12.32	12.23	12.13	12.03	11.92	11.83	11.74	11.65	11.56	11.47	11.39	11.31	11.23	11.15	11.07	10.99	10.92	10.84	-0.8%
Petroleum Subtotal	13.71	13.29	13.28	13.23	13.14	13.03	12.92	12.81	12.69	12.58	12.47	12.36	12.26	12.16	12.06	11.97	11.87	11.78	11.68	11.59	11.51	11.42	-0.9%
Natural Gas	6.33	4.75	4.67	5.14	5.38	5.44	5.33	5.21	5.10	4.99	4.90	4.81	4.72	4.64	4.56	4.47	4.38	4.27	4.16	4.06	3.95	3.82	-2.4%
Steam Coal	49.31	50.61	50.11	49.16	48.45	47.98	47.60	47.21	46.81	46.46	46.11	45.75	45.39	45.06	44.76	44.44	44.20	43.91	43.60	43.33	43.09	42.85	-0.7%
Purchased Electricity	8.56	8.51	8.41	8.36	8.30	8.26	8.23	8.18	8.15	8.10	8.06	8.02	7.97	7.93	7.89	7.85	7.82	7.78	7.74	7.70	7.67	7.63	-0.5%
Total	77.91	77.17	76.48	75.89	75.27	74.71	74.08	73.42	72.74	72.13	71.54	70.94	70.34	69.79	69.28	68.73	68.27	67.73	67.18	66.67	66.22	65.71	-0.8%
Carbon Dioxide Emissions 3/																							
(million metric tons carbon equivalent)	10.5	10.6	10.6	10.5	10.5	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.3	10.4	10.3	10.3	10.4	10.4	10.4	10.4	0.0%

1/ Fuel consumption includes consumption for cogeneration.

2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 are model results and may differ slightly from official EIA data reports.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 30. Iron and Steel Industries Energy Consumption (1 of 1)**

	1999-																				2020		
Industry Output and Consumption 1/	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Industry Output (billion 1992 dollars)	67.78	69.87	71.41	73.49	74.64	75.39	76.91	77.73	79.02	79.57	80.14	81.39	81.84	83.26	83.91	84.85	85.12	85.68	86.36	86.67	87.42	88.25	1.3%
Energy Consumption (trillion Btu)																							
Residual Oil	41.3	38.7	40.9	40.8	39.8	38.4	38.4	38.1	38.0	37.7	37.2	37.1	36.6	36.6	36.4	36.3	36.0	35.9	35.9	35.8	35.9	36.2	-0.6%
Other Petroleum 2/	60.1	61.0	61.0	61.3	60.9	60.0	60.1	59.6	59.6	58.9	58.3	58.4	57.7	57.9	57.5	57.4	56.6	56.2	55.9	55.4	55.3	55.3	-0.4%
Petroleum Subtotal	101.3	99.7	101.9	102.1	100.6	98.5	98.6	97.7	97.6	96.6	95.5	95.5	94.3	94.5	93.9	93.7	92.7	92.1	91.8	91.2	91.2	91.5	-0.5%
Natural Gas	451.4	450.8	449.4	457.5	461.8	463.6	466.5	466.6	468.6	467.8	467.5	470.0	469.5	473.0	473.4	475.1	474.1	474.2	474.9	474.2	475.2	476.3	0.3%
Metallurgical Coal	774.0	759.4	745.1	731.1	717.3	703.8	690.5	677.5	664.8	652.2	640.0	627.9	616.1	604.5	593.1	581.9	570.9	560.2	549.6	539.3	529.1	519.1	-1.9%
Net Coke Imports	47.4	62.4	74.1	88.8	98.0	105.1	116.6	124.0	134.1	139.9	146.0	155.9	161.2	172.1	178.6	186.7	191.0	196.9	203.5	208.2	215.3	222.8	7.6%
Steam Coal	71.7	79.2	79.8	77.1	75.6	74.9	75.4	75.5	75.9	76.0	75.9	76.3	76.3	76.7	76.8	77.2	77.2	77.5	77.9	78.1	78.7	79.5	0.5%
Coal Subtotal	893.2	901.1	899.0	897.0	890.9	883.8	882.6	877.0	874.8	868.1	861.8	860.1	853.6	853.2	848.5	845.8	839.2	834.6	831.1	825.6	823.0	821.5	-0.4%
Purchased Electricity	143.0	149.3	152.2	156.0	157.2	157.8	160.6	161.8	164.2	164.9	165.7	167.9	168.4	171.1	172.1	173.7	173.8	174.7	175.7	176.1	177.5	179.1	1.1%
Total	1588.9	1600.8	1602.5	1612.5	1610.5	1603.8	1608.3	1603.2	1605.2	1597.5	1590.5	1593.5	1585.8	1591.8	1587.9	1588.3	1579.8	1575.6	1573.5	1567.1	1567.0	1568.3	-0.1%
Energy Consumption per Unit of Output (thousand Btu per 1992 dollar of output)																							
Residual Oil	0.61	0.55	0.57	0.55	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.46	0.45	0.44	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	-1.9%
Other Petroleum 2/	0.89	0.87	0.85	0.83	0.82	0.80	0.78	0.77	0.75	0.74	0.73	0.72	0.70	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.63	-1.6%
Petroleum Subtotal	1.49	1.43	1.43	1.39	1.35	1.31	1.28	1.26	1.24	1.21	1.19	1.17	1.15	1.14	1.12	1.10	1.09	1.08	1.06	1.05	1.04	1.04	-1.7%
Natural Gas	6.66	6.45	6.29	6.22	6.19	6.15	6.07	6.00	5.93	5.88	5.83	5.77	5.74	5.68	5.64	5.60	5.57	5.53	5.50	5.47	5.44	5.40	-1.0%
Metallurgical Coal	11.42	10.87	10.43	9.95	9.61	9.34	8.98	8.72	8.41	8.20	7.99	7.71	7.53	7.26	7.07	6.86	6.71	6.54	6.36	6.22	6.05	5.88	-3.1%
Net Coke Imports	0.70	0.89	1.04	1.21	1.31	1.39	1.52	1.59	1.70	1.76	1.82	1.92	1.97	2.07	2.13	2.20	2.24	2.30	2.36	2.40	2.46	2.52	6.3%
Steam Coal	1.06	1.13	1.12	1.05	1.01	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.92	0.91	0.91	0.90	0.90	0.90	0.90	0.90	-0.8%
Coal Subtotal	13.18	12.90	12.59	12.21	11.94	11.72	11.48	11.28	11.07	10.91	10.75	10.57	10.43	10.25	10.11	9.97	9.86	9.74	9.62	9.53	9.41	9.31	-1.6%
Purchased Electricity	2.11	2.14	2.13	2.12	2.11	2.09	2.09	2.08	2.08	2.07	2.07	2.06	2.06	2.05	2.05	2.05	2.04	2.04	2.04	2.03	2.03	2.03	-0.2%
Total	23.44	22.91	22.44	21.94	21.58	21.27	20.91	20.62	20.31	20.08	19.85	19.58	19.38	19.12	18.92	18.72	18.56	18.39	18.22	18.08	17.92	17.77	-1.3%
Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent)	38.2	38.8	38.9	39.2	39.1	38.9	39.0	38.8	38.9	38.7	38.5	38.6	38.4	38.5	38.4	38.4	38.3	38.1	38.1	37.9	37.9	38.0	0.0%

1/ Fuel consumption includes consumption for cogeneration.

2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.

3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 are model results and may differ slightly from official EIA data reports.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 31. Aluminum Industry Energy Consumption (1 of 1)**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
<b>Industry Output and Consumption 1/</b>																							
Industry Output (billion 1992 dollars)	36.00	36.06	36.28	36.66	37.00	37.29	37.40	37.71	37.92	38.12	38.25	38.43	38.71	38.86	39.13	39.42	39.61	39.67	39.77	39.87	39.89	40.08	0.5%
Energy Consumption (trillion Btu)																							
Distillate Oil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.3%
Liquefied Petroleum Gas	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2%
Petroleum Coke	14.0	13.9	13.9	13.9	13.9	13.9	13.8	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.5	13.5	13.4	13.4	13.3	13.3	-0.3%
Other Petroleum	30.3	30.1	30.0	30.1	30.1	30.1	30.0	30.1	30.0	30.0	29.9	29.8	29.9	29.8	29.8	29.9	29.9	29.8	29.7	29.6	29.5	29.5	-0.1%
Petroleum Subtotal	44.4	44.2	44.1	44.1	44.2	44.2	44.0	44.0	43.9	43.8	43.7	43.6	43.6	43.5	43.5	43.6	43.5	43.4	43.2	43.1	42.9	42.9	-0.2%
Natural Gas	79.8	79.3	79.0	79.1	79.1	79.0	78.6	78.6	78.4	78.2	77.9	77.7	77.7	77.5	77.5	77.5	77.4	77.0	76.8	76.5	76.2	76.1	-0.2%
Steam Coal	74.8	74.8	74.8	74.8	74.7	74.5	74.1	74.0	73.8	73.6	73.3	73.1	73.0	72.9	72.9	72.9	72.8	72.5	72.4	72.2	72.0	72.0	-0.2%
Purchased Electricity	208.8	207.2	206.4	206.6	206.7	206.6	205.7	205.7	205.4	205.0	204.3	203.8	203.9	203.4	203.5	203.7	203.4	202.6	202.0	201.5	200.6	200.4	-0.2%
Total	407.9	405.4	404.3	404.7	404.6	404.3	402.3	402.3	401.5	400.6	399.2	398.2	398.3	397.2	397.3	397.6	397.1	395.5	394.4	393.3	391.7	391.4	-0.2%
Energy Consumption per Unit of Output (thousand Btu per 1992 dollar of output)																							
Distillate Oil	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.8%
Liquefied Petroleum Gas	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.7%
Petroleum Coke	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.33	0.33	-0.8%
Other Petroleum	0.84	0.83	0.83	0.82	0.81	0.81	0.80	0.80	0.79	0.79	0.78	0.78	0.77	0.77	0.76	0.76	0.75	0.75	0.75	0.74	0.74	0.74	-0.6%
Petroleum Subtotal	1.23	1.22	1.21	1.20	1.19	1.18	1.18	1.17	1.16	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.10	1.09	1.09	1.08	1.08	1.07	-0.7%
Natural Gas	2.22	2.20	2.18	2.16	2.14	2.12	2.10	2.08	2.07	2.05	2.04	2.02	2.01	1.99	1.98	1.97	1.95	1.94	1.93	1.92	1.91	1.90	-0.7%
Steam Coal	2.08	2.07	2.06	2.04	2.02	2.00	1.98	1.96	1.95	1.93	1.92	1.90	1.89	1.87	1.86	1.85	1.84	1.83	1.82	1.81	1.80	1.80	-0.7%
Purchased Electricity	5.80	5.74	5.69	5.64	5.59	5.54	5.50	5.46	5.42	5.38	5.34	5.30	5.27	5.23	5.20	5.17	5.13	5.11	5.08	5.05	5.03	5.00	-0.7%
Total	11.33	11.24	11.14	11.04	10.94	10.84	10.76	10.67	10.59	10.51	10.44	10.36	10.29	10.22	10.15	10.08	10.02	9.97	9.92	9.87	9.82	9.77	-0.7%
Carbon Dioxide Emissions 2/ (million metric tons carbon equivalent)	14.1	14.1	14.2	14.2	14.2	14.1	14.0	13.9	13.8	13.7	13.6	13.5	13.5	13.4	13.4	13.4	13.4	13.3	13.3	13.2	13.2	13.1	-0.4%

1/ Fuel consumption includes consumption for cogeneration.

2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 are model results and may differ slightly from official EIA data reports.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.







### Table 33. Transportation Sector Energy Use by Mode and Type (2 of 2) (Trillion Btu)

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

2/ Does not include commercial bus and military use.

3/ Does not include military jet fuel use.

4/ Does not include military residual oil.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 values derived using: Energy Information Administration (EIA), Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf>; EIA, Fuel Oil and Kerosene Sales 1998, DOE/EIA-0535(98) (Washington, DC, August 1999); EIA, State Energy Data Report 1997, DOE/EIA-0214(97) (Washington, DC, September 1999); Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, and 19 (Oak Ridge, TN, September 1999); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode (2 of 2)**  
(Trillion Btu)

Mode and Type	1999-																				1999-			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Bus Transportation																								
Transit Bus (motor gasoline)	4.85	4.81	4.83	4.85	4.88	4.90	4.92	4.94	4.95	4.96	4.97	4.97	4.96	4.96	4.95	4.95	4.94	4.93	4.92	4.91	4.89	4.87	0.0%	
Transit Bus (diesel)	81.56	83.20	83.56	84.04	84.44	84.85	85.20	85.45	85.67	85.89	86.01	86.02	85.93	85.83	85.72	85.61	85.49	85.34	85.15	84.91	84.63	84.33	0.2%	
Intercity Bus (diesel)	23.16	23.63	23.73	23.87	23.98	24.10	24.20	24.27	24.33	24.39	24.43	24.43	24.41	24.38	24.35	24.31	24.28	24.24	24.18	24.12	24.03	23.95	0.2%	
School Bus (motor gasoline)	3.98	3.95	3.97	3.99	4.01	4.03	4.05	4.06	4.07	4.08	4.09	4.09	4.08	4.08	4.07	4.07	4.06	4.05	4.05	4.03	4.02	4.01	0.0%	
School Bus (diesel)	67.07	68.42	68.72	69.11	69.44	69.78	70.06	70.28	70.46	70.63	70.74	70.74	70.67	70.58	70.50	70.41	70.31	70.18	70.03	69.83	69.60	69.35	0.2%	
Total	180.62	184.01	184.81	185.86	186.75	187.65	188.42	188.99	189.48	189.95	190.24	190.24	190.06	189.82	189.59	189.35	189.08	188.75	188.33	187.80	187.16	186.50	0.2%	
Rail Transportation																								
Intercity Rail (electricity)	8.10	8.18	8.35	8.53	8.70	8.87	9.05	9.22	9.39	9.57	9.74	9.91	10.07	10.23	10.40	10.56	10.72	10.89	11.05	11.21	11.38	11.55	1.7%	
Intercity Rail (diesel)	12.31	12.78	13.04	13.32	13.59	13.86	14.14	14.41	14.67	14.94	15.22	15.48	15.73	15.99	16.24	16.50	16.75	17.01	17.26	17.52	17.78	18.05	1.8%	
Transit Rail (electricity)	44.37	44.82	45.74	46.74	47.69	48.64	49.60	50.54	51.47	52.43	53.38	54.31	55.20	56.08	56.98	57.87	58.77	59.66	60.56	61.46	62.38	63.31	1.7%	
Commuter Rail (electricity)	5.59	5.65	5.76	5.89	6.01	6.13	6.25	6.37	6.49	6.61	6.73	6.84	6.96	7.07	7.18	7.29	7.41	7.52	7.63	7.75	7.86	7.98	1.7%	
Commuter Rail (diesel)	8.50	8.82	9.00	9.20	9.39	9.57	9.76	9.95	10.13	10.32	10.51	10.69	10.87	11.04	11.22	11.39	11.57	11.75	11.92	12.10	12.28	12.46	1.8%	
Total	78.86	80.24	81.90	83.68	85.38	87.08	88.79	90.48	92.14	93.87	95.57	97.23	98.82	100.41	102.01	103.61	105.23	106.82	108.42	110.04	111.69	113.36	1.7%	
Recreation Boats	308.93	311.51	316.21	319.32	322.00	324.86	328.08	331.33	334.39	337.55	340.75	343.95	346.98	350.22	353.66	357.20	360.73	364.15	367.42	370.49	373.49	376.48	0.9%	
Lubricants	221.34	230.30	236.60	243.18	247.60	249.86	252.71	255.94	258.30	260.29	262.04	264.38	267.33	270.89	275.53	281.04	286.89	292.47	297.70	302.32	306.65	311.21	1.6%	
Pipeline Fuel Natural Gas	656.64	660.17	662.59	700.68	730.83	754.39	771.14	793.30	810.37	835.62	862.13	897.53	910.77	929.50	948.89	968.44	994.21	1016.84	1035.87	1055.23	1070.65	1090.50	2.4%	
Total Miscellaneous	2035.27	2059.48	2088.00	2136.39	2175.78	2208.96	2241.54	2282.57	2317.01	2359.50	2402.38	2454.44	2484.18	2519.62	2556.57	2594.52	2639.09	2680.15	2717.13	2753.63	2785.86	2822.85	1.6%	
Total Consumption	26284.42	26837.29	27546.63	28246.47	28808.50	29379.13	29983.59	30609.13	31185.93	31756.80	32308.90	32860.13	33362.38	33858.70	34404.19	34979.50	35565.20	36128.82	36663.83	37174.23	37666.81	38194.29	1.8%	

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

2/ Does not include military distillate. Does not include commercial buses.

3/ Does not include passenger rail.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 compressed natural gas volumes: Energy Information Administration (EIA), AEO2001 National Energy Modeling System run AEO2001.D101600A. Other 1999 values derived using: EIA, Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/stco/oldstco/sep00.pdf>; EIA, Fuel Oil and Kerosene Sales 1998, DOE/EIA-0535(98) (Washington, DC, August 1999); EIA, State Energy Data Report 1997, DOE/EIA-0214(97) (Washington, DC, September 1999); Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18 and 19 (Oak Ridge, TN, September 1999); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 36. Light-Duty Vehicle Sales by Technology Type (2 of 2)**  
**(Thousands)**  
**New England**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Percent Alternative Light Truck Sales	6.77	7.90	8.27	8.32	11.32	11.50	11.65	11.73	11.84	11.96	12.09	12.26	12.49	12.72	12.94	13.19	13.44	13.53	13.61	13.69	13.78	13.93	3.5%
Total New Truck Sales	353.0	371.2	357.4	363.5	369.1	368.2	368.3	365.1	360.7	358.3	356.9	356.8	363.1	367.9	372.8	379.1	383.7	385.5	385.7	384.1	382.8	384.2	0.4%
Percent Total Alternative Sales	3.70	4.93	5.30	5.36	10.75	10.93	11.10	11.27	11.45	11.63	11.83	12.03	12.26	12.50	12.73	12.98	13.22	13.30	13.39	13.46	13.55	13.68	6.4%
EPACT Legislative Alternative Sales	6.85	10.75	13.15	13.21	13.27	13.13	13.04	12.84	12.62	12.48	12.39	12.34	12.53	12.66	12.81	13.00	13.14	13.18	13.18	13.11	13.06	13.10	3.1%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	43.79	43.33	43.08	42.51	41.87	41.49	41.29	41.25	41.98	42.54	43.14	43.92	44.53	44.82	44.95	44.88	44.88	45.18	N/A
Total Vehicles Sales	792.6	818.6	776.3	779.5	783.2	774.3	768.7	757.2	744.0	735.5	730.0	727.3	738.1	746.0	754.5	765.8	774.1	776.7	776.3	772.3	769.3	771.4	-0.1%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 1999 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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/oneal/alt\\_trans98/table1.html](http://www.eia.doe.gov/oneal/alt_trans98/table1.html); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 37. Light-Duty Vehicle Sales by Technology Type (2 of 2)**  
**(Thousands)**  
**Middle Atlantic**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Percent Alternative Light Truck Sales	6.68	7.67	8.04	8.10	10.90	11.12	11.30	11.42	11.55	11.69	11.83	12.01	12.24	12.47	12.68	12.93	13.17	13.27	13.35	13.43	13.52	13.67	3.5%
Total New Truck Sales	997.3	1040.3	994.1	1004.0	1012.8	1004.8	1000.5	987.6	971.8	961.4	954.2	950.4	963.8	973.0	982.6	995.8	1004.6	1006.0	1003.5	996.2	990.3	991.1	0.0%
Percent Total Alternative Sales	3.63	4.76	5.14	5.20	9.91	10.12	10.32	10.51	10.71	10.90	11.09	11.30	11.54	11.78	12.01	12.26	12.50	12.58	12.67	12.75	12.84	12.96	6.2%
EPACT Legislative Alternative Sales	19.37	30.13	36.57	36.49	36.43	35.83	35.41	34.74	34.00	33.49	33.11	32.87	33.25	33.49	33.75	34.15	34.40	34.41	34.29	34.01	33.78	33.79	2.7%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	82.53	81.62	81.12	80.02	78.79	78.06	77.66	77.58	78.93	79.97	81.09	82.55	83.68	84.23	84.47	84.33	84.32	84.89	N/A
Total Vehicles Sales	2239.3	2294.1	2159.4	2153.4	2149.3	2113.2	2088.1	2048.1	2004.5	1973.8	1951.5	1937.2	1959.0	1973.1	1988.6	2011.7	2026.6	2026.8	2019.7	2003.3	1989.8	1990.2	-0.6%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 1999 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVI and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 38. Light-Duty Vehicle Sales by Technology Type (2 of 2)**  
**(Thousands)**  
**East North Central**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Percent Alternative Light Truck Sales	6.68	7.69	8.07	8.14	10.37	10.58	10.75	10.88	11.03	11.18	11.34	11.52	11.74	11.96	12.18	12.41	12.64	12.74	12.83	12.92	13.03	13.18	3.3%
Total New Truck Sales	1151.9	1207.7	1160.2	1177.2	1193.1	1188.8	1188.7	1178.3	1164.2	1155.7	1150.8	1149.7	1169.2	1183.3	1198.1	1217.0	1230.7	1235.1	1234.7	1228.3	1223.4	1226.6	0.3%
Percent Total Alternative Sales	3.63	4.78	5.16	5.22	8.38	8.58	8.77	8.95	9.14	9.32	9.50	9.71	9.93	10.16	10.38	10.62	10.85	10.93	11.00	11.07	11.15	11.26	5.5%
EPACT Legislative Alternative Sales	22.37	34.97	42.68	42.78	42.91	42.38	42.07	41.45	40.73	40.26	39.93	39.77	40.33	40.73	41.15	41.73	42.14	42.24	42.19	41.93	41.73	41.82	3.0%
ZEVP Legislative Alternative Sales	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	2586.4	2663.1	2520.0	2524.7	2531.7	2500.1	2481.0	2443.6	2401.2	2372.8	2353.6	2343.5	2376.5	2399.6	2424.6	2458.7	2482.7	2488.4	2485.1	2470.0	2458.1	2463.1	-0.2%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 1999 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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/oneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/oneaf/alt_trans98/table1.html); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 39. Light-Duty Vehicle Sales by Technology Type (2 of 2)**  
**(Thousands)**  
**West North Central**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Percent Alternative Light Truck Sales	6.78	7.85	8.20	8.26	10.46	10.66	10.81	10.94	11.08	11.23	11.39	11.57	11.79	12.01	12.22	12.45	12.69	12.78	12.86	12.97	13.08	13.23	3.2%
Total New Truck Sales	481.5	506.0	487.0	494.9	502.3	501.1	501.3	497.1	491.5	488.6	487.4	487.9	497.2	504.2	511.4	520.4	527.0	529.6	530.3	528.3	526.8	528.9	0.4%
Percent Total Alternative Sales	3.69	4.88	5.24	5.30	8.43	8.62	8.80	8.98	9.17	9.34	9.53	9.73	9.95	10.18	10.40	10.64	10.87	10.95	11.02	11.09	11.17	11.29	5.5%
EPACT Legislative Alternative Sales	9.35	14.65	17.91	17.98	18.07	17.87	17.74	17.49	17.20	17.02	16.91	16.88	17.15	17.35	17.57	17.84	18.04	18.11	18.12	18.03	17.97	18.03	3.2%
ZEVP Legislative Alternative Sales	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1081.2	1115.8	1057.7	1061.4	1066.0	1053.9	1046.3	1030.9	1013.7	1003.1	996.8	994.5	1010.6	1022.5	1035.0	1051.3	1063.0	1067.0	1067.2	1062.3	1058.5	1062.0	-0.1%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 1999 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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/oneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/oneaf/alt_trans98/table1.html); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 40. Light-Duty Vehicle Sales by Technology Type (2 of 2)**  
**(Thousands)**  
**South Atlantic**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Percent Alternative Light Truck Sales	6.69	7.72	8.09	8.16	10.37	10.58	10.75	10.88	11.02	11.17	11.33	11.51	11.73	11.95	12.17	12.39	12.63	12.72	12.82	12.91	13.01	13.16	3.3%
Total New Truck Sales	1304.0	1375.6	1329.8	1358.3	1385.7	1390.3	1399.9	1397.4	1390.8	1391.9	1398.0	1408.9	1445.7	1476.7	1508.9	1547.0	1579.0	1599.4	1614.0	1620.8	1629.3	1648.8	1.1%
Percent Total Alternative Sales	3.63	4.80	5.17	5.24	8.36	8.56	8.75	8.93	9.12	9.30	9.48	9.68	9.91	10.13	10.36	10.59	10.82	10.90	10.97	11.04	11.12	11.24	5.5%
EPACT Legislative Alternative Sales	25.32	39.84	48.92	49.36	49.84	49.57	49.54	49.15	48.66	48.48	48.51	48.73	49.87	50.82	51.83	53.05	54.07	54.70	55.15	55.33	55.58	56.21	3.9%
ZEVP Legislative Alternative Sales	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	2927.9	3033.4	2888.6	2913.2	2940.5	2923.9	2921.8	2898.0	2868.7	2857.7	2859.0	2871.8	2938.6	2994.6	3053.6	3125.4	3185.2	3222.5	3248.5	3259.1	3273.8	3310.9	0.6%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 1999 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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/oneaf/alt\\_trans98/table1.html](http://www.eia.doe.gov/oneaf/alt_trans98/table1.html); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 41. Light-Duty Vehicle Sales by Technology Type (2 of 2)**  
**(Thousands)**  
**East South Central**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Percent Alternative Light Truck Sales	6.72	7.70	8.07	8.14	10.36	10.57	10.73	10.87	11.01	11.16	11.32	11.50	11.72	11.94	12.16	12.39	12.62	12.72	12.81	12.90	13.01	13.16	3.3%
Total New Truck Sales	431.7	454.6	438.5	446.6	454.0	453.7	454.8	451.7	447.2	445.1	444.4	445.2	454.0	460.7	467.6	476.2	482.8	485.7	486.8	485.5	484.8	487.4	0.6%
Percent Total Alternative Sales	3.64	4.79	5.16	5.23	8.37	8.57	8.76	8.94	9.13	9.30	9.49	9.69	9.92	10.14	10.37	10.61	10.83	10.91	10.99	11.05	11.13	11.25	5.5%
EPACT Legislative Alternative Sales	8.38	13.17	16.13	16.23	16.33	16.18	16.09	15.89	15.65	15.50	15.42	15.40	15.66	15.86	16.06	16.33	16.53	16.61	16.63	16.57	16.54	16.61	3.3%
Z EVP Legislative Alternative Sales	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	969.2	1002.5	952.5	957.8	963.5	954.1	949.1	936.8	922.4	913.8	908.9	907.5	922.8	934.2	946.3	962.1	973.9	978.6	979.7	976.3	974.1	978.6	0.0%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

Z EVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 1999 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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/oneal/alt\\_trans98/table1.html](http://www.eia.doe.gov/oneal/alt_trans98/table1.html); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 42. Light-Duty Vehicle Sales by Technology Type (2 of 2)**  
**(Thousands)**  
**West South Central**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Percent Alternative Light Truck Sales	6.69	7.73	8.10	8.18	10.40	10.61	10.78	10.91	11.05	11.21	11.37	11.55	11.77	12.00	12.22	12.45	12.70	12.80	12.91	13.01	13.14	13.32	3.3%
Total New Truck Sales	760.7	801.6	774.0	789.2	803.6	804.6	808.4	805.2	799.5	798.1	799.6	803.8	822.6	837.5	853.0	871.6	886.4	894.7	899.6	900.2	901.7	909.4	0.9%
Percent Total Alternative Sales	3.64	4.81	5.18	5.25	8.40	8.60	8.79	8.97	9.16	9.33	9.52	9.72	9.95	10.18	10.41	10.65	10.88	10.97	11.05	11.13	11.22	11.35	5.6%
EPACT Legislative Alternative Sales	14.77	23.21	28.48	28.68	28.90	28.69	28.61	28.32	27.97	27.80	27.75	27.80	28.38	28.83	29.30	29.89	30.35	30.60	30.74	30.73	30.76	31.00	3.6%
ZEVP Legislative Alternative Sales	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	1708.1	1767.7	1681.3	1692.7	1705.3	1692.1	1687.2	1669.9	1649.1	1638.6	1635.3	1638.4	1672.0	1698.4	1726.2	1760.7	1788.1	1802.6	1810.7	1810.1	1811.9	1826.1	0.3%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 1999 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 43. Light-Duty Vehicle Sales by Technology Type (2 of 2)**  
**(Thousands)**  
**Mountain**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Percent Alternative Light Truck Sales	6.88	7.92	8.31	8.55	10.94	11.25	11.46	11.63	11.79	11.95	12.10	12.29	12.51	12.72	12.97	13.20	13.43	13.53	13.63	13.74	13.87	14.05	3.5%
Total New Truck Sales	429.0	459.8	452.3	467.4	482.5	488.2	495.0	497.0	497.0	499.3	503.2	508.4	522.1	533.2	545.3	560.1	573.9	584.4	593.1	599.8	608.3	621.8	1.8%
Percent Total Alternative Sales	3.79	4.94	5.33	5.52	8.82	9.08	9.31	9.51	9.71	9.89	10.08	10.28	10.50	10.72	10.97	11.21	11.43	11.51	11.59	11.67	11.76	11.88	5.6%
EPACT Legislative Alternative Sales	8.33	13.32	16.64	16.99	17.35	17.40	17.52	17.48	17.39	17.39	17.46	17.58	18.01	18.35	18.73	19.21	19.65	19.99	20.27	20.48	20.75	21.20	4.5%
ZEVP Legislative Alternative Sales	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Vehicles Sales	963.2	1013.9	982.5	1002.5	1023.9	1026.6	1033.2	1030.6	1025.1	1025.2	1029.1	1036.2	1061.3	1081.2	1103.5	1131.6	1157.8	1177.4	1193.8	1206.1	1222.2	1248.5	1.2%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 1999 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 44. Light-Duty Vehicle Sales by Technology Type (2 of 2)**  
**(Thousands)**  
**Pacific**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Percent Alternative Light Truck Sales	6.80	7.90	8.22	8.28	13.10	13.27	11.88	11.98	12.10	12.20	12.32	12.48	12.71	12.94	13.15	13.39	13.64	13.73	13.80	13.87	13.94	14.10	3.5%
Total New Truck Sales	1102.5	1156.1	1110.2	1126.1	1141.4	1138.3	1139.5	1131.4	1120.3	1115.5	1114.7	1117.7	1141.1	1159.8	1179.5	1203.7	1222.9	1233.3	1238.9	1238.5	1239.7	1249.4	0.6%
Percent Total Alternative Sales	3.74	4.91	5.26	5.32	15.32	15.28	11.65	11.86	12.04	12.21	12.40	12.59	12.82	13.05	13.27	13.52	13.75	13.83	13.90	13.95	14.02	14.14	6.5%
EPACT Legislative Alternative Sales	21.41	33.48	40.85	40.92	41.05	40.58	40.33	39.80	39.20	38.86	38.68	38.66	39.36	39.92	40.51	41.28	41.88	42.18	42.33	42.28	42.29	42.59	3.3%
Z EVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	166.06	164.33	163.41	161.29	158.86	157.44	156.69	156.55	159.32	161.45	163.74	166.69	169.00	170.12	170.63	170.36	170.34	171.51	N/A
Total Vehicles Sales	2475.4	2549.4	2411.6	2415.2	2422.1	2393.8	2378.3	2346.3	2310.8	2290.2	2279.6	2278.2	2319.5	2351.9	2386.9	2431.7	2467.0	2484.8	2493.5	2490.5	2491.0	2508.8	0.1%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

Z EVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 1999 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 45. Light-Duty Vehicle Sales by Technology Type (1 of 2)**  
(Thousands)  
United States

	1999-																				2020		
Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>New Car Sales 1/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	8434.7	8449.4	7890.1	7845.8	7333.4	7196.9	7167.9	7011.1	6849.9	6752.1	6682.8	6639.4	6726.9	6784.7	6849.7	6938.7	7010.7	7041.5	7048.3	7024.6	7011.9	7045.5	-0.9%
TDI Diesel ICE	191.3	223.7	211.8	203.5	182.0	176.4	175.2	179.5	182.5	174.4	170.8	171.9	171.2	173.1	175.9	183.2	183.4	186.7	190.1	192.2	194.6	199.8	0.2%
<b>Total Conventional</b>	<b>8626.0</b>	<b>8673.1</b>	<b>8101.9</b>	<b>8049.3</b>	<b>7515.4</b>	<b>7373.4</b>	<b>7343.1</b>	<b>7190.6</b>	<b>7032.4</b>	<b>6926.5</b>	<b>6853.6</b>	<b>6811.4</b>	<b>6898.1</b>	<b>6957.8</b>	<b>7025.7</b>	<b>7121.9</b>	<b>7194.0</b>	<b>7228.2</b>	<b>7238.4</b>	<b>7216.8</b>	<b>7206.5</b>	<b>7245.3</b>	<b>-0.8%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	5.2	8.0	10.1	10.0	9.9	9.7	9.6	9.4	9.2	9.1	9.0	9.0	9.1	9.2	9.4	9.5	9.6	9.7	9.7	9.7	9.7	9.7	3.0%
Methanol ICE	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-2.7%
Ethanol-Flex Fuel ICE	14.2	20.8	25.6	25.4	25.1	24.7	24.3	23.9	23.4	23.1	22.9	22.8	23.1	23.3	23.6	24.0	24.3	24.4	24.5	24.4	24.4	24.5	2.6%
Ethanol ICE	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-2.9%
Electric Vehicle	1.7	2.4	2.7	2.7	100.1	98.3	97.2	96.5	95.5	95.3	95.5	95.7	97.2	98.3	99.8	101.1	102.2	103.1	103.8	104.1	104.6	105.4	21.8%
Electric-Diesel Hybrid	0.1	4.8	4.8	4.8	71.2	70.3	61.8	66.1	69.4	69.9	72.3	76.5	82.1	88.4	95.1	105.1	110.2	111.3	111.4	108.9	105.4	102.4	38.2%
Electric-Gasoline Hybrid	2.0	65.8	60.3	60.4	399.1	399.5	344.7	349.4	354.0	362.2	371.3	381.1	399.1	415.7	432.7	450.7	469.2	474.8	477.8	478.3	478.6	481.9	30.0%
CNG ICE	5.8	5.5	5.1	5.2	5.0	5.0	5.0	5.0	4.9	4.8	4.7	4.7	4.7	4.7	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	-0.9%
CNG Bi-fuel	47.0	66.5	73.9	73.5	73.1	71.8	70.9	69.7	68.3	67.4	66.8	66.6	67.5	68.3	69.1	70.2	71.1	71.5	71.7	71.5	71.4	71.9	2.0%
LPG ICE	2.2	2.4	2.1	2.5	2.6	2.5	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.6	2.6	2.7	2.8	2.8	2.9	3.0	1.4%
LPG Bi-fuel	26.9	36.0	39.5	39.3	39.1	38.4	37.9	37.3	36.5	36.1	35.8	35.6	36.2	36.6	37.0	37.6	38.1	38.3	38.4	38.3	38.3	38.6	1.7%
Fuel Cell Gasoline	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	0.0	0.1	0.3	0.9	2.1	4.5	8.4	14.8	24.2	N/A
Fuel Cell Methanol	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	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	N/A
Fuel Cell Hydrogen	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>105.6</b>	<b>212.5</b>	<b>224.4</b>	<b>224.1</b>	<b>725.4</b>	<b>720.7</b>	<b>654.3</b>	<b>659.8</b>	<b>663.9</b>	<b>670.4</b>	<b>680.9</b>	<b>694.6</b>	<b>721.7</b>	<b>747.2</b>	<b>774.3</b>	<b>806.2</b>	<b>833.4</b>	<b>843.1</b>	<b>849.5</b>	<b>851.5</b>	<b>855.1</b>	<b>866.8</b>	<b>10.5%</b>
<b>Percent Alternative Car Sales</b>	<b>1.21</b>	<b>2.39</b>	<b>2.70</b>	<b>2.71</b>	<b>8.80</b>	<b>8.90</b>	<b>8.18</b>	<b>8.41</b>	<b>8.63</b>	<b>8.82</b>	<b>9.04</b>	<b>9.25</b>	<b>9.47</b>	<b>9.70</b>	<b>9.93</b>	<b>10.17</b>	<b>10.38</b>	<b>10.45</b>	<b>10.50</b>	<b>10.55</b>	<b>10.61</b>	<b>10.69</b>	<b>10.9%</b>
<b>Total New Car Sales</b>	<b>8731.6</b>	<b>8885.7</b>	<b>8326.3</b>	<b>8273.4</b>	<b>8240.8</b>	<b>8094.0</b>	<b>7997.4</b>	<b>7850.4</b>	<b>7696.3</b>	<b>7596.9</b>	<b>7534.5</b>	<b>7505.9</b>	<b>7619.7</b>	<b>7705.0</b>	<b>7800.0</b>	<b>7928.2</b>	<b>8027.5</b>	<b>8071.4</b>	<b>8087.8</b>	<b>8068.3</b>	<b>8061.6</b>	<b>8112.1</b>	<b>-0.3%</b>
<b>New Light Truck Sales 2/</b>																							
<b>Conventional Vehicles</b>																							
Gasoline ICE Vehicles	6063.4	6203.3	5950.6	6068.1	6006.9	5991.2	6009.4	5938.5	5851.9	5842.8	5837.5	5837.9	5958.2	6042.7	6130.8	6229.5	6322.8	6367.9	6387.3	6379.7	6380.9	6416.5	0.3%
TDI Diesel ICE	476.6	596.9	575.5	565.8	532.5	527.1	530.5	551.9	568.4	541.4	531.8	535.9	531.3	533.6	536.7	552.4	545.0	547.0	549.0	545.4	540.5	544.5	0.6%
<b>Total Conventional</b>	<b>6540.0</b>	<b>6800.3</b>	<b>6526.1</b>	<b>6633.9</b>	<b>6539.5</b>	<b>6518.3</b>	<b>6540.0</b>	<b>6490.4</b>	<b>6420.3</b>	<b>6384.2</b>	<b>6369.3</b>	<b>6373.7</b>	<b>6489.5</b>	<b>6576.4</b>	<b>6667.5</b>	<b>6781.8</b>	<b>6867.8</b>	<b>6914.9</b>	<b>6936.3</b>	<b>6925.0</b>	<b>6921.4</b>	<b>6961.1</b>	<b>0.3%</b>
<b>Alternative-Fuel Vehicles</b>																							
Methanol-Flex Fuel ICE	6.7	11.3	15.0	15.3	15.5	15.5	15.5	15.4	15.3	15.2	15.2	15.3	15.6	15.8	16.1	16.4	16.7	16.8	16.9	16.9	16.9	17.0	4.5%
Methanol ICE	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.4%
Ethanol-Flex Fuel ICE	401.0	432.8	423.2	435.0	427.6	430.3	431.5	426.1	419.1	419.1	419.6	421.0	433.5	442.9	452.7	463.7	474.3	480.0	483.1	483.2	484.0	488.1	0.9%
Ethanol ICE	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	-0.5%
Electric Vehicle	1.0	1.7	2.1	2.2	22.2	22.5	22.8	22.0	21.1	20.3	19.6	19.2	19.8	20.3	20.5	21.4	22.1	21.9	21.7	21.2	20.7	20.7	15.3%
Electric-Diesel Hybrid	0.0	2.6	2.6	2.6	19.1	21.0	21.5	24.6	27.3	28.0	29.6	32.2	34.7	37.7	41.0	46.0	48.5	49.3	49.7	49.0	47.9	47.3	42.5%
Electric-Gasoline Hybrid	0.8	34.2	31.8	32.4	213.5	222.4	216.5	224.0	231.7	239.5	248.3	258.8	275.0	290.5	306.0	322.6	339.9	346.3	351.2	354.3	357.6	363.4	33.8%
CNG ICE	5.8	6.8	6.5	6.8	6.9	7.4	7.7	8.0	8.2	8.0	8.0	8.1	8.2	8.3	8.4	8.7	8.8	9.0	9.1	9.1	9.2	9.4	2.3%
CNG Bi-fuel	31.2	49.1	57.9	59.1	60.1	60.6	60.9	60.9	60.7	60.2	60.2	60.7	61.9	63.1	64.5	66.5	68.0	69.3	70.4	71.3	72.4	74.5	4.2%
LPG ICE	6.6	7.5	6.5	7.4	7.4	7.1	6.9	6.8	6.8	6.8	6.9	7.1	7.3	7.5	8.1	8.6	8.8	9.2	9.7	10.2	10.9	11.9	2.9%
LPG Bi-fuel	18.2	26.3	31.5	32.1	32.6	32.6	32.7	32.6	32.3	32.2	32.2	32.3	33.0	33.5	34.1	34.8	35.4	35.7	35.9	36.0	36.1	36.4	3.4%
Fuel Cell Gasoline	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	0.0	0.0	0.1	0.4	1.0	2.4	5.0	9.7	17.3	N/A
Fuel Cell Methanol	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	N/A
Fuel Cell Hydrogen	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total Alternatives</b>	<b>471.7</b>	<b>572.7</b>	<b>577.5</b>	<b>593.2</b>	<b>805.1</b>	<b>819.7</b>	<b>816.4</b>	<b>820.5</b>	<b>822.8</b>	<b>829.7</b>	<b>839.9</b>	<b>854.9</b>	<b>889.3</b>	<b>920.0</b>	<b>951.7</b>	<b>989.0</b>	<b>1023.2</b>	<b>1038.8</b>	<b>1050.4</b>	<b>1056.6</b>	<b>1065.7</b>	<b>1086.5</b>	<b>4.1%</b>

