

Table A1. Total Energy Supply and Disposition Summary
(Quadrillion Btu per Year, Unless Otherwise Noted)

Supply, Disposition, and Prices	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Production								
Crude Oil and Lease Condensate	10.80	10.73	12.18	12.40	14.02	15.64	15.98	1.7%
Natural Gas Plant Liquids	2.36	2.41	2.52	2.50	2.52	2.56	2.55	0.3%
Dry Natural Gas	18.99	19.84	20.87	20.83	22.02	23.81	24.28	0.9%
Coal ¹	23.79	23.50	24.21	24.56	24.41	25.05	26.79	0.6%
Nuclear Power	8.21	8.41	8.45	8.68	9.00	9.05	9.44	0.5%
Hydropower	2.87	2.46	2.67	2.94	2.95	2.96	2.97	0.8%
Biomass ²	2.97	3.23	4.20	5.16	6.49	7.86	8.28	4.2%
Other Renewable Energy ³	0.88	0.97	1.54	1.64	1.73	1.95	2.15	3.5%
Other ⁴	0.48	0.97	0.83	1.07	1.05	1.06	1.13	0.7%
Total	71.35	72.52	77.45	79.76	84.19	89.94	93.58	1.1%
Imports								
Crude Oil	22.08	21.90	18.21	17.94	16.42	14.76	15.30	-1.5%
Liquid Fuels and Other Petroleum ⁵	7.22	6.97	5.45	5.74	5.43	5.67	6.22	-0.5%
Natural Gas	4.29	4.72	3.24	3.59	3.37	3.13	2.60	-2.6%
Other Imports ⁶	0.98	0.99	0.89	0.90	1.22	1.14	1.34	1.3%
Total	34.57	34.59	27.79	28.16	26.44	24.70	25.46	-1.3%
Exports								
Petroleum ⁷	2.59	2.84	2.58	2.65	2.82	2.98	3.08	0.4%
Natural Gas	0.73	0.83	0.70	1.16	1.44	1.70	1.87	3.6%
Coal	1.26	1.51	2.05	1.65	1.33	1.34	1.08	-1.4%
Total	4.58	5.17	5.33	5.45	5.58	6.02	6.03	0.7%
Discrepancy⁸	1.26	0.01	-0.04	-0.44	-0.36	-0.38	-0.34	--
Consumption								
Liquid Fuels and Other Petroleum ⁹	40.63	40.75	38.10	38.97	38.97	39.84	41.56	0.1%
Natural Gas	22.26	23.70	23.09	23.34	24.03	25.31	25.08	0.2%
Coal	22.46	22.74	22.91	23.59	23.98	24.40	26.41	0.7%
Nuclear Power	8.21	8.41	8.45	8.68	9.00	9.05	9.44	0.5%
Hydropower	2.87	2.46	2.67	2.94	2.95	2.96	2.97	0.8%
Biomass ¹⁰	2.58	2.65	2.98	3.57	4.55	5.29	5.52	3.2%
Other Renewable Energy ³	0.88	0.97	1.54	1.64	1.73	1.95	2.15	3.5%
Other ¹¹	0.19	0.23	0.21	0.19	0.20	0.18	0.23	-0.1%
Total	100.08	101.92	99.95	102.91	105.41	108.99	113.35	0.5%
Prices (2007 dollars per unit)								
Petroleum (dollars per barrel)								
Imported Low Sulfur Light Crude Oil Price ¹² ..	67.82	72.33	77.97	109.96	115.64	121.47	130.50	2.6%
Imported Crude Oil Price ¹²	60.70	63.83	71.97	107.64	110.34	115.01	123.81	2.9%
Natural Gas (dollars per million Btu)								
Price at Henry Hub	6.91	6.96	6.52	6.89	7.43	8.05	9.25	1.2%
Wellhead Price ¹³	6.48	6.22	5.76	6.09	6.57	7.11	8.17	1.2%
Natural Gas (dollars per thousand cubic feet)								
Wellhead Price ¹³	6.66	6.39	5.92	6.26	6.75	7.31	8.39	1.2%
Coal (dollars per ton)								
Minemouth Price ¹⁴	25.29	25.82	29.40	28.98	27.94	28.42	28.94	0.5%
Coal (dollars per million Btu)								
Minemouth Price ¹⁴	1.25	1.27	1.44	1.43	1.39	1.42	1.45	0.6%
Average Delivered Price ¹⁵	1.83	1.86	1.98	2.03	1.99	2.02	2.08	0.5%
Average Electricity Price (cents per kilowatthour)	9.1	9.1	9.0	9.0	9.4	9.8	10.5	0.6%

Table A1. Total Energy Supply and Disposition Summary (Continued)
(Quadrillion Btu per Year, Unless Otherwise Noted)

Supply, Disposition, and Prices	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Prices (nominal dollars per unit)								
Petroleum (dollars per barrel)								
Imported Low Sulfur Light Crude Oil Price ¹² . . .	66.04	72.33	82.09	127.23	149.32	167.54	189.16	4.3%
Imported Crude Oil Price ¹²	59.10	63.83	75.78	124.55	142.47	158.63	179.47	4.6%
Natural Gas (dollars per million Btu)								
Price at Henry Hub	6.73	6.96	6.87	7.97	9.60	11.10	13.40	2.9%
Wellhead Price ¹³	6.31	6.22	6.07	7.04	8.48	9.81	11.84	2.8%
Natural Gas (dollars per thousand cubic feet)								
Wellhead Price ¹³	6.49	6.39	6.24	7.24	8.72	10.08	12.17	2.8%
Coal (dollars per ton)								
Minemouth Price ¹⁴	24.63	25.82	30.95	33.53	36.07	39.20	41.95	2.1%
Coal (dollars per million Btu)								
Minemouth Price ¹⁴	1.21	1.27	1.51	1.66	1.80	1.96	2.10	2.2%
Average Delivered Price ¹⁵	1.78	1.86	2.08	2.35	2.57	2.79	3.02	2.1%
Average Electricity Price (cents per kilowatthour)	8.9	9.1	9.4	10.5	12.1	13.6	15.2	2.2%

¹Includes waste coal.
²Includes grid-connected electricity from wood and waste; biomass, such as corn, used for liquid fuels production; and non-electric energy demand from wood. Refer to Table A17 for details.
³Includes grid-connected electricity from landfill gas; municipal solid waste; wind; photovoltaic and solar thermal sources; and non-electric energy from renewable sources, such as active and passive solar systems. Excludes electricity imports using renewable sources and nonmarketed renewable energy. See Table A17 for selected nonmarketed residential and commercial renewable energy.
⁴Includes non-biogenic municipal solid waste, liquid hydrogen, methanol, and some domestic inputs to refineries.
⁵Includes imports of finished petroleum products, unfinished oils, alcohols, ethers, blending components, and renewable fuels such as ethanol.
⁶Includes coal, coal coke (net), and electricity (net).
⁷Includes crude oil and petroleum products.
⁸Balancing item. Includes unaccounted for supply, losses, gains, and net storage withdrawals.
⁹Includes petroleum-derived fuels and non-petroleum derived fuels, such as ethanol and biodiesel. Petroleum coke, which is a solid, is included. Also included are natural gas plant liquids, crude oil consumed as a fuel, and hydrogen. Refer to Table A17 for detailed renewable liquid fuels consumption.
¹⁰Includes grid-connected electricity from wood and wood waste, non-electric energy from wood, and biofuels heat and coproducts used in the production of liquid fuels, but excludes the energy content of the liquid fuels.
¹¹Includes non-biogenic municipal solid waste and net electricity imports.
¹²Weighted average price delivered to U.S. refiners.
¹³Represents lower 48 onshore and offshore supplies.
¹⁴Includes reported prices for both open market and captive mines.
¹⁵Prices weighted by consumption; weighted average excludes residential and commercial prices, and export free-alongside-ship (f.a.s.) prices.
 Btu = British thermal unit.
 -- = Not applicable.
 Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.
Sources: 2006 natural gas supply values: Energy Information Administration (EIA), *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007). 2007 natural gas supply values and natural gas wellhead price: EIA, *Natural Gas Monthly*, DOE/EIA-0130(2008/08) (Washington, DC, August 2008). 2006 natural gas wellhead price: Minerals Management Service and EIA, *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007). 2006 and 2007 coal minemouth and delivered coal prices: EIA, *Annual Coal Report 2007*, DOE/EIA-0584(2007) (Washington, DC, September 2008). 2007 petroleum supply values and 2006 crude oil and lease condensate production: EIA, *Petroleum Supply Annual 2007*, DOE/EIA-0340(2007)/1 (Washington, DC, July 2008). Other 2006 petroleum supply values: EIA, *Petroleum Supply Annual 2006*, DOE/EIA-0340(2006)/1 (Washington, DC, September 2007). 2006 and 2007 low sulfur light crude oil price: EIA, Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report." Other 2006 and 2007 coal values: *Quarterly Coal Report, October-December 2007*, DOE/EIA-0121(2007/4Q) (Washington, DC, March 2008). Other 2006 and 2007 values: EIA, *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008).
Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Energy Consumption								
Residential								
Liquefied Petroleum Gases	0.49	0.50	0.49	0.48	0.49	0.50	0.52	0.2%
Kerosene	0.07	0.08	0.08	0.07	0.07	0.07	0.07	-0.5%
Distillate Fuel Oil	0.71	0.78	0.72	0.65	0.60	0.55	0.51	-1.8%
Liquid Fuels and Other Petroleum Subtotal .	1.27	1.35	1.29	1.19	1.16	1.13	1.10	-0.9%
Natural Gas	4.49	4.86	4.92	5.01	5.10	5.12	5.06	0.2%
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-0.8%
Renewable Energy ¹	0.39	0.43	0.43	0.46	0.48	0.49	0.50	0.7%
Electricity	4.61	4.75	4.80	4.85	5.11	5.39	5.69	0.8%
Delivered Energy	10.77	11.40	11.45	11.53	11.86	12.14	12.36	0.4%
Electricity Related Losses	10.00	10.36	10.44	10.35	10.80	11.16	11.64	0.5%
Total	20.77	21.76	21.90	21.87	22.66	23.30	24.00	0.4%
Commercial								
Liquefied Petroleum Gases	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.3%
Motor Gasoline ²	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.4%
Kerosene	0.02	0.01	0.01	0.01	0.01	0.01	0.01	1.4%
Distillate Fuel Oil	0.40	0.41	0.36	0.34	0.34	0.34	0.34	-0.7%
Residual Fuel Oil	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.2%
Liquid Fuels and Other Petroleum Subtotal .	0.63	0.63	0.58	0.58	0.58	0.59	0.59	-0.3%
Natural Gas	2.92	3.10	3.15	3.25	3.34	3.45	3.53	0.6%
Coal	0.07	0.07	0.06	0.06	0.06	0.06	0.06	-0.0%
Renewable Energy ³	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.0%
Electricity	4.43	4.58	4.76	5.14	5.57	5.95	6.31	1.4%
Delivered Energy	8.17	8.50	8.67	9.16	9.68	10.17	10.62	1.0%
Electricity Related Losses	9.62	9.99	10.35	10.95	11.76	12.30	12.92	1.1%
Total	17.79	18.49	19.02	20.11	21.44	22.47	23.53	1.1%
Industrial⁴								
Liquefied Petroleum Gases	2.33	2.35	2.02	1.96	1.78	1.72	1.66	-1.5%
Motor Gasoline ²	0.36	0.36	0.35	0.35	0.34	0.34	0.36	-0.1%
Distillate Fuel Oil	1.26	1.28	1.17	1.21	1.18	1.19	1.23	-0.1%
Residual Fuel Oil	0.24	0.25	0.15	0.16	0.16	0.16	0.16	-1.9%
Petrochemical Feedstocks	1.42	1.30	1.01	1.20	1.13	1.10	1.05	-0.9%
Other Petroleum ⁵	4.51	4.42	3.87	3.88	3.75	3.74	3.89	-0.6%
Liquid Fuels and Other Petroleum Subtotal .	10.13	9.96	8.57	8.76	8.34	8.25	8.35	-0.8%
Natural Gas	6.68	6.82	6.61	6.93	6.81	6.91	7.01	0.1%
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Lease and Plant Fuel ⁶	1.16	1.20	1.27	1.25	1.33	1.44	1.47	0.9%
Natural Gas Subtotal	7.83	8.02	7.88	8.18	8.14	8.35	8.47	0.2%
Metallurgical Coal	0.60	0.60	0.55	0.53	0.49	0.48	0.48	-1.0%
Other Industrial Coal	1.25	1.21	1.24	1.16	1.15	1.16	1.16	-0.2%
Coal-to-Liquids Heat and Power	0.00	0.00	0.00	0.13	0.24	0.40	0.58	32.7%
Net Coal Coke Imports	0.06	0.03	0.01	0.01	0.01	0.01	0.01	-3.6%
Coal Subtotal	1.92	1.83	1.81	1.83	1.89	2.05	2.23	0.9%
Biofuels Heat and Coproducts	0.36	0.43	0.75	0.95	1.22	1.63	1.66	6.0%
Renewable Energy ⁷	1.70	1.64	1.48	1.56	1.64	1.78	1.96	0.8%
Electricity	3.45	3.43	3.35	3.49	3.48	3.54	3.67	0.3%
Delivered Energy	25.38	25.32	23.83	24.76	24.72	25.60	26.34	0.2%
Electricity Related Losses	7.48	7.49	7.28	7.44	7.35	7.32	7.53	0.0%
Total	32.87	32.80	31.11	32.20	32.07	32.92	33.87	0.1%

Table A2. Energy Consumption by Sector and Source (Continued)
(Quadrillion Btu per Year, Unless Otherwise Noted)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Transportation								
Liquefied Petroleum Gases	0.02	0.02	0.01	0.01	0.01	0.01	0.02	-0.2%
E85 ⁸	0.00	0.00	0.00	0.34	0.84	1.74	2.22	37.2%
Motor Gasoline ²	17.22	17.29	16.97	16.33	15.61	14.68	14.37	-0.8%
Jet Fuel ⁹	3.22	3.23	3.01	3.15	3.42	3.74	4.12	1.1%
Distillate Fuel Oil ¹⁰	6.41	6.48	6.15	6.96	7.35	8.01	9.09	1.5%
Residual Fuel Oil	0.91	0.95	0.86	0.96	0.97	0.99	1.00	0.2%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.5%
Other Petroleum ¹¹	0.18	0.17	0.17	0.18	0.18	0.18	0.18	0.3%
Liquid Fuels and Other Petroleum Subtotal .	27.96	28.14	27.17	27.93	28.38	29.36	31.00	0.4%
Pipeline Fuel Natural Gas	0.60	0.64	0.64	0.65	0.69	0.73	0.72	0.5%
Compressed Natural Gas	0.02	0.02	0.03	0.05	0.07	0.08	0.09	5.8%
Electricity	0.02	0.02	0.02	0.03	0.03	0.04	0.05	3.6%
Delivered Energy	28.60	28.82	27.87	28.66	29.16	30.21	31.85	0.4%
Electricity Related Losses	0.05	0.05	0.05	0.06	0.07	0.08	0.10	3.3%
Total	28.65	28.87	27.92	28.72	29.23	30.30	31.95	0.4%
Delivered Energy Consumption for All Sectors								
Liquefied Petroleum Gases	2.93	2.95	2.62	2.55	2.38	2.34	2.29	-1.1%
E85 ⁸	0.00	0.00	0.00	0.34	0.84	1.74	2.22	37.2%
Motor Gasoline ²	17.62	17.70	17.36	16.72	16.00	15.07	14.77	-0.8%
Jet Fuel ⁹	3.22	3.23	3.01	3.15	3.42	3.74	4.12	1.1%
Kerosene	0.12	0.11	0.10	0.10	0.10	0.10	0.10	-0.2%
Distillate Fuel Oil	8.79	8.94	8.40	9.16	9.47	10.10	11.17	1.0%
Residual Fuel Oil	1.22	1.28	1.08	1.21	1.21	1.23	1.25	-0.1%
Petrochemical Feedstocks	1.42	1.30	1.01	1.20	1.13	1.10	1.05	-0.9%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.5%
Other Petroleum ¹²	4.66	4.57	4.02	4.04	3.91	3.91	4.06	-0.5%
Liquid Fuels and Other Petroleum Subtotal .	39.98	40.08	37.61	38.47	38.46	39.33	41.03	0.1%
Natural Gas	14.11	14.79	14.71	15.24	15.32	15.56	15.69	0.3%
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Lease and Plant Fuel ⁶	1.16	1.20	1.27	1.25	1.33	1.44	1.47	0.9%
Pipeline Natural Gas	0.60	0.64	0.64	0.65	0.69	0.73	0.72	0.5%
Natural Gas Subtotal	15.86	16.64	16.62	17.14	17.34	17.73	17.87	0.3%
Metallurgical Coal	0.60	0.60	0.55	0.53	0.49	0.48	0.48	-1.0%
Other Coal	1.33	1.28	1.31	1.24	1.22	1.23	1.23	-0.2%
Coal-to-Liquids Heat and Power	0.00	0.00	0.00	0.13	0.24	0.40	0.58	32.7%
Net Coal Coke Imports	0.06	0.03	0.01	0.01	0.01	0.01	0.01	-3.6%
Coal Subtotal	1.99	1.91	1.88	1.91	1.97	2.12	2.30	0.8%
Biofuels Heat and Coproducts	0.36	0.43	0.75	0.95	1.22	1.63	1.66	6.0%
Renewable Energy ¹³	2.21	2.19	2.03	2.14	2.24	2.39	2.58	0.7%
Electricity	12.52	12.79	12.93	13.51	14.20	14.92	15.72	0.9%
Delivered Energy	72.93	74.04	71.82	74.11	75.43	78.12	81.16	0.4%
Electricity Related Losses	27.15	27.88	28.13	28.79	29.98	30.87	32.19	0.6%
Total	100.08	101.92	99.95	102.91	105.41	108.99	113.35	0.5%
Electric Power¹⁴								
Distillate Fuel Oil	0.10	0.11	0.11	0.12	0.12	0.12	0.13	0.7%
Residual Fuel Oil	0.54	0.56	0.38	0.38	0.39	0.39	0.40	-1.5%
Liquid Fuels and Other Petroleum Subtotal .	0.65	0.67	0.49	0.50	0.51	0.52	0.53	-1.0%
Natural Gas	6.39	7.06	6.46	6.20	6.69	7.58	7.20	0.1%
Steam Coal	20.46	20.84	21.03	21.69	22.01	22.28	24.10	0.6%
Nuclear Power	8.21	8.41	8.45	8.68	9.00	9.05	9.44	0.5%
Renewable Energy ¹⁵	3.76	3.45	4.41	5.05	5.77	6.18	6.40	2.7%
Electricity Imports	0.06	0.11	0.08	0.06	0.07	0.06	0.10	-0.2%
Total¹⁶	39.67	40.67	41.06	42.30	44.18	45.79	47.90	0.7%

