October Futures and High B Oil Price Case Comparisons

Table D1. Total Energy Supply and Disposition Summary
(Quadrillion Btu per Year, Unless Otherwise Noted)

Supply, Disposition, and Prices	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
Production										
Crude Oil and Lease Condensate	12.03	12.75	13.04	13.18	11.03	11.35	12.21	10.01	10.54	11.22
Natural Gas Plant Liquids	2.34	2.66	2.70	2.78	2.80	2.86	3.01	2.81	2.84	3.00
Dry Natural Gas	19.58	20.97	21.34	22.09	22.48	23.09	24.51	22.42	22.72	24.18
Coal	22.66	25.10	25.05	25.23	27.04	27.07	29.73	29.90	29.91	35.26
Nuclear Power	7.97	8.49	8.49	8.49	8.67	8.67	8.67	8.67	8.67	8.67
Renewable Energy[1]	5.89	6.85	6.85	6.88	7.57	7.60	7.76	8.10	8.26	8.32
Other[2]	0.93	0.97	1.16	1.16	0.77	0.90	1.01	0.82	0.97	1.13
Total	**71.42**	**77.79**	**78.64**	**79.81**	**80.35**	**81.54**	**86.89**	**82.73**	**83.91**	**91.77**
Imports										
Crude Oil[3]	21.08	24.69	24.30	23.87	32.29	31.90	29.23	35.16	34.55	31.20
Petroleum Products[4]	5.16	6.06	4.95	4.19	6.83	5.41	3.45	8.27	6.69	4.06
Natural Gas	4.02	5.71	5.49	5.03	8.95	8.81	7.20	9.70	9.63	6.61
Other Imports[5]	0.69	0.92	0.92	0.92	1.15	1.15	1.15	1.23	1.23	1.23
Total	**30.95**	**37.38**	**35.66**	**34.00**	**49.22**	**47.28**	**41.03**	**54.36**	**52.10**	**43.09**
Exports										
Petroleum[6]	2.13	2.14	2.11	2.08	2.26	2.22	2.17	2.32	2.28	2.22
Natural Gas	0.70	0.65	0.64	0.64	0.86	0.86	0.81	0.83	0.82	0.75
Coal	1.12	1.06	1.06	1.06	0.89	0.89	0.81	0.65	0.65	0.64
Total	**3.95**	**3.86**	**3.81**	**3.78**	**4.01**	**3.97**	**3.80**	**3.80**	**3.75**	**3.61**
Discrepancy[7]	**0.18**	**0.05**	**-0.06**	**-0.03**	**-0.05**	**-0.22**	**-0.22**	**0.10**	**-0.13**	**-0.21**
Consumption										
Petroleum Products[8]	39.09	44.84	43.98	43.37	51.30	50.22	48.66	54.42	53.21	51.13
Natural Gas	22.54	26.11	26.29	26.26	30.73	31.21	30.31	31.47	31.71	29.48
Coal	22.71	24.95	24.91	25.02	27.27	27.31	28.89	30.48	30.50	33.83
Nuclear Power	7.97	8.49	8.49	8.49	8.67	8.67	8.67	8.67	8.67	8.67
Renewable Energy[1]	5.89	6.85	6.85	6.88	7.57	7.61	7.76	8.10	8.27	8.32
Other[9]	0.02	0.03	0.03	0.03	0.05	0.05	0.06	0.04	0.04	0.04
Total	**98.22**	**111.27**	**110.55**	**110.05**	**125.60**	**125.07**	**124.34**	**133.18**	**132.40**	**131.46**
Net Imports - Petroleum	**24.10**	**28.61**	**27.15**	**25.98**	**36.87**	**35.09**	**30.51**	**41.11**	**38.96**	**33.04**
Prices (2003 dollars per unit)										
World Oil Price (dollars per barrel)[10]	27.73	25.00	30.99	37.00	28.50	33.67	44.33	30.31	35.00	48.00
Natural Gas Wellhead Price (dollars per thousand cubic feet)[11]	4.98	3.64	3.63	3.74	4.53	4.45	4.60	4.79	4.83	5.32
Coal Minemouth Price (dollars per ton)	17.93	17.30	17.45	17.69	17.25	17.54	18.39	18.26	18.52	20.41
Average Electricity Price (cents per kilowatthour)	7.4	6.6	6.6	6.7	7.2	7.2	7.3	7.3	7.3	7.4