**Table 45. Light-Duty Vehicle Sales by Technology Type (2 of 2)**  
**(Thousands)**  
**United States**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Percent Alternative Light Truck Sales	6.73	7.77	8.13	8.21	10.96	11.17	11.10	11.22	11.36	11.50	11.65	11.83	12.05	12.27	12.49	12.73	12.97	13.06	13.15	13.24	13.34	13.50	3.4%
Total New Truck Sales	7011.7	7372.9	7103.6	7227.1	7344.6	7338.0	7356.4	7311.0	7243.1	7213.8	7209.2	7228.6	7378.8	7496.4	7619.2	7770.8	7891.0	7953.7	7986.7	7981.7	7987.1	8047.5	0.7%
Percent Total Alternative Sales	3.67	4.83	5.20	5.27	9.82	9.98	9.58	9.76	9.95	10.13	10.31	10.52	10.74	10.97	11.19	11.44	11.66	11.74	11.82	11.89	11.97	12.09	5.8%
EPACT Legislative Alternative Sales	136.15	213.51	261.34	262.63	264.15	261.62	260.36	257.14	253.42	251.27	250.17	250.04	254.54	258.00	261.71	266.48	270.21	272.03	272.88	272.47	272.46	274.35	3.4%
ZEVP Legislative Alternative Sales	0.00	0.00	0.00	0.00	292.38	289.27	287.60	283.82	279.53	277.00	275.64	275.38	280.24	283.97	287.98	293.16	297.21	299.17	300.06	299.57	299.53	301.58	N/A
Total Vehicles Sales	15743.3	16258.6	15429.9	15500.5	15585.3	15432.0	15353.8	15161.4	14939.5	14810.8	14743.7	14734.5	14998.5	15201.4	15419.2	15699.0	15918.4	16025.0	16074.5	16050.0	16048.7	16159.6	0.1%

1/ Includes personal and fleet light-duty cars.

2/ Includes personal and fleet light-duty trucks.

ICE = Internal combustion engine.

EPACT = Energy Policy Act of 1992.

ZEVP = Zero emission vehicles from the low emission vehicle program.

N/A = Not applicable.

Sources: 1999 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (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); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 46. Light-Duty Vehicle Stock by Technology Type (1 of 2)**  
(Millions)

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
<b>Light-Duty Car Stock 1/</b>																							
Conventional Vehicles																							
Gasoline ICE Vehicles	119.80	119.40	118.42	117.42	115.96	114.45	113.03	111.58	110.07	108.57	107.10	105.67	104.40	103.26	102.26	101.43	100.75	100.19	99.72	99.32	99.00	98.79	-0.9%
TDI Diesel ICE	0.87	1.00	1.13	1.26	1.37	1.49	1.61	1.74	1.86	1.97	2.07	2.16	2.24	2.30	2.36	2.41	2.45	2.49	2.52	2.55	2.58	2.61	5.4%
Total Conventional	120.67	120.39	119.55	118.68	117.33	115.94	114.65	113.31	111.93	110.54	109.17	107.83	106.64	105.56	104.62	103.84	103.20	102.68	102.24	101.87	101.58	101.40	-0.8%
Alternative-Fuel Vehicles																							
Alcohol Fuel Technology																							
Methanol-Flex Fuel ICE	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	9.5%
Methanol ICE	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8%
Ethanol-Flex Fuel ICE	0.05	0.07	0.09	0.12	0.14	0.16	0.18	0.20	0.22	0.24	0.25	0.27	0.28	0.29	0.30	0.31	0.32	0.32	0.33	0.33	0.33	0.34	9.8%
Ethanol ICE	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.1%
Natural Gas Technology																							
CNG ICE	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	2.5%
CNG Bi-fuel	0.12	0.18	0.25	0.32	0.39	0.46	0.52	0.58	0.63	0.68	0.73	0.77	0.81	0.84	0.87	0.89	0.92	0.94	0.95	0.96	0.97	0.98	10.6%
LPG ICE	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	4.6%
LPG Bi-fuel	0.10	0.14	0.17	0.21	0.24	0.27	0.30	0.33	0.36	0.38	0.40	0.42	0.44	0.45	0.47	0.48	0.49	0.50	0.50	0.51	0.52	0.52	8.0%
Electric Technology																							
Electric Vehicle	0.00	0.01	0.01	0.01	0.11	0.21	0.31	0.40	0.49	0.58	0.67	0.75	0.84	0.92	0.99	1.06	1.13	1.19	1.24	1.28	1.32	1.36	30.6%
Electric-Diesel Hybrid	0.00	0.01	0.01	0.01	0.09	0.16	0.22	0.28	0.35	0.41	0.48	0.55	0.62	0.70	0.77	0.86	0.94	1.02	1.09	1.15	1.21	1.25	45.3%
Electric-Gasoline Hybrid	0.01	0.07	0.13	0.19	0.59	0.99	1.32	1.66	2.00	2.33	2.67	3.00	3.34	3.67	4.00	4.33	4.64	4.93	5.20	5.44	5.65	5.85	36.4%
Fuel Cell Technology																							
Fuel Cell Gasoline	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	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.06	N/A
Fuel Cell Methanol	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Alternatives	0.36	0.57	0.78	0.99	1.70	2.39	3.01	3.63	4.23	4.82	5.40	5.97	6.53	7.09	7.63	8.15	8.66	9.13	9.56	9.94	10.28	10.59	17.5%
Total Car Stock	121.03	120.96	120.33	119.67	119.03	118.34	117.66	116.94	116.16	115.37	114.57	113.80	113.17	112.65	112.25	111.99	111.86	111.81	111.80	111.81	111.86	112.00	-0.4%
<b>Light-Duty Truck Stock 1/</b>																							
Conventional Vehicles																							
Gasoline ICE Vehicles	66.26	69.71	72.78	75.83	78.67	81.33	83.85	86.13	88.16	90.02	91.71	93.24	94.76	96.23	97.67	99.09	100.51	101.87	103.16	104.37	105.50	106.59	2.3%
TDI Diesel ICE	2.28	2.82	3.32	3.81	4.26	4.70	5.12	5.55	5.97	6.35	6.69	7.01	7.30	7.57	7.82	8.06	8.27	8.47	8.65	8.82	8.96	9.10	6.8%
Total Conventional	68.54	72.53	76.10	79.64	82.93	86.03	88.97	91.68	94.14	96.37	98.40	100.25	102.06	103.80	105.48	107.15	108.78	110.34	111.82	113.19	114.46	115.69	2.5%
Alternative-Fuel Vehicles																							
Alcohol Fuel Technology																							
Methanol-Flex Fuel ICE	0.02	0.03	0.04	0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.25	0.26	13.3%
Methanol ICE	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.3%
Ethanol-Flex Fuel ICE	1.45	1.87	2.28	2.70	3.10	3.49	3.86	4.21	4.54	4.84	5.12	5.38	5.64	5.88	6.11	6.34	6.56	6.77	6.97	7.16	7.34	7.50	8.1%
Ethanol ICE	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.3%
Natural Gas Technology																							
CNG ICE	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.14	0.14	6.5%
CNG Bi-fuel	0.11	0.16	0.21	0.27	0.33	0.38	0.44	0.49	0.54	0.59	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.91	0.95	0.98	1.01	1.05	11.3%
LPG ICE	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.12	0.13	0.14	0.14	6.3%
LPG Bi-fuel	0.18	0.19	0.22	0.24	0.26	0.28	0.31	0.33	0.35	0.37	0.39	0.41	0.42	0.44	0.46	0.47	0.49	0.50	0.52	0.53	0.54	0.56	5.6%

**Table 46. Light-Duty Vehicle Stock by Technology Type (2 of 2)**  
(Millions)

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Electric Technology																							
Electric Vehicle	0.00	0.00	0.01	0.01	0.03	0.05	0.08	0.10	0.12	0.14	0.16	0.17	0.19	0.21	0.22	0.24	0.25	0.27	0.28	0.29	0.30	0.31	24.7%
Electric-Diesel Hybrid	0.00	0.00	0.01	0.01	0.03	0.05	0.07	0.09	0.12	0.15	0.18	0.21	0.24	0.27	0.31	0.35	0.39	0.43	0.47	0.50	0.54	0.57	49.6%
Electric-Gasoline Hybrid	0.00	0.04	0.07	0.10	0.31	0.54	0.75	0.97	1.20	1.42	1.66	1.90	2.14	2.39	2.65	2.91	3.18	3.44	3.69	3.93	4.16	4.38	40.3%
Fuel Cell Technology																							
Fuel Cell Gasoline	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	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	N/A
Fuel Cell Methanol	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cell 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Alternatives	1.84	2.39	2.94	3.50	4.26	5.02	5.75	6.47	7.16	7.84	8.48	9.11	9.74	10.37	10.98	11.60	12.21	12.80	13.37	13.92	14.44	14.95	10.5%
Total Truck Stock	70.38	74.92	79.05	83.14	87.19	91.04	94.72	98.15	101.30	104.20	106.88	109.37	111.80	114.16	116.47	118.75	120.99	123.14	125.19	127.10	128.90	130.63	3.0%
Total Vehicle Stock	191.41	195.88	199.38	202.81	206.22	209.38	212.38	215.09	217.46	219.57	221.45	223.16	224.97	226.82	228.71	230.74	232.85	234.95	236.99	238.91	240.75	242.63	1.1%

1/ Includes personal and fleet vehicles.

ICE = Internal combustion engine.

N/A = Not applicable.

Sources: 1999 derived using: Energy Information Administration (EIA), Household Vehicles Energy Consumption 1994, DOE/EIA-0464(94) (Washington, DC, August 1997); 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); Federal Highway Administration, Highway Statistics 1998 (Washington, DC, November 1999); Oak Ridge National Laboratory, Transportation Energy Data Book: 19 (Oak Ridge, TN, September 1999); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type (1 of 2)  
(Miles per Gallon Gasoline Equivalent)**

Technology Type	1999-																				1999-			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
<b>Automobiles 1/</b>																								
<b>Conventional Vehicles</b>																								
Gasoline ICE Vehicles	27.71	28.50	28.83	29.08	30.08	30.12	30.22	30.45	30.73	30.99	31.28	31.59	31.64	31.65	31.68	31.62	31.58	31.58	31.60	31.61	31.61	31.63	0.6%	
TDI Diesel ICE	37.68	38.86	39.27	39.53	40.59	40.54	40.67	40.90	41.19	41.42	41.75	42.10	42.27	42.36	42.34	42.25	42.17	42.14	42.15	42.18	42.21	42.29	0.6%	
<b>Alternative-Fuel Vehicles</b>																								
<b>Alcohol Fuel Technology</b>																								
Methanol-Flex Fuel ICE	27.04	27.56	27.82	28.10	29.02	29.03	29.16	29.37	29.66	29.95	30.24	30.55	30.66	30.67	30.70	30.66	30.63	30.62	30.64	30.66	30.67	30.70	0.6%	
Methanol ICE	28.80	29.53	29.83	30.12	31.10	31.11	31.25	31.50	31.78	32.06	32.33	32.63	32.72	32.72	32.75	32.69	32.64	32.62	32.63	32.65	32.64	32.66	0.6%	
Ethanol-Flex Fuel ICE	26.95	27.43	27.65	27.93	28.85	28.86	28.99	29.20	29.49	29.77	30.06	30.37	30.47	30.49	30.52	30.47	30.44	30.43	30.45	30.48	30.48	30.51	0.6%	
Ethanol ICE	27.70	28.42	28.68	28.97	29.93	29.94	30.07	30.33	30.60	30.88	31.14	31.43	31.50	31.51	31.54	31.49	31.45	31.43	31.45	31.47	31.46	31.48	0.6%	
<b>Natural Gas Technology</b>																								
CNG ICE	28.72	29.38	29.75	29.98	30.78	30.68	30.89	31.04	31.27	31.48	31.78	32.11	32.34	32.47	32.60	32.64	32.60	32.58	32.57	32.58	32.60	32.62	0.6%	
CNG Bi-fuel	26.86	27.42	27.74	27.97	28.75	28.67	28.86	29.00	29.22	29.43	29.74	30.06	30.28	30.40	30.53	30.55	30.52	30.49	30.49	30.50	30.52	30.54	0.6%	
LPG ICE	28.28	29.06	29.43	29.69	30.60	30.56	30.78	30.96	31.21	31.42	31.73	32.07	32.27	32.38	32.50	32.52	32.46	32.42	32.41	32.40	32.40	32.41	0.7%	
LPG Bi-fuel	26.75	27.33	27.66	27.89	28.69	28.61	28.81	28.95	29.17	29.38	29.70	30.03	30.23	30.35	30.48	30.51	30.47	30.45	30.45	30.46	30.48	30.50	0.6%	
<b>Electric Technology</b>																								
Electric Vehicle	27.16	28.67	29.32	29.50	30.19	32.88	36.40	40.83	46.61	46.44	46.36	46.33	46.22	46.16	46.19	46.10	46.06	46.01	45.96	45.92	45.90	45.89	2.5%	
Electric-Diesel Hybrid	42.77	43.90	44.30	44.31	44.67	44.14	43.90	43.82	43.81	43.68	43.63	43.69	43.48	43.36	43.29	43.15	43.00	42.88	42.82	42.74	42.68	42.65	0.0%	
Electric-Gasoline Hybrid	38.98	39.79	40.05	40.08	41.89	41.38	41.11	40.96	40.91	40.78	40.74	40.78	40.57	40.43	40.34	40.16	40.01	39.88	39.80	39.72	39.68	39.66	0.1%	
<b>Fuel Cell Technology</b>																								
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	44.84	44.57	44.33	44.10	43.94	43.88	43.78	43.76	43.86	43.90	44.01	44.14	44.28	44.45	44.65	44.87	N/A	
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	47.82	47.51	47.23	46.96	46.76	46.64	46.46	46.34	46.30	46.15	46.06	45.97	45.89	45.82	45.78	45.76	N/A	
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	52.22	51.85	51.52	51.17	50.92	50.80	50.63	50.53	50.52	50.40	50.33	50.25	50.18	50.12	50.08	50.06	N/A	
Average New Car Miles per Gallon	27.87	28.74	29.07	29.32	30.74	30.80	30.86	31.14	31.47	31.73	32.02	32.34	32.40	32.42	32.46	32.43	32.40	32.40	32.42	32.43	32.43	32.46	0.7%	
<b>Light-Duty Trucks 1/</b>																								
<b>Conventional Vehicles</b>																								
Gasoline ICE Vehicles	20.40	20.75	21.27	21.34	21.61	21.50	21.54	21.64	21.80	21.98	22.20	22.47	22.62	22.79	22.96	23.09	23.22	23.36	23.51	23.70	23.91	23.92	0.8%	
TDI Diesel ICE	28.02	28.30	28.96	29.03	29.40	29.18	29.20	29.25	29.38	29.62	29.86	30.19	30.36	30.54	30.74	30.85	30.99	31.11	31.28	31.48	31.73	31.77	0.6%	
<b>Alternative-Fuel Vehicles</b>																								
<b>Alcohol Fuel Technology</b>																								
Methanol-Flex Fuel ICE	20.14	20.50	21.02	21.12	21.52	21.44	21.47	21.60	21.78	21.98	22.22	22.50	22.65	22.82	23.00	23.12	23.26	23.39	23.55	23.74	23.96	23.98	0.8%	
Methanol ICE	22.87	23.52	24.20	24.21	24.48	24.33	24.35	24.43	24.58	24.72	24.93	25.22	25.35	25.51	25.67	25.79	25.90	26.01	26.14	26.31	26.49	26.47	0.7%	
Ethanol-Flex Fuel ICE	20.78	21.17	21.61	21.66	22.00	21.85	21.86	21.95	22.11	22.27	22.49	22.77	22.90	23.06	23.23	23.36	23.49	23.60	23.74	23.91	24.10	24.12	0.7%	
Ethanol ICE	22.26	22.87	23.54	23.55	23.89	23.72	23.73	23.78	23.90	24.03	24.23	24.49	24.62	24.77	24.93	25.04	25.16	25.26	25.37	25.52	25.70	25.68	0.7%	
<b>Natural Gas Technology</b>																								
CNG ICE	21.80	22.17	22.75	22.82	23.18	23.06	23.10	23.21	23.38	23.54	23.75	23.98	24.10	24.22	24.34	24.42	24.51	24.59	24.72	24.88	25.04	25.17	0.7%	
CNG Bi-fuel	19.68	20.02	20.55	20.65	21.00	20.91	20.95	21.07	21.23	21.41	21.62	21.85	21.98	22.12	22.25	22.33	22.43	22.53	22.65	22.81	22.98	23.11	0.8%	
LPG ICE	22.31	22.77	23.32	23.29	23.60	23.39	23.36	23.40	23.52	23.65	23.84	24.06	24.18	24.31	24.42	24.50	24.59	24.67	24.81	24.96	25.13	25.28	0.6%	
LPG Bi-fuel	19.79	20.15	20.66	20.76	21.14	21.06	21.09	21.22	21.39	21.56	21.78	22.01	22.14	22.28	22.41	22.50	22.61	22.71	22.85	23.02	23.20	23.35	0.8%	
<b>Electric Technology</b>																								
Electric Vehicle	20.33	21.64	22.60	22.68	25.80	28.03	30.98	34.60	39.33	38.95	38.60	38.26	38.02	37.79	37.55	37.37	37.21	37.06	36.94	36.82	36.71	36.63	2.8%	
Electric-Diesel Hybrid	34.10	33.88	34.64	34.61	35.22	34.70	34.46	34.28	34.18	34.04	33.99	34.00	33.83	33.70	33.63	33.52	33.41	33.32	33.25	33.18	33.12	33.09	-0.1%	
Electric-Gasoline Hybrid	31.49	31.72	32.29	32.23	32.75	32.24	32.00	31.84	31.74	31.61	31.56	31.58	31.41	31.29	31.21	31.06	30.92	30.83	30.78	30.73	30.71	30.70	-0.1%	

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type (2 of 2)  
(Miles per Gallon Gasoline Equivalent)**

Technology Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Fuel Cell Technology																							
Fuel Cell Gasoline	0.00	0.00	0.00	0.00	0.00	0.00	38.77	38.40	38.05	37.65	37.20	36.75	36.37	35.99	35.58	35.22	34.88	34.55	34.27	34.00	33.76	33.55	N/A
Fuel Cell Methanol	0.00	0.00	0.00	0.00	0.00	0.00	41.38	40.97	40.59	40.15	39.64	39.10	38.64	38.22	37.77	37.37	37.02	36.67	36.37	36.10	35.84	35.63	N/A
Fuel Cell Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	45.25	44.74	44.26	43.70	43.04	42.35	41.91	41.58	41.26	41.01	40.80	40.59	40.42	40.27	40.13	40.02	N/A
Average New Truck Miles per Gallon	20.80	21.26	21.79	21.84	22.32	22.20	22.23	22.37	22.56	22.72	22.94	23.22	23.37	23.54	23.71	23.85	23.98	24.10	24.26	24.43	24.64	24.66	0.8%
Fleet Average Stock Car Miles per Gallon	23.53	23.75	23.74	23.92	24.24	24.44	24.65	24.83	25.01	25.22	25.41	25.57	25.76	25.93	26.07	26.23	26.36	26.46	26.56	26.65	26.76	26.82	0.6%
Fleet Average Stock Truck Miles per Gallon	16.83	16.89	16.88	16.96	17.13	17.20	17.27	17.33	17.39	17.47	17.53	17.61	17.66	17.74	17.82	17.88	17.96	18.04	18.12	18.20	18.28	18.35	0.4%
Fleet Average Stock Vehicle Miles per Gallon	20.52	20.55	20.44	20.47	20.62	20.66	20.71	20.74	20.77	20.84	20.88	20.93	20.98	21.04	21.10	21.15	21.21	21.26	21.31	21.37	21.43	21.48	0.2%

1/ Fuel efficiencies are EPA rated. Includes personal and fleet vehicles.

2/ Stock values are on-road efficiencies. Includes personal vehicles, fleet vehicles, and freight light trucks.

ICE = Internal combustion engine.

Sources: 1999 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; Federal Highway Administration, Highway Statistics 1998 (Washington, DC, November 1999); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 48. Light-Duty Vehicle Miles Traveled by Technology Type (1 of 1)  
(Billion Miles, Unless Otherwise Noted)**

Technology Type																					1999-		
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
<b>Conventional Vehicles 1/</b>																							
Gasoline ICE Vehicles	2329.1	2329.4	2385.3	2447.1	2490.3	2527.5	2566.6	2603.7	2636.9	2673.6	2707.6	2738.6	2767.0	2796.1	2827.4	2859.6	2893.2	2924.1	2954.1	2983.5	3013.2	3043.2	1.3%
TDI Diesel ICE	35.5	42.0	49.7	57.8	65.2	72.5	80.0	87.7	95.5	103.0	110.0	116.7	122.7	128.3	133.5	138.6	143.2	147.4	151.3	155.0	158.5	161.8	7.5%
<b>Alternative-Fuel Vehicles</b>																							
<b>Alcohol Fuel Technology</b>																							
Methanol-Flex Fuel ICE	0.8	1.2	1.8	2.4	2.9	3.4	3.8	4.1	4.4	4.6	4.9	5.1	5.3	5.5	5.8	6.0	6.2	6.4	6.6	6.7	6.9	7.0	11.1%
Methanol ICE	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.9%
Ethanol-Flex Fuel ICE	17.6	22.7	28.6	34.8	40.7	46.5	52.1	57.3	62.1	66.9	71.4	75.8	79.9	84.0	88.0	91.8	95.6	99.2	102.7	105.9	109.1	112.2	9.2%
Ethanol ICE	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0%
<b>Natural Gas Technology</b>																							
CNG ICE	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.2	2.3	2.4	2.5	2.6	2.6	2.7	2.8	2.8	2.9	5.8%
CNG Bi-fuel	4.7	7.3	10.4	13.4	16.2	18.6	20.5	22.0	23.3	24.5	25.7	26.8	28.0	29.0	30.1	31.2	32.2	33.1	34.0	34.8	35.5	36.3	10.2%
LPG ICE	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	7.0%
LPG Bi-fuel	4.7	6.0	7.5	8.9	10.2	11.4	12.3	13.0	13.6	14.1	14.6	15.2	15.7	16.2	16.7	17.1	17.6	18.1	18.4	18.8	19.1	19.4	6.9%
<b>Electric Technology</b>																							
Electric Vehicle	0.2	0.3	0.4	0.5	2.0	3.4	4.9	6.3	7.8	9.2	10.7	12.1	13.5	14.9	16.2	17.5	18.8	19.9	20.9	21.8	22.6	23.3	26.3%
Electric-Diesel Hybrid	0.0	0.1	0.2	0.3	1.3	2.4	3.4	4.5	5.7	6.9	8.2	9.6	11.0	12.6	14.2	15.9	17.7	19.4	21.1	22.6	23.9	25.2	47.8%
Electric-Gasoline Hybrid	0.1	1.2	2.3	3.4	10.5	17.8	24.6	31.7	38.9	46.5	54.4	62.4	70.5	78.9	87.3	95.8	104.4	112.6	120.3	127.7	134.7	141.3	39.1%
<b>Fuel Cell Technology</b>																							
Fuel Cell Gasoline	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	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.7	1.3	N/A
Fuel Cell Methanol	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cell Hydrogen	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Vehicle Miles Traveled Equation Components</b>																							
Total VMT (billion miles)	2394.2	2411.9	2488.1	2570.8	2641.8	2706.2	2771.1	2833.4	2891.4	2952.9	3011.3	3066.2	3117.7	3169.6	3223.6	3278.1	3333.6	3385.0	3434.5	3482.3	3529.6	3576.5	1.9%
VMT/Driving Population (thousand miles per person)	11.4	11.6	11.9	12.1	12.3	12.4	12.6	12.7	12.8	12.9	13.1	13.2	13.3	13.4	13.5	13.6	13.8	13.9	14.0	14.1	14.2	14.3	1.1%
Driving Population (million)	210.9	213.1	215.4	217.7	220.0	222.4	224.8	227.3	229.7	232.1	234.4	236.6	238.7	240.7	242.7	244.7	246.7	248.7	250.6	252.6	254.5	256.5	0.9%
<b>Price Effects</b>																							
Motor Gasoline Price (1987 dollars per gallon)	7.02	8.88	8.38	8.03	7.87	7.89	7.90	8.02	8.19	8.06	8.04	8.13	8.04	8.02	8.00	8.02	7.98	7.97	7.97	7.95	7.92	7.93	0.6%
Fleet Miles per Gallon	20.66	20.69	20.57	20.59	20.73	20.75	20.78	20.81	20.85	20.91	20.96	21.01	21.05	21.11	21.16	21.21	21.27	21.33	21.39	21.44	21.51	21.56	0.2%
Real Cost of Driving per Mile (1987 dollars)	5.477	6.922	6.569	6.290	6.124	6.130	6.128	6.214	6.332	6.215	6.184	6.240	6.156	6.128	6.096	6.099	6.048	6.022	6.006	5.974	5.936	5.928	0.4%
Point Price Elasticity	-0.042	-0.053	-0.049	-0.046	-0.044	-0.043	-0.043	-0.043	-0.044	-0.042	-0.042	-0.042	-0.041	-0.040	-0.040	-0.039	-0.039	-0.038	-0.038	-0.037	-0.037	-0.037	-0.7%
<b>Income Effects</b>																							
Disposable Income (billion 1987 dollars)	5464.0	5625.2	5894.7	6077.5	6238.4	6413.2	6613.8	6821.0	7019.8	7229.4	7445.3	7666.3	7878.9	8111.6	8362.9	8627.7	8896.7	9163.1	9422.5	9670.9	9917.3	10168.1	3.0%
Point Income Elasticity	0.333	0.336	0.340	0.341	0.342	0.344	0.348	0.352	0.356	0.360	0.365	0.369	0.374	0.378	0.383	0.389	0.394	0.399	0.404	0.408	0.412	0.416	1.1%
<b>Demographic Driving Population Effect</b>																							
Percentage Female Driving Population	0.729	0.744	0.757	0.766	0.774	0.780	0.785	0.789	0.791	0.794	0.795	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.4%
Point Demographic Elasticity	0.423	0.427	0.422	0.420	0.418	0.416	0.414	0.412	0.410	0.406	0.404	0.401	0.398	0.394	0.391	0.387	0.384	0.380	0.377	0.374	0.372	0.369	-0.6%

1/ Includes personal and fleet vehicles. Includes both cars and light trucks.

VMT = Vehicle miles traveled.

ICE = Internal combustion engine.

MmBtu = Million British thermal units.

N/A = Not applicable.

Sources: 1999 derived using: Federal Highway Administration, Highway Statistics 1998 (Washington, DC, November 1999); Oak Ridge National Laboratory, Transportation Energy Data Book: 19 (Oak Ridge, TN, September 1999); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 49. Summary of New Light-Duty Vehicle Size Class Attributes (1 of 2)**

Class Attributes	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Personal Vehicles																							
EPA Rated New Vehicle Fuel Efficiency																							
Conventional Cars (MPG)																							
Minicompact	24.600	24.654	24.815	25.214	26.546	26.607	26.772	26.885	26.974	27.064	27.215	27.388	27.420	27.492	27.599	27.643	27.714	27.794	27.840	27.881	27.940	27.986	0.6%
Subcompact	31.825	32.325	32.826	33.246	34.602	34.732	34.986	35.268	35.723	36.060	36.516	36.807	36.828	36.844	36.876	36.840	36.793	36.767	36.759	36.754	36.758	36.782	0.7%
Compact	29.684	30.550	30.889	31.100	32.151	32.130	32.173	32.463	32.691	32.939	33.285	33.649	33.709	33.699	33.710	33.635	33.576	33.542	33.550	33.547	33.532	33.541	0.6%
Midsize	26.947	27.553	27.886	28.191	29.205	29.279	29.388	29.604	29.876	30.158	30.371	30.607	30.602	30.627	30.674	30.642	30.630	30.677	30.720	30.754	30.759	30.785	0.6%
Large	24.746	25.325	25.721	25.948	26.704	26.761	26.863	27.010	27.272	27.559	27.929	28.327	28.575	28.580	28.600	28.544	28.491	28.461	28.462	28.460	28.469	28.503	0.7%
Two Seater	25.830	27.033	27.312	27.659	28.865	28.882	29.039	29.191	29.351	29.529	29.776	30.056	30.183	30.245	30.343	30.352	30.390	30.443	30.486	30.529	30.590	30.647	0.8%
Average New Car	28.101	28.951	29.260	29.504	30.551	30.586	30.683	30.920	31.205	31.462	31.765	32.080	32.130	32.133	32.155	32.102	32.054	32.047	32.060	32.065	32.058	32.075	0.6%
Average New Car On-Road MPG	23.966	24.691	24.745	24.949	25.924	25.924	26.005	26.181	26.390	26.607	26.828	27.029	27.035	27.004	26.956	26.878	26.804	26.735	26.711	26.678	26.669	26.649	0.5%
Conventional Light Trucks																							
Small Pickup	25.052	25.464	26.121	26.146	26.292	26.135	26.131	26.139	26.235	26.373	26.587	26.868	27.024	27.197	27.383	27.507	27.652	27.807	27.974	28.157	28.371	28.381	0.6%
Large Pickup	18.500	18.743	19.204	19.226	19.381	19.291	19.341	19.458	19.593	19.737	19.915	20.146	20.289	20.450	20.585	20.693	20.823	20.960	21.115	21.306	21.502	21.491	0.7%
Small Van	25.029	25.473	26.233	26.223	26.400	26.173	26.157	26.184	26.280	26.415	26.649	26.947	27.142	27.343	27.538	27.672	27.837	28.035	28.240	28.488	28.761	28.782	0.7%
Large Van	18.000	18.362	18.889	19.031	19.373	19.349	19.420	19.624	19.856	20.085	20.358	20.641	20.783	20.956	21.111	21.221	21.352	21.489	21.650	21.852	22.073	22.086	1.0%
Small Utility	21.200	21.698	22.184	22.289	22.911	22.808	22.786	22.822	22.943	23.099	23.320	23.586	23.736	23.902	24.105	24.262	24.399	24.509	24.639	24.799	24.994	25.031	0.8%
Large Utility	16.945	16.974	17.396	17.482	17.757	17.711	17.780	17.961	18.186	18.408	18.657	18.946	19.087	19.247	19.391	19.528	19.659	19.769	19.903	20.053	20.231	20.251	0.9%
Average New Light Truck	20.662	20.996	21.506	21.558	21.808	21.682	21.712	21.811	21.964	22.127	22.345	22.614	22.764	22.931	23.099	23.232	23.370	23.502	23.653	23.832	24.035	24.049	0.7%
Average New Light Truck On-Road	16.664	16.911	17.198	17.238	17.498	17.376	17.399	17.461	17.561	17.691	17.840	18.033	18.103	18.212	18.321	18.379	18.463	18.545	18.639	18.752	18.886	18.871	0.6%
Degradation Factors 1/																							
Cars	0.853	0.853	0.846	0.846	0.849	0.848	0.848	0.847	0.846	0.846	0.845	0.843	0.841	0.840	0.838	0.837	0.836	0.834	0.833	0.832	0.832	0.831	-0.1%
Light Trucks	0.806	0.805	0.800	0.800	0.802	0.801	0.801	0.801	0.800	0.800	0.798	0.797	0.795	0.794	0.793	0.791	0.790	0.789	0.788	0.787	0.786	0.785	-0.1%
New Fuel Efficiency by Size Class 2/																							
Alternative-Fuel Cars																							
Minicompact	26.13	32.65	32.63	32.75	34.86	34.46	34.36	34.38	34.44	34.51	34.60	34.73	34.69	34.74	34.71	34.74	34.75	34.80	34.93	35.14	35.44	1.5%	
Subcompact	33.036	42.229	42.768	42.861	46.410	45.892	45.572	45.430	45.366	45.266	45.251	45.300	45.103	44.963	44.864	44.683	44.522	44.399	44.344	44.322	44.377	44.519	1.4%
Compact	30.938	41.071	41.493	41.507	44.644	44.122	43.764	43.580	43.490	43.328	43.270	43.289	43.057	42.896	42.781	42.594	42.409	42.257	42.161	42.074	42.026	42.027	1.5%
Midsize	28.834	36.400	36.698	36.787	36.614	37.428	38.408	39.823	41.389	41.283	41.248	41.273	41.121	41.023	40.983	40.849	40.742	40.664	40.619	40.587	40.583	40.599	1.6%
Large	26.433	32.919	33.558	33.647	37.043	36.611	36.301	36.195	36.181	36.132	36.173	36.246	36.105	36.007	35.938	35.799	35.662	35.575	35.543	35.522	35.541	35.585	1.4%
Two Seater	26.969	35.712	35.947	36.067	38.565	38.120	37.954	37.949	37.998	38.052	38.153	38.296	38.235	38.211	38.238	38.185	38.176	38.164	38.209	38.316	38.505	38.806	1.7%
Average New Alternative Cars	28.918	37.151	37.458	37.500	39.235	39.593	40.039	40.867	41.771	41.652	41.623	41.666	41.485	41.368	41.299	41.149	41.007	40.898	40.834	40.783	40.767	40.789	1.7%
Alternative-Fuel Light Trucks																							
Small Pickup	25.298	26.010	26.682	26.699	28.295	28.263	28.305	28.485	28.761	29.024	29.369	29.786	30.040	30.317	30.612	30.844	31.091	31.282	31.495	31.720	31.966	32.126	1.1%
Large Pickup	18.680	18.979	19.446	19.468	20.097	20.064	20.145	20.347	20.588	20.810	21.070	21.394	21.613	21.860	22.097	22.307	22.540	22.709	22.895	23.110	23.325	23.419	1.1%
Small Van	25.344	26.723	27.514	27.491	31.408	31.158	30.990	31.047	31.174	31.275	31.458	31.699	31.796	31.909	32.015	32.054	32.112	32.160	32.230	32.318	32.426	32.428	1.2%
Large Van	18.283	19.402	19.959	20.093	22.434	22.421	22.409	22.651	22.952	23.206	23.514	23.830	23.961	24.122	24.289	24.398	24.522	24.617	24.732	24.880	25.063	25.206	1.5%
Small Utility	21.441	22.512	22.996	23.097	25.845	25.848	25.868	26.060	26.315	26.414	26.583	26.818	26.925	27.053	27.214	27.338	27.431	27.473	27.545	27.639	27.767	27.828	1.2%
Large Utility	17.136	17.341	17.766	17.846	19.223	19.196	19.216	19.428	19.693	19.925	20.191	20.496	20.633	20.795	20.953	21.088	21.212	21.278	21.369	21.475	21.605	21.637	1.1%
Average New Alternative Light Truck	20.838	21.801	22.263	22.295	25.055	24.959	24.930	25.136	25.405	25.546	25.758	26.039	26.152	26.296	26.444	26.557	26.650	26.702	26.785	26.890	27.024	27.069	1.3%
Fleet Vehicles																							
EPA Rated New Vehicle Fuel Efficiency																							
Cars	26.536	27.141	27.496	27.777	28.717	28.780	28.896	29.097	29.369	29.649	29.916	30.204	30.279	30.303	30.347	30.311	30.286	30.305	30.333	30.356	30.362	30.390	0.6%
Light Trucks	19.856	20.242	20.781	20.875	21.228	21.150	21.188	21.320	21.494	21.679	21.917	22.188	22.339	22.511	22.678	22.801	22.937	23.075	23.233	23.429	23.646	23.666	0.8%















**Table 54. Air Travel Energy Use (2 of 2)**

Indicators	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Aircraft Stock Efficiency 3/																							
Narrow Body Aircraft	47.6	47.9	48.3	48.6	48.9	49.3	49.7	50.1	50.4	50.8	51.2	51.6	52.0	52.4	52.8	53.2	53.6	54.0	54.4	54.8	55.3	55.7	0.7%
Wide Body Aircraft	56.8	57.1	57.4	57.7	58.0	58.4	58.7	59.1	59.4	59.8	60.1	60.5	60.8	61.2	61.6	61.9	62.3	62.6	63.0	63.3	63.7	64.0	0.6%
Average Aircraft	51.7	52.1	52.5	52.8	53.2	53.6	54.0	54.4	54.9	55.3	55.7	56.1	56.5	56.9	57.4	57.8	58.2	58.6	59.1	59.5	59.9	60.3	0.7%
Fuel Consumption (trillion Btu)																							
Commercial																							
Jet Fuel	2982.8	3060.2	3100.4	3116.1	3211.3	3304.3	3411.2	3519.8	3627.5	3742.8	3861.0	3984.6	4106.7	4238.8	4376.6	4520.3	4665.6	4812.2	4958.9	5101.5	5245.2	5393.8	2.9%
Aviation Gasoline	42.7	42.6	42.5	42.4	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	-0.1%
Military																							
Jet Fuel	479.2	480.8	491.0	489.2	488.9	490.4	496.3	504.5	512.5	520.5	528.1	535.8	543.2	550.1	556.7	563.2	569.7	576.3	583.0	589.8	596.6	603.6	1.1%

1/ Fraction of seats filled.