Table A2. Energy Consumption by Sector and Source (Continued)
(Quadrillion Btu per Year, Unless Otherwise Noted)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Total Energy Consumption								
Liquefied Petroleum Gases	2.93	2.95	2.62	2.55	2.38	2.34	2.29	-1.1%
E85 ⁸	0.00	0.00	0.00	0.34	0.84	1.74	2.22	37.2%
Motor Gasoline ²	17.62	17.70	17.36	16.72	16.00	15.07	14.77	-0.8%
Jet Fuel ⁹	3.22	3.23	3.01	3.15	3.42	3.74	4.12	1.1%
Kerosene	0.12	0.11	0.10	0.10	0.10	0.10	0.10	-0.2%
Distillate Fuel Oil	8.89	9.05	8.51	9.29	9.60	10.22	11.30	1.0%
Residual Fuel Oil	1.77	1.84	1.45	1.59	1.60	1.62	1.65	-0.5%
Petrochemical Feedstocks	1.42	1.30	1.01	1.20	1.13	1.10	1.05	-0.9%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.5%
Other Petroleum ¹²	4.66	4.57	4.02	4.04	3.91	3.91	4.06	-0.5%
Liquid Fuels and Other Petroleum Subtotal ..	40.63	40.75	38.10	38.97	38.97	39.84	41.56	0.1%
Natural Gas	20.50	21.86	21.18	21.44	22.01	23.14	22.90	0.2%
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Lease and Plant Fuel ⁶	1.16	1.20	1.27	1.25	1.33	1.44	1.47	0.9%
Pipeline Natural Gas	0.60	0.64	0.64	0.65	0.69	0.73	0.72	0.5%
Natural Gas Subtotal	22.26	23.70	23.09	23.34	24.03	25.31	25.08	0.2%
Metallurgical Coal	0.60	0.60	0.55	0.53	0.49	0.48	0.48	-1.0%
Other Coal	21.79	22.12	22.35	22.92	23.24	23.51	25.33	0.6%
Coal-to-Liquids Heat and Power	0.00	0.00	0.00	0.13	0.24	0.40	0.58	32.7%
Net Coal Coke Imports	0.06	0.03	0.01	0.01	0.01	0.01	0.01	-3.6%
Coal Subtotal	22.46	22.74	22.91	23.59	23.98	24.40	26.41	0.7%
Nuclear Power	8.21	8.41	8.45	8.68	9.00	9.05	9.44	0.5%
Biofuels Heat and Coproducts	0.36	0.43	0.75	0.95	1.22	1.63	1.66	6.0%
Renewable Energy ¹⁷	5.97	5.65	6.44	7.19	8.02	8.57	8.98	2.0%
Electricity Imports	0.06	0.11	0.08	0.06	0.07	0.06	0.10	-0.2%
Total	100.08	101.92	99.95	102.91	105.41	108.99	113.35	0.5%
Energy Use and Related Statistics								
Delivered Energy Use	72.93	74.04	71.82	74.11	75.43	78.12	81.16	0.4%
Total Energy Use	100.08	101.92	99.95	102.91	105.41	108.99	113.35	0.5%
Ethanol Consumed in Motor Gasoline and E85 ..	0.47	0.57	1.09	1.39	1.65	2.19	2.50	6.6%
Population (millions)	299.57	302.41	311.37	326.70	342.61	358.87	375.12	0.9%
Gross Domestic Product (billion 2000 dollars) ..	11295	11524	11793	13724	15511	17584	20112	2.5%
Carbon Dioxide Emissions (million metric tons) ..	5906.8	5990.8	5819.1	5913.2	5992.9	6129.9	6410.2	0.3%

¹Includes wood used for residential heating. See Table A4 and/or Table A17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

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

³Excludes ethanol. Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power. See Table A5 and/or Table A17 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.

⁴Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

⁵Includes petroleum coke, asphalt, road oil, lubricants, still gas, tire-derived fuel, and miscellaneous petroleum products.

⁶Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

⁷Includes consumption of energy produced from hydroelectric, wood and wood waste, municipal solid waste, and other biomass sources. Excludes ethanol blends (10 percent or less) in motor gasoline.

⁸E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

⁹Includes only kerosene type.

¹⁰Diesel fuel for on- and off- road use.

¹¹Includes aviation gasoline and lubricants.

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

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

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

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

¹⁶Includes non-biogenic municipal waste not included above.

¹⁷Includes conventional hydroelectric, geothermal, wood and wood waste, biogenic municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes petroleum coke used in the electric power sector. Excludes 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.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 2006 and 2007 consumption based on: Energy Information Administration (EIA), *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008). 2006 and 2007 population and gross domestic product: IHS Global Insight Industry and Employment models November 2008. 2006 and 2007 carbon dioxide emissions: EIA, *Emissions of Greenhouse Gases in the United States 2007*, DOE/EIA-0573(2007) (Washington, DC, December 2008). Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A3. Energy Prices by Sector and Source
(2007 Dollars per Million Btu, Unless Otherwise Noted)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Residential								
Liquefied Petroleum Gases	23.88	24.98	24.79	32.03	32.52	33.39	34.92	1.5%
Distillate Fuel Oil	18.46	19.66	17.74	23.46	24.12	24.97	26.71	1.3%
Natural Gas	13.70	12.69	11.96	11.97	12.50	13.05	14.33	0.5%
Electricity	31.21	31.19	30.75	31.76	32.70	34.06	35.90	0.6%
Commercial								
Liquefied Petroleum Gases	21.20	23.04	21.61	28.80	29.24	30.08	31.58	1.4%
Distillate Fuel Oil	15.02	16.05	15.22	21.50	22.06	22.93	24.70	1.9%
Residual Fuel Oil	8.88	10.21	10.34	16.01	16.66	17.05	17.99	2.5%
Natural Gas	11.90	10.99	10.42	10.55	11.13	11.72	12.97	0.7%
Electricity	28.38	28.07	27.14	27.11	28.12	29.25	31.10	0.4%
Industrial¹								
Liquefied Petroleum Gases	21.04	23.38	20.77	28.00	28.44	29.30	30.80	1.2%
Distillate Fuel Oil	15.74	16.82	15.09	22.07	22.47	23.37	25.17	1.8%
Residual Fuel Oil	9.21	10.49	14.60	20.33	20.82	21.44	22.79	3.4%
Natural Gas ²	7.96	7.52	6.79	7.00	7.48	7.98	9.07	0.8%
Metallurgical Coal	3.64	3.61	4.35	4.39	4.40	4.55	4.42	0.9%
Other Industrial Coal	2.40	2.43	2.52	2.59	2.54	2.58	2.66	0.4%
Coal to Liquids	--	--	--	1.22	1.24	1.33	1.37	--
Electricity	18.41	18.63	18.61	18.30	19.04	20.08	21.66	0.7%
Transportation								
Liquefied Petroleum Gases ³	22.30	25.01	24.60	31.83	32.26	33.08	34.58	1.4%
E85 ⁴	25.51	26.67	24.39	25.17	29.11	29.75	30.10	0.5%
Motor Gasoline ⁵	21.78	22.98	22.49	28.61	29.54	30.76	32.20	1.5%
Jet Fuel ⁶	15.24	16.10	15.07	21.20	21.89	22.76	24.54	1.8%
Diesel Fuel (distillate fuel oil) ⁷	20.27	20.92	19.13	25.74	25.95	26.80	28.55	1.4%
Residual Fuel Oil	8.21	9.35	11.08	16.96	17.25	18.18	19.68	3.3%
Natural Gas ⁸	16.04	15.46	14.78	14.70	14.90	15.26	16.26	0.2%
Electricity	30.39	30.64	30.19	30.23	29.45	31.56	34.16	0.5%
Electric Power⁹								
Distillate Fuel Oil	13.77	14.77	14.16	19.85	20.54	21.39	23.16	2.0%
Residual Fuel Oil	8.38	8.38	12.32	18.06	18.42	19.27	20.70	4.0%
Natural Gas	7.05	7.02	6.47	6.70	7.15	7.73	8.70	0.9%
Steam Coal	1.74	1.77	1.88	1.95	1.92	1.96	2.04	0.6%
Average Price to All Users¹⁰								
Liquefied Petroleum Gases	15.66	18.53	19.97	26.66	27.23	28.09	29.61	2.1%
E85 ⁴	25.51	26.67	24.39	25.17	29.11	29.75	30.10	0.5%
Motor Gasoline ⁵	21.65	22.82	22.49	28.61	29.54	30.76	32.20	1.5%
Jet Fuel	15.24	16.10	15.07	21.20	21.89	22.76	24.54	1.8%
Distillate Fuel Oil	19.17	19.94	18.06	24.86	25.20	26.10	27.92	1.5%
Residual Fuel Oil	8.42	9.25	11.72	17.52	17.85	18.70	20.14	3.4%
Natural Gas	9.50	9.01	8.45	8.63	9.12	9.60	10.74	0.8%
Metallurgical Coal	3.64	3.61	4.35	4.39	4.40	4.55	4.42	0.9%
Other Coal	1.78	1.81	1.92	1.98	1.95	2.00	2.07	0.6%
Coal to Liquids	--	--	--	1.22	1.24	1.33	1.37	--
Electricity	26.68	26.70	26.28	26.51	27.55	28.82	30.64	0.6%
Non-Renewable Energy Expenditures by Sector (billion 2007 dollars)								
Residential	231.09	238.38	232.97	246.31	263.11	282.93	310.27	1.2%
Commercial	170.28	173.09	171.46	186.88	207.46	228.57	257.16	1.7%
Industrial	216.13	226.84	196.44	241.53	240.45	252.34	275.68	0.9%
Transportation	564.63	596.75	555.80	733.85	748.34	775.06	849.28	1.5%
Total Non-Renewable Expenditures	1182.13	1235.06	1156.66	1408.58	1459.35	1538.91	1692.41	1.4%
Transportation Renewable Expenditures	0.03	0.04	0.06	8.54	24.35	51.83	66.83	38.0%
Total Expenditures	1182.16	1235.10	1156.72	1417.12	1483.70	1590.74	1759.23	1.5%

Table A3. Energy Prices by Sector and Source (Continued)
(Nominal Dollars per Million Btu, Unless Otherwise Noted)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Residential								
Liquefied Petroleum Gases	23.26	24.98	26.10	37.06	41.98	46.06	50.62	3.1%
Distillate Fuel Oil	17.98	19.66	18.68	27.14	31.15	34.44	38.72	3.0%
Natural Gas	13.34	12.69	12.59	13.85	16.14	18.00	20.77	2.2%
Electricity	30.39	31.19	32.38	36.75	42.22	46.98	52.04	2.3%
Commercial								
Liquefied Petroleum Gases	20.64	23.04	22.76	33.32	37.75	41.49	45.77	3.0%
Distillate Fuel Oil	14.63	16.05	16.02	24.87	28.48	31.62	35.80	3.5%
Residual Fuel Oil	8.65	10.21	10.88	18.53	21.51	23.52	26.08	4.2%
Natural Gas	11.58	10.99	10.97	12.21	14.37	16.17	18.80	2.4%
Electricity	27.63	28.07	28.58	31.37	36.31	40.34	45.08	2.1%
Industrial¹								
Liquefied Petroleum Gases	20.49	23.38	21.87	32.39	36.72	40.42	44.65	2.9%
Distillate Fuel Oil	15.32	16.82	15.89	25.54	29.01	32.23	36.49	3.4%
Residual Fuel Oil	8.97	10.49	15.37	23.53	26.89	29.57	33.03	5.1%
Natural Gas ²	7.75	7.52	7.15	8.10	9.66	11.00	13.15	2.5%
Metallurgical Coal	3.54	3.61	4.58	5.08	5.68	6.28	6.40	2.5%
Other Industrial Coal	2.34	2.43	2.66	3.00	3.28	3.56	3.86	2.0%
Coal to Liquids	0.00	0.00	0.00	1.41	1.59	1.83	1.99	--
Electricity	17.93	18.63	19.60	21.18	24.59	27.70	31.40	2.3%
Transportation								
Liquefied Petroleum Gases ³	21.71	25.01	25.90	36.83	41.65	45.63	50.12	3.1%
E85 ⁴	24.84	26.67	25.68	29.12	37.59	41.04	43.63	2.2%
Motor Gasoline ⁵	21.21	22.98	23.68	33.10	38.14	42.43	46.67	3.1%
Jet Fuel ⁶	14.84	16.10	15.87	24.53	28.27	31.39	35.57	3.5%
Diesel Fuel (distillate fuel oil) ⁷	19.74	20.92	20.14	29.78	33.51	36.97	41.39	3.0%
Residual Fuel Oil	7.99	9.35	11.66	19.62	22.28	25.08	28.52	5.0%
Natural Gas ⁸	15.62	15.46	15.56	17.01	19.24	21.04	23.57	1.9%
Electricity	29.59	30.64	31.79	34.98	38.02	43.54	49.52	2.1%
Electric Power⁹								
Distillate Fuel Oil	13.41	14.77	14.91	22.97	26.52	29.51	33.58	3.6%
Residual Fuel Oil	8.16	8.38	12.97	20.90	23.78	26.58	30.00	5.7%
Natural Gas	6.87	7.02	6.81	7.75	9.23	10.66	12.60	2.6%
Steam Coal	1.69	1.77	1.98	2.25	2.48	2.71	2.96	2.3%

Table A3. Energy Prices by Sector and Source (Continued)
(Nominal Dollars per Million Btu, Unless Otherwise Noted)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Average Price to All Users¹⁰								
Liquefied Petroleum Gases	15.25	18.53	21.02	30.85	35.16	38.74	42.92	3.7%
E85 ⁴	24.84	26.67	25.68	29.12	37.59	41.04	43.63	2.2%
Motor Gasoline ⁵	21.08	22.82	23.68	33.10	38.14	42.43	46.67	3.2%
Jet Fuel	14.84	16.10	15.87	24.53	28.27	31.39	35.57	3.5%
Distillate Fuel Oil	18.67	19.94	19.02	28.77	32.54	36.00	40.47	3.1%
Residual Fuel Oil	8.20	9.25	12.34	20.27	23.05	25.80	29.20	5.1%
Natural Gas	9.25	9.01	8.89	9.99	11.77	13.24	15.58	2.4%
Metallurgical Coal	3.54	3.61	4.58	5.08	5.68	6.28	6.40	2.5%
Other Coal	1.73	1.81	2.02	2.29	2.52	2.75	3.00	2.2%
Coal to Liquids	--	--	--	1.41	1.59	1.83	1.99	--
Electricity	25.98	26.70	27.67	30.68	35.57	39.75	44.42	2.2%
Non-Renewable Energy Expenditures by Sector (billion nominal dollars)								
Residential	225.03	238.38	245.30	285.00	339.72	390.25	449.75	2.8%
Commercial	165.81	173.09	180.53	216.24	267.87	315.27	372.77	3.4%
Industrial	210.46	226.84	206.83	279.47	310.46	348.06	399.61	2.5%
Transportation	549.82	596.75	585.21	849.12	966.24	1069.06	1231.06	3.2%
Total Non-Renewable Expenditures	1151.12	1235.06	1217.87	1629.82	1884.29	2122.64	2453.20	3.0%
Transportation Renewable Expenditures	0.03	0.04	0.07	9.88	31.44	71.49	96.87	40.2%
Total Expenditures	1151.15	1235.10	1217.94	1639.71	1915.73	2194.13	2550.06	3.2%

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

²Excludes use for lease and plant fuel.

³Includes Federal and State taxes while excluding county and local taxes.

⁴E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

⁵Sales weighted-average price for all grades. Includes Federal, State and local taxes.

⁶Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.

⁷Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.

⁸Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.

⁹Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

¹⁰Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

-- = Not applicable.

Note: Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 prices for motor gasoline, distillate fuel oil, and jet fuel are based on prices in the Energy Information Administration (EIA), *Petroleum Marketing Annual 2007*, DOE/EIA-0487(2007) (Washington, DC, August 2008). 2006 residential and commercial natural gas delivered prices: EIA, *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007). 2007 residential and commercial natural gas delivered prices: EIA, *Natural Gas Monthly*, DOE/EIA-0130(2008/08) (Washington, DC, August 2008). 2006 and 2007 industrial natural gas delivered prices are estimated based on: EIA, *Manufacturing Energy Consumption Survey 1994* and industrial and wellhead prices from the *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007) and the *Natural Gas Monthly*, DOE/EIA-0130(2008/08) (Washington, DC, August 2008). 2006 transportation sector natural gas delivered prices are based on: EIA, *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007) and estimated state taxes, federal taxes, and dispensing costs or charges. 2007 transportation sector natural gas delivered prices are model results. 2006 and 2007 electric power sector natural gas prices: EIA, *Electric Power Monthly*, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2006 and 2007 coal prices based on: EIA, *Quarterly Coal Report, October-December 2007*, DOE/EIA-0121(2007/4Q) (Washington, DC, March 2008) and EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B. 2006 and 2007 electricity prices: EIA, *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008). 2006 and 2007 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. **Projections:** EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A4. Residential Sector Key Indicators and Consumption
(Quadrillion Btu per Year, Unless Otherwise Noted)