[1]Includes grid-connected electricity from conventional hydroelectric; wood and wood waste; landfill gas; municipal solid waste; other biomass; wind; photovoltaic and solar thermal sources; non-electric energy from renewable sources, such as active and passive solar systems, and wood; and both the ethanol and gasoline components of E85, but not the ethanol components of blends less than 85 percent. Excludes electricity imports using renewable sources and nonmarketed renewable energy. See Table C18 for selected nonmarketed residential and commercial renewable energy.
[2]Includes liquid hydrogen, methanol, supplemental natural gas, and some domestic inputs to refineries.
[3]Includes imports of crude oil for the Strategic Petroleum Reserve.
[4]Includes imports of finished petroleum products, unfinished oils, alcohols, ethers, and blending components.
[5]Includes coal, coal coke (net), and electricity (net).
[6]Includes crude oil and petroleum products.
[7]Balancing item. Includes unaccounted for supply, losses, gains, net storage withdrawals, heat loss when natural gas is converted to liquid fuel, and heat loss when coal is converted to liquid fuel.
[8]Includes natural gas plant liquids, crude oil consumed as a fuel, and nonpetroleum-based liquids for blending, such as ethanol.
[9]Includes net electricity imports, methanol, and liquid hydrogen.
[10]Average refiner acquisition cost for imported crude oil.
[11]Represents lower 48 onshore and offshore supplies.
Btu = British thermal unit.
Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.
Sources: 2003 natural gas supply values: Energy Information Administration (EIA), *Natural Gas Monthly*, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2003 petroleum supply values: EIA, *Petroleum Supply Annual 2003,* DOE/EIA-0340(2003)/1 (Washington, DC, July 2004). Other 2003 values: EIA, *Annual Energy Review 2003*, DOE/EIA-0384(2003) (Washington, DC, September 2004) and EIA, *Quarterly Coal Report, October-December 2003*, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004). **Projections:** EIA, AEO2005 National Energy Modeling System runs AEO2005.D102004A, CF2005.D111104A, and VHW2005.D120304A.

Table D2. Energy Consumption by Sector and Source
(Quadrillion Btu per Year, Unless Otherwise Noted)