2/ 1992 cents per passenger mile.

3/ Seat miles per gallon.

RPM = Revenue passenger miles.

GDP = Gross domestic product.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 1999 derived using: Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Model Maintenance Re-Estimation of the Air Travel Demand Model, Subtask 22-1(a), (September 30, 1997); Federal Aviation Administration (FAA), FAA Aviation Forecasts, Fiscal Years 1998-2009, FAA-APO 98-1, and previous editions; United States Department of Transportation (DOT), Research and Special Programs Administration (RSPA), Fuel Cost and Consumption Tables, annual summaries, 1979-1990; U.S. Department of Transportation, RSPA, Air Carrier Financial Statistics Quarterly, December 1999/1998; U.S. Department of Transportation, RSPA, Air Carrier Statistics Monthly, December 1999/1998 (Washington, DC, 1999); Greene, D.L., "Energy Efficiency Improvement Potential of Commercial Aircraft to 2010," ORNL-6622, 6/1990; Rathi, A. B. Peterson, and D. Greene, Air Transport Energy Use Model, Oak Ridge National Laboratory, April 1991, Draft; Energy Information Administration (EIA), State Energy Data Report 1997, DOE/EIA-0214(97) (Washington, DC, September 1999); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 1999; and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA AEO2001 National Energy Modeling System run AEO2001.D101600A.





Table 55. Freight Transportation Energy Use (2 of 3)

Table with columns for Technology and Fuel Type, and rows for Stock (millions), Fuel Efficiency (gasoline equivalent), Sales (millions), and Railroads. The table provides data from 1999 to 2020 for various fuel types including Diesel, Gasoline, Liquefied Petroleum Gas, and Compressed Natural Gas.

**Table 55. Freight Transportation Energy Use (3 of 3)**

	1999-																						
Technology and Fuel Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Domestic Shipping																							
Ton Miles Shipping (billion ton miles)	661.22	683.93	692.99	710.89	722.34	726.66	732.78	739.25	746.89	755.74	764.01	775.45	783.05	793.09	805.17	817.86	832.31	845.70	858.43	869.80	878.79	889.79	1.4%
Fuel Efficiency (ton miles per thousa	2.32	2.35	2.38	2.41	2.44	2.47	2.50	2.53	2.56	2.59	2.62	2.65	2.68	2.72	2.75	2.78	2.82	2.85	2.88	2.92	2.96	2.99	1.2%
Fuel Consumption (trillion Btu)																							
Distillate (diesel)	201.89	206.90	207.13	209.93	210.75	209.47	208.70	208.01	207.64	207.58	207.33	207.91	207.43	207.57	208.20	208.95	210.09	210.90	211.51	211.74	211.36	211.44	0.2%
Residual Oil	82.94	84.18	84.27	85.41	85.74	85.22	84.90	84.63	84.48	84.45	84.35	84.59	84.39	84.45	84.70	85.01	85.47	85.80	86.05	86.14	85.99	86.02	0.2%
Motor Gasoline	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
International Shipping																							
Gross Trade (billion 1996 dollars)	1916.48	2155.84	2337.18	2513.91	2720.10	2934.98	3170.72	3409.42	3668.02	3947.33	4251.64	4578.03	4920.80	5295.07	5689.62	6116.38	6572.31	7044.63	7544.96	8068.31	8621.78	9219.18	7.8%
Exports (billion 1996 dollars)	752.20	839.04	902.50	986.00	1076.36	1171.35	1277.16	1389.80	1509.50	1637.78	1777.06	1929.50	2087.92	2259.23	2442.40	2638.39	2848.96	3068.42	3300.42	3546.81	3805.23	4079.38	8.4%
Imports (billion 1996 dollars)	1164.27	1316.80	1434.68	1527.91	1643.74	1763.63	1893.56	2019.61	2158.52	2309.55	2474.58	2648.53	2832.87	3035.84	3247.22	3478.00	3723.34	3976.21	4244.54	4521.50	4816.55	5139.80	7.3%
Fuel Consumption (trillion Btu)																							
Distillate (diesel)	44.87	52.65	52.65	52.74	52.85	52.95	53.05	53.15	53.25	53.34	53.44	53.54	53.63	53.73	53.83	53.92	54.02	54.11	54.20	54.29	54.38	54.47	0.9%
Residual Oil	638.60	742.07	742.07	743.45	744.93	746.36	747.80	749.15	750.52	751.89	753.27	754.65	756.00	757.37	758.71	760.06	761.40	762.69	763.97	765.22	766.46	767.71	0.9%

VMT = Vehicle miles traveled.

MPG = Miles per gallon.

Btu = British thermal unit.

N/A = Not applicable.

Sources: 1999 derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: 17, 18, and 19 (Oak Ridge, TN, September 1999); United States Department of Transportation, 1989 Carload Waybill Statistics Traffic and Revenue by Commodity Classes, September 1991 and prior issues; Reebie Associates, TRANSEARCH Database, (Greenwich, Connecticut, 1989); Army Corps of Engineers, Waterborne Commerce of the United States, (New Orleans), 1991 and prior issues; U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 1998 (Washington, DC, November 1999); and Energy Information Administration (EIA), AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

























**Table 59. Electric Power Projections for EMM Region (3 of 3)  
East Central Area Reliability Coordination Agreement**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	3.9	3.9	3.9	3.7	3.8	3.7	3.4	3.4	3.2	3.1	3.0	3.0	3.0	2.9	3.0	3.0	3.1	3.1	3.2	3.2	3.2	3.2	-1.0%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2%
Distribution	1.6	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	-0.4%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	4.91	5.11	5.28	5.35	5.39	5.40	5.37	5.31	5.35	5.36	5.31	5.37	5.39	5.41	5.46	5.49	5.57	5.58	5.68	5.72	5.77	5.84	0.8%
Natural Gas	0.20	0.21	0.25	0.31	0.34	0.42	0.49	0.58	0.68	0.79	0.88	0.96	1.00	1.07	1.11	1.15	1.23	1.28	1.36	1.48	1.51	1.56	10.1%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	-4.9%
Total	5.13	5.34	5.54	5.66	5.74	5.83	5.87	5.90	6.03	6.15	6.20	6.33	6.40	6.48	6.57	6.64	6.80	6.86	7.04	7.21	7.28	7.40	1.8%
Emissions (million short tons) 9/																							
Total Carbon	140.78	147.07	152.28	155.23	157.02	158.52	158.91	158.35	160.99	162.94	163.02	165.93	167.37	168.86	171.02	172.54	176.06	177.19	181.29	184.50	186.32	189.08	1.4%
Carbon Dioxide	516.19	539.26	558.34	569.17	575.74	581.25	582.68	580.63	590.30	597.46	597.74	608.39	613.70	619.16	627.07	632.65	645.54	649.70	664.73	676.49	683.16	693.30	1.4%
Sulfur Dioxide	3.98	3.60	3.56	3.56	3.35	3.09	2.95	2.67	2.64	2.55	2.52	2.49	2.45	2.44	2.45	2.43	2.44	2.37	2.38	2.40	2.40	2.40	-2.4%
Nitrogen Oxide	1.49	1.26	1.29	1.31	1.04	0.97	0.97	0.96	0.97	0.98	0.97	0.98	0.99	0.99	1.00	1.00	1.02	1.02	1.04	1.05	1.05	1.06	-1.6%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.







**Table 60. Electric Power Projections for EMM Region (3 of 3)**  
**Electric Reliability Council of Texas**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	4.4	4.7	4.7	4.3	4.3	4.4	4.2	3.9	3.8	3.5	3.3	3.2	3.2	3.2	3.2	3.3	3.4	3.5	3.6	3.8	3.9	4.0	-0.4%
Transmission	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.7%
Distribution	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	-0.1%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	1.11	1.13	1.14	1.15	1.16	1.17	1.23	1.33	1.38	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.1%
Natural Gas	1.01	0.99	1.03	1.08	1.14	1.19	1.17	1.08	1.04	1.03	1.05	1.08	1.10	1.13	1.17	1.20	1.23	1.27	1.30	1.33	1.36	1.38	1.5%
Oil	0.03	0.01	0.01	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	0.00	0.00	0.00	0.00	0.00	0.00	-12.7%
Total	2.15	2.13	2.17	2.24	2.31	2.36	2.39	2.41	2.42	2.42	2.44	2.47	2.49	2.52	2.56	2.59	2.62	2.66	2.69	2.72	2.75	2.77	1.2%
Emissions (million short tons) 9/																							
Total Carbon	48.58	48.56	49.35	50.38	51.65	52.64	53.79	55.53	56.23	56.39	56.68	57.22	57.55	58.04	58.53	59.06	59.61	60.25	60.77	61.26	61.74	62.19	1.2%
Carbon Dioxide	178.14	178.04	180.96	184.74	189.37	193.01	197.24	203.62	206.19	206.76	207.81	209.81	211.01	212.81	214.62	216.55	218.55	220.92	222.82	224.60	226.38	228.02	1.2%
Sulfur Dioxide	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.1%
Nitrogen Oxide	0.32	0.30	0.31	0.31	0.32	0.33	0.32	0.31	0.30	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	-0.9%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 61. Electric Power Projections for EMM Region (1 of 3)  
Mid-Atlantic Area Council**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Electricity Generating Capability 1/ (gigawatts)																							
Coal Steam	18.57	18.41	18.22	18.22	18.18	18.18	18.13	18.13	18.13	18.13	18.13	18.06	18.06	18.06	18.06	18.06	17.89	17.89	17.89	17.89	17.89	17.89	-0.2%
Other Fossil Steam 2/	8.51	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	-0.4%
Combined Cycle	1.97	1.97	1.97	1.97	1.97	1.97	3.93	5.88	6.99	8.34	8.87	9.99	10.43	10.96	11.44	11.94	12.92	13.63	14.65	15.45	16.20	16.83	10.8%
Combustion Turbine/Diesel	9.11	9.34	9.84	10.86	11.95	12.62	14.69	15.25	17.34	17.34	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	18.09	18.09	18.09	18.35	3.4%
Nuclear Power	13.02	13.02	13.02	13.02	13.02	13.02	13.02	13.02	13.02	13.02	13.02	12.40	12.40	12.40	12.40	11.62	11.62	10.51	10.51	10.51	10.51	10.51	-1.5%
Pumped Storage/Other 3/	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.04	0.07	0.10	0.15	0.20	0.27	0.27	0.27	0.27	0.29	0.29	0.29	0.29	0.29	N/A
Renewable Sources 4/	1.70	1.71	1.72	1.73	1.77	1.84	1.94	1.99	2.09	2.24	2.45	2.72	3.04	3.42	3.42	3.42	3.42	3.54	3.54	3.54	3.54	3.54	3.5%
Total Capability	54.22	54.08	54.39	55.42	56.65	57.56	61.86	64.63	68.15	69.74	70.61	71.42	72.30	73.33	73.87	73.64	74.50	74.30	75.92	76.76	77.56	77.38	1.7%
Cumulative Planned Additions 5/																							
Coal Steam	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Nuclear Power	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.04	0.07	0.10	0.15	0.20	0.27	0.27	0.27	0.27	0.29	0.29	0.29	0.29	0.29	N/A
Renewable Sources 4/	0.00	0.01	0.02	0.03	0.06	0.09	0.12	0.17	0.27	0.42	0.63	0.90	1.22	1.60	1.60	1.60	1.60	1.72	1.72	1.72	1.72	1.72	N/A
Total Planned Additions	0.00	0.01	0.02	0.03	0.07	0.10	0.13	0.19	0.31	0.49	0.73	1.04	1.42	1.87	1.87	1.87	1.87	2.01	2.01	2.01	2.01	2.01	N/A
Cumulative Unplanned Additions 5/																							
Coal Steam	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	0.00	0.00	0.00	0.00	0.00	0.00	1.96	3.92	5.02	6.37	6.90	8.02	8.46	8.99	9.47	9.97	10.95	11.66	12.69	13.48	14.24	14.86	N/A
Combustion Turbine/Diesel	0.00	0.23	0.73	1.75	2.84	3.50	5.58	6.14	8.23	8.23	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.99	8.99	8.99	9.25	N/A
Nuclear Power	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.05	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	N/A
Total Unplanned Additions	0.00	0.23	0.73	1.75	2.97	3.85	8.18	10.89	14.29	15.70	16.71	17.90	18.40	18.99	19.52	20.08	21.11	21.87	23.49	24.33	25.13	26.07	N/A
Cumulative Total Additions	0.00	0.24	0.75	1.78	3.04	3.95	8.30	11.08	14.59	16.19	17.44	18.94	19.82	20.85	21.39	21.95	22.98	23.88	25.50	26.35	27.14	28.08	N/A
Cumulative Retirements	0.00	0.34	0.58	0.58	0.62	0.62	0.67	0.67	0.67	0.67	1.05	1.74	1.74	1.74	1.74	2.53	2.70	3.81	3.81	3.81	3.81	4.93	N/A
Cogenerators 6/ Capability																							
Coal	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.0%
Petroleum	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.0%
Natural Gas	3.26	3.27	3.29	3.30	3.34	3.39	3.43	3.47	3.50	3.53	3.56	3.59	3.61	3.64	3.67	3.70	3.73	3.76	3.80	3.83	3.87	3.90	0.9%
Other Gaseous Fuels	0.02	0.02	0.05	0.05	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	0.07	0.07	0.07	0.07	0.07	7.2%
Renewable Sources 4/	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.8%
Other	0.01	0.01	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.0%
Total	4.80	4.81	4.86	4.87	4.91	4.96	5.00	5.04	5.08	5.11	5.14	5.17	5.20	5.23	5.26	5.29	5.33	5.36	5.40	5.44	5.47	5.51	0.7%



**Table 61. Electric Power Projections for EMM Region (3 of 3)  
Mid-Atlantic Area Council**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	5.5	5.5	5.4	5.1	4.9	4.7	4.1	3.7	3.3	2.9	2.9	3.0	3.0	3.0	3.1	3.2	3.3	3.3	3.4	3.5	3.5	3.7	-1.8%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.3%
Distribution	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.1%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	1.09	1.12	1.15	1.18	1.19	1.21	1.22	1.20	1.20	1.21	1.20	1.20	1.20	1.21	1.21	1.22	1.23	1.23	1.24	1.25	1.26	1.28	0.8%
Natural Gas	0.07	0.09	0.10	0.12	0.16	0.18	0.23	0.27	0.31	0.33	0.35	0.41	0.43	0.46	0.48	0.50	0.55	0.59	0.64	0.67	0.70	0.72	12.0%
Oil	0.09	0.05	0.04	0.02	0.01	0.01	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	0.00	0.00	0.00	-13.3%
Total	1.24	1.26	1.29	1.32	1.36	1.41	1.45	1.47	1.51	1.54	1.55	1.61	1.64	1.67	1.70	1.73	1.79	1.82	1.89	1.93	1.96	2.00	2.3%
Emissions (million short tons) 9/																							
Total Carbon	33.29	33.81	34.51	35.29	36.00	37.09	37.77	37.84	38.63	39.09	39.22	40.21	40.55	41.13	41.71	42.35	43.39	43.75	45.13	45.87	46.51	47.29	1.7%
Carbon Dioxide	122.08	123.97	126.55	129.41	132.02	136.01	138.48	138.76	141.63	143.34	143.81	147.42	148.68	150.82	152.92	155.29	159.09	160.41	165.48	168.20	170.53	173.40	1.7%
Sulfur Dioxide	1.31	1.12	1.11	1.09	0.99	0.94	0.89	0.84	0.83	0.82	0.81	0.78	0.77	0.76	0.78	0.79	0.79	0.76	0.76	0.77	0.78	0.78	-2.4%
Nitrogen Oxide	0.28	0.25	0.25	0.26	0.23	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.24	-0.9%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 62. Electric Power Projections for EMM Region (1 of 3)  
Mid-America Interconnected Network**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Electricity Generating Capability 1/ (gigawatts)																							
Coal Steam	27.80	27.77	27.77	27.77	27.49	27.49	27.34	27.54	27.71	27.71	27.71	27.71	27.86	28.04	28.23	28.23	28.38	28.38	28.62	28.10	28.50	28.66	0.1%
Other Fossil Steam 2/	3.72	3.72	3.72	3.72	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	3.69	0.0%
Combined Cycle	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	N/A
Combustion Turbine/Diesel	7.02	7.96	9.06	10.16	10.96	11.66	14.87	15.61	18.56	18.56	20.03	20.25	21.46	21.67	23.79	23.87	25.33	25.38	26.82	26.82	28.66	28.66	6.9%
Nuclear Power	12.73	12.77	12.77	12.77	12.77	12.77	12.77	12.77	12.77	12.77	12.00	11.50	10.73	10.73	9.58	9.58	9.58	9.58	9.58	9.58	9.58	9.58	-1.3%
Pumped Storage/Other 3/	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	N/A
Fuel Cells	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.84	0.88	0.88	0.89	0.89	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.7%
Total Capability	52.75	53.74	54.84	55.94	56.49	57.32	60.43	61.43	64.71	64.76	65.63	65.41	66.17	66.62	67.93	68.06	69.83	69.93	71.75	71.28	73.66	73.81	1.6%
Cumulative Planned Additions 5/																							
Coal Steam	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.00	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Nuclear Power	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	N/A
Total Planned Additions	0.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	N/A
Cumulative Unplanned Additions 5/																							
Coal Steam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.37	0.37	0.37	0.37	0.52	0.70	0.88	0.88	1.04	1.04	1.28	1.46	1.86	2.02	N/A
Other Fossil Steam 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combined Cycle	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.00	0.88	1.98	3.10	3.91	4.97	8.32	9.06	12.01	12.01	13.48	13.70	14.91	15.12	17.23	17.32	18.78	18.82	20.30	20.30	22.14	22.14	N/A
Nuclear Power	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fuel Cells	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	N/A
Total Unplanned Additions	0.00	0.88	1.98	3.10	3.95	5.14	8.55	9.54	12.82	12.88	14.51	14.79	16.32	16.77	19.23	19.37	21.14	21.23	23.08	23.31	25.69	25.84	N/A
Cumulative Total Additions	0.00	0.97	2.07	3.19	4.04	5.23	8.64	9.63	12.91	12.97	14.61	14.88	16.41	16.86	19.33	19.46	21.23	21.32	23.18	23.40	25.78	25.94	N/A
Cumulative Retirements	0.00	0.00	0.17	0.19	0.50	0.87	1.16	1.16	1.16	1.16	1.93	2.42	3.19	3.19	4.35	4.35	4.35	4.35	4.37	5.07	5.07	5.07	N/A
Cogenerators 6/ Capability																							
Coal	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.0%
Petroleum	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.0%
Natural Gas	0.60	0.61	0.62	0.63	0.66	0.69	0.72	0.75	0.77	0.79	0.81	0.83	0.85	0.87	0.89	0.91	0.93	0.95	0.98	1.00	1.03	1.05	2.7%
Other Gaseous Fuels	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	7.2%
Renewable Sources 4/	0.24	0.24	0.24	0.24	0.25	0.25	0.26	0.27	0.28	0.29	0.29	0.30	0.31	0.31	0.32	0.33	0.33	0.34	0.35	0.35	0.36	0.36	2.0%
Other	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.0%
Total	1.75	1.76	1.79	1.79	1.83	1.87	1.91	1.95	1.98	2.01	2.04	2.06	2.09	2.11	2.14	2.17	2.20	2.23	2.26	2.29	2.32	2.35	1.4%



**Table 62. Electric Power Projections for EMM Region (3 of 3)  
Mid-America Interconnected Network**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	4.2	4.2	4.2	4.0	4.1	4.0	3.8	3.7	3.6	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.7	3.6	3.8	3.7	3.8	-0.5%
Transmission	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.0%
Distribution	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	-0.1%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	1.51	1.54	1.64	1.70	1.74	1.81	1.84	1.87	1.88	1.91	1.92	1.95	1.99	2.01	2.05	2.08	2.10	2.11	2.13	2.10	2.13	2.15	1.7%
Natural Gas	0.09	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.14	2.2%
Oil	0.01	0.01	0.01	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	0.00	0.00	0.00	0.00	0.00	0.00	-7.6%
Total	1.61	1.58	1.67	1.74	1.78	1.86	1.88	1.90	1.91	1.93	1.95	1.98	2.03	2.05	2.11	2.14	2.18	2.20	2.24	2.22	2.27	2.29	1.7%
Emissions (million short tons) 9/																							
Total Carbon	44.31	44.44	47.00	48.87	49.96	52.11	52.78	53.40	53.72	54.40	54.77	55.60	56.99	57.56	58.98	59.91	60.75	61.25	62.18	61.44	62.55	63.23	1.7%
Carbon Dioxide	162.48	162.94	172.33	179.18	183.18	191.07	193.54	195.82	196.98	199.47	200.82	203.86	208.96	211.05	216.25	219.68	222.73	224.59	227.99	225.28	229.35	231.84	1.7%
Sulfur Dioxide	1.06	0.99	0.99	0.94	0.96	0.87	0.88	0.85	0.81	0.81	0.83	0.78	0.81	0.81	0.83	0.85	0.88	0.72	0.71	0.69	0.69	0.68	-2.1%
Nitrogen Oxide	0.42	0.37	0.40	0.42	0.37	0.37	0.38	0.39	0.38	0.39	0.39	0.40	0.41	0.41	0.42	0.42	0.43	0.43	0.43	0.42	0.43	0.43	0.1%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.







**Table 63. Electric Power Projections for EMM Region (3 of 3)  
Mid-Centroid Area Power Pool**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
Prices by Service Category (1999 cents per kilowatthour)																								
Generation	3.3	2.9	2.9	2.8	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.7	2.5	2.5	2.5	2.6	2.7	2.7	2.7	2.7	2.7	2.7	-1.0%	
Transmission	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-0.3%	
Distribution	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	-0.3%	
Fuel Consumption (quadrillion Btu) 8/																								
Coal	1.16	1.25	1.29	1.34	1.41	1.45	1.48	1.49	1.51	1.51	1.52	1.53	1.53	1.54	1.55	1.56	1.57	1.57	1.57	1.58	1.58	1.58	1.5%	
Natural Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.06	0.08	0.11	0.15	0.20	0.22	0.24	0.25	0.26	0.28	13.7%	
Oil	0.01	0.01	0.01	0.01	0.01	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	0.00	0.00	0.00	0.00	-1.6%	
Total	1.19	1.27	1.32	1.36	1.43	1.47	1.50	1.51	1.54	1.54	1.56	1.58	1.60	1.62	1.66	1.71	1.77	1.80	1.82	1.84	1.85	1.87	2.2%	
Emissions (million short tons) 9/																								
Total Carbon	33.78	36.36	37.75	39.02	41.00	42.04	42.92	43.22	43.94	44.16	44.56	44.95	45.29	45.69	46.39	47.45	48.51	49.01	49.34	49.68	49.90	50.23	1.9%	
Carbon Dioxide	123.88	133.33	138.43	143.06	150.34	154.14	157.36	158.49	161.13	161.94	163.38	164.82	166.08	167.51	170.11	173.98	177.87	179.69	180.91	182.18	182.96	184.19	1.9%	
Sulfur Dioxide	0.37	0.38	0.39	0.39	0.41	0.42	0.43	0.42	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.44	0.43	0.43	0.43	0.43	0.42	0.7%
Nitrogen Oxide	0.29	0.25	0.26	0.27	0.28	0.29	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.5%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 64. Electric Power Projections for EMM Region (3 of 3)  
Northeast Power Coordinating Council/New York**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	5.8	5.5	5.9	5.2	4.9	4.8	4.4	3.9	3.6	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.4	3.5	3.5	3.6	3.7	3.8	-2.0%
Transmission	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	-0.3%
Distribution	3.3	3.4	3.4	3.4	3.4	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0.0%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.31	0.32	0.31	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.1%
Natural Gas	0.15	0.19	0.17	0.22	0.24	0.24	0.28	0.28	0.30	0.33	0.36	0.43	0.44	0.47	0.48	0.53	0.58	0.63	0.62	0.61	0.60	0.60	7.0%
Oil	0.16	0.11	0.10	0.06	0.05	0.05	0.02	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-13.2%
Total	0.62	0.61	0.58	0.59	0.61	0.61	0.62	0.61	0.62	0.64	0.66	0.74	0.74	0.78	0.80	0.84	0.90	0.95	0.94	0.93	0.93	0.93	1.9%
Emissions (million short tons) 9/																							
Total Carbon	14.84	14.26	13.76	13.69	13.96	13.97	13.93	13.53	13.81	14.00	14.27	15.45	15.51	16.13	16.43	17.14	18.18	18.87	18.73	18.64	18.64	18.68	1.1%
Carbon Dioxide	54.40	52.27	50.44	50.20	51.18	51.21	51.08	49.61	50.65	51.35	52.31	56.66	56.89	59.14	60.24	62.83	66.65	69.18	68.68	68.36	68.36	68.51	1.1%
Sulfur Dioxide	0.38	0.29	0.28	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	-3.1%
Nitrogen Oxide	0.10	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	-1.5%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 65. Electric Power Projections for EMM Region (3 of 3)  
Northeast Power Coordinating Council/New England**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	5.7	5.9	6.1	5.5	5.3	4.9	4.6	4.1	3.8	3.3	3.2	3.2	3.1	3.2	3.2	3.2	3.4	3.4	3.4	3.3	3.3	3.5	-2.7%
Transmission	0.9	1.0	1.0	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.6%
Distribution	3.0	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.2	3.1	3.2	3.1	3.1	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	-0.2%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	1.0%
Natural Gas	0.18	0.31	0.34	0.37	0.37	0.42	0.43	0.47	0.50	0.53	0.55	0.57	0.59	0.62	0.67	0.69	0.73	0.79	0.81	0.83	0.83	0.84	7.7%
Oil	0.22	0.12	0.11	0.10	0.11	0.09	0.07	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-12.6%
Total	0.48	0.51	0.54	0.56	0.58	0.61	0.61	0.62	0.63	0.65	0.67	0.69	0.70	0.74	0.78	0.80	0.84	0.91	0.93	0.94	0.95	0.96	3.3%
Emissions (million short tons) 9/																							
Total Carbon	10.37	10.11	10.59	10.85	11.30	11.60	11.41	11.38	11.62	11.73	11.91	12.20	12.44	13.03	13.72	14.06	14.77	15.78	16.09	16.31	16.40	16.57	2.3%
Carbon Dioxide	38.04	37.06	38.84	39.78	41.45	42.55	41.85	41.74	42.60	43.00	43.66	44.73	45.62	47.79	50.31	51.55	54.15	57.87	58.99	59.81	60.14	60.75	2.3%
Sulfur Dioxide	0.21	0.14	0.13	0.12	0.13	0.11	0.10	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-5.8%
Nitrogen Oxide	0.06	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-1.4%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 66. Electric Power Projections for EMM Region (1 of 3)**  
**Southeastern Electric Reliability Council/Florida**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
<b>Electricity Supply and Demand</b>																							
Electricity Generating Capability 1/ (gigawatts)																							
Coal Steam	10.25	10.38	10.38	10.38	10.38	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21	9.21	-0.5%
Other Fossil Steam 2/ Combined Cycle	14.13	13.72	13.72	13.72	13.31	13.24	13.24	13.24	13.24	13.24	12.89	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.26	12.02	12.02	-0.8%
Combustion Turbine/Diesel	4.25	4.31	4.31	4.76	4.76	6.68	8.14	9.63	11.11	12.01	13.68	15.25	16.50	17.84	19.24	20.48	21.48	22.79	24.05	25.02	26.03	26.89	9.2%
Nuclear Power	5.73	6.17	6.44	6.50	6.80	7.12	7.03	7.13	7.90	8.30	8.43	8.88	9.58	10.04	10.61	10.66	11.73	11.73	11.73	12.27	12.27	12.27	3.7%
Pumped Storage/Other 3/ Fuel Cells	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.19	2.50	2.50	2.50	1.68	1.68	1.68	1.68	-3.9%
Renewable Sources 4/ Total Capability	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Capability	38.82	39.04	39.32	39.83	39.73	40.80	42.18	43.75	46.04	47.41	49.21	50.94	52.82	54.00	55.33	56.62	58.75	59.24	60.01	61.32	62.32	63.18	2.3%
<b>Cumulative Planned Additions 5/</b>																							
Coal Steam	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/ Combined Cycle	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.00	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	N/A
Nuclear Power	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/ Fuel Cells	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/ Total Planned Additions	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total Planned Additions	0.00	0.25	0.25	0.70	0.70	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	N/A
<b>Cumulative Unplanned Additions 5/</b>																							
Coal Steam	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Other Fossil Steam 2/ Combined Cycle	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Combustion Turbine/Diesel	0.00	0.00	0.28	0.34	0.64	1.10	1.10	1.20	1.97	2.40	2.53	3.25	4.05	4.51	5.07	5.13	6.20	6.20	6.20	6.74	6.74	6.74	N/A
Nuclear Power	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Pumped Storage/Other 3/ Fuel Cells	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 4/ Total Unplanned Additions	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Total Unplanned Additions	0.00	0.00	0.28	0.34	0.66	1.63	3.10	4.67	6.96	8.36	10.16	12.50	14.61	16.49	18.51	19.80	21.93	23.24	24.51	26.06	27.06	27.92	N/A
<b>Cumulative Total Additions</b>																							
Cumulative Total Additions	0.00	0.25	0.53	1.05	1.36	3.81	5.28	6.85	9.14	10.54	12.34	14.68	16.79	18.67	20.69	21.98	24.11	25.42	26.69	28.24	29.24	30.10	N/A
<b>Cumulative Retirements</b>																							
Cumulative Retirements	0.00	0.21	1.37	1.38	1.79	3.18	3.26	3.26	3.26	3.29	3.29	3.91	4.14	4.83	5.52	5.52	5.52	6.35	6.85	7.08	7.08	7.08	N/A
<b>Cogenerators 6/ Capability</b>																							
Coal	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	N/A
Petroleum	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.0%
Natural Gas	1.22	1.22	1.23	1.23	1.24	1.26	1.27	1.28	1.29	1.30	1.31	1.32	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41	0.7%
Other Gaseous Fuels	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	7.2%
Renewable Sources 4/ Other	0.29	0.29	0.29	0.29	0.30	0.31	0.32	0.33	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.43	0.44	0.45	0.46	0.47	2.3%
Other	0.05	0.05	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-10.0%
Total	2.41	2.41	2.38	2.38	2.40	2.43	2.45	2.47	2.50	2.52	2.54	2.56	2.57	2.59	2.61	2.63	2.65	2.67	2.69	2.70	2.72	2.74	0.6%



**Table 66. Electric Power Projections for EMM Region (3 of 3)  
Southeastern Electric Reliability Council/Florida**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	4.4	4.8	4.8	4.5	4.3	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	-0.4%
Transmission	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.6%
Distribution	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.1%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	0.63	0.67	0.68	0.70	0.73	0.66	0.68	0.68	0.68	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.3%
Natural Gas	0.26	0.35	0.37	0.43	0.47	0.58	0.60	0.63	0.68	0.70	0.74	0.80	0.85	0.91	0.98	1.02	1.08	1.12	1.19	1.22	1.26	1.29	8.0%
Oil	0.26	0.22	0.22	0.17	0.16	0.13	0.11	0.09	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.04	0.04	0.04	-8.7%
Total	1.15	1.24	1.27	1.31	1.35	1.37	1.38	1.40	1.42	1.43	1.46	1.51	1.56	1.62	1.68	1.73	1.78	1.83	1.89	1.93	1.97	2.00	2.7%
Emissions (million short tons) 9/																							
Total Carbon	27.85	29.53	30.17	30.65	31.55	30.95	31.08	31.24	31.49	31.55	31.91	32.68	33.40	34.32	35.39	36.05	36.94	37.63	38.70	39.36	39.99	40.48	1.8%
Carbon Dioxide	102.11	108.28	110.61	112.37	115.67	113.48	113.97	114.56	115.45	115.69	117.02	119.83	122.45	125.86	129.76	132.18	135.44	137.99	141.89	144.33	146.63	148.43	1.8%
Sulfur Dioxide	0.47	0.34	0.31	0.29	0.30	0.24	0.23	0.22	0.21	0.21	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	-4.2%
Nitrogen Oxide	0.23	0.20	0.21	0.21	0.21	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	-1.2%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 67. Electric Power Projections for EMM Region (3 of 3)  
Southeastern Electric Reliability Council/Excluding Florida**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	3.5	3.6	3.5	3.4	3.4	3.4	3.3	3.4	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	-0.3%
Transmission	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2%
Distribution	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.4%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	4.14	4.31	4.47	4.60	4.76	4.83	4.90	4.98	5.02	5.04	5.02	5.03	5.04	5.06	5.08	5.05	5.07	5.07	5.09	5.08	5.10	5.14	1.0%
Natural Gas	0.61	0.50	0.55	0.60	0.67	0.69	0.70	0.74	0.82	0.92	1.06	1.20	1.28	1.36	1.48	1.63	1.71	1.78	1.86	1.96	2.02	2.11	6.1%
Oil	0.20	0.11	0.10	0.07	0.05	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-10.6%
Total	4.95	4.92	5.12	5.28	5.48	5.56	5.63	5.75	5.86	5.98	6.10	6.24	6.34	6.44	6.57	6.70	6.79	6.87	6.97	7.05	7.13	7.26	1.8%
Emissions (million short tons) 9/																							
Total Carbon	129.94	131.35	136.77	140.80	145.91	148.03	149.87	152.70	154.89	157.05	158.89	161.09	162.93	164.71	167.10	168.84	170.53	171.79	173.72	174.99	176.51	178.99	1.5%
Carbon Dioxide	476.44	481.60	501.48	516.28	535.01	542.77	549.53	559.89	567.91	575.84	582.61	590.65	597.41	603.94	612.70	619.07	625.29	629.91	636.98	641.63	647.20	656.29	1.5%
Sulfur Dioxide	3.46	3.42	3.33	3.37	3.32	3.32	3.31	3.32	3.30	3.17	3.21	3.14	3.11	3.17	3.19	3.12	3.10	3.00	3.00	2.99	2.98	3.00	-0.7%
Nitrogen Oxide	1.37	1.03	1.06	1.10	1.03	0.97	0.94	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.94	0.94	0.94	0.95	0.95	0.95	0.96	-1.7%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.