Key Indicators and Consumption	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Key Indicators								
Households (millions)								
Single-Family	80.80	81.74	83.61	88.69	93.63	97.66	101.56	0.9%
Multifamily	24.81	25.15	25.97	27.38	29.16	30.73	32.47	1.1%
Mobile Homes	6.89	6.85	6.73	6.74	6.96	7.03	7.10	0.2%
Total	112.50	113.74	116.32	122.82	129.75	135.41	141.13	0.9%
Average House Square Footage	1648	1663	1701	1772	1834	1887	1934	0.7%
Energy Intensity								
(million Btu per household)								
Delivered Energy Consumption	95.7	100.2	98.5	93.9	91.4	89.6	87.6	-0.6%
Total Energy Consumption	184.6	191.3	188.3	178.1	174.7	172.1	170.1	-0.5%
(thousand Btu per square foot)								
Delivered Energy Consumption	58.1	60.3	57.9	53.0	49.8	47.5	45.3	-1.2%
Total Energy Consumption	112.0	115.0	110.7	100.5	95.2	91.2	87.9	-1.2%
Delivered Energy Consumption by Fuel								
Electricity								
Space Heating	0.26	0.28	0.29	0.30	0.31	0.31	0.31	0.4%
Space Cooling	0.84	0.89	0.86	0.90	0.97	1.03	1.09	0.9%
Water Heating	0.42	0.42	0.42	0.44	0.48	0.50	0.50	0.8%
Refrigeration	0.39	0.39	0.37	0.37	0.39	0.40	0.42	0.4%
Cooking	0.10	0.11	0.11	0.12	0.13	0.13	0.14	1.3%
Clothes Dryers	0.27	0.27	0.27	0.28	0.29	0.30	0.32	0.7%
Freezers	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.4%
Lighting	0.74	0.73	0.72	0.59	0.55	0.53	0.52	-1.5%
Clothes Washers ¹	0.04	0.03	0.03	0.03	0.03	0.03	0.03	-0.9%
Dishwashers ¹	0.10	0.10	0.09	0.10	0.10	0.11	0.12	0.8%
Color Televisions and Set-Top Boxes	0.34	0.36	0.40	0.41	0.44	0.49	0.56	1.9%
Personal Computers and Related Equipment	0.14	0.15	0.18	0.19	0.20	0.21	0.23	1.7%
Furnace Fans and Boiler Circulation Pumps	0.11	0.13	0.13	0.14	0.15	0.16	0.16	1.1%
Other Uses ²	0.78	0.82	0.85	0.92	1.01	1.10	1.19	1.7%
Delivered Energy	4.61	4.75	4.80	4.85	5.11	5.39	5.69	0.8%
Natural Gas								
Space Heating	2.85	3.21	3.28	3.34	3.39	3.42	3.40	0.3%
Space Cooling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Water Heating	1.35	1.35	1.35	1.37	1.40	1.39	1.35	-0.0%
Cooking	0.22	0.22	0.22	0.23	0.24	0.25	0.26	0.7%
Clothes Dryers	0.07	0.07	0.07	0.07	0.06	0.06	0.06	-0.9%
Delivered Energy	4.49	4.86	4.92	5.01	5.10	5.12	5.06	0.2%
Distillate Fuel Oil								
Space Heating	0.59	0.66	0.62	0.57	0.53	0.50	0.46	-1.6%
Water Heating	0.12	0.12	0.10	0.08	0.06	0.06	0.05	-3.7%
Delivered Energy	0.71	0.78	0.72	0.65	0.60	0.55	0.51	-1.8%
Liquefied Petroleum Gases								
Space Heating	0.20	0.22	0.21	0.20	0.20	0.20	0.19	-0.6%
Water Heating	0.10	0.09	0.08	0.06	0.06	0.05	0.05	-2.5%
Cooking	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.6%
Other Uses ³	0.15	0.15	0.16	0.18	0.20	0.22	0.24	1.9%
Delivered Energy	0.49	0.50	0.49	0.48	0.49	0.50	0.52	0.2%
Marketed Renewables (wood) ⁴	0.39	0.43	0.43	0.46	0.48	0.49	0.50	0.7%
Other Fuels ⁵	0.08	0.09	0.09	0.08	0.08	0.08	0.08	-0.5%

Table A4. Residential Sector Key Indicators and Consumption (Continued)
(Quadrillion Btu per Year, Unless Otherwise Noted)

Key Indicators and Consumption	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Delivered Energy Consumption by End Use								
Space Heating	4.37	4.89	4.91	4.95	4.99	4.99	4.95	0.1%
Space Cooling	0.84	0.89	0.86	0.90	0.97	1.03	1.09	0.9%
Water Heating	1.99	1.98	1.95	1.95	2.00	2.00	1.95	-0.1%
Refrigeration	0.39	0.39	0.37	0.37	0.39	0.40	0.42	0.4%
Cooking	0.35	0.36	0.37	0.38	0.41	0.42	0.43	0.9%
Clothes Dryers	0.34	0.34	0.34	0.34	0.35	0.36	0.38	0.4%
Freezers	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.4%
Lighting	0.74	0.73	0.72	0.59	0.55	0.53	0.52	-1.5%
Clothes Washers ¹	0.04	0.03	0.03	0.03	0.03	0.03	0.03	-0.9%
Dishwashers ¹	0.10	0.10	0.09	0.10	0.10	0.11	0.12	0.8%
Color Televisions and Set-Top Boxes	0.34	0.36	0.40	0.41	0.44	0.49	0.56	1.9%
Personal Computers and Related Equipment	0.14	0.15	0.18	0.19	0.20	0.21	0.23	1.7%
Furnace Fans and Boiler Circulation Pumps	0.11	0.13	0.13	0.14	0.15	0.16	0.16	1.1%
Other Uses ⁶	0.94	0.97	1.01	1.09	1.20	1.32	1.43	1.7%
Delivered Energy	10.77	11.40	11.45	11.53	11.86	12.14	12.36	0.4%
Electricity Related Losses	10.00	10.36	10.44	10.35	10.80	11.16	11.64	0.5%
Total Energy Consumption by End Use								
Space Heating	4.94	5.51	5.54	5.58	5.64	5.63	5.58	0.1%
Space Cooling	2.65	2.82	2.73	2.82	3.00	3.17	3.34	0.7%
Water Heating	2.89	2.90	2.87	2.89	3.01	3.05	2.97	0.1%
Refrigeration	1.24	1.23	1.18	1.16	1.20	1.23	1.29	0.2%
Cooking	0.58	0.59	0.60	0.63	0.67	0.70	0.72	0.9%
Clothes Dryers	0.92	0.92	0.92	0.94	0.96	0.98	1.02	0.5%
Freezers	0.26	0.26	0.25	0.25	0.26	0.27	0.27	0.2%
Lighting	2.35	2.33	2.27	1.85	1.73	1.62	1.59	-1.6%
Clothes Washers ¹	0.11	0.11	0.10	0.09	0.08	0.08	0.09	-1.1%
Dishwashers ¹	0.30	0.30	0.30	0.30	0.32	0.33	0.35	0.7%
Color Televisions and Set-Top Boxes	1.07	1.15	1.28	1.29	1.37	1.51	1.71	1.7%
Personal Computers and Related Equipment	0.45	0.49	0.58	0.58	0.61	0.65	0.69	1.5%
Furnace Fans and Boiler Circulation Pumps	0.36	0.41	0.42	0.44	0.47	0.49	0.50	0.9%
Other Uses ⁶	2.63	2.75	2.85	3.04	3.33	3.60	3.87	1.5%
Total	20.77	21.76	21.90	21.87	22.66	23.30	24.00	0.4%
Nonmarketed Renewables⁷								
Geothermal Heat Pumps	0.00	0.00	0.00	0.01	0.01	0.02	0.02	9.0%
Solar Hot Water Heating	0.02	0.02	0.02	0.02	0.02	0.03	0.03	2.6%
Solar Photovoltaic	0.00	0.00	0.01	0.03	0.05	0.05	0.05	25.2%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Total	0.02	0.02	0.03	0.07	0.09	0.09	0.10	7.6%

¹Does not include water heating portion of load.

²Includes small electric devices, heating elements, and motors not listed above.

³Includes such appliances as outdoor grills and mosquito traps.

⁴Includes wood used for primary and secondary heating in wood stoves or fireplaces as reported in the *Residential Energy Consumption Survey 2004*.

⁵Includes kerosene and coal.

⁶Includes all other uses listed above.

⁷Represents delivered energy displaced.

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 based on: Energy Information Administration (EIA), *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008).

Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A5. Commercial Sector Key Indicators and Consumption
(Quadrillion Btu per Year, Unless Otherwise Noted)

Key Indicators and Consumption	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Key Indicators								
Total Floorspace (billion square feet)								
Surviving	73.7	75.2	79.5	84.2	90.3	95.6	101.2	1.3%
New Additions	2.1	2.1	1.7	1.9	1.9	1.9	2.1	-0.1%
Total	75.8	77.3	81.2	86.1	92.2	97.5	103.3	1.3%
Energy Consumption Intensity (thousand Btu per square foot)								
Delivered Energy Consumption	107.9	110.0	106.8	106.3	105.0	104.3	102.8	-0.3%
Electricity Related Losses	126.9	129.3	127.5	127.2	127.5	126.2	125.1	-0.1%
Total Energy Consumption	234.8	239.3	234.3	233.5	232.5	230.5	227.9	-0.2%
Delivered Energy Consumption by Fuel								
Purchased Electricity								
Space Heating ¹	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.2%
Space Cooling ¹	0.53	0.56	0.55	0.57	0.60	0.62	0.65	0.7%
Water Heating ¹	0.10	0.10	0.09	0.10	0.10	0.10	0.10	-0.1%
Ventilation	0.48	0.49	0.53	0.59	0.64	0.68	0.71	1.6%
Cooking	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-0.1%
Lighting	1.08	1.07	1.06	1.10	1.15	1.19	1.21	0.5%
Refrigeration	0.40	0.40	0.40	0.38	0.38	0.39	0.40	-0.0%
Office Equipment (PC)	0.21	0.24	0.25	0.27	0.29	0.32	0.34	1.5%
Office Equipment (non-PC)	0.19	0.21	0.26	0.32	0.38	0.41	0.43	3.2%
Other Uses ²	1.27	1.31	1.43	1.61	1.83	2.04	2.26	2.4%
Delivered Energy	4.43	4.58	4.76	5.14	5.57	5.95	6.31	1.4%
Natural Gas								
Space Heating ¹	1.35	1.45	1.50	1.54	1.56	1.56	1.53	0.2%
Space Cooling ¹	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-0.2%
Water Heating ¹	0.44	0.44	0.44	0.48	0.51	0.54	0.55	1.0%
Cooking	0.16	0.16	0.18	0.19	0.20	0.21	0.22	1.2%
Other Uses ³	0.94	1.00	0.99	1.01	1.04	1.10	1.19	0.7%
Delivered Energy	2.92	3.10	3.15	3.25	3.34	3.45	3.53	0.6%
Distillate Fuel Oil								
Space Heating ¹	0.15	0.17	0.16	0.15	0.15	0.15	0.15	-0.5%
Water Heating ¹	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.9%
Other Uses ⁴	0.22	0.22	0.18	0.17	0.17	0.17	0.17	-1.2%
Delivered Energy	0.40	0.41	0.36	0.34	0.34	0.34	0.34	-0.7%
Marketed Renewables (biomass)	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.0%
Other Fuels ⁵	0.29	0.29	0.28	0.30	0.30	0.31	0.31	0.3%
Delivered Energy Consumption by End Use								
Space Heating ¹	1.66	1.79	1.83	1.86	1.89	1.89	1.86	0.2%
Space Cooling ¹	0.57	0.59	0.58	0.61	0.63	0.66	0.69	0.6%
Water Heating ¹	0.56	0.56	0.55	0.59	0.63	0.66	0.68	0.9%
Ventilation	0.48	0.49	0.53	0.59	0.64	0.68	0.71	1.6%
Cooking	0.18	0.19	0.20	0.21	0.22	0.23	0.24	1.1%
Lighting	1.08	1.07	1.06	1.10	1.15	1.19	1.21	0.5%
Refrigeration	0.40	0.40	0.40	0.38	0.38	0.39	0.40	-0.0%
Office Equipment (PC)	0.21	0.24	0.25	0.27	0.29	0.32	0.34	1.5%
Office Equipment (non-PC)	0.19	0.21	0.26	0.32	0.38	0.41	0.43	3.2%
Other Uses ⁶	2.84	2.95	3.01	3.22	3.47	3.74	4.06	1.4%
Delivered Energy	8.17	8.50	8.67	9.16	9.68	10.17	10.62	1.0%

Table A5. Commercial Sector Key Indicators and Consumption (Continued)
(Quadrillion Btu per Year, Unless Otherwise Noted)

Key Indicators and Consumption	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Electricity Related Losses	9.62	9.99	10.35	10.95	11.76	12.30	12.92	1.1%
Total Energy Consumption by End Use								
Space Heating ¹	2.01	2.16	2.20	2.24	2.27	2.26	2.22	0.1%
Space Cooling ¹	1.73	1.80	1.77	1.82	1.89	1.95	2.02	0.5%
Water Heating ¹	0.77	0.77	0.76	0.80	0.83	0.86	0.87	0.5%
Ventilation	1.51	1.57	1.68	1.86	2.01	2.10	2.16	1.4%
Cooking	0.24	0.24	0.25	0.26	0.27	0.28	0.29	0.8%
Lighting	3.41	3.41	3.36	3.44	3.58	3.64	3.70	0.4%
Refrigeration	1.26	1.28	1.26	1.18	1.18	1.19	1.22	-0.2%
Office Equipment (PC)	0.68	0.77	0.80	0.85	0.91	0.98	1.03	1.3%
Office Equipment (non-PC)	0.61	0.67	0.82	1.01	1.18	1.26	1.32	3.0%
Other Uses ⁶	5.59	5.82	6.11	6.66	7.32	7.95	8.70	1.8%
Total	17.79	18.49	19.02	20.11	21.44	22.47	23.53	1.1%
Nonmarketed Renewable Fuels⁷								
Solar Thermal	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.5%
Solar Photovoltaic	0.00	0.00	0.00	0.01	0.01	0.01	0.01	8.4%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.4%
Total	0.03	0.03	0.03	0.03	0.03	0.04	0.04	2.0%

¹Includes fuel consumption for district services.

²Includes miscellaneous uses, such as service station equipment, automated teller machines, telecommunications equipment, and medical equipment.

³Includes miscellaneous uses, such as pumps, emergency generators, combined heat and power in commercial buildings, and manufacturing performed in commercial buildings.

⁴Includes miscellaneous uses, such as cooking, emergency generators, and combined heat and power in commercial buildings.

⁵Includes residual fuel oil, liquefied petroleum gases, coal, motor gasoline, and kerosene.

⁶Includes miscellaneous uses, such as service station equipment, automated teller machines, telecommunications equipment, medical equipment, pumps, emergency generators, combined heat and power in commercial buildings, manufacturing performed in commercial buildings, and cooking (distillate), plus residual fuel oil, liquefied petroleum gases, coal, motor gasoline, and kerosene.

⁷Represents delivered energy displaced by solar thermal space heating and water heating, and electricity generation by solar photovoltaic systems.

Btu = British thermal unit.

PC = Personal computer.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 based on: Energy Information Administration (EIA), *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008).

Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A6. Industrial Sector Key Indicators and Consumption

Key Indicators and Consumption	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Key Indicators								
Value of Shipments (billion 2000 dollars)								
Manufacturing	4260	4261	3979	4687	5151	5729	6670	2.0%
Nonmanufacturing	1503	1490	1277	1575	1600	1669	1780	0.8%
Total	5763	5750	5256	6262	6752	7398	8451	1.7%
Energy Prices (2007 dollars per million Btu)								
Liquefied Petroleum Gases	21.04	23.38	20.77	28.00	28.44	29.30	30.80	1.2%
Motor Gasoline	15.92	15.93	22.43	28.50	29.44	30.68	32.15	3.1%
Distillate Fuel Oil	15.74	16.82	15.09	22.07	22.47	23.37	25.17	1.8%
Residual Fuel Oil	9.21	10.49	14.60	20.33	20.82	21.44	22.79	3.4%
Petrochemical Feedstocks	9.26	12.60	11.11	16.67	17.49	18.27	19.14	1.8%
Asphalt and Road Oil	4.75	5.36	5.92	9.25	9.40	9.90	10.70	3.1%
Natural Gas Heat and Power	6.94	6.59	5.88	6.15	6.65	7.16	8.30	1.0%
Natural Gas Feedstocks	8.71	8.24	7.58	7.78	8.26	8.75	9.83	0.8%
Metallurgical Coal	3.64	3.61	4.35	4.39	4.40	4.55	4.42	0.9%
Other Industrial Coal	2.40	2.43	2.52	2.59	2.54	2.58	2.66	0.4%
Coal to Liquids	--	--	--	1.22	1.24	1.33	1.37	--
Electricity	18.41	18.63	18.61	18.30	19.04	20.08	21.66	0.7%
(nominal dollars per million Btu)								
Liquefied Petroleum Gases	20.49	23.38	21.87	32.39	36.72	40.42	44.65	2.9%
Motor Gasoline	15.51	15.93	23.61	32.98	38.01	42.32	46.60	4.8%
Distillate Fuel Oil	15.32	16.82	15.89	25.54	29.01	32.23	36.49	3.4%
Residual Fuel Oil	8.97	10.49	15.37	23.53	26.89	29.57	33.03	5.1%
Petrochemical Feedstocks	9.02	12.60	11.70	19.28	22.58	25.20	27.74	3.5%
Asphalt and Road Oil	4.63	5.36	6.23	10.70	12.14	13.65	15.50	4.7%
Natural Gas Heat and Power	6.76	6.59	6.19	7.11	8.59	9.87	12.03	2.7%
Natural Gas Feedstocks	8.48	8.24	7.99	9.01	10.66	12.07	14.25	2.4%
Metallurgical Coal	3.54	3.61	4.58	5.08	5.68	6.28	6.40	2.5%
Other Industrial Coal	2.34	2.43	2.66	3.00	3.28	3.56	3.86	2.0%
Coal to Liquids	--	--	--	1.41	1.59	1.83	1.99	--
Electricity	17.93	18.63	19.60	21.18	24.59	27.70	31.40	2.3%
Energy Consumption (quadrillion Btu)¹								
Industrial Consumption Excluding Refining								
Liquefied Petroleum Gases Heat and Power ..	0.17	0.18	0.16	0.16	0.15	0.15	0.16	-0.6%
Liquefied Petroleum Gases Feedstocks	2.16	2.16	1.84	1.79	1.61	1.57	1.50	-1.6%
Motor Gasoline	0.36	0.36	0.35	0.35	0.34	0.34	0.36	-0.1%
Distillate Fuel Oil	1.26	1.27	1.17	1.21	1.18	1.19	1.23	-0.1%
Residual Fuel Oil	0.23	0.24	0.15	0.16	0.16	0.16	0.16	-1.7%
Petrochemical Feedstocks	1.42	1.30	1.01	1.20	1.13	1.10	1.05	-0.9%
Petroleum Coke	0.36	0.36	0.23	0.29	0.29	0.29	0.31	-0.6%
Asphalt and Road Oil	1.26	1.19	0.97	1.15	1.08	1.07	1.12	-0.3%
Miscellaneous Petroleum ²	0.59	0.62	0.32	0.23	0.21	0.21	0.21	-4.6%
Petroleum Subtotal	7.81	7.68	6.18	6.54	6.15	6.08	6.10	-1.0%
Natural Gas Heat and Power	4.99	5.14	4.97	5.00	4.86	4.98	5.11	-0.0%
Natural Gas Feedstocks	0.58	0.55	0.51	0.52	0.50	0.49	0.44	-0.9%
Lease and Plant Fuel ³	1.16	1.20	1.27	1.25	1.33	1.44	1.47	0.9%
Natural Gas Subtotal	6.73	6.89	6.75	6.77	6.69	6.91	7.02	0.1%
Metallurgical Coal and Coke ⁴	0.66	0.62	0.57	0.54	0.50	0.49	0.49	-1.1%
Other Industrial Coal	1.19	1.15	1.18	1.10	1.09	1.10	1.10	-0.2%
Coal Subtotal	1.86	1.77	1.75	1.65	1.59	1.59	1.59	-0.5%
Renewables ⁵	1.70	1.64	1.48	1.56	1.64	1.78	1.96	0.8%
Purchased Electricity	3.30	3.27	3.16	3.28	3.27	3.32	3.45	0.2%
Delivered Energy	21.39	21.26	19.32	19.80	19.34	19.68	20.11	-0.2%
Electricity Related Losses	7.16	7.13	6.88	6.99	6.90	6.87	7.07	-0.0%
Total	28.55	28.40	26.19	26.79	26.24	26.55	27.18	-0.2%

Table A6. Industrial Sector Key Indicators and Consumption (Continued)

Key Indicators and Consumption	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Refining Consumption								
Liquefied Petroleum Gases Heat and Power	0.01	0.01	0.03	0.01	0.01	0.00	0.00	--
Distillate Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Residual Fuel Oil	0.01	0.01	0.00	0.00	0.00	0.00	0.00	--
Petroleum Coke	0.57	0.55	0.55	0.54	0.53	0.52	0.54	-0.1%
Still Gas	1.69	1.68	1.80	1.66	1.64	1.65	1.71	0.1%
Miscellaneous Petroleum ²	0.04	0.02	0.01	0.01	0.01	0.01	0.01	-4.8%
Petroleum Subtotal	2.32	2.27	2.39	2.22	2.19	2.17	2.25	-0.0%
Natural Gas Heat and Power	1.10	1.13	0.65	0.73	0.80	0.75	0.69	-2.1%
Natural Gas Feedstocks	0.00	0.00	0.48	0.68	0.65	0.69	0.76	--
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Subtotal	1.10	1.13	1.13	1.41	1.45	1.44	1.45	1.1%
Other Industrial Coal	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-0.2%
Coal-to-Liquids Heat and Power	0.00	0.00	0.00	0.13	0.24	0.40	0.58	--
Coal Subtotal	0.06	0.06	0.06	0.19	0.30	0.46	0.64	10.7%
Biofuels Heat and Coproducts	0.36	0.43	0.75	0.95	1.22	1.63	1.66	6.0%
Purchased Electricity	0.15	0.16	0.19	0.21	0.21	0.22	0.22	1.5%
Delivered Energy	4.00	4.05	4.51	4.97	5.38	5.92	6.23	1.9%
Electricity Related Losses	0.32	0.35	0.41	0.44	0.45	0.45	0.46	1.2%
Total	4.31	4.40	4.92	5.41	5.83	6.37	6.69	1.8%
Total Industrial Sector Consumption								
Liquefied Petroleum Gases Heat and Power	0.18	0.19	0.19	0.17	0.16	0.15	0.16	-0.8%
Liquefied Petroleum Gases Feedstocks	2.16	2.16	1.84	1.79	1.61	1.57	1.50	-1.6%
Motor Gasoline	0.36	0.36	0.35	0.35	0.34	0.34	0.36	-0.1%
Distillate Fuel Oil	1.26	1.28	1.17	1.21	1.18	1.19	1.23	-0.1%
Residual Fuel Oil	0.24	0.25	0.15	0.16	0.16	0.16	0.16	-1.9%
Petrochemical Feedstocks	1.42	1.30	1.01	1.20	1.13	1.10	1.05	-0.9%
Petroleum Coke	0.93	0.91	0.78	0.83	0.82	0.81	0.84	-0.3%
Asphalt and Road Oil	1.26	1.19	0.97	1.15	1.08	1.07	1.12	-0.3%
Still Gas	1.69	1.68	1.80	1.66	1.64	1.65	1.71	0.1%
Miscellaneous Petroleum ²	0.63	0.65	0.32	0.23	0.22	0.22	0.22	-4.6%
Petroleum Subtotal	10.13	9.96	8.57	8.76	8.34	8.25	8.35	-0.8%
Natural Gas Heat and Power	6.10	6.27	6.10	6.41	6.31	6.42	6.56	0.2%
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Feedstocks	0.58	0.55	0.51	0.52	0.50	0.49	0.44	-0.9%
Lease and Plant Fuel ³	1.16	1.20	1.27	1.25	1.33	1.44	1.47	0.9%
Natural Gas Subtotal	7.83	8.02	7.88	8.18	8.14	8.35	8.47	0.2%
Metallurgical Coal and Coke ⁴	0.66	0.62	0.57	0.54	0.50	0.49	0.49	-1.1%
Other Industrial Coal	1.25	1.21	1.24	1.16	1.15	1.16	1.16	-0.2%
Coal-to-Liquids Heat and Power	0.00	0.00	0.00	0.13	0.24	0.40	0.58	32.7%
Coal Subtotal	1.92	1.83	1.81	1.83	1.89	2.05	2.23	0.9%
Biofuels Heat and Coproducts	0.36	0.43	0.75	0.95	1.22	1.63	1.66	6.0%
Renewables ⁵	1.70	1.64	1.48	1.56	1.64	1.78	1.96	0.8%
Purchased Electricity	3.45	3.43	3.35	3.49	3.48	3.54	3.67	0.3%
Delivered Energy	25.38	25.32	23.83	24.76	24.72	25.60	26.34	0.2%
Electricity Related Losses	7.48	7.49	7.28	7.44	7.35	7.32	7.53	0.0%
Total	32.87	32.80	31.11	32.20	32.07	32.92	33.87	0.1%

Table A6. Industrial Sector Key Indicators and Consumption (Continued)

Key Indicators and Consumption	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Energy Consumption per dollar of Shipment (thousand Btu per 2000 dollars)								
Liquefied Petroleum Gases Heat and Power	0.03	0.03	0.04	0.03	0.02	0.02	0.02	-2.4%
Liquefied Petroleum Gases Feedstocks	0.37	0.38	0.35	0.29	0.24	0.21	0.18	-3.2%
Motor Gasoline	0.06	0.06	0.07	0.06	0.05	0.05	0.04	-1.7%
Distillate Fuel Oil	0.22	0.22	0.22	0.19	0.18	0.16	0.15	-1.8%
Residual Fuel Oil	0.04	0.04	0.03	0.03	0.02	0.02	0.02	-3.5%
Petrochemical Feedstocks	0.25	0.23	0.19	0.19	0.17	0.15	0.12	-2.6%
Petroleum Coke	0.16	0.16	0.15	0.13	0.12	0.11	0.10	-2.0%
Asphalt and Road Oil	0.22	0.21	0.18	0.18	0.16	0.14	0.13	-1.9%
Still Gas	0.29	0.29	0.34	0.27	0.24	0.22	0.20	-1.6%
Miscellaneous Petroleum ²	0.11	0.11	0.06	0.04	0.03	0.03	0.03	-6.2%
Petroleum Subtotal	1.76	1.73	1.63	1.40	1.23	1.12	0.99	-2.4%
Natural Gas Heat and Power	1.06	1.09	1.16	1.02	0.94	0.87	0.78	-1.5%
Natural-Gas-to-Liquids Heat and Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Feedstocks	0.10	0.10	0.10	0.08	0.07	0.07	0.05	-2.6%
Lease and Plant Fuel ³	0.20	0.21	0.24	0.20	0.20	0.19	0.17	-0.8%
Natural Gas Subtotal	1.36	1.39	1.50	1.31	1.21	1.13	1.00	-1.4%
Metallurgical Coal and Coke ⁴	0.12	0.11	0.11	0.09	0.07	0.07	0.06	-2.7%
Other Industrial Coal	0.22	0.21	0.24	0.19	0.17	0.16	0.14	-1.8%
Coal-to-Liquids Heat and Power	0.00	0.00	0.00	0.02	0.04	0.05	0.07	30.5%
Coal Subtotal	0.33	0.32	0.34	0.29	0.28	0.28	0.26	-0.8%
Biofuels Heat and Coproducts	0.06	0.07	0.14	0.15	0.18	0.22	0.20	4.3%
Renewables ⁵	0.29	0.29	0.28	0.25	0.24	0.24	0.23	-0.9%
Purchased Electricity	0.60	0.60	0.64	0.56	0.52	0.48	0.43	-1.4%
Delivered Energy	4.40	4.40	4.53	3.95	3.66	3.46	3.12	-1.5%
Electricity Related Losses	1.30	1.30	1.39	1.19	1.09	0.99	0.89	-1.6%
Total	5.70	5.70	5.92	5.14	4.75	4.45	4.01	-1.5%
Industrial Combined Heat and Power								
Capacity (gigawatts)	25.69	25.42	28.84	31.49	35.01	40.95	45.94	2.6%
Generation (billion kilowatthours)	143.19	141.01	161.19	179.31	206.09	251.49	286.98	3.1%

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

²Includes lubricants and miscellaneous petroleum products.

³Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

⁴Includes net coal coke imports.

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

Btu = British thermal unit.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 prices for motor gasoline and distillate fuel oil are based on: Energy Information Administration (EIA), #PrelimPMA#. 2006 and 2007 petrochemical feedstock and asphalt and road oil prices are based on: EIA, *State Energy Data Report 2006*, DOE/EIA-0214(2006) (Washington, DC, October 2008). 2006 and 2007 coal prices are based on: EIA, *Quarterly Coal Report, October-December 2007*, DOE/EIA-0121(2007/4Q) (Washington, DC, March 2008) and EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B. 2006 and 2007 electricity prices: EIA, *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008). 2006 and 2007 natural gas prices are based on: EIA, *Manufacturing Energy Consumption Survey 1994* and industrial and wellhead prices from the *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007) and the *Natural Gas Monthly*, DOE/EIA-0130(2008/08) (Washington, DC, August 2008). 2006 refining consumption values based on: *Petroleum Supply Annual 2006*, DOE/EIA-0340(2006)/1 (Washington, DC, September 2007). 2007 refining consumption values based on: *Petroleum Supply Annual 2007*, DOE/EIA-0340(2007)/1 (Washington, DC, July 2008). Other 2006 and 2007 consumption values are based on: EIA, *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008). 2006 and 2007 shipments: IHS Global Insight industry model, November 2008. Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A7. Transportation Sector Key Indicators and Delivered Energy Consumption

Key Indicators and Consumption	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Key Indicators								
Travel Indicators								
(billion vehicle miles traveled)								
Light-Duty Vehicles less than 8,500 pounds	2695	2702	2752	2877	3165	3489	3807	1.5%
Commercial Light Trucks ¹	70	72	68	78	85	93	105	1.7%
Freight Trucks greater than 10,000 pounds	244	248	232	276	303	333	378	1.9%
(billion seat miles available)								
Air	984	1036	955	1017	1137	1271	1409	1.3%
(billion ton miles traveled)								
Rail	1718	1733	1667	1844	1926	2022	2191	1.0%
Domestic Shipping	659	662	629	695	741	797	839	1.0%
Energy Efficiency Indicators								
(miles per gallon)								
Tested New Light-Duty Vehicle ²	26.2	26.3	26.9	32.6	35.5	36.8	37.9	1.6%
New Car ²	30.2	30.3	30.9	36.6	39.2	40.3	41.4	1.4%
New Light Truck ²	23.1	23.1	23.6	28.3	30.7	32.0	32.9	1.6%
On-Road New Light-Duty Vehicle ³	21.4	21.8	22.3	27.1	29.6	30.8	31.8	1.7%
New Car ³	23.8	24.6	25.3	30.1	32.4	33.6	34.7	1.5%
New Light Truck ³	19.4	19.4	19.8	23.8	25.8	26.9	27.7	1.6%
Light-Duty Stock ⁴	20.4	20.6	20.7	22.3	24.7	27.0	28.9	1.5%
New Commercial Light Truck ¹	15.5	15.4	15.7	18.6	19.7	20.1	20.3	1.2%
Stock Commercial Light Truck ¹	14.3	14.4	14.8	15.9	17.6	19.0	19.9	1.4%
Freight Truck	6.0	6.0	6.0	6.2	6.5	6.7	6.9	0.6%
(seat miles per gallon)								
Aircraft	62.2	62.8	64.4	66.2	68.1	70.4	73.6	0.7%
(ton miles per thousand Btu)								
Rail	2.9	2.9	2.9	2.9	3.0	3.0	3.0	0.1%
Domestic Shipping	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.1%
Energy Use by Mode								
(quadrillion Btu)								
Light-Duty Vehicles	16.42	16.47	16.24	15.92	15.82	16.01	16.42	-0.0%
Commercial Light Trucks ¹	0.62	0.62	0.57	0.61	0.60	0.62	0.67	0.3%
Bus Transportation	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.2%
Freight Trucks	5.07	5.15	4.82	5.55	5.79	6.18	6.90	1.3%
Rail, Passenger	0.04	0.05	0.05	0.05	0.05	0.06	0.06	1.3%
Rail, Freight	0.59	0.59	0.57	0.63	0.65	0.68	0.73	0.9%
Shipping, Domestic	0.34	0.34	0.32	0.35	0.37	0.40	0.42	0.9%
Shipping, International	0.84	0.88	0.80	0.89	0.90	0.90	0.91	0.1%
Recreational Boats	0.25	0.25	0.25	0.26	0.26	0.27	0.28	0.4%
Air	2.71	2.71	2.46	2.62	2.87	3.18	3.54	1.2%
Military Use	0.69	0.70	0.74	0.72	0.74	0.76	0.78	0.4%
Lubricants	0.15	0.14	0.14	0.14	0.15	0.15	0.15	0.4%
Pipeline Fuel	0.60	0.64	0.64	0.65	0.69	0.73	0.72	0.5%
Total	28.60	28.82	27.87	28.66	29.16	30.21	31.85	0.4%

**Table A7. Transportation Sector Key Indicators and Delivered Energy Consumption
(Continued)**

Key Indicators and Consumption	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Energy Use by Mode (million barrels per day oil equivalent)								
Light-Duty Vehicles	8.61	8.74	8.74	8.65	8.70	9.00	9.31	0.3%
Commercial Light Trucks ¹	0.32	0.33	0.31	0.33	0.33	0.33	0.36	0.3%
Bus Transportation	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.2%
Freight Trucks	2.42	2.46	2.31	2.66	2.77	2.96	3.31	1.3%
Rail, Passenger	0.02	0.02	0.02	0.02	0.03	0.03	0.03	1.3%
Rail, Freight	0.28	0.28	0.27	0.30	0.31	0.32	0.35	0.9%
Shipping, Domestic	0.16	0.16	0.15	0.16	0.17	0.18	0.19	0.9%
Shipping, International	0.37	0.39	0.35	0.39	0.39	0.40	0.40	0.1%
Recreational Boats	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.5%
Air	1.31	1.31	1.19	1.27	1.39	1.54	1.71	1.2%
Military Use	0.33	0.34	0.36	0.35	0.36	0.37	0.37	0.4%
Lubricants	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.4%
Pipeline Fuel	0.30	0.32	0.32	0.33	0.35	0.37	0.36	0.5%
Total	14.46	14.68	14.35	14.79	15.13	15.85	16.75	0.6%

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

²Environmental Protection Agency rated miles per gallon.

³Tested new vehicle efficiency revised for on-road performance.

⁴Combined car and light truck "on-the-road" estimate.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007: Energy Information Administration (EIA), *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007); EIA, *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008); Federal Highway Administration, *Highway Statistics 2005* (Washington, DC, October 2006); Oak Ridge National Laboratory, *Transportation Energy Data Book: Edition 27 and Annual* (Oak Ridge, TN, 2008); National Highway Traffic and Safety Administration, *Summary of Fuel Economy Performance* (Washington, DC, March 2004); U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); EIA, *Alternatives to Traditional Transportation Fuels 2006 (Part II - User and Fuel Data)*, May 2008; EIA, *State Energy Data Report 2006*, DOE/EIA-0214(2006) (Washington, DC, October 2008); U.S. Department of Transportation, Research and Special Programs Administration, *Air Carrier Statistics Monthly, December 2007/2006* (Washington, DC, 2007); EIA, *Fuel Oil and Kerosene Sales 2006*, DOE/EIA-0535(2006) (Washington, DC, December 2007); and United States Department of Defense, Defense Fuel Supply Center. **Projections:** EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A8. Electricity Supply, Disposition, Prices, and Emissions
(Billion Kilowatthours, Unless Otherwise Noted)

Supply, Disposition, and Prices	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Generation by Fuel Type								
Electric Power Sector¹								
Power Only²								
Coal	1934	1965	2006	2065	2094	2116	2320	0.7%
Petroleum	55	57	42	44	44	45	46	-0.9%
Natural Gas ³	618	685	635	616	685	826	785	0.6%
Nuclear Power	787	806	809	831	862	867	905	0.5%
Pumped Storage/Other ⁴	1	0	1	1	1	1	1	8.8%
Renewable Sources ⁵	348	314	410	472	542	581	607	2.9%
Distributed Generation (Natural Gas)	0	0	0	0	0	0	0	--
Total	3742	3827	3904	4029	4228	4436	4665	0.9%
Combined Heat and Power⁶								
Coal	36	37	32	32	32	32	32	-0.6%
Petroleum	5	5	0	0	0	0	0	-10.1%
Natural Gas	116	129	107	112	112	112	109	-0.7%
Renewable Sources	4	4	4	4	5	5	5	0.7%
Total	165	179	143	148	149	150	146	-0.9%
Total Net Generation	3908	4006	4047	4177	4377	4586	4811	0.8%
Less Direct Use	33	34	34	33	34	34	33	-0.1%
Net Available to the Grid	3875	3972	4013	4143	4344	4553	4777	0.8%
End-Use Generation⁷								
Coal	22	19	19	25	31	39	48	4.1%
Petroleum	4	4	13	13	13	14	16	6.0%
Natural Gas	77	78	77	87	97	111	131	2.3%
Other Gaseous Fuels ⁸	5	5	18	15	16	16	16	5.3%
Renewable Sources ⁵	34	33	36	50	68	98	116	5.6%
Other ⁹	13	13	12	12	12	12	12	-0.4%
Total	155	153	175	203	238	290	339	3.5%
Less Direct Use	124	122	142	165	189	223	263	3.4%
Total Sales to the Grid	31	31	33	38	49	66	76	4.0%
Total Electricity Generation by Fuel								
Coal	1992	2021	2057	2122	2156	2187	2401	0.8%
Petroleum	64	66	56	57	58	60	62	-0.3%
Natural Gas	812	892	819	814	894	1050	1025	0.6%
Nuclear Power	787	806	809	831	862	867	905	0.5%
Renewable Sources ⁵	386	352	450	526	616	684	728	3.2%
Other ¹⁰	23	22	30	28	28	28	29	1.1%
Total	4063	4159	4222	4380	4615	4876	5150	0.9%
Total Electricity Generation	4063	4159	4222	4380	4615	4876	5150	0.9%
Total Net Generation to the Grid	3906	4004	4047	4182	4392	4619	4854	0.8%
Net Imports	18	31	24	17	20	16	30	-0.2%
Electricity Sales by Sector								
Residential	1352	1392	1407	1423	1499	1580	1666	0.8%
Commercial	1300	1343	1394	1506	1632	1743	1848	1.4%
Industrial	1011	1006	981	1023	1020	1037	1077	0.3%
Transportation	6	6	7	8	10	12	15	3.6%
Total	3669	3747	3789	3959	4161	4372	4606	0.9%
Direct Use	157	156	176	198	222	257	296	2.8%
Total Electricity Use	3826	3903	3965	4158	4383	4629	4902	1.0%

Table A8. Electricity Supply, Disposition, Prices, and Emissions (Continued)
(Billion Kilowatthours, Unless Otherwise Noted)

Supply, Disposition, and Prices	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
End-Use Prices								
(2007 cents per kilowatthour)								
Residential	10.6	10.6	10.5	10.8	11.2	11.6	12.3	0.6%
Commercial	9.7	9.6	9.3	9.2	9.6	10.0	10.6	0.4%
Industrial	6.3	6.4	6.4	6.2	6.5	6.9	7.4	0.7%
Transportation	10.4	10.5	10.3	10.3	10.0	10.8	11.7	0.5%
All Sectors Average	9.1	9.1	9.0	9.0	9.4	9.8	10.5	0.6%
(nominal cents per kilowatthour)								
Residential	10.4	10.6	11.0	12.5	14.4	16.0	17.8	2.3%
Commercial	9.4	9.6	9.8	10.7	12.4	13.8	15.4	2.1%
Industrial	6.1	6.4	6.7	7.2	8.4	9.5	10.7	2.3%
Transportation	10.1	10.5	10.8	11.9	13.0	14.9	16.9	2.1%
All Sectors Average	8.9	9.1	9.4	10.5	12.1	13.6	15.2	2.2%
Prices by Service Category								
(2007 cents per kilowatthour)								
Generation	6.0	6.0	5.9	5.8	6.2	6.6	7.3	0.8%
Transmission	0.7	0.7	0.7	0.8	0.8	0.9	0.9	1.3%
Distribution	2.4	2.4	2.4	2.4	2.4	2.4	2.3	-0.1%
(nominal cents per kilowatthour)								
Generation	5.9	6.0	6.3	6.8	8.0	9.2	10.5	2.5%
Transmission	0.7	0.7	0.8	0.9	1.1	1.2	1.3	3.0%
Distribution	2.3	2.4	2.5	2.8	3.1	3.3	3.4	1.5%
Electric Power Sector Emissions¹								
Sulfur Dioxide (million tons)	9.40	8.95	7.46	4.19	3.95	3.89	3.87	-3.6%
Nitrogen Oxide (million tons)	3.41	3.29	2.37	2.09	2.10	2.10	2.12	-1.9%
Mercury (tons)	49.04	49.28	45.18	29.65	29.46	29.74	30.09	-2.1%

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

²Includes plants that only produce electricity.