**Table 68. Electric Power Projections for EMM Region (3 of 3)  
Southwest Power Pool**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	2.7	2.3	2.2	2.6	2.6	2.6	2.7	3.1	3.1	3.2	3.2	3.2	3.2	3.1	3.2	3.3	3.3	3.4	3.5	3.5	3.5	3.6	1.8%
Transmission	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6%
Distribution	2.2	2.0	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	-1.0%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	1.38	1.43	1.47	1.51	1.48	1.52	1.56	1.57	1.56	1.52	1.52	1.52	1.52	1.52	1.52	1.53	1.53	1.53	1.53	1.53	1.53	1.53	0.5%
Natural Gas	0.39	0.29	0.28	0.28	0.30	0.30	0.27	0.27	0.29	0.34	0.36	0.39	0.41	0.44	0.46	0.48	0.50	0.51	0.53	0.55	0.57	0.59	1.9%
Oil	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	-2.4%
Total	1.78	1.73	1.76	1.80	1.79	1.83	1.84	1.84	1.86	1.86	1.89	1.92	1.94	1.97	1.99	2.01	2.03	2.04	2.06	2.08	2.10	2.12	0.8%
Emissions (million short tons) 9/																							
Total Carbon	46.11	45.99	46.94	48.15	47.48	48.53	49.07	49.31	49.41	49.02	49.34	49.84	50.15	50.57	50.87	51.27	51.52	51.91	52.31	52.63	52.90	53.29	0.7%
Carbon Dioxide	169.08	168.62	172.10	176.55	174.11	177.93	179.93	180.79	181.17	179.73	180.91	182.75	183.90	185.41	186.51	187.97	188.90	190.33	191.79	192.99	193.97	195.41	0.7%
Sulfur Dioxide	0.40	0.40	0.42	0.44	0.43	0.45	0.46	0.45	0.44	0.43	0.43	0.43	0.43	0.44	0.43	0.44	0.44	0.43	0.43	0.42	0.42	0.41	0.1%
Nitrogen Oxide	0.33	0.30	0.30	0.31	0.31	0.31	0.32	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	-0.3%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 69. Electric Power Projections for EMM Region (3 of 3)  
Western Systems Coordinating Council/Northwest Power Pool Area**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.3	2.4	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.4%
Transmission	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.4%
Distribution	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	-0.3%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	0.89	0.91	0.91	0.92	0.93	0.93	0.96	0.97	0.99	1.00	1.01	1.01	1.01	1.01	1.01	1.02	1.02	1.02	1.03	1.03	1.03	1.03	0.7%
Natural Gas	0.11	0.15	0.18	0.19	0.24	0.30	0.34	0.36	0.35	0.34	0.39	0.40	0.44	0.45	0.47	0.50	0.51	0.53	0.57	0.58	0.60	0.65	8.7%
Oil	0.00	0.01	0.01	0.01	0.01	0.01	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	0.00	0.00	0.00	-6.5%
Total	1.01	1.06	1.10	1.12	1.18	1.24	1.30	1.34	1.34	1.34	1.40	1.40	1.45	1.46	1.48	1.52	1.54	1.55	1.60	1.61	1.63	1.68	2.5%
Emissions (million short tons) 9/																							
Total Carbon	27.13	28.35	29.05	29.56	30.44	31.56	32.78	33.53	33.89	34.13	35.13	35.22	35.95	36.18	36.46	37.22	37.51	37.67	38.51	38.80	39.19	40.00	1.9%
Carbon Dioxide	99.48	103.95	106.52	108.38	111.62	115.74	120.20	122.95	124.26	125.14	128.79	129.14	131.81	132.64	133.69	136.46	137.55	138.12	141.20	142.26	143.69	146.66	1.9%
Sulfur Dioxide	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	-0.1%
Nitrogen Oxide	0.18	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	-0.5%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 70. Electric Power Projections for EMM Region (3 of 3)  
Western Systems Coordinating Council/Rocky Mountain Power Area and Arizona**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
Prices by Service Category (1999 cents per kilowatthour)																								
Generation	4.0	3.8	3.7	3.6	3.6	4.0	3.9	3.8	3.6	3.5	3.4	3.3	3.3	3.3	3.4	3.5	3.5	3.6	3.6	3.6	3.6	3.5	-0.6%	
Transmission	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0%	
Distribution	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	0.0%	
Fuel Consumption (quadrillion Btu) 8/																								
Coal	1.18	1.20	1.21	1.23	1.24	1.26	1.34	1.39	1.45	1.50	1.55	1.58	1.60	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.63	1.66	1.6%	
Natural Gas	0.16	0.17	0.20	0.25	0.27	0.28	0.25	0.22	0.19	0.18	0.18	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.20	0.20	0.21	0.22	1.5%	
Oil	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.5%	
Total	1.35	1.37	1.41	1.48	1.51	1.54	1.59	1.61	1.64	1.68	1.73	1.74	1.76	1.77	1.78	1.78	1.79	1.79	1.81	1.82	1.84	1.88	1.6%	
Emissions (million short tons) 9/																								
Total Carbon	36.08	36.74	37.64	38.89	39.64	40.22	42.08	43.13	44.39	45.69	47.13	47.62	48.37	48.52	48.71	48.80	48.99	49.03	49.34	49.44	50.02	51.10	1.7%	
Carbon Dioxide	132.28	134.71	138.00	142.61	145.34	147.46	154.29	158.15	162.78	167.52	172.83	174.62	177.35	177.89	178.61	178.95	179.64	179.77	180.91	181.30	183.40	187.36	1.7%	
Sulfur Dioxide	0.22	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	-0.4%
Nitrogen Oxide	0.27	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.0%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.







**Table 71. Electric Power Projections for EMM Region (3 of 3)  
Western Systems Coordinating Council/California-Southern Nevada Power**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	6.1	6.8	6.6	6.1	5.9	5.6	4.7	4.1	3.3	3.0	3.0	2.8	2.8	2.8	2.8	2.9	2.9	2.9	3.1	3.0	3.0	3.2	-3.2%
Transmission	0.7	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.9%
Distribution	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.3%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	0.38	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.70	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	3.4%
Natural Gas	0.56	0.63	0.63	0.63	0.68	0.63	0.59	0.61	0.43	0.43	0.44	0.52	0.54	0.62	0.69	0.73	0.81	0.87	0.91	0.97	1.03	1.07	3.1%
Oil	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	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	0.00	-16.5%
Total	0.96	1.03	1.04	1.04	1.09	1.05	1.01	1.03	1.13	1.20	1.21	1.29	1.31	1.38	1.45	1.50	1.57	1.64	1.68	1.74	1.79	1.83	3.1%
Emissions (million short tons) 9/																							
Total Carbon	19.98	21.32	21.50	21.57	22.43	21.88	21.31	21.69	26.87	28.92	29.08	30.38	30.70	31.88	33.00	33.77	34.94	35.94	36.57	37.59	38.47	39.11	3.3%
Carbon Dioxide	73.26	78.17	78.82	79.08	82.23	80.24	78.13	79.53	98.52	106.04	106.62	111.39	112.55	116.91	121.01	123.84	128.13	131.78	134.09	137.82	141.05	143.40	3.3%
Sulfur Dioxide	0.07	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.2%
Nitrogen Oxide	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.10	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	1.2%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 72. Electric Power Projections for EMM Region (3 of 3)  
United States**

Electricity Supply and Demand	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Prices by Service Category (1999 cents per kilowatthour)																							
Generation	4.1	4.2	4.2	4.0	3.9	3.8	3.6	3.5	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.3	3.4	-0.9%
Transmission	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7%
Distribution	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0%
Fuel Consumption (quadrillion Btu) 8/																							
Coal	18.78	19.45	20.04	20.49	20.85	21.09	21.40	21.62	22.14	22.29	22.29	22.41	22.53	22.60	22.73	22.80	22.94	22.95	23.13	23.14	23.27	23.46	1.1%
Natural Gas	3.84	3.97	4.18	4.58	4.97	5.33	5.43	5.60	5.67	6.01	6.46	7.03	7.38	7.84	8.34	8.85	9.42	9.91	10.37	10.82	11.13	11.48	5.4%
Oil	1.08	0.71	0.68	0.52	0.48	0.41	0.32	0.26	0.21	0.19	0.17	0.16	0.16	0.16	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.18	-8.2%
Total	23.70	24.13	24.90	25.60	26.30	26.83	27.16	27.47	28.02	28.48	28.91	29.60	30.07	30.60	31.23	31.81	32.53	33.02	33.66	34.14	34.57	35.12	1.9%
Emissions (million short tons) 9/																							
Total Carbon	613.05	627.87	647.30	662.95	678.34	689.14	697.71	704.87	719.88	729.08	735.90	748.38	757.21	766.62	778.31	788.46	801.69	810.07	822.67	830.53	839.13	850.25	1.6%
Carbon Dioxide	2247.86	2302.20	2373.43	2430.80	2487.24	2526.85	2558.27	2584.54	2639.56	2673.28	2698.31	2744.07	2776.42	2810.93	2853.80	2891.01	2939.54	2970.26	3016.45	3045.26	3076.82	3117.56	1.6%
Sulfur Dioxide	12.46	11.47	11.30	11.25	10.92	10.50	10.30	9.90	9.74	9.48	9.48	9.28	9.23	9.28	9.35	9.30	9.33	8.95	8.95	8.95	8.95	8.95	-1.6%
Nitrogen Oxide	5.45	4.57	4.70	4.82	4.42	4.27	4.25	4.22	4.22	4.21	4.20	4.22	4.24	4.25	4.28	4.30	4.33	4.34	4.38	4.38	4.40	4.42	-1.0%

1/ Net summer capability 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. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860B, "Annual Electric Generator Report - Nonutility." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.

2/ Includes oil-, gas-, and dual-fired capability.

3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

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

5/ Cumulative additions after December 31, 1999.

6/ Cogenerators produce electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.

7/ Generation to meet system load by source.

8/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.

9/ Estimated emissions from utilities and nonutilities (excluding cogenerators).

O&M = Operation and maintenance.

EMM = Electricity market module.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 1999, DOE/EIA-0384(99) (Washington, DC, July 2000). Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 73. Electric Generation by Electricity Market Module Region and Source (3 of 3)  
(Billion Kilowatthours)**

Region and Source	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
Western Systems Coordinating Council/																								
Northwest Power Pool Area																								
Coal	84.75	86.16	86.85	87.55	88.24	88.93	91.10	92.80	95.24	96.55	97.26	97.10	97.14	97.58	97.50	98.50	98.67	98.08	98.99	99.03	99.33	99.61	0.8%	
Petroleum	0.10	0.48	0.69	1.09	0.56	0.47	0.33	0.07	0.05	0.04	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-6.3%
Natural Gas	12.23	15.83	18.16	19.21	24.83	32.91	39.80	44.57	43.86	43.66	50.91	53.48	60.79	62.64	65.30	70.27	72.81	76.09	81.74	84.61	87.94	94.88	10.2%	
Nuclear	6.82	7.08	7.02	7.09	7.16	7.24	7.31	7.38	7.45	7.52	7.59	7.67	7.74	7.81	7.88	7.95	7.95	7.95	7.95	7.95	7.95	7.95	7.95	0.7%
Pumped Storage/Other 1/	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	N/A
Renewables 2/	159.91	148.77	152.17	155.47	155.43	155.92	158.16	159.61	162.73	164.71	165.95	166.90	167.30	167.28	167.24	167.23	167.21	167.20	167.13	167.08	167.07	167.04	0.2%	
Total	263.59	258.09	264.68	270.18	276.02	285.26	296.50	304.24	309.14	312.32	321.61	325.03	332.86	335.18	337.81	343.86	346.56	349.27	355.78	358.71	362.40	369.62	1.6%	
Western Systems Coordinating Council/																								
Rocky Mountain Power Area and Arizona																								
Coal	111.61	112.83	114.11	115.43	116.81	118.13	126.63	132.28	138.56	143.96	149.62	152.51	155.36	155.82	156.11	156.09	156.27	156.22	156.28	156.29	157.94	161.31	1.8%	
Petroleum	0.11	0.06	0.04	0.04	0.05	0.04	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05	0.05	0.05	0.05	0.05	-4.1%
Natural Gas	14.83	15.82	19.83	24.31	25.93	30.12	28.72	26.44	23.77	22.83	22.39	20.27	20.01	20.02	20.70	21.12	21.92	22.02	23.76	24.56	25.41	26.67	2.8%	
Nuclear	22.13	22.78	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	22.35	0.0%
Pumped Storage/Other 1/	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	N/A
Renewables 2/	19.47	18.42	18.66	19.20	19.14	19.17	19.17	19.19	19.22	19.22	19.24	19.26	19.28	19.29	19.30	19.32	19.34	19.37	19.36	19.37	19.39	19.40	0.0%	
Total	168.11	169.86	175.15	181.28	184.25	189.79	196.93	200.36	204.01	208.49	213.76	214.57	217.19	217.70	218.74	219.18	220.24	220.37	222.24	223.12	225.69	230.39	1.5%	
Western Systems Coordinating Council/																								
California-Southern Nevada Power																								
Coal	37.09	37.70	38.19	38.68	39.17	39.66	40.14	40.14	70.91	78.39	78.39	78.39	78.39	78.39	78.39	78.39	78.39	78.39	78.39	78.39	78.39	78.39	78.39	3.6%
Petroleum	1.40	1.47	1.40	0.87	0.85	0.85	0.81	0.79	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-16.3%
Natural Gas	55.60	62.25	62.24	62.18	65.91	64.04	65.52	74.12	56.42	58.63	59.60	73.39	76.90	89.45	100.62	107.92	119.45	129.84	135.29	145.74	154.97	160.96	5.2%	
Nuclear	41.62	42.95	42.23	42.33	42.44	42.54	42.65	42.72	42.79	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	42.83	0.1%
Pumped Storage/Other 1/	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	N/A
Renewables 2/	55.93	53.64	55.22	56.31	56.31	59.39	59.42	59.44	59.85	59.86	59.86	59.87	59.89	59.90	59.92	59.94	59.96	59.99	60.01	60.04	60.07	60.10	0.3%	
Total	191.20	197.57	198.84	199.93	204.26	206.16	208.34	217.01	229.92	239.65	240.75	254.54	258.07	270.62	281.81	289.15	300.71	311.14	316.71	327.29	336.56	342.60	2.8%	

1/ Other includes methane, propane and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

2/ Renewables include conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Values represent generation for utilities and nonutilities (excluding cogenerators). Net summer capability is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load.

Sources: 1999 utility generation: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.







**Table 74. Electric Generation Capacity by Electricity Market Module Region and Source (3 of 3)**  
**(Gigawatts)**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
Western Systems Coordinating Council/																								
Northwest Power Pool Area																								
Coal Steam	11.62	11.62	11.62	11.62	11.62	11.62	11.82	12.07	12.59	12.84	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	0.5%
Other Fossil Steam 1/	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	N/A
Combined Cycle	1.78	1.78	1.78	1.78	1.78	2.81	3.98	5.02	5.93	6.61	7.61	8.64	10.03	10.84	11.05	12.00	12.43	13.16	13.87	14.52	15.29	16.05	11.0%	
Combustion Turbine/Diesel	0.93	0.93	1.23	1.40	2.08	2.20	2.29	2.46	2.46	2.50	2.50	2.61	2.67	2.71	2.79	2.79	2.79	2.79	2.79	3.17	3.36	3.36	6.3%	
Nuclear Power	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	N/A
Pumped Storage/Other 2/	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	N/A
Fuel Cells	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	35.46	35.45	35.59	35.59	35.60	35.70	35.98	36.18	36.59	36.86	37.04	37.17	37.24	37.25	37.26	37.28	37.29	37.30	37.32	37.33	37.34	37.35	37.35	0.2%
Total	51.93	51.93	52.36	52.54	53.26	54.52	56.26	57.93	59.79	61.09	62.42	63.71	65.22	66.09	66.42	67.41	67.90	68.70	69.47	70.69	71.83	72.65	1.6%	
Western Systems Coordinating Council/																								
Rocky Mountain Power Area and Arizona																								
Coal Steam	15.89	15.89	15.89	15.89	15.89	15.89	16.86	17.63	18.50	19.31	20.08	20.55	20.90	20.90	20.90	20.90	20.90	20.90	20.90	20.90	21.12	21.57	1.5%	
Other Fossil Steam 1/	2.83	2.83	2.83	2.83	2.83	2.81	2.81	2.81	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	-0.2%
Combined Cycle	1.65	1.65	2.27	2.27	2.27	3.41	3.99	4.66	5.31	5.39	5.39	5.39	5.39	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.70	6.1%
Combustion Turbine/Diesel	4.39	5.50	6.33	7.00	7.75	7.80	8.24	8.43	8.28	8.28	8.28	8.28	8.28	8.28	8.39	8.45	9.02	9.40	10.34	10.98	11.82	12.09	4.9%	
Nuclear Power	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	N/A
Pumped Storage/Other 2/	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	N/A
Fuel Cells	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	5.98	6.00	6.00	6.00	6.01	6.01	6.02	6.02	6.03	6.04	6.04	6.05	6.06	6.07	6.08	6.08	6.09	6.10	6.10	6.11	6.12	6.12	6.12	0.1%
Total	34.21	35.34	36.78	37.46	38.25	39.42	41.50	43.22	44.53	45.45	46.29	46.82	47.23	47.42	47.66	47.77	48.51	49.03	50.11	50.90	52.10	53.14	2.1%	
Western Systems Coordinating Council/																								
California-Southern Nevada Power																								
Coal Steam	5.28	5.28	5.28	5.28	5.28	5.28	5.24	5.24	9.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	10.38	3.3%
Other Fossil Steam 1/	20.60	20.51	20.51	20.51	20.51	20.51	20.50	20.50	18.83	18.47	18.47	18.47	18.47	18.47	18.47	18.47	18.47	18.47	18.47	18.47	18.47	18.47	18.47	-0.5%
Combined Cycle	1.63	1.63	1.63	1.63	1.63	2.56	4.68	7.09	7.09	7.85	7.80	10.00	10.66	12.88	14.55	15.38	17.06	18.87	19.33	21.10	22.78	23.47	13.5%	
Combustion Turbine/Diesel	3.21	3.70	4.98	6.28	7.55	7.64	10.66	10.66	13.01	13.01	15.00	14.94	14.94	14.94	14.94	14.94	14.94	14.94	15.15	15.23	15.19	15.60	7.8%	
Nuclear Power	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	N/A
Pumped Storage/Other 2/	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	N/A
Fuel Cells	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Renewable Sources 3/	14.69	14.77	15.07	15.08	15.09	15.42	15.42	15.43	15.49	15.50	15.51	15.52	15.53	15.54	15.55	15.57	15.58	15.59	15.61	15.62	15.64	15.65	15.65	0.3%
Total	54.49	54.97	56.55	57.86	59.20	60.77	66.14	68.56	73.67	75.09	77.30	79.44	80.11	82.34	84.02	84.89	86.62	88.48	89.38	91.47	93.15	94.33	2.6%	

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

2/ Other includes methane, propane, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfate liquor.

3/ Renewable sources include conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Values represent net summer capability for utilities and nonutilities (excluding cogenerators). Net summer capability is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load.

Sources: 1999 utility: Energy Information Administration (EIA), Form EIA-860A, "Annual Electric Generator Report - Utility." Other 1999 and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.





**Table 75. Renewable Resources Consumption/Displacement by Region and Source for Electricity (3 of 3)  
(Trillion Btu)**

Region and Source	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Western Systems Coordinating Council/																							
California-Southern Nevada Power																							
Conventional Hydropower	403.93	375.26	383.36	391.47	391.30	391.14	390.97	390.82	390.69	390.50	390.30	390.18	390.02	389.83	389.70	389.51	389.33	389.19	388.99	388.87	388.76	388.54	-0.2%
Geothermal 1/	236.56	246.92	252.43	253.82	255.71	248.80	249.45	250.48	262.58	264.62	265.52	266.43	267.79	280.62	269.08	270.00	270.57	271.10	271.62	271.86	271.78	272.16	0.7%
Municipal Solid Waste	25.73	27.61	30.64	31.86	31.86	78.20	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	78.68	5.5%
Biomass 2/	19.84	19.98	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	20.06	0.1%
Solar Thermal 3/	9.16	9.16	9.16	9.20	9.24	9.27	9.31	9.46	9.58	9.69	9.76	9.84	9.91	9.99	10.10	10.22	10.33	10.41	10.52	10.63	10.74	10.86	0.8%
Solar Photovoltaic 3/	0.28	0.29	0.43	0.56	0.68	0.78	0.89	1.05	1.20	1.36	1.52	1.68	1.90	2.12	2.33	2.66	2.98	3.30	3.63	3.95	4.27	4.60	14.3%
Wind	31.73	31.94	36.00	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	38.01	0.9%
United States																							
Conventional Hydropower	3160.38	2936.40	3001.03	3068.33	3071.81	3073.22	3074.22	3078.37	3078.09	3076.89	3075.78	3073.61	3072.00	3071.07	3070.16	3069.05	3068.04	3067.38	3065.78	3064.71	3064.04	3062.84	-0.1%
Geothermal 1/	362.87	373.87	380.56	383.35	386.52	388.45	455.35	500.71	603.77	667.65	706.56	741.30	759.79	796.37	763.76	766.78	768.65	770.32	771.94	772.75	772.68	773.89	3.7%
Municipal Solid Waste	246.29	250.62	259.66	265.25	268.07	346.05	373.25	377.04	382.27	389.38	398.35	409.38	422.48	437.76	444.80	446.83	448.81	453.87	457.30	459.30	461.48	463.46	3.1%
Biomass 2/	84.55	95.98	121.40	151.99	127.12	134.25	153.92	173.01	176.19	182.78	183.26	192.41	193.01	193.42	200.64	201.88	206.85	207.22	205.88	201.76	200.21	197.35	4.1%
Solar Thermal 3/	9.16	9.16	9.19	9.26	9.32	9.66	9.86	10.04	10.43	10.76	11.10	11.38	11.58	11.78	12.05	12.41	12.73	12.96	13.23	13.49	13.76	14.06	2.1%
Solar Photovoltaic 3/	0.34	0.37	0.54	0.72	1.13	1.57	2.09	2.67	3.21	3.76	4.53	5.25	6.04	6.82	7.59	8.52	9.45	10.35	11.27	12.17	13.07	13.98	19.3%
Wind	45.89	53.27	68.06	79.44	85.63	91.27	96.86	102.85	109.19	115.80	122.70	126.75	128.76	130.66	131.33	131.33	131.99	132.75	132.97	132.97	133.86	134.69	5.3%

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

2/ Include projections for energy crops beginning in 2010.

3/ Grid connected generation only.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 77. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization (1 of 1)**  
**(Million of Barrels per Day)**

Region	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
PAD District I																							
Base Capacity	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0%
Capacity Additions	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	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	12.9%
Total Capacity	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.9	0.4%
Utilization	91.0	91.0	88.3	92.0	91.0	92.0	92.0	91.2	92.0	92.0	92.0	92.0	92.0	90.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	0.1%
PAD Districts II to IV																							
Base Capacity	11.6	11.7	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	0.1%
Capacity Additions	0.2	0.0	0.0	0.0	0.5	0.7	1.0	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	10.7%
Total Capacity	11.7	11.7	11.9	11.9	12.4	12.6	12.9	12.9	12.9	12.9	13.0	13.1	13.1	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	0.6%
Utilization	94.4	94.4	96.0	96.0	95.9	95.4	95.1	95.7	95.9	95.9	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	0.1%
PAD District V																							
Base Capacity	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.2%
Capacity Additions	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total Capacity	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0%
Utilization	87.0	87.0	76.3	76.8	77.9	78.6	79.8	80.0	81.4	82.2	83.3	84.1	84.7	85.0	86.0	87.7	88.6	89.2	90.1	90.7	91.6	92.4	0.3%
United States																							
Base Capacity	16.3	16.5	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	0.1%
Capacity Additions	0.3	0.0	0.0	0.0	0.5	0.7	1.0	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	8.8%
Total Capacity	16.5	16.5	16.7	16.7	17.2	17.4	17.7	17.7	17.7	17.8	17.8	17.9	17.9	18.0	18.0	18.0	18.1	18.1	18.1	18.1	18.1	18.2	0.5%
Utilization	93.0	93.0	91.5	92.0	92.2	92.1	92.1	92.5	92.9	93.1	93.2	93.6	93.7	93.6	93.9	94.2	94.3	94.4	94.6	94.7	94.8	95.0	0.1%

PAD = Petroleum Administration for Defense.

N/A = Not applicable.

Note: Base capacity is for the beginning of the year.

Source: 1999: Energy Information Administration (EIA), Petroleum Supply Annual 1998, DOE/EIA-0340(98)/1 (Washington, DC, June 1999). 2000: EIA, Petroleum Supply Annual 1999, DOE/EIA-0340(99)/1 (Washington, DC, June 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 78. Components of Selected Petroleum Product Prices (1 of 1)  
(1999 Dollars per Gallon)**

Product Price Components	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
<b>Diesel</b>																								
End-User Price	1.14	1.45	1.30	1.24	1.22	1.24	1.23	1.22	1.23	1.23	1.23	1.24	1.24	1.24	1.24	1.24	1.26	1.26	1.25	1.25	1.25	1.25	0.4%	
Federal Taxes	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	-2.2%	
State Taxes	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	N/A	
Distribution Costs	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.3%	
Wholesale Price	0.55	0.86	0.71	0.65	0.64	0.66	0.66	0.65	0.66	0.67	0.67	0.69	0.69	0.70	0.70	0.71	0.72	0.73	0.73	0.73	0.73	0.74	1.4%	
<b>Motor Gasoline</b>																								
End-User Price	1.18	1.50	1.40	1.34	1.32	1.32	1.33	1.35	1.37	1.35	1.35	1.36	1.35	1.35	1.34	1.35	1.34	1.34	1.34	1.33	1.33	1.33	0.6%	
Federal Taxes	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	-2.3%	
State Taxes 1/	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.0%	
Distribution Costs	0.12	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.8%	
Wholesale Price	0.66	0.95	0.86	0.81	0.79	0.79	0.80	0.82	0.85	0.84	0.84	0.85	0.84	0.84	0.84	0.85	0.84	0.84	0.85	0.85	0.85	0.85	1.3%	
<b>Jet Fuel</b>																								
End-User Price	0.63	0.89	0.75	0.70	0.68	0.70	0.71	0.71	0.72	0.72	0.73	0.74	0.74	0.74	0.75	0.76	0.78	0.78	0.79	0.79	0.79	0.79	1.1%	
Federal Taxes	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-2.2%	
State Taxes	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A	
Distribution Costs	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-1.2%	
Wholesale Price	0.58	0.83	0.70	0.65	0.63	0.65	0.66	0.66	0.67	0.67	0.68	0.69	0.69	0.70	0.71	0.72	0.74	0.74	0.75	0.75	0.75	0.76	1.2%	
<b>Residential Distillate Fuel/Heating Oil</b>																								
End-User Price	0.87	1.26	1.08	1.03	1.00	1.02	1.02	1.01	1.02	1.02	1.03	1.04	1.04	1.05	1.06	1.06	1.08	1.09	1.09	1.10	1.11	1.11	1.2%	
Distribution Costs	0.35	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.5%	
Wholesale Price	0.52	0.87	0.69	0.64	0.61	0.62	0.62	0.61	0.63	0.63	0.64	0.65	0.65	0.66	0.66	0.67	0.69	0.69	0.70	0.70	0.71	0.72	1.6%	
<b>World Oil Price</b>																								
	0.41	0.66	0.57	0.51	0.49	0.49	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53	1.2%	

1/ Includes a 2 cent average local tax.

N/A = Not applicable.

Sources: 1999 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B,

"Resellers/Retailers' Monthly Petroleum Product Sales Report." 1999 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, <http://www.fhwa.dot.gov/ohim/mmfrr/mmfrpage.htm>, March 2000. 1999 jet fuel taxes: EIA,

Office of Oil and Gas. 1999 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 79. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region (1 of 1)**

	1999-																						
Region	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Production 1/ (million barrels per day)																							
Lower 48 Total	4.83	4.93	4.98	5.08	5.11	4.94	4.86	4.72	4.67	4.63	4.57	4.50	4.42	4.38	4.36	4.37	4.38	4.40	4.42	4.45	4.41	4.41	-0.4%
Lower 48 Onshore																							
Northeast	0.09	0.09	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	-2.5%
Gulf Coast	0.66	0.67	0.67	0.62	0.59	0.55	0.52	0.50	0.48	0.46	0.45	0.45	0.45	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.47	0.44	-1.9%
Midcontinent	0.32	0.32	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.28	0.29	0.30	0.31	0.32	0.0%
Southwest	1.10	1.11	1.11	1.06	1.00	0.93	0.87	0.82	0.78	0.74	0.71	0.68	0.66	0.64	0.63	0.63	0.63	0.64	0.64	0.66	0.67	0.69	-2.2%
Rocky Mountain	0.40	0.41	0.41	0.40	0.38	0.36	0.35	0.34	0.33	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.33	0.34	0.35	0.36	0.37	-0.4%
West Coast	0.70	0.70	0.70	0.68	0.67	0.67	0.67	0.67	0.68	0.69	0.70	0.72	0.73	0.75	0.76	0.77	0.78	0.79	0.80	0.80	0.79	0.77	0.5%
Lower 48 Offshore																							
Gulf	1.40	1.48	1.56	1.73	1.92	1.90	1.95	1.93	1.95	1.98	1.96	1.92	1.86	1.81	1.79	1.78	1.75	1.73	1.71	1.69	1.68	1.68	0.9%
Pacific	0.16	0.14	0.11	0.18	0.18	0.17	0.16	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.09	-2.7%
Atlantic	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wellhead Prices (1999 dollars per barrel)																							
Lower 48 Average	16.49	25.87	23.33	20.87	20.08	20.34	20.42	20.38	20.40	20.52	20.69	20.80	21.01	20.99	21.06	21.17	21.00	21.04	21.15	21.26	21.35	21.45	1.3%
Lower 48 Onshore																							
Northeast	17.00	26.64	23.47	21.06	20.35	20.61	20.67	20.42	20.37	20.53	20.75	20.90	21.17	21.18	21.31	21.47	21.39	21.42	21.50	21.53	21.57	21.64	1.2%
Gulf Coast	17.36	27.21	23.33	20.93	20.16	20.38	20.43	20.27	20.24	20.38	20.57	20.71	20.94	20.96	21.07	21.21	21.11	21.17	21.26	21.32	21.39	21.46	1.0%
Midcontinent	17.47	27.37	23.33	20.93	20.20	20.45	20.52	20.31	20.28	20.43	20.64	20.78	21.05	21.06	21.19	21.35	21.28	21.32	21.40	21.43	21.48	21.55	1.0%
Southwest	17.35	27.18	23.10	20.72	19.96	20.20	20.27	20.13	20.13	20.27	20.46	20.60	20.86	20.87	20.99	21.15	21.10	21.14	21.23	21.27	21.33	21.41	1.0%
Rocky Mountain	16.81	26.34	23.38	20.97	20.21	20.44	20.49	20.30	20.27	20.41	20.60	20.74	20.99	21.00	21.11	21.25	21.17	21.22	21.31	21.36	21.43	21.50	1.2%
West Coast	14.10	22.09	22.02	19.43	18.31	18.72	18.82	19.39	19.54	19.51	19.59	19.58	19.67	19.57	19.44	19.42	18.97	18.99	19.17	19.50	19.67	19.87	1.6%
Lower 48 Offshore																							
Gulf	16.71	26.18	24.27	21.76	20.96	21.19	21.24	21.08	21.05	21.20	21.39	21.53	21.78	21.80	21.91	22.05	21.95	22.01	22.11	22.17	22.24	22.32	1.4%
Pacific	12.54	19.65	20.48	18.07	17.03	17.41	17.50	18.04	18.17	18.14	18.22	18.21	18.30	18.20	18.08	18.06	17.64	17.66	17.83	18.14	18.30	18.48	1.9%
Atlantic	16.71	26.18	23.47	21.06	20.35	20.61	20.67	20.42	20.37	20.53	20.75	20.90	21.17	21.18	21.31	21.47	21.39	21.42	21.50	21.53	21.57	21.64	1.2%

1/ Includes lease condensate.

N/A = Not applicable.

Note: Supply regions are defined in "Documentation of the Oil and Gas Supply Module," Energy Information Administration (EIA), DOE/EIA-MO63(2000) (Washington, DC, January 2000). Totals may not equal sum of components due to independent rounding. Data for 1999 may differ slightly from official EIA data reports due to internal conversion factors within the AEO2001 National Energy Modeling System.

Sources: 1999: Energy Information Administration (EIA), Office of Integrated Analysis and Forecasting, and Petroleum Supply Annual 1999, DOE/EIA-0340(99)/1 (Washington, DC, June 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 80. Lower 48 Natural Gas Production and Wellhead Prices by Supply Region (1 of 1)**

1999-

Region	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Dry Production (trillion cubic feet) 1/																							
Lower 48 Total	18.25	18.18	18.46	19.23	19.83	20.20	20.34	20.63	20.86	21.32	21.86	22.63	23.08	23.68	24.28	24.94	25.70	26.34	26.94	27.54	27.97	28.47	2.1%
Lower 48 Onshore																							
Northeast	0.76	0.79	0.84	0.93	1.01	1.06	1.10	1.11	1.13	1.17	1.22	1.29	1.35	1.42	1.51	1.61	1.75	1.87	1.97	2.06	2.10	2.12	5.0%
Gulf Coast	4.77	5.19	5.45	5.57	5.42	5.22	5.05	5.00	5.11	5.33	5.63	5.97	6.18	6.39	6.53	6.59	6.60	6.53	6.44	6.33	6.20	6.07	1.2%
Midcontinent	2.61	2.57	2.51	2.56	2.56	2.58	2.58	2.61	2.68	2.76	2.82	2.94	3.03	3.15	3.28	3.43	3.58	3.71	3.84	3.97	4.07	4.20	2.3%
Southwest	1.53	1.57	1.61	1.68	1.70	1.66	1.62	1.60	1.59	1.63	1.68	1.73	1.77	1.82	1.86	1.90	1.96	2.03	2.12	2.23	2.34	2.47	2.3%
Rocky Mountain	2.85	3.04	3.16	3.37	3.62	3.69	3.69	3.77	3.70	3.77	3.86	4.03	4.12	4.23	4.36	4.53	4.75	4.97	5.20	5.45	5.70	5.97	3.6%
West Coast	0.30	0.27	0.28	0.28	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.33	0.34	0.36	0.37	0.39	0.40	0.41	0.43	0.44	0.43	0.42	1.7%
Lower 48 Offshore																							
Gulf	5.37	4.71	4.56	4.78	5.18	5.64	5.96	6.19	6.29	6.30	6.27	6.29	6.24	6.26	6.32	6.44	6.62	6.78	6.90	7.01	7.08	7.16	1.4%
Pacific	0.06	0.05	0.05	0.04	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	-1.4%
Atlantic	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wellhead Prices (1999 dollars per thousand cubic feet)																							
Lower 48 Average	2.08	3.32	3.34	2.79	2.52	2.43	2.49	2.55	2.59	2.63	2.66	2.69	2.71	2.73	2.76	2.79	2.83	2.88	2.93	2.98	3.05	3.13	2.0%
Lower 48 Onshore																							
Northeast	2.37	3.54	3.43	2.85	2.56	2.47	2.55	2.65	2.73	2.78	2.82	2.83	2.82	2.82	2.84	2.86	2.91	2.98	3.04	3.11	3.21	3.34	1.7%
Gulf Coast	1.79	2.98	3.24	2.85	2.65	2.59	2.62	2.59	2.58	2.58	2.58	2.61	2.65	2.70	2.76	2.83	2.91	2.99	3.06	3.14	3.20	3.29	2.9%
Midcontinent	2.03	3.34	3.48	2.92	2.62	2.51	2.58	2.60	2.63	2.66	2.67	2.70	2.71	2.72	2.75	2.79	2.84	2.90	2.96	3.03	3.09	3.18	2.2%
Southwest	2.02	3.13	3.18	2.73	2.54	2.51	2.59	2.61	2.60	2.59	2.59	2.62	2.64	2.67	2.72	2.76	2.79	2.81	2.83	2.86	2.91	2.99	1.9%
Rocky Mountain	1.88	2.94	2.98	2.55	2.36	2.32	2.41	2.50	2.54	2.57	2.60	2.65	2.70	2.71	2.72	2.72	2.72	2.72	2.73	2.74	2.77	2.83	2.0%
West Coast	2.00	3.59	3.73	3.03	2.67	2.50	2.49	2.55	2.47	2.47	2.55	2.57	2.58	2.60	2.68	2.76	2.82	2.84	2.84	2.92	3.16	3.44	2.6%
Lower 48 Offshore																							
Gulf	2.45	3.94	3.64	2.83	2.41	2.29	2.37	2.47	2.60	2.70	2.74	2.76	2.77	2.77	2.78	2.79	2.82	2.87	2.95	3.01	3.09	3.18	1.3%
Pacific	2.39	3.19	2.96	2.47	2.33	2.35	2.47	2.65	2.67	2.69	2.77	2.84	2.88	2.92	2.98	3.03	3.05	3.06	3.06	3.05	3.05	3.07	1.2%
Atlantic	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A

1/ Marketed production (wet) minus extraction losses.