³Includes electricity generation from fuel cells.

⁴Includes non-biogenic municipal waste. The Energy Information Administration estimates approximately 7 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy, (Washington, DC, May 2007).

⁵Includes conventional hydroelectric, geothermal, wood, wood waste, biogenic municipal solid waste, landfill gas, other biomass, solar, and wind power.

⁶Includes combined heat and power plants whose primary business is to sell electricity and heat to the public (i.e., those that report North American Industry Classification System code 22).

⁷Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

⁸Includes refinery gas and still gas.

⁹Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

⁹Includes pumped storage, non-biogenic municipal waste, refinery gas, still gas, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

- - = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 electric power sector generation; sales to utilities; net imports; electricity sales; and emissions: Energy Information Administration (EIA), *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008), and supporting databases. 2006 and 2007 prices: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B. Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

**Table A9. Electricity Generating Capacity
(Gigawatts)**

Net Summer Capacity ¹	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Electric Power Sector²								
Power Only³								
Coal	305.2	306.7	316.4	321.5	322.4	323.7	346.2	0.5%
Oil and Natural Gas Steam ⁴	119.3	118.4	118.0	101.8	101.8	101.8	100.3	-0.7%
Combined Cycle	144.7	149.2	163.0	163.9	170.6	199.0	207.2	1.4%
Combustion Turbine/Diesel	128.1	130.4	139.3	139.2	152.2	177.8	198.9	1.9%
Nuclear Power ⁵	100.2	100.5	101.2	104.1	108.5	108.5	112.2	0.5%
Pumped Storage	21.5	21.5	21.5	21.5	21.5	21.5	21.5	0.0%
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Renewable Sources ⁶	95.5	100.8	114.8	117.0	121.8	128.5	137.2	1.3%
Distributed Generation ⁷	0.0	0.0	0.0	0.0	0.0	0.1	0.3	--
Total	914.5	927.5	974.2	969.0	998.8	1060.8	1123.6	0.8%
Combined Heat and Power⁸								
Coal	4.6	4.6	4.6	4.6	4.6	4.6	4.6	0.0%
Oil and Natural Gas Steam ⁴	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0%
Combined Cycle	31.8	31.8	31.8	32.5	32.5	32.5	32.5	0.1%
Combustion Turbine/Diesel	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.0%
Renewable Sources ⁶	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.0%
Total	40.3	40.3	40.4	41.0	41.0	41.0	41.0	0.1%
Cumulative Planned Additions⁹								
Coal	0.0	0.0	11.3	17.0	17.0	17.0	17.0	--
Oil and Natural Gas Steam ⁴	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Combined Cycle	0.0	0.0	13.8	15.3	15.3	15.3	15.3	--
Combustion Turbine/Diesel	0.0	0.0	3.2	3.2	3.2	3.2	3.2	--
Nuclear Power	0.0	0.0	0.0	1.2	1.2	1.2	1.2	--
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Renewable Sources ⁶	0.0	0.0	9.7	9.8	9.9	10.0	10.1	--
Distributed Generation ⁷	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total	0.0	0.0	38.0	46.5	46.6	46.7	46.8	--
Cumulative Unplanned Additions⁹								
Coal	0.0	0.0	0.0	0.0	1.0	2.3	24.8	--
Oil and Natural Gas Steam ⁴	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Combined Cycle	0.0	0.0	0.0	0.0	6.7	35.1	43.3	--
Combustion Turbine/Diesel	0.0	0.0	6.0	10.5	23.5	49.1	70.2	--
Nuclear Power	0.0	0.0	0.0	0.0	3.4	3.4	11.5	--
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Renewable Sources ⁶	0.0	0.0	4.3	6.5	11.2	17.7	26.3	--
Distributed Generation ⁷	0.0	0.0	0.0	0.0	0.0	0.1	0.3	--
Total	0.0	0.0	10.3	16.9	45.8	107.7	176.3	--
Cumulative Electric Power Sector Additions	0.0	0.0	48.3	63.4	92.4	154.4	223.1	--
Cumulative Retirements¹⁰								
Coal	0.0	0.0	1.6	2.1	2.3	2.3	2.3	--
Oil and Natural Gas Steam ⁴	0.0	0.0	0.4	16.6	16.6	16.6	18.1	--
Combined Cycle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Combustion Turbine/Diesel	0.0	0.0	0.3	4.9	4.9	4.9	4.9	--
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	4.4	--
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Renewable Sources ⁶	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
Total	0.0	0.0	2.3	23.7	23.8	23.8	29.7	--
Total Electric Power Sector Capacity	954.8	967.8	1014.5	1010.0	1039.8	1101.8	1164.6	0.8%

Table A9. Electricity Generating Capacity (Continued)
(Gigawatts)

Net Summer Capacity ¹	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
End-Use Generators¹¹								
Coal	4.0	4.0	4.0	4.8	5.6	6.7	7.9	3.0%
Petroleum	1.2	1.3	2.6	2.6	2.6	2.7	2.9	3.7%
Natural Gas	14.1	14.0	13.6	15.0	16.4	18.2	21.0	1.8%
Other Gaseous Fuels	1.8	1.5	4.1	3.8	3.8	3.8	3.8	4.2%
Renewable Sources ⁶	6.0	6.1	7.5	13.6	18.1	22.3	26.4	6.5%
Other	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0%
Total	27.9	27.8	32.6	40.7	47.3	54.5	62.9	3.6%
Cumulative Capacity Additions⁹	0.0	0.0	4.8	12.9	19.5	26.8	35.1	--

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

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

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

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

⁵Nuclear capacity includes 3.4 gigawatts of uprates through 2030.

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

⁷Primarily peak load capacity fueled by natural gas.

⁸Includes combined heat and power plants whose primary business is to sell electricity and heat to the public (i.e., those that report North American Industry Classification System code 22).

⁹Cumulative additions after December 31, 2007.

¹⁰Cumulative retirements after December 31, 2007.

¹¹Includes combined heat and power plants and electricity-only plants in the commercial and industrial sectors; and small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 capacity and projected planned additions: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A10. Electricity Trade
(Billion Kilowatthours, Unless Otherwise Noted)

Electricity Trade	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Interregional Electricity Trade								
Gross Domestic Sales								
Firm Power	123.1	124.5	118.7	110.9	81.8	44.9	37.6	-5.1%
Economy	151.1	116.7	206.1	233.1	227.9	201.1	191.9	2.2%
Total	274.2	241.3	324.8	344.0	309.7	246.1	229.4	-0.2%
Gross Domestic Sales (million 2007 dollars)								
Firm Power	7051.4	7133.1	6799.0	6353.0	4683.5	2574.5	2152.7	-5.1%
Economy	8652.2	7235.0	11099.5	12485.0	12581.9	12488.1	13245.2	2.7%
Total	15703.6	14368.1	17898.5	18838.0	17265.4	15062.6	15397.9	0.3%
International Electricity Trade								
Imports from Canada and Mexico								
Firm Power	13.7	15.8	16.6	12.0	7.3	1.5	0.4	-14.9%
Economy	28.8	35.6	29.3	27.6	33.6	33.5	48.1	1.3%
Total	42.4	51.4	45.9	39.6	40.9	35.1	48.5	-0.3%
Exports to Canada and Mexico								
Firm Power	3.2	3.9	0.9	0.9	0.5	0.1	0.0	--
Economy	21.4	16.2	20.6	21.3	20.4	18.5	18.5	0.6%
Total	24.6	20.1	21.5	22.1	20.9	18.6	18.5	-0.4%

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports. Firm Power Sales are capacity sales, meaning the delivery of the power is scheduled as part of the normal operating conditions of the affected electric systems. Economy Sales are subject to curtailment or cessation of delivery by the supplier in accordance with prior agreements or under specified conditions.

Sources: 2006 and 2007 interregional firm electricity trade data: North American Electric Reliability Council (NERC), Electricity Sales and Demand Database 2007. 2006 and 2007 Mexican electricity trade data: Energy Information Administration (EIA), *Electric Power Annual 2007* DOE/EIA-0348(2007) (Washington, DC, December 2008). 2006 Canadian international electricity trade data: National Energy Board, *Annual Report 2006*. 2007 Canadian electricity trade data: National Energy Board, *Annual Report 2007*. Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A11. Liquid Fuels Supply and Disposition
(Million Barrels per Day, Unless Otherwise Noted)

Supply and Disposition	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Crude Oil								
Domestic Crude Production ¹	5.10	5.07	5.61	5.72	6.46	7.22	7.38	1.6%
Alaska	0.74	0.72	0.69	0.51	0.71	0.77	0.57	-1.0%
Lower 48 States	4.36	4.35	4.92	5.21	5.75	6.44	6.81	2.0%
Net Imports	10.09	10.00	8.32	8.18	7.46	6.67	6.91	-1.6%
Gross Imports	10.12	10.03	8.35	8.21	7.50	6.71	6.95	-1.6%
Exports	0.03	0.03	0.03	0.03	0.03	0.04	0.04	1.6%
Other Crude Supply ²	0.05	0.09	0.00	0.00	0.00	0.00	0.00	--
Total Crude Supply	15.24	15.16	13.93	13.90	13.92	13.89	14.29	-0.3%
Other Supply								
Natural Gas Plant Liquids	1.74	1.78	1.87	1.85	1.86	1.89	1.89	0.2%
Net Product Imports	2.31	2.09	1.60	1.70	1.42	1.33	1.39	-1.7%
Gross Refined Product Imports ³	2.17	1.94	1.55	1.55	1.43	1.41	1.44	-1.3%
Unfinished Oil Imports	0.69	0.72	0.60	0.60	0.60	0.60	0.65	-0.4%
Blending Component Imports	0.68	0.75	0.63	0.75	0.66	0.67	0.70	-0.3%
Exports	1.22	1.32	1.17	1.20	1.28	1.35	1.39	0.2%
Refinery Processing Gain ⁴	0.99	1.00	0.97	0.95	0.94	0.93	0.90	-0.4%
Other Inputs	0.41	0.74	1.22	1.65	1.96	2.64	3.09	6.4%
Ethanol	0.32	0.43	0.84	1.07	1.28	1.69	1.93	6.8%
Domestic Production	0.27	0.40	0.84	1.06	1.24	1.44	1.45	5.7%
Net Imports	0.05	0.02	-0.00	0.01	0.04	0.25	0.49	14.5%
Biodiesel	0.02	0.03	0.06	0.10	0.10	0.12	0.12	6.1%
Domestic Production	0.02	0.03	0.06	0.10	0.10	0.12	0.12	6.1%
Net Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquids from Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Liquids from Coal	0.00	0.00	0.00	0.06	0.10	0.18	0.26	--
Liquids from Biomass	0.00	0.00	0.00	0.01	0.07	0.24	0.33	--
Other ⁵	0.07	0.29	0.31	0.41	0.40	0.41	0.45	2.0%
Total Primary Supply⁶	20.70	20.77	19.59	20.05	20.10	20.67	21.56	0.2%
Liquid Fuels Consumption								
by Fuel								
Liquefied Petroleum Gases	2.05	2.09	2.00	1.94	1.82	1.79	1.75	-0.8%
E85 ⁷	0.00	0.00	0.00	0.23	0.58	1.20	1.53	37.2%
Motor Gasoline ⁸	9.25	9.29	9.36	9.02	8.63	8.13	7.97	-0.7%
Jet Fuel ⁹	1.63	1.62	1.46	1.52	1.65	1.81	1.99	0.9%
Distillate Fuel Oil ¹⁰	4.17	4.20	4.09	4.46	4.61	4.91	5.42	1.1%
Diesel	3.21	3.47	3.48	3.88	4.06	4.38	4.90	1.5%
Residual Fuel Oil	0.69	0.72	0.63	0.69	0.70	0.71	0.72	-0.0%
Other ¹¹	2.86	2.74	2.25	2.34	2.25	2.23	2.28	-0.8%
by Sector								
Residential and Commercial	1.06	1.11	1.05	1.01	1.00	0.98	0.98	-0.6%
Industrial ¹²	5.32	5.26	4.52	4.59	4.34	4.29	4.31	-0.9%
Transportation	14.21	14.25	13.99	14.39	14.66	15.27	16.13	0.5%
Electric Power ¹³	0.29	0.30	0.22	0.22	0.23	0.23	0.23	-1.0%
Total	20.65	20.65	19.79	20.21	20.23	20.77	21.65	0.2%
Discrepancy¹⁴	0.04	0.12	-0.20	-0.16	-0.13	-0.10	-0.09	--

Table A11. Liquid Fuels Supply and Disposition (Continued)
(Million Barrels per Day, Unless Otherwise Noted)

Supply and Disposition	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Domestic Refinery Distillation Capacity ¹⁵	17.3	17.4	18.0	18.2	18.2	18.5	18.6	0.3%
Capacity Utilization Rate (percent) ¹⁶	90.0	89.0	79.0	77.8	77.9	76.4	78.2	-0.6%
Net Import Share of Product Supplied (percent) . .	60.2	58.3	50.7	49.3	44.4	39.9	40.8	-1.5%
Net Expenditures for Imported Crude Oil and Petroleum Products (billion 2007 dollars)	272.80	280.13	246.62	360.13	341.68	328.87	371.44	1.2%

¹Includes lease condensate.

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

³Includes other hydrocarbons and alcohols.

⁴The volumetric amount by which total output is greater than input due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

⁵Includes petroleum product stock withdrawals; and domestic sources of other blending components, other hydrocarbons, ethers, and renewable fuels such as biodiesel.

⁶Total crude supply plus natural gas plant liquids, other inputs, refinery processing gain, and net product imports.

⁷E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

⁸Includes ethanol and ethers blended into gasoline.

⁹Includes only kerosene type.

¹⁰Includes distillate fuel oil and kerosene from petroleum and biomass feedstocks.

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

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

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

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

¹⁵End-of-year operable capacity.

¹⁶Rate is calculated by dividing the gross annual input to atmospheric crude oil distillation units by their operable refining capacity in barrels per calendar day.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 imported crude oil price and petroleum product supplied based on: Energy Information Administration (EIA), *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008). Other 2006 data: EIA, *Petroleum Supply Annual 2006*, DOE/EIA-0340(2006)/1 (Washington, DC, September 2007). Other 2007 data: EIA, *Petroleum Supply Annual 2007*, DOE/EIA-0340(2007)/1 (Washington, DC, July 2008). Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A12. Petroleum Product Prices
(2007 Cents per Gallon, Unless Otherwise Noted)

Sector and Fuel	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Crude Oil Prices (2007 dollars per barrel)								
Imported Low Sulfur Light Crude Oil ¹	67.82	72.33	77.97	109.96	115.64	121.47	130.50	2.6%
Imported Crude Oil ¹	60.70	63.83	71.97	107.64	110.34	115.01	123.81	2.9%
Delivered Sector Product Prices								
Residential								
Liquefied Petroleum Gases	205.0	213.6	212.0	273.8	278.0	285.5	298.6	1.5%
Distillate Fuel Oil	256.1	272.7	246.1	325.3	334.6	346.3	370.5	1.3%
Commercial								
Distillate Fuel Oil	207.7	221.7	209.9	296.4	304.1	316.1	340.5	1.9%
Residual Fuel Oil	132.9	152.9	154.7	239.7	249.4	255.3	269.3	2.5%
Residual Fuel Oil (2007 dollars per barrel) . .	55.84	64.22	64.98	100.67	104.75	107.22	113.10	2.5%
Industrial²								
Liquefied Petroleum Gases	180.6	199.9	177.6	239.4	243.1	250.5	263.3	1.2%
Distillate Fuel Oil	217.8	232.3	207.6	303.0	308.5	320.8	345.6	1.7%
Residual Fuel Oil	137.9	157.1	218.5	304.3	311.7	320.9	341.1	3.4%
Residual Fuel Oil (2007 dollars per barrel) . .	57.92	65.98	91.77	127.83	130.92	134.77	143.25	3.4%
Transportation								
Liquefied Petroleum Gases	191.4	213.8	210.3	272.1	275.8	282.9	295.6	1.4%
Ethanol (E85) ³	242.1	253.0	231.4	238.8	276.2	282.3	285.6	0.5%
Ethanol Wholesale Price	257.0	212.4	190.3	211.3	200.7	190.0	193.3	-0.4%
Motor Gasoline ⁴	270.7	282.2	272.1	346.2	357.4	372.2	389.6	1.4%
Jet Fuel ⁵	205.8	217.3	203.5	286.2	295.5	307.2	331.3	1.8%
Diesel Fuel (distillate fuel oil) ⁶	278.6	287.0	262.2	352.7	355.7	367.3	391.3	1.4%
Residual Fuel Oil	122.8	140.0	165.8	253.8	258.3	272.2	294.5	3.3%
Residual Fuel Oil (2007 dollars per barrel) . .	51.59	58.80	69.65	106.61	108.47	114.31	123.71	3.3%
Electric Power⁷								
Distillate Fuel Oil	191.0	204.9	196.3	275.3	284.8	296.7	321.3	2.0%
Residual Fuel Oil	125.4	125.4	184.4	270.3	275.7	288.4	309.8	4.0%
Residual Fuel Oil (2007 dollars per barrel) . .	52.67	52.67	77.43	113.54	115.78	121.15	130.12	4.0%
Refined Petroleum Product Prices⁸								
Liquefied Petroleum Gases	134.4	158.5	170.7	227.9	232.8	240.1	253.2	2.1%
Motor Gasoline ⁴	269.0	280.2	272.1	346.1	357.4	372.2	389.5	1.4%
Jet Fuel ⁵	205.8	217.3	203.5	286.2	295.5	307.2	331.3	1.8%
Distillate Fuel Oil	264.3	274.5	248.2	341.2	345.8	358.1	383.0	1.5%
Residual Fuel Oil	126.1	138.4	175.4	262.2	267.3	280.0	301.5	3.4%
Residual Fuel Oil (2007 dollars per barrel) . .	52.97	58.15	73.68	110.12	112.25	117.59	126.64	3.4%
Average	235.1	249.1	243.0	320.1	328.9	341.4	361.6	1.6%

Table A12. Petroleum Product Prices (Continued)
(Nominal Cents per Gallon, Unless Otherwise Noted)

Sector and Fuel	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Crude Oil Prices (nominal dollars per barrel)								
Imported Low Sulfur Light Crude Oil ¹	66.04	72.33	82.09	127.23	149.32	167.54	189.16	4.3%
Imported Crude Oil ¹	59.10	63.83	75.78	124.55	142.47	158.63	179.47	4.6%
Delivered Sector Product Prices								
Residential								
Liquefied Petroleum Gases	199.6	213.6	223.2	316.9	359.0	393.8	432.8	3.1%
Distillate Fuel Oil	249.4	272.7	259.1	376.4	432.0	477.7	537.0	3.0%
Commercial								
Distillate Fuel Oil	202.2	221.7	221.0	343.0	392.6	436.0	493.6	3.5%
Residual Fuel Oil	129.5	152.9	162.9	277.3	322.0	352.1	390.3	4.2%
Residual Fuel Oil (2007 dollars per barrel) . .	54.37	64.22	68.42	116.49	135.25	147.90	163.94	4.2%
Industrial²								
Liquefied Petroleum Gases	175.9	199.9	187.0	277.0	313.9	345.6	381.7	2.9%
Distillate Fuel Oil	212.1	232.3	218.6	350.6	398.3	442.4	500.9	3.4%
Residual Fuel Oil	134.3	157.1	230.1	352.2	402.5	442.6	494.4	5.1%
Residual Fuel Oil (2007 dollars per barrel) . .	56.40	65.98	96.62	147.90	169.04	185.88	207.65	5.1%
Transportation								
Liquefied Petroleum Gases	186.3	213.8	221.4	314.9	356.1	390.2	428.5	3.1%
Ethanol (E85) ³	235.7	253.0	243.6	276.3	356.6	389.3	414.0	2.2%
Ethanol Wholesale Price	250.2	212.4	200.4	244.4	259.2	262.1	280.2	1.2%
Motor Gasoline ⁴	263.6	282.2	286.5	400.5	461.4	513.4	564.7	3.1%
Jet Fuel ⁵	200.4	217.3	214.3	331.2	381.6	423.8	480.2	3.5%
Diesel Fuel (distillate fuel oil) ⁶	271.3	287.0	276.1	408.1	459.2	506.6	567.1	3.0%
Residual Fuel Oil	119.6	140.0	174.6	293.7	333.5	375.4	426.9	5.0%
Residual Fuel Oil (2007 dollars per barrel) . .	50.24	58.80	73.34	123.35	140.05	157.67	179.32	5.0%
Electric Power⁷								
Distillate Fuel Oil	186.0	204.9	206.7	318.5	367.8	409.3	465.7	3.6%
Residual Fuel Oil	122.1	125.4	194.1	312.8	355.9	397.9	449.1	5.7%
Residual Fuel Oil (2007 dollars per barrel) . .	51.29	52.67	81.53	131.37	149.49	167.10	188.62	5.7%
Refined Petroleum Product Prices⁸								
Liquefied Petroleum Gases	130.9	158.5	179.7	263.7	300.6	331.2	367.0	3.7%
Motor Gasoline ⁴	261.9	280.2	286.5	400.5	461.4	513.3	564.7	3.1%
Jet Fuel ⁵	200.4	217.3	214.3	331.2	381.6	423.8	480.2	3.5%
Distillate Fuel Oil	257.3	274.5	261.4	394.8	446.5	494.0	555.2	3.1%
Residual Fuel Oil	122.8	138.4	184.7	303.4	345.1	386.2	437.1	5.1%
Residual Fuel Oil (2007 dollars per barrel) . .	51.58	58.15	77.58	127.42	144.93	162.20	183.58	5.1%
Average	228.9	249.1	255.9	370.3	424.6	470.9	524.1	3.3%

¹Weighted average price delivered to U.S. refiners.

²Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

³E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.

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

⁵Includes only kerosene type.

⁶Diesel fuel for on-road use. Includes Federal and State taxes while excluding county and local taxes.

⁷Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

⁸Weighted averages of end-use fuel prices are derived from the prices in each sector and the corresponding sectoral consumption.

Note: Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 imported low sulfur light crude oil price: Energy Information Administration (EIA), Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report." 2006 and 2007 imported crude oil price: EIA, *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008). 2006 and 2007 prices for motor gasoline, distillate fuel oil, and jet fuel are based on: EIA, #PrelimPMA#. 2006 and 2007 residential, commercial, industrial, and transportation sector petroleum product prices are derived from: EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report." 2006 and 2007 electric power prices based on: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2006 and 2007 E85 prices derived from monthly prices in the Clean Cities Alternative Fuel Price Report. 2006 and 2007 wholesale ethanol prices derived from Bloomberg U.S. average rack price.

Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A13. Natural Gas Supply, Disposition, and Prices
(Trillion Cubic Feet per Year, Unless Otherwise Noted)

Supply, Disposition, and Prices	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Production								
Dry Gas Production ¹	18.48	19.30	20.30	20.26	21.42	23.17	23.62	0.9%
Supplemental Natural Gas ²	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.2%
Net Imports								
Pipeline ³	3.46	3.79	2.47	2.35	1.86	1.36	0.69	-7.2%
Liquefied Natural Gas	2.94	3.06	2.00	1.10	0.48	0.17	-0.16	--
	0.52	0.73	0.47	1.25	1.38	1.20	0.84	0.7%
Total Supply	22.00	23.15	22.83	22.67	23.34	24.59	24.37	0.2%
Consumption by Sector								
Residential	4.37	4.72	4.79	4.87	4.96	4.98	4.93	0.2%
Commercial	2.84	3.01	3.06	3.16	3.25	3.35	3.44	0.6%
Industrial ⁴	6.49	6.63	6.43	6.74	6.63	6.72	6.82	0.1%
Natural-Gas-to-Liquids Heat and Power ⁵	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas to Liquids Production ⁶	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Electric Power ⁷	6.22	6.87	6.29	6.03	6.51	7.37	7.01	0.1%
Transportation ⁸	0.02	0.02	0.03	0.05	0.07	0.08	0.09	6.0%
Pipeline Fuel	0.58	0.62	0.62	0.63	0.67	0.71	0.70	0.5%
Lease and Plant Fuel ⁹	1.12	1.17	1.23	1.22	1.29	1.40	1.43	0.9%
Total	21.65	23.05	22.46	22.70	23.38	24.63	24.40	0.2%
Discrepancy ¹⁰	0.35	0.09	0.38	-0.03	-0.03	-0.03	-0.03	--
Natural Gas Prices								
(2007 dollars per million Btu)								
Henry Hub Spot Price	6.91	6.96	6.52	6.89	7.43	8.05	9.25	1.2%
Average Lower 48 Wellhead Price ¹¹	6.48	6.22	5.76	6.09	6.57	7.11	8.17	1.2%
(2007 dollars per thousand cubic feet)								
Average Lower 48 Wellhead Price ¹¹	6.66	6.39	5.92	6.26	6.75	7.31	8.39	1.2%
Delivered Prices								
(2007 dollars per thousand cubic feet)								
Residential	14.08	13.05	12.30	12.31	12.85	13.42	14.73	0.5%
Commercial	12.23	11.30	10.71	10.85	11.44	12.05	13.33	0.7%
Industrial ⁴	8.18	7.73	6.98	7.19	7.69	8.20	9.32	0.8%
Electric Power ⁷	7.25	7.22	6.65	6.88	7.35	7.94	8.94	0.9%
Transportation ¹²	16.49	15.89	15.19	15.12	15.32	15.68	16.71	0.2%
Average ¹³	9.77	9.26	8.68	8.87	9.37	9.87	11.05	0.8%

Table A13. Natural Gas Supply, Disposition, and Prices (Continued)
(Trillion Cubic Feet per Year, Unless Otherwise Noted)

Supply, Disposition, and Prices	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Natural Gas Prices								
(nominal dollars per million Btu)								
Henry Hub Spot Price	6.73	6.96	6.87	7.97	9.60	11.10	13.40	2.9%
Average Lower 48 Wellhead Price ¹¹	6.31	6.22	6.07	7.04	8.48	9.81	11.84	2.8%
(nominal dollars per thousand cubic feet)								
Average Lower 48 Wellhead Price ¹¹	6.49	6.39	6.24	7.24	8.72	10.08	12.17	2.8%
Delivered Prices								
(nominal dollars per thousand cubic feet)								
Residential	13.71	13.05	12.95	14.24	16.59	18.51	21.35	2.2%
Commercial	11.91	11.30	11.28	12.55	14.77	16.62	19.33	2.4%
Industrial ⁴	7.96	7.73	7.35	8.32	9.93	11.31	13.51	2.5%
Electric Power ⁷	7.06	7.22	7.00	7.97	9.49	10.96	12.96	2.6%
Transportation ¹²	16.06	15.89	15.99	17.49	19.78	21.63	24.23	1.9%
Average¹³	9.51	9.26	9.14	10.26	12.10	13.61	16.01	2.4%

¹Marketed production (wet) minus extraction losses.

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

³Includes any natural gas regasified in the Bahamas and transported via pipeline to Florida, as well as gas from Canada and Mexico.

⁴Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

⁵Includes any natural gas used in the process of converting natural gas to liquid fuel that is not actually converted.

⁶Includes any natural gas that is converted into liquid fuel.

⁷Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

⁸Compressed natural gas used as vehicle fuel.

⁹Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

¹⁰Balancing item. Natural gas lost as a result of converting flow data measured at varying temperatures and pressures to a standard temperature and pressure and the merger of different data reporting systems which vary in scope, format, definition, and respondent type. In addition, 2006 and 2007 values include net storage injections.

¹¹Represents lower 48 onshore and offshore supplies.

¹²Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.

¹³Weighted average prices. Weights used are the sectoral consumption values excluding lease, plant, and pipeline fuel.

- - = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 supply values; and lease, plant, and pipeline fuel consumption: Energy Information Administration (EIA), *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007). 2007 supply values; and lease, plant, and pipeline fuel consumption; and wellhead price: EIA, *Natural Gas Monthly*, DOE/EIA-0130(2008/08) (Washington, DC, August 2008). Other 2006 and 2007 consumption based on: EIA, *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008). 2006 wellhead price: Minerals Management Service and EIA, *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007). 2006 residential and commercial delivered prices: EIA, *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007). 2007 residential and commercial delivered prices: EIA, *Natural Gas Monthly*, DOE/EIA-0130(2008/08) (Washington, DC, August 2008). 2006 and 2007 electric power prices: EIA, *Electric Power Monthly*, DOE/EIA-0226, April 2007 and April 2008, Table 4.11.A. 2006 and 2007 industrial delivered prices are estimated based on: EIA, *Manufacturing Energy Consumption Survey 1994* and industrial and wellhead prices from the *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007) and the *Natural Gas Monthly*, DOE/EIA-0130(2008/08) (Washington, DC, August 2008). 2006 transportation sector delivered prices are based on: EIA, *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007) and estimated state taxes, federal taxes, and dispensing costs or charges. 2007 transportation sector delivered prices are model results. **Projections:** EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A14. Oil and Gas Supply

Production and Supply	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Crude Oil								
Lower 48 Average Wellhead Price¹ (2007 dollars per barrel)	61.80	65.70	70.98	107.45	108.34	112.56	121.09	2.7%
Production (million barrels per day)²								
United States Total	5.10	5.07	5.61	5.72	6.46	7.22	7.38	1.6%
Lower 48 Onshore	2.93	2.91	2.92	3.13	3.35	3.77	4.04	1.4%
Lower 48 Offshore	1.43	1.44	2.01	2.09	2.39	2.67	2.77	2.9%
Alaska	0.74	0.72	0.69	0.51	0.71	0.77	0.57	-1.0%
Lower 48 End of Year Reserves² (billion barrels)	18.43	18.62	19.14	20.29	22.45	24.37	25.40	1.4%
Natural Gas								
Lower 48 Average Wellhead Price¹ (2007 dollars per million Btu)								
Henry Hub Spot Price	6.91	6.96	6.52	6.89	7.43	8.05	9.25	1.2%
Average Lower 48 Wellhead Price ¹	6.48	6.22	5.76	6.09	6.57	7.11	8.17	1.2%
(2007 dollars per thousand cubic feet)								
Average Lower 48 Wellhead Price ¹	6.66	6.39	5.92	6.26	6.75	7.31	8.39	1.2%
Dry Production (trillion cubic feet)³								
United States Total	18.48	19.30	20.30	20.26	21.42	23.17	23.62	0.9%
Lower 48 Onshore	15.00	15.91	16.68	16.45	16.09	16.17	16.76	0.2%
Associated-Dissolved ⁴	1.32	1.39	1.41	1.41	1.36	1.37	1.32	-0.2%
Non-Associated	13.69	14.51	15.27	15.05	14.73	14.80	15.44	0.3%
Conventional	5.06	5.36	4.68	4.14	3.39	2.68	2.21	-3.8%
Unconventional	8.62	9.15	10.58	10.90	11.34	12.12	13.23	1.6%
Gas Shale	1.07	1.17	2.30	2.62	2.96	3.42	4.13	5.7%
Coalbed Methane	1.84	1.84	1.78	1.75	1.78	1.90	2.01	0.4%
Tight Gas	5.71	6.15	6.50	6.53	6.60	6.81	7.09	0.6%
Lower 48 Offshore	3.05	2.97	3.25	3.48	4.18	5.04	4.89	2.2%
Associated-Dissolved ⁴	0.63	0.62	0.72	0.89	1.01	1.10	1.13	2.7%
Non-Associated	2.42	2.35	2.54	2.58	3.17	3.94	3.76	2.1%
Alaska	0.42	0.42	0.37	0.33	1.14	1.96	1.96	6.9%
Lower 48 End of Year Dry Reserves³ (trillion cubic feet)	200.84	225.18	229.93	217.95	212.37	211.34	211.90	-0.3%
Supplemental Gas Supplies (trillion cubic feet)⁵	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.2%
Total Lower 48 Wells Drilled (thousands)	49.47	53.51	44.61	45.09	48.04	48.96	53.84	0.0%

¹Represents lower 48 onshore and offshore supplies.

²Includes lease condensate.

³Marketed production (wet) minus extraction losses.

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

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

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 crude oil lower 48 average wellhead price: Energy Information Administration (EIA), *Petroleum Marketing Annual 2007*, DOE/EIA-0487(2007) (Washington, DC, August 2008). 2006 and 2007 lower 48 onshore, lower 48 offshore, and Alaska crude oil production: EIA, *Petroleum Supply Annual 2007*, DOE/EIA-0340(2007)/1 (Washington, DC, July 2008). 2006 U.S. crude oil and natural gas reserves: EIA, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, DOE/EIA-0216(2006) (Washington, DC, December 2007). 2006 Alaska and total natural gas production, and supplemental gas supplies: EIA, *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007). 2006 natural gas lower 48 average wellhead price: Minerals Management Service and EIA, *Natural Gas Annual 2006*, DOE/EIA-0131(2006) (Washington, DC, October 2007). 2007 natural gas lower 48 average wellhead price, Alaska and total natural gas production, and supplemental gas supplies: EIA, *Natural Gas Monthly*, DOE/EIA-0130(2008/08) (Washington, DC, August 2008). Other 2006 and 2007 values: EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A15. Coal Supply, Disposition, and Prices
(Million Short Tons per Year, Unless Otherwise Noted)

Supply, Disposition, and Prices	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Production¹								
Appalachia	392	378	384	347	334	335	342	-0.4%
Interior	151	147	161	193	205	217	255	2.4%
West	619	621	632	666	670	693	739	0.8%
East of the Mississippi	491	478	500	482	477	488	520	0.4%
West of the Mississippi	672	668	677	724	731	757	816	0.9%
Total	1163	1147	1177	1206	1209	1245	1336	0.7%
Waste Coal Supplied²	14	14	11	15	12	12	13	-0.4%
Net Imports								
Imports ³	34	34	34	35	49	46	53	1.9%
Exports	50	59	82	65	53	53	44	-1.3%
Total	-15	-25	-48	-30	-3	-7	9	--
Total Supply⁴	1162	1136	1140	1191	1218	1249	1358	0.8%
Consumption by Sector								
Residential and Commercial	3	3	3	3	3	3	3	0.0%
Coke Plants	23	23	21	20	19	18	18	-1.0%
Other Industrial ⁵	59	56	60	56	56	56	57	0.0%
Coal-to-Liquids Heat and Power	0	0	0	9	16	26	38	--
Coal to Liquids Production	0	0	0	8	14	22	32	--
Electric Power ⁶	1027	1046	1056	1095	1110	1123	1210	0.6%
Total	1112	1129	1140	1191	1218	1249	1358	0.8%
Discrepancy and Stock Change⁷	50	7	0	-0	0	-0	-0	--
Average Minemouth Price⁸								
(2007 dollars per short ton)	25.29	25.82	29.40	28.98	27.94	28.42	28.94	0.5%
(2007 dollars per million Btu)	1.25	1.27	1.44	1.43	1.39	1.42	1.45	0.6%
Delivered Prices (2007 dollars per short ton)⁹								
Coke Plants	95.37	94.97	114.14	115.15	115.36	119.27	115.68	0.9%
Other Industrial ⁵	53.06	54.42	54.48	55.91	54.77	55.63	56.97	0.2%
Coal to Liquids	--	--	--	17.20	17.88	20.13	21.07	--
Electric Power								
(2007 dollars per short ton)	34.86	35.45	37.54	38.56	38.10	38.92	40.61	0.6%
(2007 dollars per million Btu)	1.74	1.77	1.88	1.95	1.92	1.96	2.04	0.6%
Average	37.11	37.61	39.86	40.40	39.56	40.13	41.30	0.4%
Exports ¹⁰	72.84	70.25	83.43	88.59	89.44	89.81	79.74	0.6%