N/A = Not applicable.

Note: Supply regions are defined in "Documentation of the Oil and Gas Supply Module," Energy Information Administration, DOE/EIA-MO63(2000) (Washington, DC, January 2000). Totals may not equal sum of components due to independent rounding.

Source: 1999: Energy Information Administration (EIA), Office of Integrated Analysis and Forecasting, and Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 81. Oil and Gas, End-of-Year Reserves and Annual Reserve Additions (1 of 1)**

Categories	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Lower 48 Reserves																							
Crude Oil (billion barrels)1/																							
Lower 48 Total	18.33	18.04	17.51	17.20	16.46	16.02	15.48	15.11	14.85	14.53	14.24	13.92	13.71	13.59	13.54	13.51	13.50	13.51	13.57	13.52	13.51	13.48	-1.5%
Lower 48 Onshore	14.14	13.40	12.65	11.96	11.35	10.82	10.36	9.98	9.68	9.44	9.27	9.13	9.04	9.00	9.01	9.04	9.11	9.21	9.30	9.31	9.30	9.31	-2.0%
Conventional	11.65	10.99	10.31	9.66	9.05	8.52	8.05	7.64	7.29	7.00	6.76	6.57	6.42	6.31	6.25	6.22	6.23	6.27	6.33	6.34	6.38	6.47	-2.8%
Enhanced Oil Recovery	2.49	2.41	2.34	2.30	2.30	2.30	2.32	2.34	2.39	2.44	2.51	2.56	2.62	2.69	2.76	2.82	2.88	2.94	2.97	2.97	2.92	2.85	0.7%
Lower 48 Offshore	4.19	4.64	4.86	5.24	5.11	5.21	5.11	5.13	5.17	5.08	4.98	4.79	4.67	4.59	4.54	4.46	4.39	4.31	4.27	4.21	4.21	4.17	0.0%
Dry Natural Gas (trillion cubic feet)																							
Lower 48 Total	157.4	163.4	166.5	167.8	166.8	166.2	166.6	167.5	169.1	171.9	173.7	174.8	176.5	178.3	180.2	181.9	183.8	185.9	188.8	189.9	190.8	190.1	0.9%
Lower 48 Onshore	126.7	126.1	127.2	126.3	124.0	122.6	122.5	123.2	124.8	126.6	128.5	130.1	131.7	133.6	135.7	137.6	139.7	142.6	145.2	147.0	148.3	148.8	0.8%
Associated-Dissolved 2/	15.3	14.0	14.6	14.5	13.8	13.3	12.8	12.3	11.9	11.6	11.3	11.1	11.0	11.0	11.0	11.0	11.1	11.2	11.3	11.5	11.7	11.6	-1.3%
Non-Associated	111.4	112.1	112.6	111.8	110.2	109.3	109.7	110.9	112.9	115.1	117.2	118.9	120.7	122.6	124.7	126.6	128.6	131.4	133.9	135.5	136.5	137.2	1.0%
Conventional	58.7	60.0	60.6	59.5	57.6	55.8	54.5	53.6	53.2	53.0	53.1	53.2	53.5	53.7	53.9	54.2	54.4	54.6	54.8	54.6	54.4	54.1	-0.4%
Unconventional	52.8	52.1	52.0	52.3	52.6	53.5	55.2	57.3	59.7	62.0	64.1	65.7	67.2	68.9	70.8	72.5	74.3	76.8	79.1	80.9	82.1	83.1	2.2%
Lower 48 Offshore	30.7	37.3	39.3	41.4	42.8	43.7	44.1	44.3	44.3	45.2	45.2	44.8	44.8	44.7	44.5	44.3	44.1	43.4	43.6	42.9	42.5	41.3	1.4%
Associated-Dissolved 2/	7.3	9.1	9.3	9.4	9.9	10.2	10.2	10.3	10.2	10.2	10.3	10.2	10.2	10.0	9.9	9.9	9.8	9.8	9.7	9.7	9.6	9.6	1.3%
Non-Associated	23.4	28.2	30.0	32.0	32.9	33.4	34.0	34.1	34.1	35.0	34.9	34.5	34.7	34.7	34.6	34.4	34.3	33.6	33.9	33.3	32.9	31.7	1.5%
Lower 48 Reserve Additions																							
Crude Oil (billion barrels)1/																							
Lower 48 Total	2.78	1.51	1.29	1.54	1.13	1.37	1.23	1.35	1.45	1.37	1.38	1.32	1.40	1.48	1.54	1.56	1.59	1.62	1.67	1.58	1.60	1.58	-2.6%
Lower 48 Onshore	2.11	0.47	0.46	0.46	0.49	0.51	0.55	0.58	0.64	0.68	0.73	0.76	0.80	0.85	0.90	0.94	0.99	1.03	1.05	0.98	0.96	0.98	-3.6%
Conventional	2.11	0.31	0.30	0.27	0.28	0.29	0.31	0.34	0.37	0.40	0.43	0.46	0.50	0.53	0.58	0.62	0.66	0.70	0.74	0.70	0.74	0.79	-4.6%
Enhanced Oil Recovery	0.00	0.16	0.16	0.19	0.22	0.22	0.24	0.24	0.28	0.29	0.30	0.30	0.31	0.32	0.33	0.33	0.33	0.33	0.30	0.28	0.22	0.19	21.7%
Lower 48 Offshore	0.67	1.04	0.83	1.08	0.63	0.85	0.68	0.78	0.80	0.69	0.66	0.56	0.60	0.62	0.64	0.62	0.60	0.59	0.62	0.60	0.64	0.60	-0.5%
Dry Natural Gas (trillion cubic feet)																							
Lower 48 Total	21.5	24.2	21.5	20.5	18.9	19.6	20.7	21.5	22.4	24.1	23.7	23.8	24.8	25.4	26.2	26.6	27.6	28.5	29.8	28.7	28.8	27.8	1.2%
Lower 48 Onshore	16.5	12.8	14.9	13.5	12.3	13.0	14.3	15.1	16.1	16.8	17.4	17.9	18.5	19.2	20.0	20.4	21.1	22.4	22.7	22.3	22.1	21.8	1.3%
Associated-Dissolved 2/	2.6	0.4	2.3	1.7	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.6	1.2	-3.6%
Non-Associated	13.8	12.4	12.6	11.8	11.3	12.0	13.3	14.1	15.1	15.8	16.3	16.7	17.3	18.0	18.7	19.1	19.7	20.9	21.1	20.7	20.5	20.5	1.9%
Conventional	7.0	8.3	7.9	6.6	5.8	5.6	5.9	6.3	6.8	7.3	7.9	8.5	9.0	9.4	9.8	10.2	10.6	10.9	11.1	10.8	11.0	11.1	2.2%
Unconventional	6.8	4.1	4.7	5.2	5.5	6.4	7.3	7.8	8.3	8.4	8.4	8.3	8.3	8.6	8.8	8.8	9.1	10.1	10.1	9.9	9.5	9.4	1.6%
Lower 48 Offshore	5.1	11.4	6.6	6.9	6.6	6.6	6.5	6.4	6.3	7.3	6.3	5.9	6.4	6.2	6.2	6.2	6.5	6.1	7.1	6.4	6.7	6.0	0.8%
Associated-Dissolved 2/	0.7	2.8	1.1	1.1	1.5	1.4	1.0	1.2	1.0	1.1	1.1	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4%
Non-Associated	4.4	8.6	5.5	5.8	5.0	5.1	5.5	5.3	5.3	6.2	5.2	4.9	5.4	5.2	5.3	5.2	5.5	5.1	6.2	5.4	5.7	5.1	0.7%

1/ Includes lease condensate.

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

Note: Totals may not equal sum of components due to independent rounding.

Source: 1999: Energy Information Administration (EIA), Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 82. Natural Gas Imports and Exports (1 of 1)**

																					1999-			
Volumes and Prices	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Volumes (trillion cubic feet)																								
Total Net Imports	3.38	3.51	3.76	3.88	4.07	4.33	4.48	4.65	4.74	4.86	4.97	5.06	5.16	5.26	5.36	5.43	5.50	5.57	5.62	5.68	5.74	5.80	2.6%	
Pipeline																								
Imports from Canada	3.33	3.50	3.74	3.84	3.98	4.22	4.34	4.48	4.56	4.67	4.76	4.85	4.94	5.03	5.12	5.18	5.25	5.31	5.35	5.40	5.45	5.50	2.4%	
Exports to Canada	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-0.3%	
Imports from Mexico	0.05	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.12	3.9%	
Exports to Mexico	0.06	0.09	0.13	0.16	0.17	0.20	0.22	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.46	0.48	0.50	0.52	10.8%	
Liquefied Natural Gas																								
Imports	0.16	0.20	0.23	0.27	0.33	0.38	0.42	0.47	0.49	0.52	0.54	0.56	0.59	0.61	0.64	0.66	0.68	0.71	0.73	0.76	0.78	0.81	8.0%	
Exports	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.1%	
Border Prices																								
(1999 dollars per thousand cubic feet)																								
Average Import Price	2.29	3.12	3.14	2.84	2.62	2.53	2.49	2.46	2.44	2.43	2.43	2.43	2.42	2.43	2.44	2.45	2.47	2.48	2.51	2.55	2.60	2.67	0.7%	
Pipeline Import Prices																								
From Canada	2.28	3.10	3.13	2.85	2.64	2.55	2.50	2.47	2.44	2.43	2.43	2.42	2.42	2.43	2.44	2.44	2.46	2.47	2.49	2.52	2.57	2.64	0.7%	
From Mexico	2.17	3.13	3.32	2.88	2.66	2.58	2.62	2.61	2.61	2.62	2.63	2.67	2.70	2.74	2.79	2.85	2.91	2.97	3.03	3.09	3.15	3.23	1.9%	
LNG Price (including regasification)	2.48	3.39	3.32	2.77	2.45	2.32	2.34	2.37	2.40	2.43	2.44	2.46	2.46	2.47	2.50	2.52	2.56	2.61	2.66	2.72	2.79	2.90	0.7%	

N/A = Not applicable.

LNG = Liquefied natural gas.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 may differ slightly from official EIA data reports due to internal conversion factors within the AEO2001 National Energy Modeling System.

Sources: 1999 import and export volumes and import prices: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). Other 1999: EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 83. Natural Gas Consumption by End-Use Sector and Census Division (2 of 2)  
(Trillion Cubic Feet per Year)**

Sector and Region																					1999-			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
<b>Electric Generators 2/</b>																								
New England	0.18	0.31	0.34	0.37	0.37	0.42	0.43	0.47	0.49	0.53	0.55	0.57	0.59	0.62	0.66	0.68	0.72	0.79	0.80	0.82	0.82	0.83	7.6%	
Middle Atlantic	0.18	0.24	0.24	0.31	0.37	0.40	0.50	0.53	0.59	0.64	0.69	0.82	0.85	0.91	0.95	1.01	1.12	1.19	1.24	1.26	1.28	1.30	9.8%	
East North Central	0.27	0.23	0.26	0.33	0.37	0.45	0.51	0.60	0.70	0.81	0.90	0.97	1.02	1.09	1.15	1.19	1.29	1.36	1.45	1.58	1.62	1.68	9.0%	
West North Central	0.05	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.07	0.08	0.09	0.11	0.14	0.18	0.23	0.25	0.26	0.28	0.29	0.30	8.6%	
South Atlantic	0.35	0.47	0.49	0.56	0.59	0.70	0.68	0.70	0.73	0.75	0.78	0.83	0.89	0.95	1.01	1.05	1.11	1.15	1.22	1.25	1.29	1.32	6.5%	
East South Central	0.16	0.14	0.17	0.22	0.28	0.30	0.40	0.48	0.59	0.72	0.88	1.03	1.11	1.19	1.32	1.49	1.56	1.64	1.71	1.82	1.89	1.97	12.8%	
West South Central	1.73	1.47	1.52	1.59	1.68	1.72	1.59	1.48	1.44	1.45	1.48	1.54	1.57	1.62	1.67	1.71	1.76	1.80	1.85	1.89	1.93	1.98	0.6%	
Mountain	0.17	0.20	0.23	0.28	0.29	0.29	0.25	0.22	0.19	0.19	0.18	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.20	0.21	0.22	0.23	1.6%	
Pacific	0.69	0.78	0.81	0.81	0.90	0.92	0.93	0.98	0.80	0.79	0.85	0.94	1.00	1.09	1.17	1.25	1.34	1.42	1.50	1.58	1.65	1.74	4.5%	
<b>Total</b>	<b>3.78</b>	<b>3.90</b>	<b>4.11</b>	<b>4.51</b>	<b>4.89</b>	<b>5.25</b>	<b>5.35</b>	<b>5.52</b>	<b>5.59</b>	<b>5.93</b>	<b>6.37</b>	<b>6.94</b>	<b>7.29</b>	<b>7.74</b>	<b>8.23</b>	<b>8.74</b>	<b>9.30</b>	<b>9.78</b>	<b>10.23</b>	<b>10.69</b>	<b>10.99</b>	<b>11.34</b>	<b>5.4%</b>	
<b>Transportation 3/</b>																								
New England	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	12.9%	
Middle Atlantic	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	10.2%	
East North Central	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10.4%	
West North Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	12.4%	
South Atlantic	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	11.2%	
East South Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	13.0%	
West South Central	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	12.1%	
Mountain	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	14.6%	
Pacific	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	11.0%	
<b>Total</b>	<b>0.02</b>	<b>0.02</b>	<b>0.03</b>	<b>0.03</b>	<b>0.04</b>	<b>0.05</b>	<b>0.05</b>	<b>0.06</b>	<b>0.07</b>	<b>0.07</b>	<b>0.08</b>	<b>0.09</b>	<b>0.10</b>	<b>0.11</b>	<b>0.11</b>	<b>0.12</b>	<b>0.13</b>	<b>0.13</b>	<b>0.14</b>	<b>0.14</b>	<b>0.15</b>	<b>0.15</b>	<b>11.7%</b>	
<b>All Sectors 4/</b>																								
New England	0.66	0.81	0.85	0.89	0.90	0.96	0.97	1.01	1.04	1.08	1.11	1.13	1.16	1.19	1.24	1.27	1.31	1.38	1.40	1.42	1.43	1.44	3.8%	
Middle Atlantic	2.25	2.38	2.44	2.56	2.66	2.71	2.81	2.86	2.93	2.99	3.05	3.18	3.22	3.30	3.35	3.40	3.52	3.61	3.66	3.68	3.71	3.74	2.5%	
East North Central	3.72	3.77	3.95	4.11	4.21	4.31	4.39	4.51	4.63	4.76	4.86	4.95	5.03	5.14	5.22	5.30	5.43	5.53	5.64	5.80	5.87	5.97	2.3%	
West North Central	1.20	1.24	1.30	1.32	1.35	1.36	1.37	1.38	1.39	1.41	1.42	1.45	1.47	1.50	1.54	1.60	1.66	1.70	1.72	1.75	1.77	1.80	2.0%	
South Atlantic	1.72	1.88	1.95	2.06	2.14	2.29	2.30	2.35	2.41	2.46	2.52	2.61	2.69	2.78	2.87	2.94	3.03	3.11	3.20	3.26	3.32	3.37	3.3%	
East South Central	0.97	0.98	1.04	1.11	1.19	1.22	1.33	1.42	1.55	1.68	1.85	2.01	2.10	2.20	2.33	2.51	2.59	2.68	2.76	2.88	2.95	3.04	5.6%	
West South Central	5.57	5.43	5.55	5.70	5.90	5.96	5.87	5.83	5.83	5.89	5.94	6.04	6.11	6.21	6.29	6.37	6.47	6.55	6.64	6.72	6.79	6.88	1.0%	
Mountain	0.96	1.01	1.07	1.15	1.18	1.20	1.17	1.15	1.14	1.14	1.15	1.14	1.14	1.15	1.17	1.19	1.20	1.22	1.25	1.27	1.28	1.31	1.5%	
Pacific	2.48	2.63	2.62	2.66	2.81	2.86	2.91	3.01	2.90	2.93	3.02	3.14	3.23	3.35	3.46	3.57	3.70	3.81	3.91	4.02	4.11	4.22	2.6%	
<b>Total</b>	<b>19.52</b>	<b>20.12</b>	<b>20.77</b>	<b>21.58</b>	<b>22.33</b>	<b>22.87</b>	<b>23.12</b>	<b>23.54</b>	<b>23.82</b>	<b>24.34</b>	<b>24.93</b>	<b>25.65</b>	<b>26.17</b>	<b>26.83</b>	<b>27.48</b>	<b>28.15</b>	<b>28.92</b>	<b>29.58</b>	<b>30.18</b>	<b>30.79</b>	<b>31.25</b>	<b>31.77</b>	<b>2.3%</b>	

1/ Excludes lease and plant fuel, and includes consumption by cogenerators.

2/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy.

3/ Compressed natural gas used as a vehicle fuel.

4/ Excludes lease and plant fuel and natural gas used for pipeline compressor station fuel.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 may differ slightly from official EIA data reports due to internal conversion factors in the AEO2001 National Energy Modeling System.

Sources: 1999 values: Energy Information Administration (EIA), Short-Term Energy Outlook, September 2000, <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep00.pdf>. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 84. Natural Gas Delivered Prices by End-Use Sector and Census Division (1 of 2)  
(1999 Dollars per Thousand Cubic Feet)**

Sector and Region																				1999-				
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Residential																								
New England	9.56	9.61	10.04	9.42	8.99	8.76	8.68	8.62	8.56	8.50	8.44	8.38	8.31	8.25	8.20	8.14	8.10	8.08	8.07	8.05	8.06	8.09	-0.8%	
Middle Atlantic	8.46	8.89	9.40	8.78	8.36	8.15	8.10	8.06	8.04	8.01	7.96	7.93	7.87	7.82	7.78	7.74	7.72	7.70	7.71	7.70	7.73	7.78	-0.4%	
East North Central	5.68	6.47	7.08	6.49	6.13	5.96	5.95	5.94	5.93	5.93	5.90	5.88	5.87	5.85	5.84	5.84	5.85	5.87	5.90	5.93	5.97	6.02	0.3%	
West North Central	5.96	6.57	7.22	6.72	6.40	6.24	6.23	6.21	6.19	6.18	6.14	6.12	6.10	6.07	6.06	6.07	6.08	6.10	6.12	6.15	6.19	6.25	0.2%	
South Atlantic	7.76	8.21	8.72	8.02	7.58	7.36	7.31	7.27	7.25	7.22	7.16	7.11	7.06	7.01	6.98	6.95	6.93	6.92	6.93	6.94	6.98	7.05	-0.5%	
East South Central	6.69	7.47	8.03	7.38	7.00	6.82	6.82	6.81	6.81	6.78	6.76	6.73	6.70	6.69	6.68	6.69	6.70	6.73	6.75	6.78	6.84	6.84	0.1%	
West South Central	6.23	7.29	7.84	7.20	6.84	6.67	6.67	6.66	6.67	6.67	6.65	6.64	6.62	6.60	6.60	6.59	6.59	6.61	6.63	6.66	6.69	6.74	0.4%	
Mountain	5.76	6.72	7.29	6.77	6.51	6.42	6.47	6.53	6.54	6.52	6.51	6.53	6.58	6.59	6.59	6.59	6.61	6.65	6.69	6.74	6.81	6.89	0.9%	
Pacific	6.52	7.37	7.93	7.48	7.18	7.04	6.96	6.90	6.84	6.77	6.74	6.72	6.71	6.68	6.65	6.61	6.58	6.55	6.52	6.50	6.50	6.53	0.0%	
Average	6.69	7.39	7.95	7.37	7.01	6.83	6.81	6.79	6.78	6.76	6.72	6.70	6.68	6.65	6.63	6.61	6.61	6.61	6.63	6.64	6.67	6.73	0.0%	
Commercial																								
New England	7.10	6.93	7.24	6.72	6.39	6.25	6.25	6.27	6.29	6.31	6.31	6.33	6.28	6.26	6.25	6.22	6.23	6.25	6.26	6.30	6.36	6.36	-0.5%	
Middle Atlantic	5.86	5.92	6.33	5.81	5.49	5.37	5.40	5.44	5.48	5.52	5.54	5.58	5.54	5.53	5.52	5.51	5.52	5.54	5.58	5.60	5.65	5.73	-0.1%	
East North Central	5.25	5.69	6.18	5.65	5.34	5.22	5.26	5.30	5.34	5.38	5.39	5.43	5.42	5.41	5.41	5.41	5.43	5.46	5.49	5.53	5.57	5.64	0.3%	
West North Central	4.84	5.20	5.75	5.32	5.06	4.97	5.01	5.05	5.09	5.13	5.15	5.19	5.18	5.17	5.17	5.19	5.22	5.26	5.29	5.34	5.39	5.46	0.6%	
South Atlantic	6.34	6.43	6.86	6.26	5.94	5.81	5.85	5.90	5.96	6.02	6.04	6.08	6.06	6.04	6.04	6.04	6.05	6.07	6.10	6.13	6.19	6.28	0.0%	
East South Central	5.65	6.16	6.62	6.04	5.73	5.63	5.69	5.75	5.81	5.88	5.91	5.95	5.94	5.93	5.94	5.95	5.97	6.00	6.05	6.09	6.13	6.20	0.4%	
West South Central	4.68	5.44	5.92	5.35	5.06	4.96	5.02	5.08	5.14	5.21	5.25	5.30	5.30	5.31	5.32	5.34	5.37	5.41	5.45	5.50	5.55	5.62	0.9%	
Mountain	4.67	5.39	5.86	5.42	5.23	5.21	5.32	5.44	5.50	5.54	5.59	5.66	5.73	5.75	5.77	5.78	5.81	5.87	5.91	5.97	6.04	6.14	1.3%	
Pacific	5.50	6.16	6.61	6.27	6.06	6.00	5.99	6.00	6.00	6.01	6.04	6.09	6.10	6.09	6.07	6.06	6.05	6.04	6.02	6.02	6.04	6.08	0.5%	
Average	5.49	5.86	6.31	5.80	5.52	5.41	5.45	5.50	5.54	5.58	5.61	5.65	5.64	5.63	5.63	5.63	5.65	5.68	5.71	5.74	5.79	5.86	0.3%	
Industrial 1/																								
New England	3.95	4.38	4.23	3.73	3.42	3.29	3.29	3.32	3.33	3.33	3.32	3.32	3.30	3.31	3.33	3.33	3.36	3.40	3.45	3.48	3.54	3.63	-0.4%	
Middle Atlantic	3.92	4.77	4.73	4.22	3.90	3.78	3.80	3.83	3.86	3.89	3.89	3.90	3.89	3.90	3.92	3.93	3.97	4.01	4.07	4.11	4.18	4.29	0.4%	
East North Central	3.18	4.46	4.50	3.97	3.67	3.56	3.58	3.61	3.63	3.65	3.64	3.66	3.67	3.68	3.70	3.73	3.77	3.82	3.87	3.93	3.99	4.07	1.2%	
West North Central	3.13	4.29	4.37	3.93	3.67	3.57	3.59	3.61	3.63	3.64	3.63	3.64	3.65	3.65	3.68	3.71	3.76	3.81	3.87	3.93	3.99	4.08	1.3%	
South Atlantic	2.94	3.83	3.80	3.23	2.92	2.80	2.84	2.89	2.94	2.99	3.00	3.03	3.04	3.06	3.10	3.12	3.17	3.22	3.28	3.34	3.42	3.53	0.9%	
East South Central	2.60	3.85	3.85	3.28	2.97	2.87	2.93	2.97	3.02	3.07	3.09	3.12	3.14	3.16	3.19	3.23	3.28	3.34	3.41	3.47	3.55	3.63	1.6%	
West South Central	2.50	3.94	3.95	3.39	3.09	2.99	3.03	3.07	3.12	3.17	3.19	3.22	3.24	3.27	3.31	3.35	3.40	3.46	3.52	3.59	3.66	3.75	1.9%	
Mountain	2.80	4.25	4.28	3.83	3.64	3.61	3.71	3.82	3.86	3.89	3.92	3.98	4.07	4.13	4.17	4.21	4.28	4.37	4.46	4.55	4.66	4.79	2.6%	
Pacific	2.77	3.89	3.92	3.60	3.41	3.35	3.34	3.34	3.33	3.33	3.35	3.40	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.59	3.63	3.70	1.4%	
Average	2.87	4.11	4.13	3.61	3.32	3.22	3.26	3.29	3.33	3.36	3.37	3.40	3.42	3.44	3.47	3.50	3.54	3.59	3.65	3.71	3.78	3.86	1.4%	



**Table 84. Natural Gas Delivered Prices by End-Use Sector and Census Division (2 of 2)  
(1999 Dollars per Thousand Cubic Feet)**

Sector and Region																				1999-				
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Electric Generators 2/																								
New England	2.73	3.69	3.56	3.11	2.82	2.74	2.77	2.78	2.82	2.84	2.82	2.82	2.80	2.82	2.85	2.87	2.90	2.96	3.01	3.05	3.11	3.20	3.20	0.8%
Middle Atlantic	2.88	3.82	3.67	3.13	2.82	2.70	2.79	2.95	2.98	3.05	3.08	3.11	3.13	3.15	3.18	3.21	3.27	3.34	3.42	3.48	3.56	3.67	3.67	1.2%
East North Central	2.20	3.38	3.28	2.78	2.49	2.43	2.51	2.63	2.66	2.70	2.71	2.71	2.75	2.78	2.81	2.85	2.90	2.96	3.02	3.10	3.17	3.26	3.26	1.9%
West North Central	2.53	3.78	3.75	3.30	3.04	2.93	2.92	2.92	2.93	2.94	3.01	3.08	3.19	3.23	3.34	3.48	3.63	3.73	3.81	3.89	3.96	4.05	4.05	2.3%
South Atlantic	3.07	3.79	3.68	3.16	2.86	2.80	2.83	2.91	2.99	3.05	3.11	3.16	3.21	3.27	3.34	3.39	3.44	3.52	3.60	3.67	3.74	3.81	3.81	1.0%
East South Central	2.57	4.00	3.84	3.23	2.90	2.79	3.05	3.19	3.31	3.41	3.49	3.54	3.56	3.59	3.64	3.71	3.76	3.83	3.90	3.98	4.05	4.14	4.14	2.3%
West South Central	2.55	4.08	3.98	3.39	3.07	2.96	2.97	2.99	3.02	3.07	3.09	3.12	3.15	3.18	3.22	3.27	3.32	3.38	3.45	3.52	3.59	3.68	3.68	1.8%
Mountain	2.55	3.92	3.91	3.45	3.26	3.30	3.41	3.50	3.50	3.50	3.53	3.57	3.61	3.65	3.68	3.69	3.70	3.70	3.69	3.69	3.69	3.70	3.70	1.8%
Pacific	2.53	4.27	4.15	3.76	3.51	3.35	3.18	3.07	2.91	2.85	2.85	2.90	2.95	3.00	3.05	3.09	3.15	3.21	3.26	3.32	3.40	3.49	3.49	1.5%
Average	2.59	3.98	3.87	3.34	3.05	2.93	2.94	2.97	2.98	3.02	3.05	3.08	3.12	3.15	3.20	3.25	3.30	3.37	3.43	3.49	3.57	3.66	3.66	1.6%
Transportation 3/																								
New England	8.27	8.63	8.33	7.73	7.35	7.19	7.18	7.22	7.27	7.30	7.32	7.35	7.34	7.35	7.37	7.37	7.37	7.39	7.40	7.39	7.42	7.46	7.46	-0.5%
Middle Atlantic	9.86	10.73	10.56	9.99	9.61	9.44	9.43	9.44	9.46	9.47	9.46	9.47	9.44	9.43	9.42	9.40	9.40	9.40	9.40	9.39	9.40	9.44	9.44	-0.2%
East North Central	7.75	8.86	8.79	8.18	7.83	7.68	7.69	7.73	7.77	7.81	7.82	7.85	7.87	7.88	7.90	7.91	7.93	7.95	7.97	8.00	8.02	8.06	8.06	0.2%
West North Central	5.85	6.71	6.62	6.08	5.76	5.64	5.67	5.75	5.83	5.90	5.95	6.02	6.07	6.11	6.15	6.20	6.24	6.29	6.32	6.37	6.41	6.48	6.48	0.5%
South Atlantic	6.77	7.52	7.37	6.74	6.39	6.25	6.28	6.36	6.46	6.55	6.60	6.66	6.70	6.74	6.78	6.81	6.84	6.88	6.92	6.95	7.00	7.07	7.07	0.2%
East South Central	6.57	7.69	7.60	6.97	6.63	6.52	6.57	6.64	6.72	6.80	6.84	6.89	6.92	6.96	7.00	7.04	7.08	7.13	7.18	7.23	7.29	7.36	7.36	0.5%
West South Central	5.94	7.06	6.90	6.23	5.87	5.75	5.81	5.90	6.01	6.12	6.19	6.27	6.33	6.39	6.44	6.49	6.53	6.57	6.62	6.66	6.71	6.78	6.78	0.6%
Mountain	6.40	7.41	7.34	6.85	6.64	6.60	6.70	6.83	6.90	6.96	7.04	7.14	7.24	7.30	7.35	7.39	7.43	7.48	7.52	7.56	7.61	7.68	7.68	0.9%
Pacific	6.56	7.62	7.51	7.05	6.81	6.75	6.76	6.81	6.87	6.92	6.99	7.08	7.15	7.19	7.22	7.25	7.26	7.27	7.27	7.27	7.30	7.35	7.35	0.5%
Average	7.21	8.15	8.02	7.43	7.10	6.97	6.99	7.04	7.10	7.15	7.18	7.23	7.27	7.29	7.32	7.34	7.36	7.38	7.41	7.43	7.46	7.52	7.52	0.2%
All Sectors 4/																								
New England	5.86	5.81	5.81	5.24	4.94	4.71	4.69	4.64	4.62	4.57	4.53	4.50	4.45	4.41	4.38	4.36	4.34	4.32	4.35	4.36	4.41	4.49	4.49	-1.3%
Middle Atlantic	6.00	6.42	6.68	6.05	5.63	5.45	5.37	5.37	5.34	5.33	5.29	5.21	5.18	5.13	5.11	5.08	5.05	5.05	5.08	5.11	5.16	5.24	5.24	-0.6%
East North Central	4.49	5.43	5.75	5.16	4.81	4.65	4.63	4.61	4.59	4.56	4.52	4.50	4.48	4.46	4.46	4.46	4.47	4.49	4.51	4.53	4.57	4.64	4.64	0.2%
West North Central	4.57	5.33	5.72	5.27	4.99	4.87	4.88	4.89	4.89	4.90	4.87	4.87	4.85	4.83	4.82	4.81	4.82	4.85	4.89	4.93	4.98	5.05	5.05	0.5%
South Atlantic	4.69	5.22	5.36	4.76	4.43	4.25	4.30	4.34	4.39	4.44	4.45	4.47	4.46	4.46	4.47	4.49	4.51	4.55	4.59	4.64	4.70	4.79	4.79	0.1%
East South Central	3.89	4.98	5.13	4.49	4.11	4.00	4.02	4.03	4.05	4.07	4.06	4.06	4.06	4.06	4.08	4.11	4.14	4.20	4.25	4.31	4.37	4.45	4.45	0.6%
West South Central	2.90	4.31	4.38	3.80	3.49	3.38	3.43	3.46	3.51	3.56	3.58	3.60	3.62	3.64	3.68	3.71	3.76	3.81	3.87	3.93	4.00	4.08	4.08	1.6%
Mountain	4.09	5.19	5.45	4.93	4.72	4.70	4.84	4.97	5.04	5.07	5.10	5.18	5.25	5.29	5.31	5.31	5.34	5.40	5.42	5.47	5.53	5.60	5.60	1.5%
Pacific	3.92	5.06	5.27	4.91	4.65	4.54	4.47	4.41	4.43	4.42	4.40	4.40	4.41	4.40	4.38	4.37	4.37	4.37	4.37	4.38	4.41	4.47	4.47	0.6%
Average	4.16	5.15	5.35	4.80	4.48	4.34	4.35	4.37	4.38	4.39	4.38	4.38	4.37	4.37	4.37	4.38	4.39	4.42	4.46	4.49	4.55	4.62	4.62	0.5%

1/ Excludes lease and plant fuel and includes consumption by cogenerators.

2/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy.

3/ Compressed natural gas used as a vehicle fuel, including federal and state fuel taxes. Excludes dispensing charges for fleet vehicles.

4/ Weighted average price. Weights used are the sector consumption values.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 may differ slightly from official EIA data reports due to internal conversion factors in the AEO2001 National Energy Modeling System.

Sources: 1999 residential and commercial sector values: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2000/06) (Washington, DC, June 2000). 1999 industrial natural gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. Other 1999 values and projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 85. Natural Gas Pipeline Capacity By Census Division (1 of 1)  
(Design Capacity in Billions of Cubic Feet per Year)**

Region																					1999-			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Capacity Entering Region 1/																								
New England	1066	1203	1227	1302	1356	1356	1356	1356	1356	1356	1392	1422	1450	1491	1543	1572	1616	1690	1711	1735	1750	1761	2.4%	
Mid Atlantic	4542	4542	4542	4569	4622	4630	4635	4645	4656	4669	4678	4689	4700	4712	4725	4735	4767	4870	4877	4894	4926	4964	0.4%	
East North Central	8285	8481	8860	8860	8860	8860	8860	8860	8860	8860	8860	8985	9124	9288	9425	9560	9722	9886	10041	10224	10366	10530	1.1%	
West North Central	6164	6335	6659	6659	6659	6669	6676	6731	6816	6905	6976	7061	7113	7181	7257	7346	7461	7586	7716	7867	8008	8161	1.3%	
South Atlantic	5458	5605	5678	5829	6039	6048	6062	6098	6152	6177	6216	6277	6337	6401	6475	6519	6583	6629	6695	6735	6775	6804	1.1%	
East South Central	9022	9163	9212	9239	9295	9295	9295	9295	9295	9295	9295	9295	9295	9295	9295	9315	9391	9461	9477	9530	9592	9592	0.3%	
West South Central	1794	1794	1815	1858	1907	1907	1907	1907	1907	1907	1907	1907	1909	1913	1917	1921	1925	1929	1933	1936	1939	1943	0.4%	
Mountain	2466	2469	2469	2469	2469	2469	2469	2469	2469	2470	2470	2470	2471	2471	2471	2472	2472	2472	2473	2473	2473	2473	0.0%	
Pacific	3866	3866	3866	3866	3882	3913	3926	3949	3962	3977	4023	4154	4259	4372	4460	4561	4691	4809	4911	5019	5126	5236	1.5%	
Total	42662	43458	44328	44651	45090	45148	45187	45312	45474	45617	45819	46261	46657	47124	47569	48000	48629	49332	49818	50360	50894	51464	0.9%	
United States (Pipeline Imports)	4759	5069	5418	5467	5472	5499	5516	5565	5619	5682	5734	5797	5861	5927	5999	6059	6121	6182	6225	6276	6326	6378	1.4%	
Capacity Exiting Region 2/																								
New England	104	104	104	131	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	2.8%	
Mid Atlantic	1995	2025	2025	2052	2105	2105	2105	2105	2105	2105	2141	2171	2199	2240	2293	2318	2359	2430	2448	2470	2482	2490	1.1%	
East North Central	3080	3166	3342	3342	3342	3342	3342	3342	3342	3342	3342	3342	3342	3342	3342	3342	3344	3347	3347	3355	3379	3408	0.5%	
West North Central	4638	4835	5214	5214	5214	5214	5214	5214	5214	5214	5214	5338	5477	5642	5779	5914	6076	6239	6395	6577	6720	6883	1.9%	
South Atlantic	3357	3381	3430	3430	3430	3430	3430	3430	3430	3430	3430	3430	3430	3430	3430	3451	3540	3540	3540	3540	3540	3540	0.3%	
East South Central	7333	7450	7523	7674	7884	7893	7907	7943	7996	8022	8061	8122	8181	8246	8320	8363	8428	8473	8540	8579	8620	8649	0.8%	
West South Central	14068	14238	14238	14298	14420	14420	14420	14420	14420	14420	14420	14420	14420	14420	14420	14440	14516	14586	14586	14602	14655	14717	0.2%	
Mountain	4535	4535	4572	4647	4706	4728	4735	4776	4831	4885	4960	5124	5230	5361	5469	5617	5818	6018	6221	6444	6656	6883	2.0%	
Pacific	264	390	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476	2.8%	
Total	39375	40125	40924	41263	41762	41794	41815	41891	41999	42079	42229	42608	42940	43342	43714	44085	44652	45294	45737	46228	46712	47231	0.9%	
United States (Pipeline Exports)	1471	1737	2014	2078	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	1.8%	

1/ Includes only the sum of capacity levels for the States bounding the respective regions including pipeline import capacity.

2/ Includes only the sum of capacity levels for the States bounding the respective regions including pipeline export capacity.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 86. Natural Gas Pipeline Capacity Utilization 1/ by Census Division (1 of 1)  
(Fraction)**

Region	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
<b>Utilization Entering Region</b>																							
New England	0.56	0.68	0.68	0.68	0.69	0.73	0.75	0.78	0.80	0.83	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.85	0.85	0.84	0.84	0.84	1.9%
Mid Atlantic	0.66	0.71	0.72	0.75	0.77	0.78	0.81	0.82	0.84	0.85	0.86	0.89	0.90	0.91	0.92	0.93	0.96	0.96	0.97	0.97	0.97	0.97	1.9%
East North Central	0.61	0.63	0.63	0.66	0.68	0.69	0.71	0.73	0.74	0.76	0.78	0.79	0.79	0.79	0.79	0.78	0.78	0.78	0.78	0.78	0.78	0.77	1.1%
West North Central	0.62	0.60	0.62	0.66	0.68	0.71	0.73	0.74	0.76	0.77	0.77	0.78	0.79	0.80	0.80	0.81	0.82	0.83	0.84	0.84	0.85	0.85	1.5%
South Atlantic	0.67	0.68	0.68	0.69	0.67	0.69	0.69	0.70	0.70	0.70	0.70	0.71	0.71	0.71	0.72	0.72	0.72	0.73	0.73	0.72	0.72	0.72	0.4%
East South Central	0.64	0.63	0.63	0.66	0.67	0.68	0.70	0.72	0.73	0.75	0.78	0.81	0.82	0.83	0.84	0.86	0.86	0.87	0.87	0.88	0.88	0.88	1.5%
West South Central	0.30	0.29	0.30	0.31	0.32	0.31	0.30	0.29	0.28	0.28	0.28	0.27	0.26	0.26	0.25	0.25	0.25	0.26	0.26	0.27	0.28	0.29	-0.2%
Mountain	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.2%
Pacific	0.65	0.65	0.64	0.66	0.69	0.71	0.72	0.74	0.71	0.72	0.74	0.74	0.75	0.75	0.76	0.77	0.78	0.78	0.78	0.79	0.79	0.80	1.0%
Average 2/	0.59	0.60	0.61	0.63	0.64	0.66	0.67	0.68	0.69	0.71	0.72	0.73	0.74	0.74	0.75	0.75	0.76	0.77	0.77	0.77	0.77	0.77	1.3%
United States (Pipeline Imports)	0.82	0.79	0.80	0.82	0.85	0.89	0.91	0.93	0.94	0.95	0.96	0.96	0.97	0.97	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.9%
<b>Utilization Exiting Region</b>																							
New England	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.0%
Mid Atlantic	0.35	0.44	0.44	0.45	0.46	0.48	0.48	0.49	0.50	0.50	0.49	0.49	0.48	0.48	0.48	0.48	0.49	0.51	0.51	0.51	0.51	0.51	1.9%
East North Central	0.54	0.56	0.55	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.66	0.68	0.68	0.69	0.70	0.70	0.70	0.71	0.71	0.71	0.71	0.71	1.3%
West North Central	0.61	0.65	0.65	0.69	0.72	0.74	0.77	0.80	0.84	0.87	0.87	0.88	0.88	0.89	0.89	0.89	0.89	0.90	0.90	0.90	0.90	0.91	1.9%
South Atlantic	0.58	0.62	0.62	0.64	0.65	0.66	0.68	0.69	0.70	0.71	0.71	0.73	0.74	0.76	0.77	0.78	0.81	0.82	0.83	0.83	0.83	0.83	1.7%
East South Central	0.69	0.69	0.68	0.70	0.69	0.71	0.71	0.71	0.71	0.71	0.72	0.73	0.72	0.72	0.71	0.71	0.71	0.71	0.70	0.69	0.68	0.68	-0.1%
West South Central	0.52	0.51	0.51	0.53	0.53	0.55	0.56	0.58	0.60	0.61	0.63	0.65	0.66	0.67	0.69	0.70	0.71	0.71	0.72	0.73	0.73	0.73	1.6%
Mountain	0.49	0.51	0.52	0.54	0.58	0.58	0.58	0.59	0.56	0.57	0.57	0.58	0.59	0.59	0.60	0.61	0.63	0.64	0.65	0.66	0.67	0.69	1.7%
Pacific	0.40	0.33	0.32	0.37	0.39	0.43	0.45	0.47	0.49	0.51	0.53	0.55	0.57	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76	3.1%
Average 2/	0.56	0.57	0.57	0.59	0.60	0.61	0.63	0.64	0.65	0.66	0.67	0.69	0.69	0.70	0.70	0.71	0.72	0.72	0.73	0.73	0.73	0.74	1.3%
United States (Pipeline Exports)	0.39	0.35	0.34	0.37	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.51	0.52	0.53	0.54	0.55	1.6%

1/ Capacity utilization is defined as the annual throughput volume divided by the design capacity (Table 85).

2/ Weighted average utilization. Weights used are the regional pipeline capacity levels provided in Table 85.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 87. Domestic Coal Supply, Disposition, and Prices (1 of 1)**

																				1999-				
Supply, Consumption, and Prices	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Sources of Supply (million short tons)																								
Distribution from																								
Appalachia 1/	388.2	376.0	369.5	374.0	374.8	372.2	369.6	371.0	368.0	367.9	366.2	362.9	363.9	361.3	360.5	361.5	362.6	354.8	353.4	352.6	352.3	349.4	-0.5%	
Interior	165.7	161.8	161.7	162.0	164.1	166.8	167.6	175.5	176.8	176.2	175.4	171.2	168.5	169.1	170.0	168.3	169.5	160.1	159.4	159.0	153.3	152.3	-0.4%	
Northern Great Plains	400.3	425.3	450.6	483.8	497.1	503.7	519.8	519.7	546.3	555.6	560.9	565.0	572.5	577.5	582.9	587.6	591.6	616.5	628.0	631.1	643.3	657.0	2.4%	
Other West and Non-Contiguous	92.8	89.6	94.3	101.0	102.6	106.6	109.2	108.1	111.4	110.8	107.4	116.1	115.6	117.5	117.7	117.8	116.6	117.9	117.8	117.2	116.4	116.3	1.1%	
Total Distribution																								
(excludes exports)	1047.0	1052.7	1076.1	1120.9	1138.6	1149.3	1166.3	1174.4	1202.5	1210.5	1209.9	1215.1	1220.4	1225.4	1231.1	1235.1	1240.3	1249.2	1258.5	1259.8	1265.3	1274.9	0.9%	
Imports	9.1	10.4	12.3	13.0	13.7	14.9	15.6	15.8	16.5	16.8	17.0	17.2	17.5	17.7	18.0	18.2	18.5	18.7	19.0	19.3	19.5	19.7	3.8%	
Total Supply	1056.1	1063.1	1088.4	1133.9	1152.3	1164.2	1181.9	1190.2	1219.0	1227.3	1226.9	1232.3	1237.9	1243.1	1249.1	1253.3	1258.8	1267.9	1277.5	1279.1	1284.8	1294.6	1.0%	
Consumption (million short tons)																								
Residential/Commercial	4.8	4.7	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.3	5.4	5.4	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0.6%	
Industrial	78.7	80.1	80.3	80.0	81.6	82.3	83.1	83.6	84.1	84.2	84.3	84.5	84.6	84.8	84.9	85.1	85.3	85.5	85.8	86.0	86.2	86.5	0.5%	
Coke Plants	28.1	29.4	28.8	28.1	27.4	26.5	25.6	24.8	23.9	23.5	23.0	22.6	22.2	21.8	21.4	21.0	20.6	20.2	19.8	19.4	19.1	18.7	-1.9%	
Electric Generators	923.1	963.6	997.7	1021.7	1039.3	1051.0	1068.7	1077.6	1106.9	1115.4	1115.7	1122.0	1127.6	1131.9	1139.1	1142.5	1149.4	1157.3	1168.2	1169.5	1175.5	1185.9	1.2%	
Total Consumption	1034.7	1077.7	1111.7	1134.7	1153.3	1164.9	1182.5	1191.1	1220.2	1228.4	1228.5	1234.5	1239.9	1243.9	1250.8	1254.1	1260.7	1268.5	1279.3	1280.4	1286.2	1296.6	1.1%	
Discrepancy 2/	21.4	-14.6	-23.3	-0.8	-1.0	-0.6	-0.7	-0.9	-1.2	-1.1	-1.6	-2.2	-2.0	-0.7	-1.7	-0.8	-2.0	-0.6	-1.8	-1.3	-1.4	-1.9	N/A	
Delivered Prices																								
(1999 dollars per short ton)																								
Industrial	31.43	31.01	30.39	30.12	29.84	29.70	29.50	29.28	29.12	28.83	28.57	28.40	28.18	28.02	27.88	27.66	27.49	27.28	27.08	26.91	26.72	26.48	-0.8%	
Coke Plants	44.25	44.59	44.37	43.65	43.26	42.90	42.57	42.28	42.03	41.74	41.52	41.25	40.96	40.67	40.58	40.37	39.81	39.55	39.29	39.05	38.81	38.57	-0.7%	
Electric Generators	24.69	24.16	23.81	23.64	23.32	23.03	22.73	22.45	21.96	21.57	21.20	21.04	20.84	20.69	20.55	20.38	20.25	20.02	19.88	19.74	19.59	19.45	-1.1%	
Average Price 3/	25.74	25.23	24.82	24.60	24.26	23.96	23.64	23.35	22.85	22.45	22.09	21.92	21.70	21.54	21.40	21.21	21.06	20.83	20.67	20.52	20.35	20.19	-1.1%	

1/ Includes waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal distribution tables. The totals for this table include this waste coal tonnage.

2/ Includes stock changes.

3/ Weighted average excludes residential/commercial prices.

Appalachia: PA, OH, MD, WV, VA, TN, AL, MS, Eastern KY.

Interior: Western KY, IL, IN, IA, MO, KS, OK, AR, TX, LA.

Northern Great Plains: ND, MT, WY.

Other West and Non-Contiguous: CO, UT, AZ, NM, WA, AK.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 88. Coal Production and Minemouth Prices by Region (1 of 1)**

Supply Regions 1/	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
Production (million short tons)																								
Appalachia 2/	437.29	424.72	419.88	423.66	423.91	420.80	417.92	418.99	415.54	415.12	412.90	408.88	409.09	405.91	405.15	406.13	404.13	396.31	395.03	394.64	394.63	392.02	-0.5%	
Interior	166.24	162.30	162.23	162.58	164.70	167.41	168.17	175.99	177.23	176.55	175.65	171.40	168.58	169.11	170.01	168.29	169.48	160.05	159.36	158.97	153.30	152.27	-0.4%	
Northern Great Plains	404.45	429.29	454.50	487.62	500.78	507.37	523.37	523.32	549.93	559.26	564.56	568.62	576.18	581.26	586.78	591.54	595.75	620.71	632.42	635.64	648.04	661.85	2.4%	
Other West and Non-Contiguous	97.33	94.30	99.37	106.74	108.98	113.73	116.50	115.50	118.86	118.33	115.03	123.82	123.42	125.43	125.69	125.87	124.75	126.17	126.11	125.61	124.87	124.88	1.2%	
Appalachia 2/	437.29	424.72	419.88	423.66	423.91	420.80	417.92	418.99	415.54	415.12	412.90	408.88	409.09	405.91	405.15	406.13	404.13	396.31	395.03	394.64	394.63	392.02	-0.5%	
Interior	166.24	162.30	162.23	162.58	164.70	167.41	168.17	175.99	177.23	176.55	175.65	171.40	168.58	169.11	170.01	168.29	169.48	160.05	159.36	158.97	153.30	152.27	-0.4%	
West	501.79	523.59	553.87	594.36	609.76	621.09	639.86	638.82	668.79	677.59	679.59	692.43	699.60	706.69	712.47	717.41	720.49	746.88	758.53	761.25	772.91	786.73	2.2%	
East of Mississippi River	545.87	530.81	527.57	534.62	539.41	539.81	538.30	547.71	545.91	545.23	544.52	537.40	536.91	534.39	534.62	534.77	534.42	517.21	515.26	514.84	514.38	511.80	-0.3%	
West of Mississippi River	559.45	579.80	608.41	645.98	658.97	669.49	687.65	686.09	715.65	724.03	723.62	735.31	740.37	747.33	753.00	757.06	759.68	786.04	797.66	800.02	806.47	819.22	1.8%	
U.S. Total	1105.32	1110.61	1135.98	1180.60	1198.38	1209.30	1225.96	1233.80	1261.56	1269.26	1268.14	1272.71	1277.27	1281.71	1287.62	1291.83	1294.10	1303.25	1312.92	1314.85	1320.84	1331.02	0.9%	
Minemouth Prices (1999 dollars per short ton)																								
Appalachia	26.07	25.67	25.23	24.85	24.53	24.38	24.18	23.91	23.76	23.54	23.37	23.32	23.21	23.12	23.13	23.02	22.87	22.81	22.71	22.66	22.68	22.63	-0.7%	
Interior	18.73	18.47	18.32	18.26	18.37	18.35	18.23	18.59	18.53	18.38	18.31	18.10	17.97	17.93	17.92	17.71	17.64	17.02	16.96	16.93	16.83	16.78	-0.5%	
Northern Great Plains	5.87	5.76	5.59	5.47	5.32	5.19	5.12	5.04	5.03	4.96	4.86	4.78	4.78	4.79	4.79	4.81	4.91	4.96	4.97	5.01	4.99	4.99	-0.8%	
Other West and Non-Contiguous	19.35	18.71	18.61	18.56	18.50	18.46	18.43	18.40	18.29	18.04	17.91	18.11	18.04	17.97	17.87	17.80	17.79	17.78	17.73	17.68	17.57	17.48	-0.5%	
Appalachia	26.07	25.67	25.23	24.85	24.53	24.38	24.18	23.91	23.76	23.54	23.37	23.32	23.21	23.12	23.13	23.02	22.87	22.81	22.71	22.66	22.68	22.63	-0.7%	
Interior	18.73	18.47	18.32	18.26	18.37	18.35	18.23	18.59	18.53	18.38	18.31	18.10	17.97	17.93	17.92	17.71	17.64	17.02	16.96	16.93	16.83	16.78	-0.5%	
West	8.48	8.10	7.92	7.82	7.68	7.62	7.54	7.46	7.39	7.24	7.07	7.16	7.12	7.13	7.10	7.08	7.06	7.09	7.08	7.07	7.04	6.97	-0.9%	
East of Mississippi River	25.16	24.76	24.35	24.01	23.74	23.59	23.37	23.21	23.06	22.84	22.66	22.58	22.45	22.35	22.35	22.21	22.05	21.88	21.78	21.73	21.69	21.62	-0.7%	
West of Mississippi River	9.00	8.62	8.39	8.22	8.04	7.96	7.87	7.79	7.70	7.56	7.37	7.43	7.36	7.38	7.34	7.31	7.29	7.30	7.29	7.29	7.21	7.13	-1.1%	
U.S. Total	16.98	16.33	15.80	15.37	15.11	14.94	14.68	14.63	14.35	14.12	13.93	13.83	13.70	13.62	13.57	13.47	13.38	13.09	12.98	12.94	12.85	12.70	-1.4%	

1/ Coal Production Regions:

Appalachia: PA, OH, MD, WV, VA, TN, AL, MS, Eastern KY.

Interior: Western KY, IL, IN, IA, MO, KS, OK, AR, TX, LA.

Northern Great Plains: ND, MT, WY.

Other West and Non-Contiguous: CO, UT, AZ, NM, WA, AK.

2/ Includes waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal distribution tables. The totals for this table include this waste coal tonnage.

N/A = Not applicable

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 89. Coal Production by Region and Type (1 of 2)**  
 (Million Short Tons per Year)

Supply Regions and Coal Types	1999-																				2020		
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Northern Appalachia	161.84	157.64	158.78	162.34	160.65	157.45	154.83	158.31	160.90	162.80	162.95	158.64	158.15	158.80	160.89	160.84	159.36	148.90	147.29	147.30	147.03	145.97	-0.5%
Medium Sulfur (Premium) 1/	6.05	6.11	6.16	6.18	6.05	5.90	5.78	5.66	5.55	5.49	5.44	5.38	5.33	5.28	5.24	5.19	4.95	4.66	4.48	4.23	4.02	3.82	-2.2%
Low Sulfur (Bituminous) 2/	2.46	2.66	2.76	1.99	2.33	2.75	2.76	2.58	2.50	2.44	2.37	2.38	2.33	2.13	1.94	1.83	1.71	1.80	1.77	1.68	1.52	1.40	-2.6%
Medium Sulfur (Bituminous) 2/	80.97	83.44	84.25	88.92	93.12	92.33	92.83	93.79	94.72	97.60	98.42	94.68	95.06	96.23	98.59	99.36	98.79	90.61	90.19	90.94	90.74	89.33	0.5%
High Sulfur (Bituminous)	62.18	54.13	53.19	51.70	45.61	42.93	39.91	42.73	44.59	43.72	43.17	42.65	41.87	41.61	41.57	40.91	40.36	38.28	37.30	36.90	37.19	37.87	-2.3%
High Sulfur (Gob) 3/	10.17	11.30	12.43	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55	1.4%
Central Appalachia	255.26	247.52	240.51	240.49	243.23	243.52	243.40	241.25	235.59	233.39	231.32	231.89	232.75	228.89	226.40	227.64	227.43	230.19	230.67	230.51	231.01	229.71	-0.5%
Medium Sulfur (Premium) 1/	48.07	49.30	50.72	50.08	49.46	48.71	48.28	47.87	47.47	47.36	47.26	47.17	47.09	47.02	46.94	46.87	45.12	45.07	44.59	44.74	44.85	44.93	-0.3%
Low Sulfur (Bituminous)	64.76	64.52	62.37	61.79	61.78	61.85	61.84	61.53	59.84	57.83	56.40	58.17	58.47	56.79	55.16	55.11	55.16	59.60	60.57	60.41	61.05	60.01	-0.4%
Medium Sulfur (Bituminous)	142.43	133.71	127.43	128.62	131.99	132.96	133.28	131.85	128.28	128.20	127.65	126.55	127.19	125.08	124.31	125.66	127.15	125.52	125.51	125.36	125.11	124.76	-0.6%
Southern Appalachia	20.20	19.56	20.58	20.83	20.03	19.83	19.70	19.43	19.04	18.92	18.64	18.35	18.18	18.23	17.85	17.64	17.34	17.23	17.07	16.83	16.59	16.34	-1.0%
Low Sulfur (Premium) 1/	4.70	4.79	4.99	4.92	4.86	4.78	4.74	4.71	4.69	4.68	4.63	4.43	4.20	4.20	3.99	3.84	3.56	3.43	3.37	3.27	3.21	3.15	-1.9%
Low Sulfur (Bituminous)	5.40	5.21	5.30	5.51	5.82	5.85	5.88	5.83	5.71	5.55	5.36	5.54	5.53	5.42	5.30	5.29	5.28	5.56	5.55	5.51	5.43	5.37	0.0%
Medium Sulfur (Bituminous)	9.80	8.57	8.37	7.62	6.34	6.19	6.06	5.87	5.63	5.68	5.63	5.37	5.44	5.60	5.54	5.50	5.49	5.23	5.13	5.04	4.94	4.80	-3.3%
Medium Sulfur (Lignite)	0.30	0.99	1.92	2.77	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	11.6%
Eastern Interior	108.58	106.09	107.70	110.96	115.49	119.01	120.38	128.72	130.37	130.11	131.62	128.52	127.82	128.47	129.48	128.64	130.29	120.89	120.22	120.20	119.75	119.78	0.5%
Medium Sulfur (Bituminous)	28.84	29.34	30.70	32.72	35.12	35.14	35.09	34.64	33.47	34.70	35.78	33.25	33.66	33.76	34.49	35.79	36.77	29.59	29.00	28.84	28.75	28.27	-0.1%
High Sulfur (Bituminous)	79.74	76.75	77.00	78.24	80.37	83.88	85.29	94.07	96.90	95.42	95.83	95.27	94.16	94.71	94.98	92.84	93.52	91.30	91.23	91.36	91.00	91.51	0.7%
Western Interior High Sulfur (Bitumino)	2.43	2.35	2.34	2.31	2.35	2.35	2.37	2.37	2.38	2.30	2.31	2.32	2.31	2.31	2.32	2.29	2.28	2.28	2.29	2.30	2.30	2.31	-0.2%
Gulf	55.23	53.85	52.20	49.31	46.86	46.05	45.42	44.90	44.47	44.14	41.72	40.56	38.46	38.32	38.22	37.36	36.92	36.88	36.85	36.47	31.25	30.19	-2.8%
Medium Sulfur (Lignite)	27.75	27.75	25.82	23.91	22.34	20.06	20.06	18.80	16.22	15.73	14.67	14.12	13.37	13.21	12.93	12.79	12.36	12.76	12.80	12.59	10.61	9.94	-4.8%
High Sulfur (Lignite)	27.49	26.10	26.37	25.40	24.53	25.98	25.35	26.10	28.25	28.41	27.06	26.44	25.09	25.12	25.29	24.57	24.55	24.11	24.04	23.89	20.64	20.25	-1.4%
Dakota Medium Sulfur (Lignite)	29.25	29.64	29.81	29.92	30.13	30.34	30.59	30.35	30.51	30.64	31.07	30.82	30.93	31.07	31.16	31.31	31.44	37.73	37.56	37.20	36.93	32.21	0.5%
Powder/Green River	375.20	399.65	424.69	457.70	470.65	477.03	492.78	492.96	519.42	528.61	533.48	537.80	545.25	550.19	555.62	560.23	564.30	582.98	594.86	598.44	611.11	629.64	2.5%
Low Sulfur (Bituminous)	1.16	1.12	0.10	0.10	0.10	0.10	0.10	0.25	0.37	0.41	0.39	0.36	0.32	0.28	0.25	0.22	0.20	0.18	0.16	0.14	0.12	0.11	-10.6%
Low Sulfur (Sub-Bituminous)	338.66	358.85	385.17	414.10	426.72	432.56	444.71	437.61	459.35	467.41	474.55	480.61	487.67	492.60	500.07	504.05	507.72	526.35	538.78	542.00	550.90	568.67	2.5%
Medium Sulfur (Sub-Bituminous)	35.38	39.67	39.43	43.50	43.83	44.37	47.97	55.11	59.70	60.80	58.54	56.84	57.26	57.31	55.30	55.95	56.39	56.45	55.91	56.31	60.09	60.86	2.6%
Rocky Mountain	53.40	52.70	57.58	64.83	66.95	71.58	74.11	73.14	76.54	76.08	73.34	82.70	82.50	84.64	85.10	85.42	84.45	86.02	86.14	85.28	84.75	84.95	2.2%
Low Sulfur (Bituminous)	45.03	44.00	49.62	57.45	60.33	65.61	68.44	67.57	71.13	71.03	68.55	77.28	77.27	79.28	79.76	80.11	79.33	80.69	80.83	80.05	79.59	79.81	2.8%
Low Sulfur (Sub-Bituminous)	8.37	8.70	7.96	7.38	6.62	5.98	5.66	5.57	5.41	5.05	4.79	5.42	5.23	5.36	5.34	5.32	5.12	5.33	5.31	5.23	5.16	5.15	-2.3%

**Table 89. Coal Production by Region and Type (2 of 2)**  
(Million Short Tons per Year)

Supply Regions and Coal Types	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	1999-
Arizona/New Mexico	38.95	36.64	36.74	36.76	36.78	36.78	37.00	36.95	36.90	36.81	36.23	35.64	35.43	35.28	35.06	34.92	34.75	34.60	34.43	34.83	34.65	34.48	-0.6%	
Low Sulfur (Bituminous)	18.98	16.79	16.77	16.79	16.78	16.76	16.76	16.71	16.65	16.55	16.48	16.40	16.34	16.35	16.28	16.29	16.28	16.27	16.25	16.23	16.20	16.16	-0.8%	
Medium Sulfur (Sub-Bituminous)	19.97	19.85	19.97	19.97	20.00	20.01	20.25	20.25	20.25	20.25	19.74	19.24	19.08	18.93	18.78	18.63	18.47	18.33	18.19	18.60	18.45	18.31	-0.4%	
Washington/Alaska																								
Medium Sulfur (Sub-Bituminous)	4.98	4.96	5.06	5.15	5.25	5.36	5.38	5.40	5.42	5.44	5.46	5.48	5.50	5.51	5.52	5.53	5.54	5.55	5.53	5.50	5.47	5.45	0.4%	
Subtotals: All Regions																								
Premium Metallurgical 1/	58.82	60.20	61.86	61.18	60.37	59.39	58.80	58.24	57.71	57.54	57.33	56.99	56.62	56.50	56.17	55.89	53.63	53.16	52.43	52.24	52.09	51.90	-0.6%	
Bituminous	544.19	522.59	520.18	533.77	542.03	548.68	550.61	559.81	562.16	561.42	558.37	560.21	559.95	559.56	560.50	561.22	562.31	546.91	545.79	544.75	543.94	541.72	0.0%	
Sub-Bituminous	407.36	432.04	457.58	490.10	502.43	508.28	523.97	523.94	550.13	558.96	563.08	567.58	574.74	579.71	585.01	589.48	593.24	612.01	623.72	627.63	640.07	658.43	2.3%	
Lignite	94.96	95.78	96.36	95.55	93.55	92.95	92.57	91.82	91.55	91.34	89.35	87.94	85.95	85.95	85.94	85.24	84.92	91.17	90.97	90.23	84.74	78.96	-0.9%	
Low Sulfur	489.52	506.64	535.02	570.02	585.32	596.22	610.90	602.36	625.64	630.95	633.54	650.58	657.36	662.41	668.10	672.05	674.35	699.21	712.60	714.51	723.17	739.84	2.0%	
Medium Sulfur	433.79	433.32	429.63	439.37	446.66	444.39	448.59	452.61	450.24	454.91	452.67	441.90	442.93	442.00	441.81	445.61	445.50	434.52	431.91	432.35	432.99	425.70	-0.1%	
High Sulfur	182.01	170.64	171.33	171.20	166.40	168.69	166.47	178.83	185.67	183.39	181.92	180.22	176.98	177.30	177.71	174.16	174.25	169.52	168.41	167.99	164.68	165.48	-0.5%	
Underground	379.92	374.44	381.47	395.97	401.63	408.06	411.50	415.86	418.99	420.30	417.93	420.40	421.69	422.96	425.42	426.09	425.31	412.87	412.18	411.95	412.51	412.79	0.4%	
Surface	725.40	736.17	754.51	784.63	796.75	801.24	814.46	817.94	842.57	848.95	850.21	852.31	855.58	858.75	862.20	865.74	868.79	890.38	900.74	902.90	908.33	918.23	1.1%	
U.S. Total	1105.32	1110.61	1135.98	1180.60	1198.38	1209.30	1225.95	1233.80	1261.55	1269.25	1268.14	1272.71	1277.27	1281.71	1287.62	1291.83	1294.10	1303.25	1312.92	1314.85	1320.84	1331.02	0.9%	

1/ "Premium" coal is used to make metallurgical coke.

2/ Includes Pennsylvania anthracite.

3/ Waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal production tables. The totals for this table include this waste coal tonnage.

Northern Appalachia: PA, MD, OH, Northern WV (PA anthracite is included under low and medium sulfur bituminous).

Central Appalachia: Southern WV, VA, Eastern KY

Southern Appalachia: AL, TN, MS.

Eastern Interior: IL, IN, Western KY.

Western Interior (Bituminous Only): IA, MO, KS, OK, AR, TX.

Gulf (Lignite Only): TX, LA, AR.

Dakota: ND, Eastern MT (Lignite Only).

Powder/Green River: WY, MT (Sub-Bituminous and Bituminous)

Rocky Mountains: CO, UT.

Sulfur Definitions:

Low Sulfur: 0 - 0.60 pounds of sulfur per million Btu.

Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million Btu.

High Sulfur: Over 1.67 pounds of sulfur per million Btu.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 90. Coal Prices by Region and Type (1 of 2)  
(1999 Dollars per Short Ton)**

Supply Regions and Coal Types																					1999-		
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Northern Appalachia	25.04	24.52	24.20	23.92	23.53	23.29	22.97	22.80	22.69	22.55	22.38	22.11	22.02	21.93	22.03	21.93	21.82	21.22	21.12	21.10	21.07	21.03	-0.8%
Medium Sulfur (Premium) 1/	38.41	38.36	38.35	38.10	37.72	37.34	36.97	36.97	36.78	36.60	36.23	36.41	36.05	35.87	36.05	36.01	35.65	35.46	35.27	35.09	34.91	34.74	-0.5%
Low Sulfur (Bituminous) 2/	38.30	39.03	39.09	37.15	38.29	38.86	38.51	38.13	38.10	37.94	37.60	37.80	37.47	37.21	36.92	36.60	36.36	36.87	36.52	36.24	36.13	35.84	-0.3%
Medium Sulfur (Bituminous) 2/	24.63	24.62	24.25	24.37	24.30	24.08	23.81	23.50	23.31	23.24	23.10	22.71	22.65	22.60	22.77	22.75	22.70	21.93	21.83	21.84	21.87	21.87	-0.6%
High Sulfur (Bituminous)	26.00	24.70	24.45	23.84	22.48	21.98	21.41	21.70	21.86	21.54	21.32	21.20	21.08	20.98	20.98	20.69	20.51	20.17	20.11	20.12	20.07	20.11	-1.2%
High Sulfur (Gob) 3/	11.27	12.00	12.54	12.90	12.90	12.78	12.65	12.52	12.46	12.40	12.28	12.34	12.34	12.28	12.34	12.34	12.40	12.47	12.47	12.53	12.59	12.66	0.6%
Central Appalachia	26.13	25.86	25.36	25.00	24.76	24.67	24.52	24.22	24.07	23.80	23.65	23.75	23.64	23.56	23.55	23.45	23.30	23.53	23.42	23.37	23.43	23.38	-0.5%
Medium Sulfur (Premium) 1/	27.03	27.43	27.43	26.74	26.48	26.21	25.95	25.69	25.57	25.44	25.44	25.31	25.31	25.18	25.31	25.31	24.91	24.88	24.84	24.83	24.82	24.81	-0.4%
Low Sulfur (Bituminous)	27.12	26.98	26.45	26.05	25.74	25.74	25.62	25.36	25.24	24.81	24.59	24.97	24.81	24.70	24.56	24.39	24.29	25.04	24.87	24.76	24.83	24.73	-0.4%
Medium Sulfur (Bituminous)	25.37	24.74	24.00	23.81	23.65	23.61	23.49	23.16	22.97	22.75	22.58	22.61	22.49	22.43	22.44	22.35	22.30	22.33	22.21	22.17	22.25	22.21	-0.6%
Southern Appalachia	33.61	32.45	31.56	30.45	29.72	29.50	29.44	29.20	29.02	28.79	28.51	28.38	28.01	28.01	27.66	27.41	26.97	26.99	26.81	26.64	26.46	26.31	-1.2%
Low Sulfur (Premium) 1/	40.66	41.26	41.26	40.64	40.64	40.24	40.23	40.23	40.03	39.83	39.62	39.01	38.34	38.33	37.71	37.27	36.38	36.19	35.98	35.80	35.61	35.42	-0.7%
Low Sulfur (Bituminous)	30.80	30.62	30.67	30.85	31.17	31.21	31.23	30.94	30.78	30.28	29.78	30.32	30.09	29.92	29.70	29.46	29.29	30.01	29.77	29.58	29.58	29.40	-0.2%
Medium Sulfur (Bituminous)	32.39	30.78	30.17	28.82	26.49	26.36	26.20	25.75	25.45	25.39	25.24	24.90	24.90	25.28	25.13	25.15	25.03	24.43	24.30	24.16	23.83	23.69	-1.5%
Medium Sulfur (Lignite)	13.70	13.99	14.97	16.09	16.09	15.61	15.46	15.30	15.23	15.30	15.30	15.38	15.38	15.30	15.38	15.38	15.30	15.38	15.38	15.46	15.38	15.46	0.6%
Eastern Interior	21.50	21.11	20.94	20.81	20.85	20.79	20.57	20.92	20.81	20.61	20.45	20.21	20.02	19.93	19.91	19.63	19.50	18.83	18.75	18.68	18.44	18.33	-0.8%
Medium Sulfur (Bituminous)	21.89	21.80	21.89	22.01	22.11	21.97	21.73	21.33	21.07	21.05	21.08	20.59	20.50	20.47	20.60	20.56	20.55	19.08	19.01	18.96	18.78	18.71	-0.7%
High Sulfur (Bituminous)	21.36	20.85	20.56	20.31	20.31	20.29	20.09	20.76	20.72	20.46	20.21	20.07	19.84	19.74	19.65	19.27	19.09	18.75	18.67	18.59	18.33	18.22	-0.8%
Western Interior High Sulfur (Bitumino)	24.76	24.63	24.39	24.02	24.02	24.02	24.26	24.26	24.38	24.02	24.02	24.14	23.90	24.02	23.90	23.66	23.54	23.66	23.90	24.02	24.14	24.26	-0.1%
Gulf	13.01	13.00	12.65	12.24	11.97	11.76	11.71	11.62	11.51	11.49	11.24	11.10	10.82	10.87	10.84	10.74	10.70	10.69	10.68	10.71	10.12	10.02	-1.2%
Medium Sulfur (Lignite)	14.60	14.67	14.09	13.61	13.33	12.81	12.81	12.55	12.03	11.99	11.72	11.63	11.34	11.39	11.35	11.22	11.18	11.25	11.22	11.24	10.65	10.55	-1.5%
High Sulfur (Lignite)	11.40	11.23	11.23	10.95	10.73	10.95	10.84	10.95	11.21	11.21	10.97	10.81	10.54	10.60	10.59	10.48	10.45	10.40	10.40	10.43	9.85	9.76	-0.7%
Dakota Medium Sulfur (Lignite)	7.94	7.82	7.66	7.47	7.40	7.33	7.26	7.22	7.19	7.15	7.12	7.01	7.01	6.98	6.95	6.95	6.91	7.48	7.48	7.45	7.39	6.89	-0.7%
Powder/Green River	5.71	5.61	5.44	5.34	5.19	5.05	4.98	4.91	4.90	4.83	4.73	4.65	4.65	4.67	4.67	4.67	4.70	4.75	4.80	4.82	4.86	4.89	-0.7%
Low Sulfur (Bituminous)	18.69	22.43	22.05	21.77	21.44	21.17	20.99	20.71	20.58	20.33	20.05	19.81	19.62	19.47	19.31	19.12	19.00	18.89	18.78	18.61	18.44	18.28	-0.1%
Low Sulfur (Sub-Bituminous)	5.48	5.35	5.24	5.12	4.97	4.82	4.73	4.59	4.57	4.50	4.41	4.35	4.35	4.37	4.40	4.40	4.42	4.49	4.55	4.57	4.60	4.64	-0.8%
Medium Sulfur (Sub-Bituminous)	7.42	7.51	7.33	7.36	7.29	7.22	7.29	7.37	7.40	7.29	7.22	7.12	7.12	7.15	7.12	7.12	7.16	7.12	7.12	7.16	7.27	7.23	-0.1%
Rocky Mountain	17.49	16.86	16.89	17.10	17.09	17.10	17.05	16.89	16.84	16.48	16.29	16.87	16.81	16.78	16.68	16.59	16.56	16.57	16.50	16.38	16.25	16.14	-0.4%
Low Sulfur (Bituminous)	17.38	16.57	16.82	17.17	17.25	17.31	17.27	17.11	17.06	16.68	16.49	17.07	17.00	16.97	16.87	16.78	16.74	16.67	16.55	16.41	16.30	16.30	-0.3%
Low Sulfur (Sub-Bituminous)	18.06	18.33	17.32	16.56	15.65	14.80	14.35	14.21	13.96	13.60	13.42	14.04	14.00	13.98	13.88	13.80	13.77	13.93	13.88	13.78	13.68	13.59	-1.3%
Arizona/New Mexico	21.24	20.58	20.47	20.27	20.17	20.17	20.27	20.47	20.37	20.26	20.17	19.97	19.87	19.78	19.68	19.68	19.69	19.69	19.70	19.78	19.68	19.69	-0.4%
Low Sulfur (Bituminous)	22.80	21.66	21.44	21.34	21.12	21.12	21.12	21.34	21.23	21.12	21.12	21.02	21.02	20.91	20.81	20.81	20.91	21.02	21.02	20.91	20.81	20.91	-0.4%
Medium Sulfur (Sub-Bituminous)	19.76	19.66	19.66	19.37	19.37	19.37	19.56	19.76	19.66	19.56	19.37	19.08	18.89	18.79	18.70	18.70	18.61	18.52	18.52	18.79	18.70	18.60	-0.3%



**Table 90. Coal Prices by Region and Type (2 of 2)**  
**(1999 Dollars per Short Ton)**

Supply Regions and Coal Types																					1999-			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Washington/Alaska																								
Medium Sulfur (Sub-Bituminous)	24.53	24.66	24.66	24.78	24.78	24.78	24.78	24.78	24.65	24.78	24.78	24.65	24.65	24.77	24.65	24.65	24.77	24.65	24.65	24.53	24.65	24.53	24.53	0.0%
Average by Type: All Regions																								
Premium Metallurgical 1/	29.29	29.64	29.63	29.01	28.74	28.45	28.19	27.97	27.82	27.67	27.61	27.42	27.29	27.16	27.19	27.12	26.66	26.54	26.45	26.35	26.26	26.19	26.19	-0.5%
Bituminous	24.24	23.69	23.23	22.94	22.69	22.55	22.34	22.23	22.06	21.81	21.65	21.57	21.45	21.35	21.32	21.18	21.10	20.92	20.83	20.78	20.73	20.65	20.65	-0.8%
Sub-Bituminous	6.84	6.69	6.48	6.28	6.09	5.93	5.85	5.78	5.72	5.63	5.50	5.41	5.39	5.40	5.39	5.38	5.39	5.41	5.45	5.48	5.50	5.50	5.50	-1.0%
Lignite	11.26	11.29	11.14	10.95	10.77	10.58	10.50	10.42	10.33	10.30	10.10	10.00	9.85	9.84	9.83	9.76	9.73	9.78	9.78	9.80	9.51	9.40	9.40	-0.9%
Low Sulfur	11.14	10.66	10.24	9.90	9.70	9.63	9.47	9.35	9.14	8.87	8.63	8.79	8.71	8.65	8.53	8.46	8.41	8.55	8.53	8.47	8.43	8.31	8.31	-1.4%
Medium Sulfur	21.92	21.50	21.14	20.88	20.76	20.62	20.36	19.95	19.67	19.55	19.51	19.36	19.29	19.23	19.36	19.31	19.21	18.68	18.62	18.61	18.54	18.56	18.56	-0.8%
High Sulfur	20.92	20.06	19.80	19.45	18.94	18.73	18.45	18.98	18.99	18.73	18.56	18.45	18.29	18.22	18.17	17.88	17.74	17.45	17.38	17.35	17.27	17.25	17.25	-0.9%
U.S. Average	16.98	16.33	15.80	15.37	15.11	14.94	14.68	14.63	14.35	14.12	13.93	13.83	13.70	13.62	13.57	13.47	13.38	13.09	12.98	12.94	12.85	12.70	12.70	-1.4%

1/ "Premium" coal is used to make metallurgical coke.