Table A15. Coal Supply, Disposition, and Prices (Continued)
(Million Short Tons per Year, Unless Otherwise Noted)

Supply, Disposition, and Prices	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Average Minemouth Price⁸								
(nominal dollars per short ton)	24.63	25.82	30.95	33.53	36.07	39.20	41.95	2.1%
(nominal dollars per million Btu)	1.21	1.27	1.51	1.66	1.80	1.96	2.10	2.2%
Delivered Prices (nominal dollars per short ton)⁹								
Coke Plants	92.87	94.97	120.18	133.24	148.96	164.52	167.68	2.5%
Other Industrial ⁵	51.67	54.42	57.36	64.69	70.72	76.73	82.58	1.8%
Coal to Liquids	--	--	--	19.91	23.09	27.77	30.55	--
Electric Power								
(nominal dollars per short ton)	33.95	35.45	39.53	44.62	49.19	53.68	58.87	2.2%
(nominal dollars per million Btu)	1.69	1.77	1.98	2.25	2.48	2.71	2.96	2.3%
Average	36.14	37.61	41.96	46.74	51.08	55.35	59.87	2.0%
Exports ¹⁰	70.93	70.25	87.84	102.50	115.48	123.87	115.59	2.2%

¹Includes anthracite, bituminous coal, subbituminous coal, and lignite.
²Includes waste coal consumed by the electric power and industrial sectors. Waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in the consumption data.
³Excludes imports to Puerto Rico and the U.S. Virgin Islands.
⁴Production plus waste coal supplied plus net imports.
⁵Includes consumption for combined heat and power plants, except those plants whose primary business is to sell electricity, or electricity and heat, to the public. Excludes all coal use in the coal-to-liquids process.
⁶Includes all electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
⁷Balancing item: the sum of production, net imports, and waste coal supplied minus total consumption.
⁸Includes reported prices for both open market and captive mines.
⁹Prices weighted by consumption; weighted average excludes residential and commercial prices, and export free-alongside-ship (f.a.s.) prices.
¹⁰F.a.s. price at U.S. port of exit.
-- = Not applicable.
Btu = British thermal unit.
Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.
Sources: 2006 and 2007 data based on: Energy Information Administration (EIA), *Annual Coal Report 2007*, DOE/EIA-0584(2007) (Washington, DC, September 2008); EIA, *Quarterly Coal Report, October-December 2007*, DOE/EIA-0121(2007/4Q) (Washington, DC, March 2008); and EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B. **Projections:** EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A16. Renewable Energy Generating Capacity and Generation
(Gigawatts, Unless Otherwise Noted)

Capacity and Generation	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Electric Power Sector¹								
Net Summer Capacity								
Conventional Hydropower	76.72	76.72	76.73	76.82	77.12	77.28	77.57	0.0%
Geothermal ²	2.29	2.36	2.53	2.60	2.66	2.73	2.89	0.9%
Municipal Waste ³	3.39	3.43	3.97	4.01	4.05	4.14	4.15	0.8%
Wood and Other Biomass ^{4,5}	2.01	2.18	2.20	2.20	4.24	4.77	8.63	6.2%
Solar Thermal	0.40	0.53	0.54	0.79	0.81	0.84	0.86	2.1%
Solar Photovoltaic ⁶	0.03	0.04	0.06	0.13	0.21	0.29	0.38	10.4%
Wind	11.29	16.19	29.45	30.96	33.20	38.93	43.14	4.4%
Offshore Wind	0.00	0.00	0.00	0.20	0.20	0.20	0.20	--
Total	96.13	101.46	115.48	117.71	122.49	129.19	137.82	1.3%
Generation (billion kilowatthours)								
Conventional Hydropower	286.11	245.86	268.05	294.96	296.78	297.80	298.92	0.9%
Geothermal ²	14.57	14.84	17.78	18.62	19.11	19.62	20.91	1.5%
Biogenic Municipal Waste ⁷	13.71	14.42	18.71	19.01	19.34	20.06	20.14	1.5%
Wood and Other Biomass ⁵	10.33	10.38	27.74	55.00	115.76	133.63	141.03	12.0%
Dedicated Plants	8.42	8.41	12.77	13.09	28.76	32.97	60.76	9.0%
Cofiring	1.91	1.97	14.97	41.91	87.00	100.66	80.27	17.5%
Solar Thermal	0.49	0.60	0.99	1.81	1.88	1.95	2.02	5.5%
Solar Photovoltaic ⁶	0.01	0.01	0.14	0.30	0.49	0.72	0.94	21.3%
Wind	26.59	32.14	80.47	85.61	93.09	112.10	127.65	6.2%
Offshore Wind	0.00	0.00	0.00	0.75	0.75	0.75	0.75	--
Total	351.82	318.25	413.88	476.07	547.20	586.63	612.36	2.9%
End-Use Generators⁸								
Net Summer Capacity								
Conventional Hydropower ⁹	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.0%
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste ¹⁰	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.0%
Biomass	4.64	4.64	4.65	5.43	7.27	11.02	13.22	4.7%
Solar Photovoltaic ⁶	0.28	0.43	1.73	7.04	9.71	10.13	11.82	15.5%
Wind	0.04	0.04	0.04	0.04	0.09	0.17	0.32	9.3%
Total	5.99	6.15	7.46	13.55	18.10	22.35	26.39	6.5%
Generation (billion kilowatthours)								
Conventional Hydropower ⁹	2.99	2.45	2.45	2.45	2.45	2.45	2.45	0.0%
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
Municipal Waste ¹⁰	1.98	2.01	2.75	2.75	2.75	2.75	2.75	1.4%
Biomass	28.32	28.13	28.20	33.36	47.12	75.47	90.75	5.2%
Solar Photovoltaic ⁶	0.44	0.68	2.79	11.54	15.99	16.68	19.55	15.7%
Wind	0.06	0.06	0.06	0.06	0.12	0.25	0.46	9.6%
Total	33.78	33.33	36.25	50.17	68.45	97.60	115.96	5.6%

Table A16. Renewable Energy Generating Capacity and Generation
(Gigawatts, Unless Otherwise Noted)

Capacity and Generation	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Total, All Sectors								
Net Summer Capacity								
Conventional Hydropower	77.42	77.42	77.43	77.52	77.82	77.98	78.27	0.0%
Geothermal	2.29	2.36	2.53	2.60	2.66	2.73	2.89	0.9%
Municipal Waste	3.72	3.77	4.30	4.34	4.38	4.48	4.49	0.8%
Wood and Other Biomass ^{4,5}	6.65	6.82	6.85	7.63	11.51	15.79	21.85	5.2%
Solar ⁶	0.71	1.00	2.33	7.96	10.73	11.26	13.06	11.8%
Wind	11.33	16.23	29.49	31.20	33.48	39.31	43.66	4.4%
Total	102.12	107.60	122.94	131.26	140.59	151.54	164.21	1.9%
Generation (billion kilowatthours)								
Conventional Hydropower	289.11	248.31	270.50	297.41	299.23	300.25	301.37	0.8%
Geothermal	14.57	14.84	17.78	18.62	19.11	19.62	20.91	1.5%
Municipal Waste	15.69	16.43	21.46	21.76	22.09	22.82	22.90	1.5%
Wood and Other Biomass ⁹	38.65	38.51	55.95	88.37	162.89	209.10	231.78	8.1%
Solar ⁶	0.95	1.29	3.91	13.65	18.37	19.34	22.51	13.3%
Wind	26.64	32.20	80.52	86.42	93.96	113.10	128.86	6.2%
Total	385.61	351.58	450.13	526.24	615.64	684.23	728.32	3.2%

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

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

³Includes municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

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

⁵Includes projections for energy crops after 2012.

⁶Does not include off-grid photovoltaics (PV). Based on annual PV shipments from 1989 through 2006, EIA estimates that as much as 210 megawatts of remote electricity generation PV applications (i.e., off-grid power systems) were in service in 2006, plus an additional 526 megawatts in communications, transportation, and assorted other non-grid-connected, specialized applications. See Energy Information Administration, *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008), Table 10.8 (annual PV shipments, 1989-2006). The approach used to develop the estimate, based on shipment data, provides an upper estimate of the size of the PV stock, including both grid-based and off-grid PV. It will overestimate the size of the stock, because shipments include a substantial number of units that are exported, and each year some of the PV units installed earlier will be retired from service or abandoned.

⁷Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates that in 2007 approximately 6 billion kilowatthours of electricity were generated from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, *Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy* (Washington, DC, May 2007).

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

⁹Represents own-use industrial hydroelectric power.

¹⁰Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 capacity: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report" (preliminary). 2006 and 2007 generation: EIA, *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008). Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A17. Renewable Energy, Consumption by Sector and Source¹
(Quadrillion Btu per Year)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Marketed Renewable Energy²								
Residential (wood)	0.39	0.43	0.43	0.46	0.48	0.49	0.50	0.7%
Commercial (biomass)	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.0%
Industrial³	2.06	2.07	2.23	2.51	2.86	3.41	3.61	2.4%
Conventional Hydroelectric	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Municipal Waste ⁴	0.15	0.16	0.12	0.12	0.12	0.12	0.12	-1.2%
Biomass	1.52	1.46	1.34	1.41	1.49	1.63	1.81	0.9%
Biofuels Heat and Coproducts	0.36	0.43	0.75	0.95	1.22	1.63	1.66	6.0%
Transportation	0.44	0.61	1.23	1.68	2.05	2.95	3.45	7.8%
Ethanol used in E85 ⁵	0.00	0.00	0.00	0.22	0.55	1.14	1.46	37.2%
Ethanol used in Gasoline Blending	0.41	0.55	1.09	1.16	1.10	1.04	1.04	2.8%
Biodiesel used in Distillate Blending	0.03	0.06	0.13	0.20	0.19	0.23	0.24	6.1%
Liquids from Biomass	0.00	0.00	0.00	0.02	0.15	0.47	0.65	--
Green Liquids	0.00	0.00	0.02	0.08	0.06	0.06	0.06	--
Electric Power⁶	3.76	3.45	4.41	5.05	5.77	6.18	6.40	2.7%
Conventional Hydroelectric	2.84	2.44	2.65	2.91	2.93	2.94	2.95	0.8%
Geothermal	0.31	0.31	0.38	0.41	0.43	0.44	0.48	1.9%
Biogenic Municipal Waste ⁷	0.15	0.17	0.22	0.23	0.23	0.24	0.24	1.7%
Biomass	0.19	0.21	0.35	0.62	1.23	1.41	1.42	8.6%
Dedicated Plants	0.15	0.16	0.15	0.13	0.28	0.32	0.59	5.8%
Cofiring	0.04	0.05	0.20	0.50	0.95	1.09	0.83	13.1%
Solar Thermal	0.00	0.01	0.01	0.02	0.02	0.02	0.02	5.5%
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.01	0.01	21.3%
Wind	0.26	0.32	0.80	0.85	0.93	1.12	1.27	6.2%
Total Marketed Renewable Energy	6.77	6.69	8.42	9.82	11.29	13.16	14.09	3.3%
Sources of Ethanol								
From Corn	0.35	0.52	1.09	1.34	1.41	1.44	1.44	4.5%
From Cellulose	0.00	0.00	0.00	0.03	0.18	0.42	0.43	--
Imports	0.06	0.03	-0.00	0.01	0.06	0.32	0.63	14.5%
Total	0.41	0.55	1.09	1.39	1.65	2.19	2.50	6.8%

Table A17. Renewable Energy, Consumption by Sector and Source¹
(Quadrillion Btu per Year)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Nonmarketed Renewable Energy⁸								
Selected Consumption								
Residential	0.02	0.02	0.03	0.07	0.09	0.09	0.10	7.6%
Solar Hot Water Heating	0.02	0.02	0.02	0.02	0.02	0.03	0.03	2.6%
Geothermal Heat Pumps	0.00	0.00	0.00	0.01	0.01	0.02	0.02	9.0%
Solar Photovoltaic	0.00	0.00	0.01	0.03	0.05	0.05	0.05	25.2%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Commercial	0.03	0.03	0.03	0.03	0.03	0.04	0.04	2.0%
Solar Thermal	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.5%
Solar Photovoltaic	0.00	0.00	0.00	0.01	0.01	0.01	0.01	8.4%
Wind	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.4%

¹Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,022 Btu per kilowatt-hour.

²Includes nonelectric renewable energy groups for which the energy source is bought and sold in the marketplace, although all transactions may not necessarily be marketed, and marketed renewable energy inputs for electricity entering the marketplace on the electric power grid. Excludes electricity imports; see Table A2.

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

⁴Includes municipal solid waste, landfill gas, and municipal sewage sludge. All municipal solid waste is included, although a portion of the municipal solid waste stream contains petroleum-derived plastics and other non-renewable sources.

⁵Excludes motor gasoline component of E85.

⁶Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

⁷Includes biogenic municipal solid waste, landfill gas, and municipal sewage sludge. Incremental growth is assumed to be for landfill gas facilities. Only biogenic municipal waste is included. The Energy Information Administration estimates that in 2007 approximately .3 quadrillion Btus were consumed from a municipal waste stream containing petroleum-derived plastics and other non-renewable sources. See Energy Information Administration, Methodology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy (Washington, DC, May 2007).

⁸Includes selected renewable energy consumption data for which the energy is not bought or sold, either directly or indirectly as an input to marketed energy. The Energy Information Administration does not estimate or project total consumption of nonmarketed renewable energy.

-- = Not applicable.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 ethanol: Energy Information Administration (EIA), *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008). 2006 and 2007 electric power sector: EIA, Form EIA-860, "Annual Electric Generator Report" (preliminary). Other 2006 and 2007 values: EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A18. Carbon Dioxide Emissions by Sector and Source
(Million Metric Tons, Unless Otherwise Noted)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Residential								
Petroleum	89	88	89	82	80	77	75	-0.7%
Natural Gas	237	257	261	266	270	272	269	0.2%
Coal	1	1	1	1	1	1	1	1.1%
Electricity ¹	871	904	887	876	899	928	984	0.4%
Total	1198	1250	1238	1225	1250	1278	1328	0.3%
Commercial								
Petroleum	45	45	42	42	42	42	42	-0.3%
Natural Gas	154	163	167	172	177	183	187	0.6%
Coal	6	7	6	6	6	6	6	-0.4%
Electricity ¹	837	872	878	927	979	1023	1091	1.0%
Total	1043	1088	1093	1148	1204	1255	1327	0.9%
Industrial²								
Petroleum	420	406	385	381	370	369	378	-0.3%
Natural Gas ³	395	405	405	421	419	431	438	0.3%
Coal	186	175	175	177	183	197	215	0.9%
Electricity ¹	652	653	618	630	612	609	636	-0.1%
Total	1653	1640	1583	1609	1584	1606	1667	0.1%
Transportation								
Petroleum ⁴	1975	1974	1865	1890	1909	1941	2037	0.1%
Natural Gas ⁵	33	35	36	37	40	43	43	0.8%
Electricity ¹	4	4	4	5	6	7	9	3.2%
Total	2013	2014	1904	1932	1955	1991	2088	0.2%
Electric Power⁶								
Petroleum	66	66	38	39	39	40	41	-2.0%
Natural Gas	339	376	343	329	355	402	382	0.1%
Coal	1947	1980	1995	2058	2089	2114	2285	0.6%
Other ⁷	12	12	12	12	12	12	12	0.1%
Total	2364	2433	2388	2437	2495	2568	2720	0.5%
Total by Fuel								
Petroleum ³	2596	2580	2419	2434	2440	2469	2572	-0.0%
Natural Gas	1159	1237	1212	1225	1262	1331	1319	0.3%
Coal	2140	2162	2177	2242	2278	2318	2507	0.6%
Other ⁷	12	12	12	12	12	12	12	0.1%
Total	5907	5991	5819	5913	5993	6130	6410	0.3%
Carbon Dioxide Emissions (tons per person)	19.7	19.8	18.7	18.1	17.5	17.1	17.1	-0.6%

¹Emissions from the electric power sector are distributed to the end-use sectors.

²Fuel consumption includes energy for combined heat and power plants (CHP), except those plants whose primary business is to sell electricity, or electricity and heat, to the public.

³Includes lease and plant fuel.

⁴This includes carbon dioxide from international bunker fuels, both civilian and military, which are excluded from the accounting of carbon dioxide emissions under the United Nations convention. From 1990 through 2007, international bunker fuels accounted for 84 to 131 million metric tons annually.

⁵Includes pipeline fuel natural gas and compressed natural gas used as vehicle fuel.

⁶Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.

⁷Includes emissions from geothermal power and nonbiogenic emissions from municipal solid waste.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 emissions and emission factors: Energy Information Administration (EIA), *Emissions of Greenhouse Gases in the United States 2007*, DOE/EIA-0573(2007) (Washington, DC, December 2008). Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A19. Energy-Related Carbon Dioxide Emissions by End Use
(Million Metric Tons)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Residential								
Space Heating	262.44	292.79	292.36	290.89	291.30	289.07	285.88	-0.1%
Space Cooling	157.96	168.73	158.75	162.66	169.66	177.57	189.38	0.5%
Water Heating	165.56	165.97	161.91	161.57	166.88	167.86	164.99	-0.0%
Refrigeration	73.73	73.53	68.87	67.09	67.91	69.08	73.20	-0.0%
Cooking	33.18	33.74	34.00	35.63	37.36	38.53	40.23	0.8%
Clothes Dryers	54.20	54.72	53.40	53.68	53.98	54.82	57.93	0.2%
Freezers	15.59	15.54	14.64	14.44	14.65	14.89	15.61	0.0%
Lighting	140.12	139.35	132.13	106.46	97.52	91.07	90.30	-1.9%
Clothes Washers ¹	6.70	6.65	5.99	5.39	4.74	4.64	4.91	-1.3%
Dishwashers ¹	18.04	18.13	17.32	17.27	17.80	18.58	20.01	0.4%
Color Televisions and Set-Top Boxes	64.02	68.64	74.32	74.36	77.14	84.87	96.87	1.5%
Personal Computers and Related Equipment ..	27.08	29.19	33.46	33.49	34.60	36.35	39.28	1.3%
Furnace Fans and Boiler Circulation Pumps ...	21.51	24.35	24.22	25.58	26.76	27.32	28.33	0.7%
Other Uses	157.49	165.08	166.75	176.32	189.48	203.19	221.28	1.3%
Discrepancy ²	0.57	-6.59	-0.00	0.00	0.00	0.00	-0.00	--
Total Residential	1198.19	1249.82	1238.13	1224.83	1249.80	1277.84	1328.19	0.3%
Commercial								
Space Heating ³	112.77	121.65	122.96	124.17	125.16	124.64	123.03	0.0%
Space Cooling ³	102.77	107.73	102.69	104.82	106.75	109.31	114.52	0.3%
Water Heating ³	43.27	43.32	42.26	44.15	45.74	47.08	47.88	0.4%
Ventilation	90.03	93.93	97.87	106.96	113.25	117.52	122.84	1.2%
Cooking	13.01	13.26	13.69	14.21	14.70	15.22	15.62	0.7%
Lighting	203.06	204.00	195.69	198.23	201.94	204.07	209.98	0.1%
Refrigeration	74.86	76.78	73.04	68.24	66.76	66.74	69.33	-0.4%
Office Equipment (PC)	40.50	46.08	46.77	48.73	51.51	54.89	58.43	1.0%
Office Equipment (non-PC)	36.39	40.08	47.47	57.91	66.63	70.76	74.80	2.7%
Other Uses ⁴	326.53	340.75	350.84	380.29	411.70	444.58	490.75	1.6%
Total Commercial	1043.20	1087.58	1093.28	1147.71	1204.13	1254.81	1327.17	0.9%
Industrial								
Manufacturing								
Refining	250.67	251.30	262.12	280.42	291.35	304.65	329.25	1.2%
Food Products	95.58	98.57	103.60	103.61	107.55	112.25	119.51	0.8%
Paper Products	97.37	93.56	87.30	87.01	85.71	85.66	88.77	-0.2%
Bulk Chemicals	313.22	313.66	280.79	272.06	247.59	236.02	221.81	-1.5%
Glass	17.09	17.18	16.92	20.35	21.25	21.47	21.31	0.9%
Cement Manufacturing	42.36	41.73	33.19	39.68	40.14	40.72	40.57	-0.1%
Iron and Steel	141.17	137.15	119.11	121.82	113.35	113.48	116.10	-0.7%
Aluminum	46.43	44.83	42.60	40.05	36.67	34.14	32.17	-1.4%
Fabricated Metal Products	42.57	42.78	36.20	40.00	36.81	36.69	36.42	-0.7%
Machinery	21.55	21.37	18.45	21.16	20.65	21.05	21.88	0.1%
Computers and Electronics	28.11	29.59	24.77	28.66	32.36	38.03	53.43	2.6%
Transportation Equipment	43.20	42.05	39.77	41.60	40.10	40.96	41.54	-0.1%
Electrical Equipment	16.99	17.30	13.95	16.21	16.84	18.62	22.33	1.1%
Wood Products	18.37	17.78	17.91	22.10	20.06	19.37	19.53	0.4%
Plastics	40.86	40.76	37.66	38.37	38.81	39.48	43.24	0.3%
Balance of Manufacturing	174.80	170.54	150.57	153.96	154.41	154.23	160.01	-0.3%
Total Manufacturing	1390.35	1380.13	1284.89	1327.07	1303.64	1316.83	1367.89	-0.0%
Nonmanufacturing								
Agriculture	82.05	96.37	86.47	87.17	85.66	86.13	88.92	-0.3%
Mining	81.75	76.75	59.46	75.85	72.37	72.42	75.99	-0.0%
Construction	83.77	80.59	77.03	77.80	76.17	78.10	79.50	-0.1%
Total Nonmanufacturing	247.57	253.71	222.96	240.82	234.20	236.64	244.41	-0.2%
Discrepancy ²	14.64	5.98	75.46	40.92	46.30	52.43	54.50	--
Total Industrial	1652.56	1639.83	1583.31	1608.81	1584.14	1605.90	1666.80	0.1%

Table A19. Energy-Related Carbon Dioxide Emissions by End Use (Continued)
(Million Metric Tons)

Sector and Source	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Transportation								
Light-Duty Vehicles	1146.29	1137.83	1087.87	1040.67	1019.80	997.46	1005.88	-0.5%
Commercial Light Trucks ⁵	43.12	43.08	38.24	40.53	40.23	41.09	44.34	0.1%
Bus Transportation	19.95	19.57	19.13	19.04	19.11	19.45	20.02	0.1%
Freight Trucks	368.22	371.84	343.96	392.30	410.17	437.01	488.68	1.2%
Rail, Passenger	5.69	5.82	5.84	6.28	6.59	6.87	7.29	1.0%
Rail, Freight	42.89	43.01	40.79	44.53	46.38	48.31	52.17	0.8%
Shipping, Domestic	25.02	25.11	23.50	25.80	27.42	29.27	30.72	0.9%
Shipping, International	66.06	69.31	62.74	69.81	70.26	70.70	71.23	0.1%
Recreational Boats	17.26	17.48	17.01	17.40	17.83	18.28	18.73	0.3%
Air	192.25	192.03	174.40	185.43	203.37	225.46	250.78	1.2%
Military Use	49.63	50.27	52.92	51.51	52.83	54.14	55.41	0.4%
Lubricants	5.45	5.19	5.17	5.32	5.41	5.52	5.67	0.4%
Pipeline Fuel	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.5%
Discrepancy ²	30.97	33.02	32.75	33.23	35.43	37.77	37.13	- -
Total Transportation	2012.83	2013.59	1904.37	1931.88	1954.86	1991.36	2088.09	0.2%

¹Does not include water heating portion of load.

²Represents differences between total emissions by end-use and total emissions by fuel as reported in Table A17. Emissions by fuel may reflect benchmarking and other modeling adjustments to energy use and the associated emissions that are not assigned to specific end uses.

³Includes emissions related to fuel consumption for district services.

⁴Includes miscellaneous uses, such as service station equipment, automated teller machines, telecommunications equipment, medical equipment, pumps, emergency generators, combined heat and power in commercial buildings, manufacturing performed in commercial buildings, and cooking (distillate), plus emissions from residual fuel oil, liquefied petroleum gases, coal, motor gasoline, and kerosene.

⁵Commercial trucks 8,500 to 10,000 pounds.

- - = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 emissions and emission factors: Energy Information Administration (EIA), *Emissions of Greenhouse Gases in the United States 2007*, DOE/EIA-0573(2007) (Washington, DC, December 2008). Projections: EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A20. Macroeconomic Indicators
(Billion 2000 Chain-Weighted Dollars, Unless Otherwise Noted)

Indicators	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Real Gross Domestic Product	11295	11524	11793	13724	15511	17584	20112	2.5%
Components of Real Gross Domestic Product								
Real Consumption	8029	8253	8446	9618	10871	12140	13435	2.1%
Real Investment	1912	1810	1588	2252	2563	3064	3755	3.2%
Real Government Spending	1971	2012	2065	2093	2193	2296	2427	0.8%
Real Exports	1315	1426	1589	2290	3060	4121	5819	6.3%
Real Imports	1931	1972	1906	2446	3014	3724	4716	3.9%
Energy Intensity (thousand Btu per 2000 dollar of GDP)								
Delivered Energy	6.46	6.42	6.09	5.40	4.86	4.44	4.04	-2.0%
Total Energy	8.86	8.84	8.47	7.50	6.80	6.20	5.64	-1.9%
Price Indices								
GDP Chain-type Price Index (2000=1.000) ...	1.167	1.198	1.262	1.386	1.547	1.653	1.737	1.6%
Consumer Price Index (1982-4=1.00)								
All-urban	2.02	2.07	2.19	2.49	2.83	3.08	3.31	2.1%
Energy Commodities and Services	1.97	2.08	2.12	2.74	3.16	3.51	3.88	2.8%
Wholesale Price Index (1982=1.00)								
All Commodities	1.65	1.73	1.78	2.01	2.19	2.27	2.36	1.4%
Fuel and Power	1.67	1.77	1.86	2.37	2.75	3.07	3.46	2.9%
Metals and Metal Products	1.82	1.93	1.82	2.08	2.21	2.18	2.23	0.6%
Interest Rates (percent, nominal)								
Federal Funds Rate	4.96	5.02	1.23	5.47	5.17	5.19	4.02	--
10-Year Treasury Note	4.79	4.63	3.59	5.78	5.85	5.66	4.66	--
AA Utility Bond Rate	5.84	5.94	6.28	7.75	7.48	7.16	5.78	--
Value of Shipments (billion 2000 dollars)								
Total Industrial	5763	5750	5256	6262	6752	7398	8451	1.7%
Nonmanufacturing	1503	1490	1277	1575	1600	1669	1780	0.8%
Manufacturing	4260	4261	3979	4687	5151	5729	6670	2.0%
Energy-Intensive	1218	1239	1243	1320	1376	1441	1526	0.9%
Non-energy Intensive	3042	3022	2735	3367	3775	4288	5145	2.3%
Population and Employment (millions)								
Population, with Armed Forces Overseas	299.6	302.4	311.4	326.7	342.6	358.9	375.1	0.9%
Population, aged 16 and over	234.5	237.2	245.2	257.4	270.4	283.9	297.6	1.0%
Population, over age 65	37.4	38.0	40.4	47.0	55.0	64.2	72.3	2.8%
Employment, Nonfarm	135.7	137.2	135.7	147.0	152.5	159.1	168.3	0.9%
Employment, Manufacturing	14.2	13.9	12.2	12.6	12.3	12.1	11.7	-0.7%
Key Labor Indicators								
Labor Force (millions)	151.4	153.1	155.9	163.1	168.4	174.0	181.5	0.7%
Nonfarm Labor Productivity (1992=1.00)	1.35	1.37	1.45	1.57	1.74	1.93	2.14	1.9%
Unemployment Rate (percent)	4.61	4.64	8.21	5.74	5.54	5.41	4.78	--
Key Indicators for Energy Demand								
Real Disposable Personal Income	8407	8644	9039	10463	12024	13709	15442	2.6%
Housing Starts (millions)	1.93	1.44	1.20	1.99	1.77	1.74	1.74	0.8%
Commercial Floorspace (billion square feet) ..	75.8	77.3	81.2	86.1	92.2	97.5	103.3	1.3%
Unit Sales of Light-Duty Vehicles (millions) ...	16.50	16.09	14.30	16.92	17.41	18.85	21.03	1.2%

GDP = Gross domestic product.

Btu = British thermal unit.

-- = Not applicable.

Sources: 2006 and 2007: Global Insight, Global Insight Industry and Employment models, November 2008. **Projections:** Energy Information Administration, AEO2009 National Energy Modeling System run AEO2009.D112408B.

Table A21. International Liquids Supply and Disposition Summary
(Million Barrels per Day, Unless Otherwise Noted)

Supply and Disposition	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Crude Oil Prices (2007 dollars per barrel)¹								
Imported Low Sulfur Light Crude Oil	67.82	72.33	77.97	109.96	115.64	121.47	130.50	2.6%
Imported Crude Oil ¹	60.70	63.83	71.97	107.64	110.34	115.01	123.81	2.9%
Crude Oil Prices (nominal dollars per barrel)¹								
Imported Low Sulfur Light Crude Oil	66.04	72.33	82.09	127.23	149.32	167.54	189.16	4.3%
Imported Crude Oil ¹	59.10	63.83	75.78	124.55	142.47	158.63	179.47	4.6%
Conventional Production (Conventional)²								
OPEC ³								
Middle East	23.50	22.97	22.92	23.76	25.38	26.56	28.26	0.9%
North Africa	3.93	4.02	4.25	4.54	4.61	4.81	5.19	1.1%
West Africa	3.88	4.12	4.81	5.19	5.23	5.48	5.92	1.6%
South America	2.68	2.58	2.26	2.14	2.42	2.66	2.73	0.2%
Total OPEC	33.99	33.68	34.23	35.63	37.64	39.51	42.10	1.0%
Non-OPEC								
OECD								
United States (50 states)	7.91	8.13	8.75	8.90	9.64	10.37	10.45	1.1%
Canada	2.06	2.05	1.90	1.50	1.25	1.11	1.02	-3.0%
Mexico	3.71	3.50	2.87	2.53	2.24	2.29	2.45	-1.5%
OECD Europe ⁴	5.48	5.23	4.27	3.61	3.18	3.01	2.94	-2.5%
Japan	0.13	0.13	0.14	0.15	0.16	0.17	0.18	1.3%
Australia and New Zealand	0.58	0.64	0.82	0.79	0.78	0.78	0.77	0.8%
Total OECD	19.86	19.68	18.74	17.47	17.24	17.72	17.81	-0.4%
Non-OECD								
Russia	9.68	9.88	9.50	9.73	10.24	10.28	10.50	0.3%
Other Eurasia ⁵	2.63	2.88	3.58	4.15	4.50	4.60	4.86	2.3%
China	3.84	3.90	3.75	3.53	3.52	3.32	3.19	-0.9%
Other Asia ⁶	3.88	3.75	3.88	3.73	3.85	3.85	3.68	-0.1%
Middle East ⁷	1.62	1.52	1.42	1.40	1.40	1.37	1.36	-0.5%
Africa	2.41	2.41	2.65	2.60	2.72	2.85	2.98	0.9%
Brazil	1.86	1.88	2.48	2.90	3.45	3.82	4.19	3.5%
Other Central and South America	1.83	1.79	1.70	1.51	1.56	1.76	2.05	0.6%
Total Non-OECD	27.75	28.01	28.96	29.56	31.25	31.83	32.81	0.7%
Total Conventional Production	81.60	81.37	81.94	82.65	86.13	89.06	92.73	0.6%
Unconventional Production⁸								
United States (50 states)	0.29	0.44	0.92	1.27	1.54	2.06	2.33	7.6%
Other North America	1.23	1.38	1.92	2.83	3.34	3.86	4.31	5.1%
OECD Europe ³	0.09	0.11	0.13	0.15	0.19	0.23	0.27	4.1%
Middle East ⁷	0.09	0.09	0.01	0.12	0.17	0.21	0.22	3.7%
Africa	0.17	0.23	0.27	0.42	0.50	0.61	0.72	5.2%
Central and South America	0.91	1.02	1.15	1.51	2.04	2.61	3.16	5.0%
Other	0.24	0.30	0.47	0.60	0.78	1.23	1.63	7.7%
Total Unconventional Production	3.01	3.56	4.86	6.89	8.55	10.80	12.63	5.7%
Total Production	84.62	84.93	86.80	89.54	94.69	99.86	105.36	0.9%

Table A21. International Liquids Supply and Disposition Summary (Continued)
(Million Barrels per Day, Unless Otherwise Noted)

Supply and Disposition	Reference Case							Annual Growth 2007-2030 (percent)
	2006	2007	2010	2015	2020	2025	2030	
Consumption⁹								
OECD								
United States (50 states)	20.65	20.65	19.79	20.21	20.23	20.77	21.65	0.2%
United States Territories	0.38	0.39	0.44	0.49	0.53	0.57	0.62	2.0%
Canada	2.31	2.41	2.28	2.24	2.29	2.34	2.39	-0.0%
Mexico	2.06	2.10	2.06	2.13	2.28	2.46	2.67	1.0%
OECD Europe ³	15.75	15.36	14.74	14.24	14.24	14.28	14.27	-0.3%
Japan	5.22	5.02	4.68	4.37	4.27	4.16	4.02	-1.0%
South Korea	2.29	2.34	2.31	2.46	2.58	2.71	2.81	0.8%
Australia and New Zealand	1.06	1.08	1.04	1.05	1.09	1.14	1.20	0.5%
Total OECD	49.73	49.35	47.35	47.19	47.51	48.44	49.62	0.0%
Non-OECD								
Russia	2.83	2.88	2.97	3.02	3.18	3.29	3.35	0.7%
Other Non-OECD Eurasia ⁵	2.18	2.24	2.34	2.46	2.64	2.81	2.96	1.2%
China	7.22	7.63	8.50	9.34	11.29	13.16	15.08	3.0%
India	2.42	2.46	2.60	3.00	3.51	3.99	4.52	2.7%
Other Non-OECD Asia	6.21	6.28	6.39	7.08	7.75	8.38	9.03	1.6%
Middle East ⁷	6.11	6.42	7.02	7.59	8.26	8.87	9.45	1.7%
Africa	3.08	3.22	3.49	3.65	3.90	3.99	4.02	1.0%
Brazil	2.27	2.37	2.55	2.63	2.84	3.06	3.32	1.5%
Other Central and South America	3.20	3.35	3.60	3.58	3.73	3.90	4.04	0.8%
Total Non-OECD	35.54	36.85	39.46	42.34	47.10	51.45	55.77	1.8%
Total Consumption	85.26	86.20	86.81	89.52	94.62	99.89	105.39	0.9%
OPEC Production ¹⁰	34.67	34.38	34.89	36.48	38.68	40.74	43.56	1.0%
Non-OPEC Production ¹⁰	49.94	50.55	51.90	53.06	56.01	59.12	61.80	0.9%
Net Eurasia Exports	9.15	9.52	10.24	11.30	12.37	12.60	13.25	1.5%
OPEC Market Share	41.0	40.5	40.2	40.7	40.8	40.8	41.3	--

¹Weighted average price delivered to U.S. refiners.

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

³OPEC = Organization of Petroleum Exporting Countries - Algeria, Angola, Ecuador, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

⁴OECD Europe = Organization for Economic Cooperation and Development - Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

⁵Eurasia consists of Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.

⁶Other Asia = Afghanistan, Bangladesh, Bhutan, Brunei, Cambodia (Kampuchea), Fiji, French Polynesia, Guam, Hong Kong, Indonesia, Kiribati, Laos, Malaysia, Macau, Maldives, Mongolia, Myanmar (Burma), Nauru, Nepal, New Caledonia, Niue, North Korea, Pakistan, Papua New Guinea, Philippines, Samoa, Singapore, Solomon Islands, Sri Lanka, Taiwan, Thailand, Tonga, Vanuatu, and Vietnam.

⁷Non-OPEC Middle East includes Turkey.

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

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

¹⁰Includes both conventional and nonconventional liquids production.

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2006 and 2007 are model results and may differ slightly from official EIA data reports.

Sources: 2006 and 2007 low sulfur light crude oil price: Energy Information Administration (EIA), Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report." 2006 and 2007 imported crude oil price: EIA, *Annual Energy Review 2007*, DOE/EIA-0384(2007) (Washington, DC, June 2008). 2006 quantities derived from: EIA, *International Energy Annual 2006*, DOE/EIA-0219(2006) (Washington, DC, June-October 2008). **2007 quantities and projections:** EIA, AEO2009 National Energy Modeling System run AEO2009.D112408B and EIA, Generate World Oil Balance Model.