2/ Includes Pennsylvania anthracite.

3/ Waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal tables. The averages for this table include this waste coal tonnage in the forecast years.

Northern Appalachia: PA, MD, OH, N.WV (PA, anthracite is included under low and medium sulfur bituminous).

Central Appalachia: S.WV, VA, E.KY

Southern Appalachia: AL, TN, MS.

Eastern Interior: IL, IN, W.KY.

Western Interior (Bituminous Only): IA, MO, KS, OK, AR, TX.

Gulf (Lignite Only): TX, LA, AR.

Dakota: ND, E.MT (Lignite Only).

Powder/Green River: WY, MT (Sub-Bituminous and Bituminous)

Rocky Mountains: CO, UT.

Sulfur Definitions:

Low Sulfur: 0 - 0.60 pounds of sulfur per million Btu.

Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million Btu.

High Sulfur: Over 1.67 pounds of sulfur per million Btu.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 91. World Steam Coal Flows By Importing Regions and Exporting Countries 1,2/ (1 of 2)**  
(Million Short Tons)

Import and Export Regions																					1999-		
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Steam Coal Exports to Europe 3/																							
Australia	12.3	9.9	10.0	10.1	10.2	10.3	10.4	10.4	10.4	10.3	10.3	10.2	9.6	8.1	5.9	3.8	3.7	3.6	3.4	4.0	6.7	6.6	-1.5%
United States	4.9	4.5	5.0	4.7	4.5	4.5	4.7	5.0	5.4	5.6	5.5	5.0	4.4	3.7	3.6	3.6	2.2	2.4	2.5	2.6	2.7	2.9	-3.5%
South Africa	49.3	51.1	50.8	51.2	51.3	51.3	53.6	52.6	51.7	50.9	50.2	49.6	48.2	47.9	48.9	49.8	47.9	47.6	47.3	46.9	46.7	46.7	0.1%
Former U.S.S.R.	12.1	11.0	11.1	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	0.9%
Poland	14.0	13.2	12.8	12.4	12.0	11.6	11.2	10.6	10.0	9.3	8.7	8.0	7.8	7.5	7.3	7.0	6.7	6.5	6.2	6.0	5.8	5.5	-4.3%
Canada	0.1	5.3	5.5	5.8	6.0	6.3	4.7	4.8	4.9	4.9	5.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	-0.5%
China	3.4	0.0	0.0	0.3	0.7	1.1	1.5	1.4	1.4	1.3	1.3	1.2	1.6	1.9	2.2	2.5	2.8	2.9	3.0	3.1	3.3	3.4	N/A
South America	25.8	29.4	30.4	31.4	32.4	33.2	33.5	34.0	34.5	34.9	35.5	36.5	38.1	39.6	41.2	42.8	43.7	43.5	43.2	42.2	39.1	38.8	1.3%
Indonesia 4/	10.7	11.2	10.8	10.5	10.1	9.7	9.4	9.3	9.2	9.1	9.1	9.0	8.9	8.7	7.4	6.0	7.4	7.4	7.3	7.3	7.1	6.8	-3.4%
Total	132.6	135.6	136.6	137.5	138.5	139.5	140.6	139.8	139.2	138.4	137.5	136.7	135.7	134.7	133.6	132.6	131.7	130.9	130.1	129.4	128.6	127.8	-0.2%
Steam Coal Exports to Asia																							
Australia	76.2	92.1	95.4	98.2	100.6	103.0	108.2	110.7	113.3	115.9	118.7	121.5	120.0	119.6	119.3	118.8	121.2	122.8	124.4	126.1	127.7	129.3	2.4%
United States	4.5	4.7	5.1	5.7	6.4	7.2	7.3	7.4	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.4	8.5	8.6	3.1%
South Africa	19.0	18.4	18.6	19.4	20.6	21.7	20.6	22.4	24.2	25.8	27.4	28.9	31.4	32.9	33.1	33.3	36.4	36.8	37.2	37.7	37.9	38.1	3.1%
Former U.S.S.R.	4.9	2.6	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.9	1.9%
Poland	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	4.5	1.9	1.9	2.0	2.1	2.2	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	1.6	1.6	1.6	1.6	1.6	1.6	0.2%
China	31.5	45.6	48.2	50.5	52.7	55.0	57.2	58.8	60.3	61.9	63.5	65.1	65.7	66.3	66.8	67.4	68.0	68.5	69.1	69.6	70.2	70.7	2.7%
South America	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	40.3	42.6	45.5	48.3	51.2	54.0	56.8	58.4	59.9	61.5	63.0	64.5	65.9	67.3	69.9	72.5	72.3	73.2	74.0	74.9	75.9	77.0	3.8%
Total	180.9	208.0	217.4	226.9	236.4	245.8	255.2	262.9	270.7	278.4	286.1	293.8	297.2	300.6	304.1	307.5	310.9	314.6	318.2	321.8	325.5	329.1	2.9%
Steam Coal Export to America																							
Australia	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	6.0%
United States	17.1	16.5	15.5	15.2	14.9	14.5	13.7	12.8	11.6	10.7	10.0	9.7	9.4	9.1	9.2	9.4	9.5	9.7	9.8	9.9	10.1	10.2	-2.0%
South Africa	1.7	3.1	3.3	3.4	3.5	3.7	3.8	4.0	4.1	4.3	4.4	4.6	4.5	4.5	4.5	4.4	4.4	4.4	4.3	4.3	4.3	4.2	1.5%
Former U.S.S.R.	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Poland	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	0.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
China	0.4	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	9.3	18.5	20.5	22.5	24.5	26.7	29.5	30.6	31.8	33.0	34.1	34.7	35.0	35.2	35.4	35.7	35.9	36.1	36.3	36.5	36.7	36.9	4.4%
Indonesia 4/	3.2	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	33.6	38.8	39.9	41.8	43.6	45.6	47.7	48.1	48.2	48.7	49.2	49.7	49.6	49.6	49.9	50.3	50.6	50.9	51.2	51.6	51.9	52.2	2.1%

**Table 91. World Steam Coal Flows By Importing Regions and Exporting Countries 1,2/ (2 of 2)  
(Million Short Tons)**

Import and Export Regions	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Total Steam Coal Exports 5/																							
Australia	87.4	102.7	106.1	108.9	111.5	114.0	119.3	121.8	124.4	127.0	129.7	132.4	130.4	128.5	126.0	123.5	125.7	127.2	128.7	130.9	135.3	136.8	2.2%
United States	26.5	25.7	25.5	25.5	25.8	26.2	25.6	25.1	24.5	23.8	23.1	22.4	21.6	20.8	20.9	21.0	19.9	20.3	20.6	21.0	21.3	21.7	-0.9%
South Africa	70.2	72.6	72.7	74.0	75.4	76.7	78.0	79.0	80.0	81.0	82.0	83.0	84.2	85.3	86.4	87.6	88.7	88.8	88.8	88.9	88.9	89.0	1.2%
Former U.S.S.R.	17.0	13.7	13.8	13.9	14.1	14.2	14.3	14.4	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	15.7	15.8	15.9	16.0	1.2%
Poland	14.0	13.2	12.8	12.4	12.0	11.6	11.2	10.6	10.0	9.3	8.7	8.0	7.8	7.5	7.3	7.0	6.7	6.5	6.2	6.0	5.8	5.5	-4.3%
Canada	5.4	7.2	7.5	7.8	8.2	8.5	7.1	7.3	7.6	7.8	8.1	8.4	8.6	8.7	8.9	9.1	6.6	6.6	6.6	6.6	6.6	6.6	-0.3%
China	33.7	45.6	48.2	50.8	53.4	56.0	58.6	60.2	61.7	63.3	64.8	66.4	67.2	68.1	69.0	69.9	70.8	71.4	72.1	72.8	73.4	74.1	2.9%
South America	38.7	47.8	50.9	53.9	56.9	59.9	62.9	64.6	66.3	67.9	69.6	71.2	73.0	74.8	76.6	78.4	79.6	79.6	79.5	78.7	75.8	75.7	2.6%
Indonesia 4/	57.2	53.8	56.3	58.8	61.3	63.7	66.2	67.7	69.1	70.6	72.1	73.5	74.8	76.0	77.2	78.5	79.7	80.5	81.4	82.2	83.0	83.8	2.5%
Total	350.1	382.4	393.9	406.2	418.5	430.9	443.5	450.8	458.1	465.5	472.8	480.2	482.5	484.9	487.6	490.4	493.3	496.4	499.6	502.8	506.0	509.1	1.8%

1/ Import Regions:

Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom

Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand

America: Argentina, Brazil, Canada, Chile, Mexico, United States

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and Northern Africa.

4/ In 1999, steam coal exports from Indonesia include an additional 7.2 million short tons of exports from other countries not included in the forecast period.

5/ In 1999, total world coal flows include a balancing item term used by the International Energy Agency to reconcile discrepancies between reported exports and imports. For 1999, the balancing item for steam coal amounted to 3.0 million short tons.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 data: International Energy Agency, Coal Information 2000 (Paris, France, August 2000); and Energy Information Administration, Quarterly Coal Report, DOE/EIA-0121(99/4Q) (Washington, DC, April 2000).

Projections: AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 92. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/ (1 of 2)**  
**(Million Short Tons)**

Import and Export Regions	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
<b>Metallurgical Coal Exports to Europe 3/</b>																							
Australia	23.3	22.4	20.7	24.5	29.6	31.3	31.8	31.7	31.6	31.5	31.8	32.2	32.3	32.6	33.4	35.9	36.1	36.0	35.9	35.9	35.8	35.8	2.9%
United States	19.4	17.9	20.1	19.7	19.3	18.9	18.9	19.0	19.0	19.0	19.0	18.9	18.6	18.5	18.2	18.0	15.8	15.5	15.3	15.3	15.3	15.2	-0.7%
South Africa	0.9	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.0	0.9	0.8	0.6	0.0	0.0	0.0	0.2	0.0	0.0	0.0	N/A
Former U.S.S.R.	2.6	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-0.7%
Poland	3.3	5.0	4.7	4.5	4.2	4.0	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.4	3.4	-2.3%
Canada	6.9	11.9	11.7	9.4	5.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	-5.0%
China	0.2	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	0.6	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	1.3	1.4	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	-3.0%
Total	58.5	61.9	61.7	62.0	62.3	62.6	62.9	62.7	62.6	62.5	62.4	62.3	62.2	62.0	61.9	61.7	61.9	61.8	61.6	61.4	61.2	61.0	0.1%
<b>Metallurgical Coal Exports to Asia 5/</b>																							
Australia	69.7	77.5	77.9	78.4	78.8	79.3	79.8	80.2	80.6	81.1	81.5	82.0	82.5	83.0	83.5	84.0	84.5	84.9	85.2	85.6	86.0	86.3	0.5%
United States	4.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.6%
South Africa	0.8	6.1	6.1	6.1	6.0	6.0	6.0	6.0	6.0	5.9	5.9	6.1	6.1	6.2	6.3	6.9	6.8	6.8	6.6	6.7	6.7	6.6	0.5%
Former U.S.S.R.	2.9	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Poland	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	20.1	20.5	20.5	20.0	20.0	20.1	20.1	20.1	20.2	20.2	20.2	20.1	20.1	20.0	20.0	19.4	19.5	19.6	19.9	19.8	19.9	19.9	0.2%
China	6.9	7.6	7.7	7.7	7.8	7.9	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.4	8.4	8.4	8.5	8.6	8.6	8.7	8.8	8.8	1.1%
South America	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	8.6	3.5	3.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	1.0%
Total	113.0	116.3	116.8	117.4	117.9	118.5	119.0	119.6	120.1	120.7	121.2	121.7	122.4	123.0	123.6	124.2	124.8	125.3	125.8	126.3	126.8	127.3	0.4%
<b>Metallurgical Coal Exports to America</b>																							
Australia	6.7	6.6	6.7	6.8	7.0	7.1	7.2	7.3	7.5	7.7	7.8	8.0	8.2	8.5	8.7	9.0	11.2	11.4	11.6	11.8	12.0	12.2	2.8%
United States	8.7	13.3	13.2	13.4	13.6	13.7	13.9	14.1	14.4	14.6	14.8	15.0	15.3	15.7	16.0	16.3	16.6	16.8	17.1	17.3	17.5	17.7	1.3%
South Africa	0.8	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Former U.S.S.R.	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Poland	0.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	2.8	1.3	1.5	1.7	1.9	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.2	3.3	1.5	1.5	1.5	1.5	1.5	1.5	1.7%
China	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	1.4	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	0.4	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	21.5	21.1	21.4	21.9	22.4	22.9	23.4	23.9	24.3	24.8	25.3	25.8	26.5	27.2	27.9	28.6	29.3	29.7	30.1	30.6	31.0	31.5	1.8%

**Table 92. World Metallurgical Coal Flows By Importing and Exporting Countries 1,2/ (2 of 2)**  
(Million Short Tons)

Import and Export Regions																					1999-			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Total Metallurgical Coal Exports 6/																								
Australia	102.0	106.5	105.3	109.7	115.4	117.7	118.7	119.2	119.8	120.3	120.8	121.7	122.9	123.7	124.8	126.3	131.5	132.3	132.8	133.3	133.8	134.3	134.3	1.2%
United States	32.2	32.2	34.4	34.2	34.0	33.8	34.1	34.3	34.6	34.9	35.1	35.2	35.2	35.5	35.6	35.7	33.9	33.8	33.8	34.0	34.2	34.4	34.4	0.3%
South Africa	2.9	7.5	7.5	7.4	7.4	7.3	7.3	7.2	7.2	7.1	7.1	7.1	7.0	7.0	6.9	6.9	6.8	6.8	6.7	6.7	6.7	6.7	6.6	-0.6%
Former U.S.S.R.	5.5	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-5.1%
Poland	3.9	5.0	4.7	4.5	4.2	4.0	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	-2.3%
Canada	31.9	33.7	33.7	31.1	27.2	26.7	26.9	27.0	27.2	27.3	27.4	27.4	27.4	27.5	27.5	27.1	25.2	25.3	25.6	25.6	25.6	25.6	25.7	-1.1%
China	7.2	7.6	7.7	7.7	7.8	7.9	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.4	8.4	8.4	8.5	8.6	8.6	8.7	8.8	8.8	8.8	1.1%
South America	1.8	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	11.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	N/A
<b>Total</b>	<b>198.3</b>	<b>199.3</b>	<b>200.0</b>	<b>201.3</b>	<b>202.6</b>	<b>204.0</b>	<b>205.3</b>	<b>206.2</b>	<b>207.1</b>	<b>208.0</b>	<b>208.9</b>	<b>209.8</b>	<b>211.0</b>	<b>212.2</b>	<b>213.3</b>	<b>214.5</b>	<b>216.0</b>	<b>216.8</b>	<b>217.6</b>	<b>218.3</b>	<b>219.1</b>	<b>219.8</b>	<b>219.8</b>	<b>0.5%</b>

1/ Import Regions:

Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom

Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand

America: Argentina, Brazil, Canada, Chile, Mexico, United States

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and Northern Africa.

4/ In 1999, metallurgical coal exports from Indonesia include an additional 1.4 million short tons of exports from other countries not included in for the forecast period.

5/ For 1999, includes 9.7 million short tons of coal for pulverized coal injection at blast furnaces shipped to Japanese steelmakers.

6/ In 1999, total world coal flows include a balancing item term used by the International Energy Agency to reconcile discrepancies between reported exports and imports. For 1999, the balancing item for metallurgical coal amounted to 5.4 million short tons.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 data: International Energy Agency, Coal Information 2000 (Paris, France, August 2000); and Energy Information Administration, Quarterly Coal Report, DOE/EIA-0121(99/4Q) (Washington, DC, April 2000).

Projections: AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 93. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/ (1 of 2)**  
(Million Short Tons)

Import and Export Regions	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
<b>Total Coal Exports to Europe 3/</b>																							
Australia	35.6	32.3	30.7	34.6	39.8	41.6	42.2	42.1	42.0	41.9	41.7	42.0	41.8	40.4	38.5	37.2	39.6	39.6	39.4	40.0	42.6	42.4	1.9%
United States	24.3	22.3	25.0	24.3	23.8	23.4	23.6	23.9	24.4	24.6	24.5	23.8	22.9	22.2	21.9	21.6	18.1	17.9	17.7	17.9	18.0	18.1	-1.3%
South Africa	50.2	52.5	52.2	52.6	52.6	52.6	54.9	53.9	52.9	52.1	51.4	50.5	49.1	48.7	49.5	49.8	47.9	47.6	47.4	47.0	46.7	46.7	-0.1%
Former U.S.S.R.	14.7	12.8	12.9	13.0	13.1	13.2	13.2	13.3	13.4	13.5	13.6	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	0.7%
Poland	17.3	18.2	17.5	16.9	16.3	15.6	15.0	14.3	13.7	13.0	12.3	11.7	11.4	11.1	10.8	10.5	10.3	10.0	9.7	9.5	9.2	8.9	-3.6%
Canada	7.1	17.3	17.2	15.2	11.3	10.8	9.3	9.3	9.4	9.5	9.5	9.6	9.5	9.5	9.4	9.4	9.3	9.3	9.3	9.3	9.3	9.3	-3.1%
China	3.6	0.0	0.0	0.3	0.7	1.1	1.5	1.4	1.4	1.3	1.3	1.2	1.6	1.9	2.2	2.5	2.8	2.9	3.0	3.1	3.3	3.4	N/A
South America	26.3	29.4	30.4	31.4	32.4	33.2	33.5	34.0	34.5	34.9	35.5	36.5	38.1	39.6	41.2	42.8	43.7	43.5	43.2	42.2	39.1	38.8	1.3%
Indonesia 4/	12.0	12.6	12.3	11.4	11.0	10.6	10.3	10.2	10.1	10.0	10.0	9.9	9.8	9.6	8.3	6.9	8.3	8.2	8.2	8.2	8.0	7.7	-3.4%
<b>Total</b>	<b>191.1</b>	<b>197.5</b>	<b>198.3</b>	<b>199.6</b>	<b>200.9</b>	<b>202.1</b>	<b>203.5</b>	<b>202.5</b>	<b>201.8</b>	<b>200.8</b>	<b>199.9</b>	<b>198.9</b>	<b>197.8</b>	<b>196.7</b>	<b>195.5</b>	<b>194.3</b>	<b>193.6</b>	<b>192.7</b>	<b>191.7</b>	<b>190.8</b>	<b>189.8</b>	<b>188.9</b>	<b>-0.1%</b>
<b>Total Coal Exports to Asia</b>																							
Australia	145.8	169.6	173.4	176.6	179.5	182.3	188.0	190.9	193.9	197.0	200.2	203.4	202.5	202.6	202.8	202.9	205.7	207.7	209.7	211.7	213.6	215.6	1.6%
United States	8.6	5.8	6.2	6.8	7.5	8.3	8.4	8.6	8.7	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	2.8%
South Africa	19.7	24.5	24.7	25.5	26.6	27.7	26.6	28.4	30.2	31.8	33.3	35.0	37.5	39.1	39.4	40.2	43.2	43.6	43.8	44.3	44.6	44.7	2.6%
Former U.S.S.R.	7.7	2.6	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.9	-1.6%
Poland	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	24.6	22.4	22.5	22.1	22.2	22.3	22.4	22.7	22.9	23.1	23.3	23.4	23.5	23.7	23.9	23.5	21.1	21.2	21.4	21.4	21.4	21.5	0.2%
China	38.4	53.2	55.9	58.3	60.6	62.8	65.1	66.8	68.4	70.1	71.7	73.4	74.0	74.6	75.2	75.8	76.5	77.1	77.7	78.3	78.9	79.5	2.5%
South America	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	48.9	46.2	49.0	52.4	55.2	58.1	60.9	62.4	64.0	65.5	67.0	68.6	69.9	71.3	73.9	76.6	76.4	77.3	78.1	79.0	80.0	81.1	3.6%
<b>Total</b>	<b>293.8</b>	<b>324.3</b>	<b>334.3</b>	<b>344.3</b>	<b>354.3</b>	<b>364.3</b>	<b>374.2</b>	<b>382.5</b>	<b>390.8</b>	<b>399.0</b>	<b>407.3</b>	<b>415.5</b>	<b>419.6</b>	<b>423.6</b>	<b>427.7</b>	<b>431.7</b>	<b>435.8</b>	<b>439.9</b>	<b>444.0</b>	<b>448.2</b>	<b>452.3</b>	<b>456.4</b>	<b>2.0%</b>
<b>Total Coal Exports to America</b>																							
Australia	8.0	7.3	7.4	7.5	7.6	7.8	7.9	8.1	8.2	8.4	8.6	8.8	9.0	9.3	9.5	9.8	12.0	12.2	12.4	12.6	12.9	13.1	2.9%
United States	25.8	29.8	28.7	28.6	28.4	28.2	27.6	26.9	26.0	25.3	24.8	24.7	24.7	24.8	25.2	25.7	26.1	26.5	26.9	27.2	27.6	28.0	-0.2%
South Africa	2.4	3.1	3.3	3.4	3.5	3.7	3.8	4.0	4.1	4.3	4.4	4.6	4.5	4.5	4.5	4.4	4.4	4.4	4.3	4.3	4.3	4.2	1.5%
Former U.S.S.R.	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Poland	0.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	3.4	1.3	1.5	1.7	1.9	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.2	3.3	1.5	1.5	1.5	1.5	1.5	1.5	1.7%
China	0.4	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	10.7	18.5	20.5	22.5	24.5	26.7	29.5	30.6	31.8	33.0	34.1	34.7	35.0	35.2	35.4	35.7	35.9	36.1	36.3	36.5	36.7	36.9	4.4%
Indonesia 4/	3.6	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
<b>Total</b>	<b>55.1</b>	<b>59.9</b>	<b>61.3</b>	<b>63.6</b>	<b>66.0</b>	<b>68.4</b>	<b>71.0</b>	<b>71.9</b>	<b>72.6</b>	<b>73.5</b>	<b>74.5</b>	<b>75.5</b>	<b>76.1</b>	<b>76.7</b>	<b>77.8</b>	<b>78.8</b>	<b>79.9</b>	<b>80.6</b>	<b>81.4</b>	<b>82.1</b>	<b>82.9</b>	<b>83.7</b>	<b>2.0%</b>

**Table 93. World Total Coal Flows By Importing and Exporting Countries 1,2/ (2 of 2)  
(Million Short Tons)**

Import and Export Regions																					1999-			
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020	
Total Coal Exports 5/																								
Australia	189.4	209.2	211.4	218.7	226.9	231.7	238.1	241.1	244.2	247.3	250.5	254.2	253.3	252.2	250.8	249.8	257.2	259.5	261.5	264.3	269.1	271.1	1.7%	
United States	58.6	57.9	59.9	59.7	59.8	60.0	59.7	59.4	59.1	58.7	58.2	57.6	56.9	56.3	56.5	56.8	53.8	54.0	54.4	55.0	55.6	56.1	-0.2%	
South Africa	73.1	80.1	80.1	81.4	82.7	84.0	85.3	86.3	87.2	88.2	89.1	90.1	91.2	92.3	93.4	94.5	95.6	95.6	95.6	95.6	95.6	95.6	1.1%	
Former U.S.S.R.	22.5	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.2	16.3	16.4	16.5	16.6	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	0.1%	
Poland	18.0	18.2	17.5	16.9	16.3	15.6	15.0	14.3	13.7	13.0	12.3	11.7	11.4	11.1	10.8	10.5	10.3	10.0	9.7	9.5	9.2	8.9	-3.6%	
Canada	37.3	40.9	41.2	38.9	35.3	35.2	34.0	34.4	34.7	35.1	35.5	35.7	36.0	36.2	36.5	36.2	31.9	32.0	32.2	32.2	32.2	32.3	-0.9%	
China	40.9	53.2	55.9	58.6	61.2	63.9	66.6	68.2	69.8	71.4	73.0	74.6	75.6	76.5	77.4	78.3	79.3	80.0	80.7	81.4	82.2	82.9	2.7%	
South America	40.5	47.8	50.9	53.9	56.9	59.9	62.9	64.6	66.3	67.9	69.6	71.2	73.0	74.8	76.6	78.4	79.6	79.6	79.5	78.7	75.8	75.7	2.6%	
Indonesia 4/	68.3	58.8	61.3	63.7	66.2	68.7	71.2	72.6	74.1	75.5	77.0	78.5	79.7	81.0	82.2	83.4	84.7	85.5	86.3	87.1	88.0	88.8	2.3%	
Total	548.4	581.7	593.9	607.5	621.2	634.9	648.7	656.9	665.2	673.4	681.7	690.0	693.5	697.0	701.0	704.9	709.3	713.2	717.2	721.1	725.0	729.0	1.4%	

1/ Import Regions:

Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom

Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand

America: Argentina, Brazil, Canada, Chile, Mexico, United States

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and Northern Africa.

4/ In 1999, exports from Indonesia include an additional 8.6 million short tons of exports from other countries not included in the forecast period.

5/ In 1999, total world coal flows include a balancing item term used by the International Energy Agency to reconcile discrepancies between reported exports and imports. For 1999, the balancing item amounted to 8.4 million short tons.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1999 data: International Energy Agency, Coal Information 2000 (Paris, France, August 2000); and Energy Information Administration, Quarterly Coal Report, DOE/EIA-0121(99/4Q) (Washington, DC, April 2000).

Projections: AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 94. Indicators of Macroeconomic Activity (1 of 1)**

	1999-2020																				1999-2020		
Indicator	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Real Output, National (billion 1992 dollars)																							
Total Industrial	4721.8	4842.8	4908.4	5083.7	5216.5	5315.7	5469.3	5641.6	5798.0	5950.9	6092.1	6251.2	6394.5	6539.9	6708.4	6890.9	7093.0	7280.3	7471.1	7663.7	7875.6	8096.3	2.6%
Total Manufacturing	3749.5	3849.6	3908.0	4060.1	4177.4	4262.3	4399.1	4550.6	4686.9	4822.1	4947.6	5088.8	5215.7	5346.1	5496.4	5654.3	5828.2	5989.9	6159.8	6332.9	6525.7	6726.1	2.8%
Coal Mining	30.4	30.3	30.9	32.0	32.5	32.8	33.2	33.5	34.1	34.3	34.3	34.4	34.5	34.6	34.7	34.8	34.8	34.8	35.0	35.0	35.2	35.4	0.7%
Oil and Gas Extraction	104.0	104.4	105.5	109.0	111.0	110.9	110.7	110.6	110.8	112.1	113.6	116.0	117.1	119.3	121.8	124.0	127.0	129.7	132.1	134.4	135.5	137.1	1.3%
Refining	154.8	155.7	158.0	159.8	161.7	163.4	165.3	166.3	167.8	170.4	172.1	173.7	174.7	175.8	177.2	178.3	179.7	180.7	181.9	182.6	184.1	185.2	0.9%
Paper	150.5	154.1	157.8	161.6	164.8	167.5	170.6	173.9	177.2	180.3	183.1	186.1	188.4	191.0	194.1	196.5	199.3	201.8	204.1	206.1	208.1	210.3	1.6%
Chemicals	347.1	358.0	367.4	378.4	389.0	397.0	406.0	415.5	425.6	434.9	444.2	454.4	462.9	472.9	483.9	495.4	507.7	520.4	534.0	547.6	562.3	577.9	2.5%
Stone, Clay, and Glass	77.1	78.2	78.3	79.2	80.2	80.9	81.9	83.2	84.4	85.5	86.1	86.9	87.5	88.2	89.0	90.2	91.3	92.3	93.4	94.2	95.0	96.1	1.1%
Primary Metals	163.9	166.8	169.3	173.1	175.4	176.9	179.5	181.8	184.3	185.9	187.4	189.8	191.0	193.5	195.3	197.5	198.9	200.0	201.5	202.6	204.1	205.6	1.1%
Basic Steel	67.8	69.9	71.4	73.5	74.6	75.4	76.9	77.7	79.0	79.6	80.1	81.4	81.8	83.3	83.9	84.9	85.1	85.7	86.4	86.7	87.4	88.3	1.3%
Primary Aluminum	36.0	36.1	36.3	36.7	37.0	37.3	37.4	37.7	37.9	38.1	38.3	38.4	38.7	38.9	39.1	39.4	39.6	39.7	39.8	39.9	39.9	40.1	0.5%
Fabricated Metals	211.5	217.9	220.2	227.7	234.6	237.1	242.6	248.7	254.2	258.2	261.7	265.6	268.8	271.8	276.3	282.0	288.3	293.5	298.3	303.0	308.9	315.1	1.9%
Industrial Machinery	389.0	411.3	422.1	450.0	466.6	482.9	509.7	541.6	566.9	594.8	618.3	646.7	675.1	702.4	731.0	761.8	796.0	829.8	860.3	893.4	927.6	963.2	4.4%
Electrical Machinery	421.6	436.7	456.3	499.0	530.2	559.5	597.6	644.3	684.3	727.1	769.4	813.1	851.3	895.5	937.6	979.4	1030.0	1077.5	1138.2	1203.5	1279.3	1349.7	5.7%
Transportation Equipment	457.8	469.7	460.4	479.3	497.0	499.4	520.1	538.4	556.7	572.8	587.7	605.4	621.3	635.3	659.3	683.1	706.4	724.0	742.0	759.7	780.2	806.2	2.7%
Real Disposable Income by Census Division (billion 1996 dollars)																							
New England	380	390	407	418	428	438	449	461	471	482	494	506	517	530	543	557	571	585	598	610	622	634	2.5%
Middle Atlantic	1023	1046	1091	1118	1141	1164	1193	1221	1247	1274	1303	1332	1360	1390	1423	1457	1491	1525	1557	1588	1618	1648	2.3%
East North Central	1034	1058	1103	1132	1157	1184	1216	1248	1278	1309	1340	1372	1402	1434	1469	1506	1544	1581	1616	1649	1681	1714	2.4%
West North Central	409	419	439	452	463	476	490	504	518	533	548	563	578	594	610	628	645	663	679	695	710	726	2.8%
South Atlantic	1126	1163	1224	1267	1306	1347	1396	1445	1494	1545	1598	1653	1707	1765	1828	1894	1962	2031	2099	2166	2232	2301	3.5%
East South Central	320	329	345	355	364	373	384	396	407	418	430	442	454	467	480	495	510	525	540	554	569	583	2.9%
West South Central	642	664	699	723	745	768	794	822	848	876	905	934	964	995	1028	1063	1099	1136	1172	1207	1242	1277	3.3%
Mountain	358	381	403	423	439	456	474	492	509	527	545	563	580	600	622	647	673	700	727	757	787	819	4.0%
Pacific	1072	1100	1155	1189	1222	1262	1307	1355	1403	1454	1507	1561	1615	1673	1736	1800	1864	1925	1984	2038	2090	2141	3.3%
United States	6363	6551	6865	7078	7265	7469	7702	7944	8175	8419	8671	8928	9176	9447	9739	10048	10361	10671	10973	11263	11550	11842	3.0%
Non-Agricultural Employment by Census Division (millions)																							
New England	6.8	6.9	6.9	7.0	7.1	7.2	7.3	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.7	7.8	7.8	7.9	7.9	7.9	7.9	7.9	0.7%
Middle Atlantic	17.8	17.9	18.0	18.2	18.4	18.5	18.6	18.8	19.0	19.2	19.3	19.4	19.5	19.5	19.6	19.7	19.8	19.9	20.0	20.0	20.0	20.0	0.6%
East North Central	21.8	22.0	22.1	22.4	22.6	22.8	23.1	23.4	23.6	23.9	24.1	24.3	24.4	24.5	24.6	24.7	24.9	25.1	25.2	25.3	25.4	25.5	0.7%
West North Central	9.7	9.8	9.9	10.0	10.1	10.2	10.4	10.5	10.7	10.8	10.9	11.0	11.2	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	11.9	1.0%
South Atlantic	23.9	24.3	24.6	25.1	25.6	26.0	26.4	27.0	27.5	28.0	28.5	29.0	29.5	29.8	30.2	30.7	31.3	31.8	32.3	32.7	33.1	33.5	1.6%
East South Central	7.5	7.6	7.7	7.8	7.9	7.9	8.0	8.1	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.9	9.0	9.1	9.1	9.2	9.3	1.0%
West South Central	13.8	14.0	14.2	14.5	14.8	15.0	15.2	15.5	15.8	16.1	16.3	16.6	16.8	17.0	17.2	17.4	17.7	18.0	18.2	18.4	18.6	18.8	1.5%
Mountain	8.2	8.8	8.9	9.2	9.5	9.6	9.8	10.0	10.1	10.3	10.4	10.5	10.5	10.5	10.6	10.8	11.0	11.2	11.5	11.8	12.1	12.5	2.0%
Pacific	19.0	19.3	19.5	19.9	20.3	20.6	20.9	21.3	21.7	22.1	22.4	22.7	23.1	23.3	23.6	23.9	24.3	24.6	24.9	25.2	25.4	25.7	1.4%
United States	128.5	130.4	131.9	134.0	136.1	137.8	139.7	142.0	144.1	146.1	147.9	149.7	151.1	152.3	153.6	155.3	157.3	159.1	160.8	162.2	163.6	165.1	1.2%

Note: Totals may not equal sum of components due to independent rounding.  
 Source: 1999: Standard & Poor's DRI, Simulation T250200. Projections: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.



**Table 95. Imported Petroleum by Source (1 of 2)  
(Million Barrels per Day)**

Sources	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
Crude Oil																								
Canada	1.18	1.22	1.24	1.25	1.26	1.28	1.31	1.33	1.34	1.34	1.35	1.36	1.38	1.37	1.39	1.40	1.40	1.41	1.42	1.43	1.45	1.46	1.0%	
Mexico	1.25	1.32	1.38	1.39	1.41	1.42	1.42	1.44	1.45	1.46	1.51	1.52	1.53	1.52	1.51	1.50	1.48	1.46	1.44	1.43	1.43	1.43	0.6%	
North Sea	0.55	0.47	0.47	0.47	0.51	0.55	0.58	0.61	0.62	0.63	0.65	0.67	0.67	0.66	0.65	0.65	0.63	0.61	0.60	0.58	0.56	0.54	-0.1%	
OPEC	4.23	4.47	4.73	4.73	5.07	5.35	5.58	5.73	5.86	5.93	6.01	6.11	6.22	6.29	6.38	6.47	6.53	6.54	6.58	6.63	6.73	6.82	2.2%	
Latin America	1.15	1.41	1.57	1.55	1.57	1.59	1.61	1.64	1.67	1.69	1.72	1.76	1.82	1.86	1.91	1.96	2.00	2.01	2.03	2.05	2.08	2.11	2.8%	
North Africa	0.03	0.03	0.03	0.03	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.13	0.13	0.14	0.14	0.13	0.13	0.13	0.13	0.13	6.9%	
West Africa	0.62	0.67	0.72	0.73	0.75	0.78	0.81	0.83	0.85	0.87	0.89	0.91	0.92	0.93	0.94	0.95	0.95	0.94	0.93	0.92	0.92	0.91	1.8%	
Indonesia	0.07	0.08	0.08	0.08	0.09	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.07	0.06	0.06	0.06	0.06	0.06	0.06	-0.7%	
Persian Gulf	2.36	2.28	2.33	2.34	2.61	2.82	2.98	3.08	3.15	3.17	3.19	3.22	3.25	3.28	3.31	3.35	3.38	3.40	3.43	3.47	3.54	3.61	2.0%	
Other Middle East	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.0%	
Other Latin America	0.74	0.62	0.64	0.61	0.63	0.65	0.67	0.68	0.68	0.67	0.67	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	-1.3%	
Other Africa	0.60	0.72	0.77	0.76	0.80	0.84	0.86	0.89	0.91	0.93	0.95	0.97	0.97	0.96	0.95	0.95	0.94	0.92	0.91	0.91	0.90	0.90	1.9%	
Other Asia	0.17	0.18	0.19	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.32	0.34	0.36	0.38	0.41	0.44	0.46	4.6%	
Light Refined Products 1/																								
Canada	0.30	0.28	0.30	0.32	0.28	0.29	0.29	0.31	0.34	0.36	0.38	0.39	0.40	0.41	0.41	0.42	0.43	0.45	0.47	0.49	0.50	0.52	2.5%	
Northern Europe	0.17	0.16	0.16	0.16	0.14	0.15	0.16	0.17	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.17	0.18	0.18	0.18	0.18	0.3%	
Southern Europe	0.05	0.05	0.06	0.06	0.05	0.06	0.06	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.07	1.5%	
OPEC	0.41	0.43	0.46	0.51	0.41	0.43	0.48	0.56	0.64	0.71	0.76	0.83	0.92	1.01	1.05	1.16	1.25	1.35	1.44	1.54	1.63	1.74	6.8%	
Latin America	0.24	0.25	0.27	0.29	0.24	0.25	0.27	0.31	0.35	0.38	0.39	0.41	0.45	0.49	0.52	0.59	0.65	0.69	0.73	0.78	0.82	0.87	6.0%	
North Africa	0.06	0.06	0.06	0.06	0.05	0.05	0.06	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.0%	
West Africa	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-1.8%	
Indonesia	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%	
Persian Gulf	0.07	0.08	0.09	0.12	0.09	0.10	0.11	0.14	0.17	0.21	0.26	0.31	0.36	0.41	0.43	0.47	0.51	0.57	0.62	0.67	0.72	0.78	11.6%	
Caribbean Basin	0.29	0.32	0.33	0.36	0.32	0.33	0.34	0.36	0.40	0.45	0.52	0.57	0.62	0.69	0.73	0.78	0.85	0.92	0.99	1.04	1.09	1.16	6.5%	
Asian Exporters	0.14	0.11	0.11	0.12	0.12	0.12	0.12	0.14	0.14	0.15	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.19	0.19	0.19	0.20	0.20	1.6%	
Other	0.12	0.10	0.10	0.11	0.11	0.11	0.11	0.13	0.13	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.17	0.18	0.18	0.18	0.19	2.1%	

**Table 95. Imported Petroleum by Source (2 of 2)**  
**(Million Barrels per Day)**

Sources	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Heavy Refined Products 2/																							
Canada	0.06	0.06	0.07	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.11	0.10	0.10	0.10	0.09	0.09	0.08	0.08	1.3%
Northern Europe	0.04	0.05	0.06	0.08	0.09	0.08	0.09	0.08	0.07	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	1.0%
Southern Europe	0.01	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.0%
OPEC	0.33	0.32	0.40	0.38	0.41	0.41	0.41	0.42	0.43	0.44	0.45	0.46	0.46	0.45	0.53	0.57	0.58	0.59	0.62	0.62	0.65	0.67	3.3%
Latin America	0.10	0.12	0.14	0.15	0.16	0.16	0.16	0.16	0.16	0.17	0.18	0.18	0.18	0.18	0.21	0.23	0.23	0.23	0.25	0.25	0.26	0.26	4.4%
North Africa	0.17	0.11	0.13	0.10	0.10	0.10	0.10	0.10	0.09	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	-5.4%
West Africa	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Indonesia	0.02	0.02	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-3.1%
Persian Gulf	0.03	0.06	0.09	0.10	0.12	0.13	0.13	0.14	0.16	0.17	0.18	0.19	0.19	0.19	0.24	0.26	0.27	0.28	0.29	0.30	0.32	0.34	11.7%
Caribbean Basin	0.09	0.11	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.15	0.15	0.16	0.17	0.19	0.23	0.25	0.27	0.27	0.28	0.30	0.32	0.32	5.9%
Asian Exporters	0.06	0.05	0.06	0.06	0.05	0.04	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-3.1%
Other	0.05	0.05	0.05	0.04	0.04	0.04	0.04	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	0.03	0.03	-2.3%

1/ Includes gasoline, distillate, jet fuel, and liquefied petroleum gases.

2/ Includes residual fuel oil and other refined products.

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

Caribbean Basin = Bahama Islands, Colombia, Ecuador, Guatemala, Jamaica, Mexico, Netherlands Antilles, Panama, Puerto Rico, Trinidad and Tobago, and the Virgin Islands.

N/A = Not applicable.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 76. Renewable Resource Generating Capacity by EMM Region and Source (2 of 3)**  
(Gigawatts)

Region and Source	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
Northeast Power Coordinating Council/																								
New York																								
Conventional Hydropower	4.30	4.30	4.37	4.52	4.59	4.66	4.73	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	4.87	0.6%
Geothermal 1/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.25	0.25	0.25	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.8%
Biomass 2/	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Solar Thermal 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	N/A
Total	4.58	4.59	4.67	4.81	4.88	4.95	5.07	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	0.6%
Northeast Power Coordinating Council/																								
New England																								
Conventional Hydropower	2.33	2.33	2.33	2.33	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	0.0%
Geothermal 1/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.49	0.49	0.49	0.50	0.50	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.3%
Biomass 2/	0.46	0.46	0.46	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.54	0.55	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.9%
Solar Thermal 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	0.01	0.01	0.01	0.01	0.03	0.06	0.08	0.12	0.16	0.21	0.25	0.29	0.29	0.29	0.29	0.29	0.32	0.32	0.32	0.32	0.32	0.32	0.32	20.2%
Total	3.30	3.30	3.30	3.30	3.34	3.40	3.43	3.48	3.54	3.59	3.64	3.70	3.70	3.70	3.70	3.70	3.74	3.74	3.74	3.74	3.74	3.74	3.74	0.6%
Southeastern Electric Reliability Council/																								
Florida																								
Conventional Hydropower	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A
Geothermal 1/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.51	0.51	0.51	0.51	0.51	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.2%
Biomass 2/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A
Solar Thermal 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	0.57	0.57	0.57	0.57	0.57	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.2%
Southeastern Electric Reliability Council/ excluding Florida																								
Conventional Hydropower	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	11.53	0.0%
Geothermal 1/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	0.19	0.20	0.20	0.20	0.20	0.24	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	2.0%
Biomass 2/	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.1%
Solar Thermal 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Wind	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.05	N/A
Total	11.92	11.93	11.93	11.93	11.93	11.97	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.03	12.06	12.08	0.1%
Southwest Power Pool																								
Conventional Hydropower	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	N/A
Geothermal 1/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Municipal Solid Waste	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Biomass 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal 3/	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.07	N/A
Wind	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	2.55	2.55	2.55	2.55	2.56	2.56	2.56	2.57	2.57	2.57	2.57	2.58	2.58	2.59	2.59	2.60	2.60	2.61	2.61	2.62	2.62	2.63	2.63	0.1%

**Table 76. Renewable Resource Generating Capacity by EMM Region and Source (3 of 3)  
(Gigawatts)**

Region and Source	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020	
Western Systems Coordinating Council/																								
Northwest Power Pool Area																								
Conventional Hydropower	34.97	34.97	34.97	34.97	34.97	34.97	34.97	34.97	34.97	34.97	34.97	34.95	34.95	34.95	34.95	34.95	34.95	34.95	34.95	34.95	34.95	34.95	0.0%	
Geothermal 1/	0.27	0.27	0.27	0.27	0.27	0.32	0.60	0.79	1.18	1.44	1.60	1.74	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	9.5%
Municipal Solid Waste	0.05	0.05	0.05	0.05	0.05	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	0.08	0.08	0.08	0.08	0.08	2.3%
Biomass 2/	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	N/A
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.12	0.13	0.14	0.15	0.15	N/A
Wind	0.03	0.03	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	8.9%
Total	35.46	35.45	35.59	35.59	35.60	35.70	35.98	36.18	36.59	36.86	37.04	37.17	37.24	37.25	37.26	37.28	37.29	37.30	37.32	37.33	37.34	37.35	0.2%	
Western Systems Coordinating Council/																								
Rocky Mountain Power Area and Arizona																								
Conventional Hydropower	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	N/A
Geothermal 1/	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	N/A
Municipal Solid Waste	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Biomass 2/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Solar Thermal 3/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	N/A
Solar Photovoltaic 3/	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.10	21.5%
Wind	0.10	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.8%
Total	5.98	6.00	6.00	6.00	6.01	6.01	6.02	6.02	6.03	6.04	6.04	6.05	6.06	6.07	6.08	6.08	6.09	6.10	6.10	6.11	6.12	6.12	0.1%	
Western Systems Coordinating Council/																								
California-Southern Nevada Power																								
Conventional Hydropower	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	N/A
Geothermal 1/	2.26	2.32	2.32	2.32	2.32	2.21	2.21	2.21	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	0.0%
Municipal Solid Waste	0.27	0.28	0.32	0.32	0.32	0.25	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	5.1%
Biomass 2/	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.0%
Solar Thermal 3/	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.6%
Solar Photovoltaic 3/	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.17	14.4%
Wind	1.65	1.65	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	0.7%
Total	14.69	14.77	15.07	15.08	15.09	15.42	15.42	15.43	15.49	15.50	15.51	15.52	15.53	15.54	15.55	15.57	15.58	15.59	15.61	15.62	15.64	15.65	0.3%	
United States																								
Conventional Hydropower	78.14	78.13	78.21	78.36	78.47	78.54	78.62	78.76	78.76	78.76	78.76	78.74	78.74	78.74	78.74	78.74	78.74	78.74	78.74	78.74	78.74	78.74	78.74	0.0%
Geothermal 1/	2.87	2.93	2.93	2.93	2.93	2.88	3.15	3.34	3.79	4.05	4.21	4.34	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	4.41	2.1%
Municipal Solid Waste	2.59	2.64	2.76	2.78	2.81	3.54	3.80	3.84	3.90	3.98	4.08	4.20	4.34	4.51	4.53	4.55	4.57	4.64	4.66	4.68	4.70	4.72	4.72	2.9%
Biomass 2/	1.52	1.53	1.54	1.60	1.62	1.66	1.68	1.71	1.76	1.84	1.93	2.04	2.17	2.32	2.32	2.32	2.33	2.37	2.37	2.37	2.37	2.37	2.37	2.2%
Solar Thermal 3/	0.33	0.33	0.33	0.33	0.34	0.35	0.35	0.36	0.37	0.38	0.39	0.40	0.40	0.41	0.42	0.43	0.44	0.44	0.45	0.46	0.47	0.48	0.48	1.7%
Solar Photovoltaic 3/	0.01	0.01	0.02	0.03	0.05	0.06	0.09	0.11	0.13	0.15	0.18	0.21	0.24	0.27	0.30	0.33	0.37	0.40	0.44	0.47	0.51	0.54	0.54	19.4%
Wind	2.60	2.76	3.53	3.80	4.01	4.22	4.43	4.65	4.89	5.14	5.41	5.51	5.58	5.67	5.67	5.70	5.73	5.73	5.73	5.73	5.76	5.78	5.78	3.9%
Total	88.07	88.34	89.32	89.84	90.24	91.26	92.11	92.77	93.60	94.29	94.95	95.44	95.88	96.31	96.37	96.44	96.55	96.73	96.80	96.86	96.95	97.04	0.5%	

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

2/ Include projections for energy crops beginning in 2010.

3/ Grid connected generation only.

Btu = British Thermal Unit.

MSW = Municipal solid waste.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 58. New Light-Duty Vehicle Range (2 of 4)  
(Miles)**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Ethanol																							
Mini-compact Cars	338	329	331	336	355	356	358	359	361	362	364	366	366	367	368	369	370	371	371	372	372	373	0.5%
Subcompact Cars	338	352	358	363	378	379	383	386	391	395	401	405	405	406	406	406	406	406	406	406	407	407	0.9%
Compact Cars	345	346	350	352	364	364	365	368	371	374	378	382	383	382	383	382	381	381	381	381	381	381	0.5%
Midsize Cars	350	349	353	356	369	370	372	374	378	381	384	387	387	387	388	387	387	388	388	389	389	389	0.5%
Large Cars	366	373	379	382	393	394	396	398	402	406	411	417	421	421	421	420	420	419	419	419	419	420	0.6%
Two Seater Cars	331	324	327	331	347	347	349	351	353	354	357	360	362	362	363	363	364	364	365	365	366	366	0.5%
Small Pickup	309	329	338	338	340	338	338	338	340	341	344	348	350	352	354	356	358	360	362	364	367	367	0.8%
Large Pickup	318	321	328	329	331	330	331	333	335	338	341	345	347	350	352	354	356	358	361	364	368	368	0.7%
Small Van	373	387	399	399	401	398	398	398	400	402	405	410	413	416	419	421	423	426	429	433	437	438	0.8%
Large Van	351	349	359	362	368	368	369	373	377	382	387	392	395	398	401	403	406	408	411	415	419	420	0.9%
Small Utility	304	309	316	317	326	325	324	325	326	329	332	336	338	340	343	345	347	349	350	353	355	356	0.8%
Large Utility	376	378	387	389	395	394	396	400	405	410	415	422	425	429	432	435	438	440	443	447	451	451	0.9%
Ethanol Flex																							
Mini-compact Cars	325	316	318	323	341	342	344	345	346	347	349	351	352	353	354	354	355	356	356	357	358	358	0.5%
Subcompact Cars	325	339	344	349	363	365	367	371	376	380	385	389	389	389	390	390	390	390	390	390	390	391	0.9%
Compact Cars	331	332	336	338	350	350	350	353	356	359	363	367	367	367	368	367	366	366	366	366	366	366	0.5%
Midsize Cars	336	335	339	342	355	356	357	360	363	366	369	372	372	372	373	372	372	373	373	374	374	374	0.5%
Large Cars	352	358	364	367	378	378	380	382	386	390	395	401	404	404	405	404	403	403	403	403	403	403	0.6%
Two Seater Cars	318	311	314	318	333	333	335	337	339	340	343	346	347	348	349	349	349	350	350	351	351	352	0.5%
Small Pickup	297	316	325	325	327	325	325	325	326	328	330	334	336	338	340	342	344	346	348	350	353	353	0.8%
Large Pickup	305	308	315	316	318	317	318	320	322	324	327	331	333	336	338	340	342	344	347	350	353	353	0.7%
Small Van	358	372	383	383	386	382	382	382	384	386	389	394	396	399	402	404	407	409	412	416	420	420	0.8%
Large Van	337	335	345	347	354	353	354	358	362	367	372	377	379	382	385	387	390	392	395	399	403	403	0.9%
Small Utility	292	297	303	305	313	312	311	312	314	316	319	322	324	327	329	332	334	335	337	339	341	342	0.8%
Large Utility	361	363	372	374	380	379	380	384	389	394	399	405	408	412	415	418	421	423	426	429	433	434	0.9%
Compressed Natural Gas (CNG)																							
Mini-compact Cars	267	260	261	265	280	281	283	284	285	285	287	289	289	290	291	291	292	293	293	293	294	294	0.5%
Subcompact Cars	267	278	283	286	298	300	302	305	309	312	317	319	320	320	321	320	320	320	320	321	321	321	0.9%
Compact Cars	272	273	276	278	288	287	288	290	293	295	298	301	302	302	302	301	301	301	301	301	301	301	0.5%
Midsize Cars	276	275	278	281	292	292	294	296	298	301	303	306	306	306	306	306	306	306	307	307	307	307	0.5%
Large Cars	289	294	299	302	310	311	312	314	317	320	325	329	332	332	332	332	331	331	331	331	331	331	0.6%
Two Seater Cars	261	256	258	261	274	274	276	277	278	280	282	285	286	286	287	287	287	288	288	288	289	289	0.5%
Small Pickup	244	260	267	267	269	267	267	267	268	269	272	274	276	278	280	281	282	284	286	288	290	290	0.8%
Large Pickup	251	253	259	260	262	260	261	263	265	266	269	272	274	276	278	279	281	283	285	288	290	290	0.7%
Small Van	295	306	315	315	317	314	314	314	315	317	320	323	326	328	331	332	334	337	339	342	345	346	0.8%
Large Van	277	275	283	285	291	290	291	294	298	301	305	310	312	314	317	318	320	322	325	328	331	331	0.9%
Small Utility	240	244	249	251	257	256	256	256	258	259	262	265	267	268	271	273	274	275	277	278	281	281	0.8%
Large Utility	297	298	306	307	312	311	312	316	320	324	328	333	336	338	341	343	346	348	350	353	356	356	0.9%
CNG Bi-Fuel																							
Mini-compact Cars	222	216	218	221	233	234	236	236	237	238	239	241	241	241	242	243	243	244	244	244	245	245	0.5%
Subcompact Cars	223	232	236	239	249	250	252	254	257	260	264	266	266	267	267	267	267	267	267	267	267	268	0.9%
Compact Cars	227	228	230	232	240	240	240	242	244	246	248	251	252	252	252	251	251	251	251	251	251	251	0.5%
Midsize Cars	230	229	232	235	243	244	245	246	249	251	253	255	255	255	255	255	255	255	256	256	256	256	0.5%
Large Cars	241	245	249	251	259	259	260	262	264	267	271	274	277	277	277	277	276	276	276	276	276	276	0.6%
Two Seater Cars	218	213	215	218	228	228	230	231	232	233	235	237	238	238	239	239	239	240	240	240	241	241	0.5%
Small Pickup	203	217	222	223	224	223	223	223	223	225	226	229	230	232	233	234	235	237	238	240	242	242	0.8%
Large Pickup	209	211	216	216	218	217	218	219	220	222	224	227	228	230	232	233	234	236	238	240	242	242	0.7%
Small Van	245	255	262	262	264	262	262	262	263	264	267	270	272	274	275	277	278	280	282	285	288	288	0.8%
Large Van	231	230	236	238	242	242	243	245	248	251	254	258	260	262	264	265	267	269	271	273	276	276	0.9%
Small Utility	200	203	208	209	214	213	213	214	215	216	218	221	222	224	226	227	228	229	231	232	234	234	0.8%
Large Utility	248	249	255	256	260	259	260	263	266	270	273	278	280	282	284	286	288	290	292	294	297	297	0.9%

**Table 58. New Light-Duty Vehicle Range (3 of 4)  
(Miles)**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Liquefied Petroleum Gas (LPG)																							
Mini-compact Cars	378	368	370	376	397	398	401	402	403	404	407	409	410	410	412	412	413	415	415	416	416	417	0.5%
Subcompact Cars	378	394	400	406	423	424	428	432	438	442	449	452	453	454	454	454	454	454	454	454	455	455	0.9%
Compact Cars	386	387	391	394	407	407	408	412	415	418	422	427	428	428	428	427	426	426	426	426	426	426	0.5%
Midsized Cars	391	390	394	399	413	414	416	419	423	427	430	433	433	433	434	433	433	434	434	435	435	435	0.5%
Large Cars	410	417	424	427	440	441	442	445	449	454	460	467	471	471	471	470	469	469	469	469	469	469	0.6%
Two Seater Cars	370	362	366	370	388	388	391	392	394	396	400	403	405	405	406	406	407	408	408	408	408	409	0.5%
Small Pickup	345	368	378	378	381	378	378	378	380	382	385	389	391	394	396	398	400	402	405	408	411	411	0.8%
Large Pickup	355	358	367	368	371	369	370	372	375	377	381	385	388	391	394	396	398	401	404	407	411	411	0.7%
Small Van	417	433	446	446	449	445	445	445	447	449	453	458	462	465	468	471	473	477	480	484	489	490	0.8%
Large Van	392	390	401	404	412	411	413	417	422	427	433	439	442	445	449	451	454	457	460	464	469	469	0.9%
Small Utility	340	345	353	355	365	363	363	363	365	368	371	375	378	380	383	386	388	390	392	394	397	398	0.8%
Large Utility	421	422	433	435	442	441	443	447	453	458	465	472	475	480	483	486	490	492	496	500	504	505	0.9%
LPG Bi-Fuel																							
Mini-compact Cars	356	346	348	354	373	375	377	378	379	381	383	385	385	386	388	388	389	390	391	391	392	392	0.5%
Subcompact Cars	356	371	377	382	398	399	403	406	412	416	422	426	426	427	427	427	427	427	427	428	428	429	0.9%
Compact Cars	363	364	368	371	383	383	384	387	390	393	397	402	403	403	403	402	401	401	401	401	401	401	0.5%
Midsized Cars	368	367	371	375	389	390	391	394	398	401	404	407	407	408	408	408	408	408	409	409	409	410	0.5%
Large Cars	386	393	399	402	414	415	416	419	423	427	433	439	443	443	443	442	442	441	441	441	441	442	0.6%
Two Seater Cars	348	341	344	349	365	365	368	369	371	373	376	379	381	381	383	383	383	384	384	384	385	386	0.5%
Small Pickup	325	347	356	356	358	356	356	356	357	359	362	366	368	370	373	375	377	379	381	384	387	387	0.8%
Large Pickup	325	337	346	346	349	347	348	350	353	355	358	363	365	368	371	372	375	377	380	384	387	387	0.7%
Small Van	393	408	420	420	423	419	419	419	421	423	427	431	434	438	441	443	446	449	452	456	460	461	0.8%
Large Van	369	367	378	381	387	387	388	392	397	402	407	413	416	419	422	424	427	430	433	437	441	442	0.9%
Small Utility	320	325	333	334	343	342	341	342	344	346	349	353	355	358	361	363	365	367	369	371	374	375	0.8%
Large Utility	396	398	408	410	416	415	417	421	426	431	437	444	447	451	455	458	461	464	467	470	475	475	0.9%
Electric																							
Mini-compact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Subcompact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Compact Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Midsized Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Two Seater Cars	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Small Pickup	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Pickup	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Small Van	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Van	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Small Utility	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Large Utility	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	N/A
Diesel-Electric Hybrid																							
Mini-compact Cars	578	562	566	575	607	609	613	615	617	619	622	626	626	628	630	631	632	634	635	636	637	638	0.5%
Subcompact Cars	579	603	612	621	646	649	654	660	669	676	686	692	693	694	695	694	694	694	695	695	695	696	0.9%
Compact Cars	590	592	598	603	623	623	624	629	634	639	646	653	654	654	654	653	652	651	652	652	651	652	0.5%
Midsized Cars	599	596	603	610	632	634	636	640	646	652	657	662	662	662	663	663	663	664	664	665	665	666	0.5%
Large Cars	627	638	648	654	673	674	677	680	687	694	703	714	720	720	720	719	718	717	717	717	717	718	0.6%
Two Seater Cars	566	554	559	567	593	594	597	600	603	606	611	616	619	620	622	622	622	624	625	626	627	0.5%	
Small Pickup	528	563	578	579	582	579	579	579	581	584	588	595	598	602	606	609	612	615	619	623	628	628	0.8%
Large Pickup	544	548	562	562	567	564	566	569	573	577	583	589	593	598	602	605	609	613	618	623	629	629	0.7%
Small Van	638	663	682	682	687	681	680	681	684	687	693	701	706	711	716	720	724	729	734	741	748	749	0.8%
Large Van	600	597	614	619	630	629	631	638	645	653	662	671	675	681	686	690	694	698	704	710	717	718	0.9%
Small Utility	520	528	540	543	558	555	555	555	558	562	568	574	578	582	587	591	594	596	599	603	608	609	0.8%
Large Utility	644	646	662	666	676	674	677	684	693	701	711	722	727	733	739	744	749	753	758	764	771	772	0.9%

**Table 58. New Light-Duty Vehicle Range (4 of 4)  
(Miles)**

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Gasoline-Electric Hybrid																							
Mini-compact Cars	556	541	544	553	583	585	589	591	593	595	598	602	602	604	606	607	608	610	610	611	612	613	0.5%
Subcompact Cars	557	580	589	597	622	624	629	635	643	650	660	665	666	667	668	668	667	667	668	668	669	670	0.9%
Compact Cars	568	569	575	579	599	599	600	605	610	614	621	628	629	629	629	628	627	626	627	627	626	627	0.5%
Midsize Cars	576	573	580	586	608	609	611	616	621	627	632	637	636	637	638	637	637	638	639	640	640	640	0.5%
Large Cars	603	613	623	628	647	648	651	654	660	667	676	686	692	692	693	691	690	689	689	689	689	690	0.6%
Two Seater Cars	544	533	538	545	570	571	574	577	580	583	588	593	595	596	598	598	598	599	600	601	602	603	0.5%
Small Pickup	508	542	556	557	560	556	556	556	558	561	566	572	575	579	583	585	588	592	595	599	604	604	0.8%
Large Pickup	523	527	540	541	545	543	544	547	551	555	560	567	571	575	579	582	586	590	594	599	605	604	0.7%
Small Van	614	637	656	656	660	655	654	655	657	661	666	674	679	684	689	692	696	701	706	712	719	720	0.8%
Large Van	577	574	590	595	605	605	607	613	621	628	636	645	649	655	660	663	667	672	677	683	690	690	0.9%
Small Utility	500	508	520	522	536	534	533	534	537	541	546	552	555	559	564	568	571	573	576	580	585	585	0.8%
Large Utility	619	621	637	640	650	648	651	658	666	674	683	694	699	705	710	715	720	724	729	735	742	742	0.9%
Fuel Cell Methanol																							
Mini-compact Cars	445	433	435	442	467	468	471	473	474	476	478	481	482	483	485	485	486	488	488	489	490	490	0.5%
Subcompact Cars	445	464	471	477	497	499	503	508	515	520	528	532	533	534	534	534	534	534	534	534	535	536	0.9%
Compact Cars	454	455	460	464	479	479	480	484	488	492	497	502	503	503	503	502	502	501	501	501	501	501	0.5%
Midsize Cars	460	459	464	469	486	487	489	493	497	502	505	509	509	510	510	510	510	510	511	512	512	512	0.5%
Large Cars	482	491	498	503	517	518	520	523	528	534	541	549	554	554	554	553	552	551	551	551	552	552	0.6%
Two Seater Cars	435	426	430	436	456	457	459	462	464	466	470	474	476	477	478	478	479	479	480	481	481	482	0.5%
Small Pickup	406	433	445	445	448	445	445	445	447	449	453	457	460	463	466	468	471	473	476	480	483	483	0.8%
Large Pickup	418	422	432	433	436	434	435	438	441	444	448	453	457	460	463	466	466	469	472	475	479	484	0.7%
Small Van	491	510	525	525	528	524	523	524	526	528	533	539	543	547	551	554	557	561	565	570	575	576	0.8%
Large Van	462	459	472	476	484	484	486	491	496	502	509	516	520	524	528	531	534	537	541	546	552	552	0.9%
Small Utility	400	406	416	418	429	427	427	427	430	432	437	442	444	447	451	454	457	459	461	464	468	468	0.8%
Large Utility	495	497	509	512	520	519	521	526	533	539	547	555	559	564	568	572	576	579	583	588	593	594	0.9%
Fuel Cell Hydrogen																							
Mini-compact Cars	445	433	435	442	467	468	471	473	474	476	478	481	482	483	485	485	486	488	488	489	490	490	0.5%
Subcompact Cars	445	464	471	477	497	499	503	508	515	520	528	532	533	534	534	534	534	534	534	534	535	536	0.9%
Compact Cars	454	455	460	464	479	479	480	484	488	492	497	502	503	503	503	502	502	501	501	501	501	501	0.5%
Midsize Cars	460	459	464	469	486	487	489	493	497	502	505	509	509	510	510	510	510	510	511	512	512	512	0.5%
Large Cars	482	491	498	503	517	518	520	523	528	534	541	549	554	554	554	553	552	551	551	551	552	552	0.6%
Two Seater Cars	435	426	430	436	456	457	459	462	464	466	470	474	476	477	478	478	479	479	480	481	481	482	0.5%
Small Pickup	406	433	445	445	448	445	445	445	447	449	453	457	460	463	466	468	471	473	476	480	483	483	0.8%
Large Pickup	418	422	432	433	436	434	435	438	441	444	448	453	457	460	463	466	466	469	472	475	479	484	0.7%
Small Van	491	510	525	525	528	524	523	524	526	528	533	539	543	547	551	554	557	561	565	570	575	576	0.8%
Large Van	462	459	472	476	484	484	486	491	496	502	509	516	520	524	528	531	534	537	541	546	552	552	0.9%
Small Utility	400	406	416	418	429	427	427	427	430	432	437	442	444	447	451	454	457	459	461	464	468	468	0.8%
Large Utility	495	497	509	512	520	519	521	526	533	539	547	555	559	564	568	572	576	579	583	588	593	594	0.9%
Fuel Cell Gasoline																							
Mini-compact Cars	445	433	435	442	467	468	471	473	474	476	478	481	482	483	485	485	486	488	488	489	490	490	0.5%
Subcompact Cars	445	464	471	477	497	499	503	508	515	520	528	532	533	534	534	534	534	534	534	534	535	536	0.9%
Compact Cars	454	455	460	464	479	479	480	484	488	492	497	502	503	503	503	502	502	501	501	501	501	501	0.5%
Midsize Cars	460	459	464	469	486	487	489	493	497	502	505	509	509	510	510	510	510	510	511	512	512	512	0.5%
Large Cars	482	491	498	503	517	518	520	523	528	534	541	549	554	554	554	553	552	551	551	551	552	552	0.6%
Two Seater Cars	435	426	430	436	456	457	459	462	464	466	470	474	476	477	478	478	479	479	480	481	481	482	0.5%
Small Pickup	406	433	445	445	448	445	445	445	447	449	453	457	460	463	466	468	471	473	476	480	483	483	0.8%
Large Pickup	418	422	432	433	436	434	435	438	441	444	448	453	457	460	463	466	466	469	472	475	479	484	0.7%
Small Van	491	510	525	525	528	524	523	524	526	528	533	539	543	547	551	554	557	561	565	570	575	576	0.8%
Large Van	462	459	472	476	484	484	486	491	496	502	509	516	520	524	528	531	534	537	541	546	552	552	0.9%
Small Utility	400	406	416	418	429	427	427	427	430	432	437	442	444	447	451	454	457	459	461	464	468	468	0.8%
Large Utility	495	497	509	512	520	519	521	526	533	539	547	555	559	564	568	572	576	579	583	588	593	594	0.9%

Sources: 1999 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A. Projections: EIA, AEO2001 National Energy Modeling System run AEO2001.D101600A.

**Table 32. Other Industrial Sector Energy Consumption (2 of 2)**  
(Trillion Btu)

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1999-2020
Industry Output (billion 1992 dollars)	163.20	163.64	165.87	170.82	173.66	174.19	174.72	175.30	176.47	178.20	179.88	182.62	184.12	186.60	189.44	192.21	195.59	198.68	201.57	204.10	205.67	207.87	1.2%
Energy Consumption per Unit of Output (thousand Btu per 1992 dollar of output)	13.51	13.39	13.36	13.34	13.42	13.52	13.57	13.65	13.68	13.75	13.84	13.95	14.04	14.12	14.18	14.26	14.32	14.36	14.39	14.44	14.47	14.49	0.3%
Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent)	25.4	25.5	25.9	26.4	26.8	26.8	26.7	26.7	26.8	26.9	26.9	27.2	27.3	27.4	27.7	28.0	28.4	28.6	28.9	29.1	29.2	29.5	0.7%
Metal-Based Durables Consumption																							
Residual Oil	33.6	33.7	34.4	36.1	37.4	38.2	40.1	42.4	44.2	46.1	47.7	49.5	51.0	52.6	54.5	56.5	58.9	61.2	63.7	66.2	69.1	72.2	3.7%
Distillate Oil	21.5	21.2	22.9	23.5	23.9	24.1	25.2	26.7	27.7	28.8	29.7	30.6	31.5	32.4	33.5	34.7	35.8	37.2	38.6	40.1	41.8	43.7	3.4%
Liquefied Petroleum Gas	5.0	6.3	5.8	5.9	5.8	5.7	6.0	6.3	6.5	6.8	7.0	7.3	7.5	7.7	8.3	8.7	9.0	9.4	9.9	10.3	10.9	11.5	4.0%
Petroleum Subtotal	60.2	61.2	63.0	65.4	67.1	68.0	71.4	75.4	78.5	81.7	84.4	87.4	90.0	92.8	96.4	99.9	103.8	107.8	112.2	116.6	121.8	127.5	3.6%
Natural Gas	726.4	742.3	744.2	780.2	808.9	827.0	859.6	896.7	928.6	959.6	988.1	1019.8	1048.3	1077.1	1110.1	1145.5	1185.8	1221.5	1259.5	1299.0	1343.9	1390.0	3.1%
Steam Coal	74.6	74.5	74.5	74.4	74.7	75.0	75.3	75.4	75.6	75.6	75.7	75.8	75.9	75.9	76.0	76.2	76.3	76.5	76.7	77.0	77.2	77.4	0.2%
Renewables	35.6	37.0	37.7	40.1	41.9	43.2	45.5	48.0	50.3	52.6	54.7	57.1	59.3	61.6	64.1	66.8	69.8	72.5	75.5	78.6	82.1	85.7	4.3%
Purchased Electricity	615.7	634.6	640.4	670.6	692.5	706.7	734.8	767.3	795.6	823.5	849.1	877.3	902.9	929.0	958.6	989.5	1024.5	1056.0	1089.7	1125.1	1165.5	1206.7	3.3%
Total	1512.4	1549.7	1559.8	1630.7	1685.0	1720.0	1786.6	1862.8	1928.5	1993.0	2052.0	2117.4	2176.4	2236.4	2305.3	2377.9	2460.2	2534.4	2613.6	2696.3	2790.5	2887.3	3.1%
Industry Output (billion 1992 dollars)	1632.92	1692.42	1719.80	1825.18	1904.70	1960.80	2058.75	2170.16	2267.53	2365.85	2458.10	2559.91	2653.58	2749.74	2857.89	2970.48	3096.51	3211.71	3335.97	3466.79	3614.35	3764.73	4.1%
Energy Consumption per Unit of Output (thousand Btu per 1992 dollar of output)	0.93	0.92	0.91	0.89	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.82	0.81	0.81	0.80	0.79	0.79	0.78	0.78	0.77	0.77	-0.9%
Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent)	43.9	45.3	45.9	47.9	49.5	50.4	52.0	53.8	55.8	57.3	58.7	60.5	62.0	63.5	65.5	67.4	69.8	71.7	74.1	76.2	78.7	81.4	3.0%
Other Manufacturing Consumption																							
Residual Oil	86.3	86.2	87.9	88.2	88.2	88.0	89.5	91.1	92.5	93.8	94.7	96.0	97.0	97.8	99.3	100.9	102.8	104.7	106.7	108.6	110.7	113.3	1.3%
Distillate Oil	90.3	90.3	98.2	97.1	96.7	95.7	97.4	99.8	100.8	102.4	103.2	104.4	105.8	106.7	108.3	110.1	111.4	113.7	115.8	117.9	120.1	123.1	1.5%
Liquid Petroleum Gas	28.5	32.9	31.8	31.5	31.1	30.8	31.4	32.1	32.5	33.1	33.4	34.0	34.4	34.7	36.0	36.8	37.5	38.4	39.3	40.1	41.1	42.4	1.9%
Petroleum Subtotal	205.1	209.4	217.9	216.8	216.0	214.5	218.3	222.9	225.8	229.3	231.4	234.4	237.1	239.2	243.5	247.8	251.6	256.8	261.8	266.7	271.9	278.8	1.5%
Natural Gas	1257.2	1268.8	1268.1	1295.3	1318.4	1334.7	1352.9	1371.9	1389.5	1405.2	1420.3	1439.2	1454.8	1469.0	1488.8	1512.4	1538.6	1563.7	1587.1	1608.9	1631.8	1657.7	1.3%
Steam Coal	160.8	162.1	162.5	163.8	165.0	165.9	167.2	168.6	169.8	171.0	172.0	173.3	174.4	175.4	176.8	178.4	180.1	181.9	183.5	185.1	186.8	188.7	0.8%
Renewables	320.9	329.0	333.9	343.0	350.5	356.4	364.6	373.1	381.1	388.8	395.9	404.5	411.9	419.0	428.4	438.7	449.7	460.7	471.3	481.5	492.3	504.5	2.2%
Purchased Electricity	779.8	796.9	802.3	814.6	823.7	829.9	841.7	854.3	866.0	876.7	886.2	898.2	908.1	917.2	930.2	945.0	961.0	977.0	992.0	1005.9	1020.9	1038.4	1.4%
Total	2723.8	2766.2	2784.7	2833.4	2873.6	2901.4	2944.8	2990.8	3032.3	3071.0	3105.8	3149.6	3186.3	3219.8	3267.7	3322.3	3381.0	3440.1	3495.8	3548.1	3603.6	3668.1	1.4%
Industry Output (billion 1992 dollars)	1038.81	1063.07	1076.60	1103.73	1125.70	1142.22	1166.10	1191.10	1214.18	1236.12	1256.36	1280.84	1301.73	1321.65	1348.46	1378.15	1409.76	1441.41	1471.55	1500.40	1530.86	1565.73	2.0%
Energy Consumption per Unit of Output (thousand Btu per 1992 dollar of output)	2.62	2.60	2.59	2.57	2.55	2.54	2.53	2.51	2.50	2.48	2.47	2.46	2.45	2.44	2.42	2.41	2.40	2.39	2.38	2.36	2.35	2.34	-0.5%
Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent)	64.7	66.1	66.9	67.8	68.7	69.0	69.6	70.2	71.1	71.7	72.1	72.9	73.5	74.0	75.0	76.1	77.4	78.5	79.8	80.8	81.8	83.1	1.2%

1/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.

Note: Totals may not equal sum of components due to independent rounding. Data for 1999 are model results and may differ slightly from official EIA data reports.

Source: Energy Information Administration, AEO2001 National Energy Modeling System run AEO2001.D101600A.