Sector and Source	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
Energy Consumption										
Residential										
Distillate Fuel	0.96	0.90	0.80	0.76	0.83	0.76	0.64	0.77	0.70	0.56
Kerosene	0.07	0.09	0.06	0.05	0.09	0.06	0.05	0.09	0.06	0.05
Liquefied Petroleum Gas	0.54	0.57	0.54	0.52	0.64	0.61	0.57	0.67	0.63	0.58
Petroleum Subtotal	1.58	1.56	1.40	1.33	1.56	1.43	1.26	1.53	1.39	1.18
Natural Gas	5.25	5.68	5.64	5.63	6.05	6.07	6.03	6.17	6.16	6.07
Coal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Renewable Energy[1]	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38
Electricity	4.37	5.02	5.01	5.00	5.79	5.78	5.77	6.18	6.17	6.15
Delivered Energy	**11.61**	**12.67**	**12.46**	**12.37**	**13.80**	**13.68**	**13.46**	**14.26**	**14.11**	**13.80**
Electricity Related Losses	9.71	10.80	10.78	10.77	11.77	11.76	11.63	12.35	12.33	12.09
Total	**21.31**	**23.47**	**23.25**	**23.15**	**25.56**	**25.44**	**25.09**	**26.62**	**26.44**	**25.88**
Commercial										
Distillate Fuel	0.52	0.62	0.57	0.54	0.71	0.63	0.58	0.77	0.66	0.60
Residual Fuel	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.08	0.08	0.07
Kerosene	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Liquefied Petroleum Gas	0.10	0.10	0.10	0.10	0.11	0.10	0.10	0.11	0.11	0.10
Motor Gasoline[2]	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Petroleum Subtotal	0.75	0.86	0.81	0.78	0.96	0.88	0.82	1.02	0.91	0.84
Natural Gas	3.22	3.49	3.49	3.49	3.91	3.97	3.96	4.17	4.23	4.19
Coal	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Renewable Energy[3]	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Electricity	4.13	5.00	5.00	4.99	6.33	6.32	6.29	7.12	7.11	7.06
Delivered Energy	**8.29**	**9.53**	**9.48**	**9.44**	**11.38**	**11.34**	**11.25**	**12.49**	**12.43**	**12.28**
Electricity Related Losses	9.18	10.76	10.75	10.74	12.86	12.83	12.67	14.25	14.21	13.87
Total	**17.46**	**20.29**	**20.23**	**20.19**	**24.24**	**24.18**	**23.92**	**26.74**	**26.65**	**26.15**
Industrial[4]										
Distillate Fuel	1.03	1.04	1.03	1.02	1.14	1.10	1.09	1.19	1.14	1.14
Liquefied Petroleum Gas	2.09	2.30	2.28	2.26	2.59	2.54	2.50	2.74	2.65	2.57
Petrochemical Feedstock	1.32	1.48	1.48	1.47	1.55	1.55	1.52	1.57	1.57	1.52
Residual Fuel	0.28	0.34	0.32	0.29	0.38	0.40	0.34	0.38	0.41	0.35
Motor Gasoline[2]	0.31	0.31	0.31	0.31	0.35	0.35	0.35	0.37	0.37	0.37
Other Petroleum[5]	4.30	4.69	4.65	4.61	5.02	4.98	4.78	5.23	5.18	4.94
Petroleum Subtotal	9.31	10.17	10.08	9.97	11.03	10.92	10.58	11.47	11.32	10.88
Natural Gas	7.19	8.10	8.18	8.22	8.89	9.06	9.03	9.26	9.39	9.28
Lease and Plant Fuel[6]	1.15	1.20	1.22	1.26	1.32	1.37	1.45	1.31	1.32	1.41
Natural Gas Subtotal	8.34	9.31	9.40	9.48	10.21	10.42	10.49	10.57	10.71	10.69
Metallurgical Coal	0.67	0.55	0.55	0.55	0.42	0.42	0.42	0.37	0.37	0.37
Steam Coal	1.39	1.42	1.42	1.49	1.42	1.42	2.59	1.42	1.41	3.47
Net Coal Coke Imports	0.05	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.04
Coal Subtotal	2.11	2.03	2.03	2.09	1.89	1.89	3.06	1.83	1.83	3.88
Renewable Energy[7]	1.79	2.07	2.07	2.06	2.34	2.35	2.35	2.50	2.50	2.51
Electricity	3.31	3.78	3.79	3.78	4.19	4.22	4.22	4.39	4.43	4.43
Delivered Energy	**24.86**	**27.35**	**27.35**	**27.38**	**29.66**	**29.81**	**30.69**	**30.76**	**30.80**	**32.40**
Electricity Related Losses	7.35	8.13	8.14	8.14	8.52	8.58	8.51	8.78	8.85	8.71
Total	**32.21**	**35.47**	**35.50**	**35.52**	**38.19**	**38.39**	**39.20**	**39.53**	**39.65**	**41.11**

Table D2. Energy Consumption by Sector and Source (Continued)
(Quadrillion Btu per Year, Unless Otherwise Noted)

Sector and Source	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
Transportation										
Distillate Fuel[8]	5.54	6.95	6.94	6.91	8.35	8.30	8.30	9.05	9.03	8.98
Jet Fuel[9]	3.26	4.04	4.00	3.97	4.74	4.70	4.66	4.89	4.85	4.81
Motor Gasoline[2]	16.64	19.14	18.73	18.39	22.31	21.83	20.94	24.04	23.46	22.25
Residual Fuel	0.62	0.56	0.56	0.56	0.58	0.58	0.58	0.58	0.58	0.59
Liquefied Petroleum Gas	0.02	0.06	0.06	0.06	0.08	0.08	0.08	0.09	0.09	0.09
Other Petroleum[10]	0.24	0.26	0.26	0.25	0.29	0.29	0.29	0.31	0.32	0.31
Petroleum Subtotal	26.31	31.00	30.54	30.15	36.35	35.78	34.86	38.97	38.33	37.03
Pipeline Fuel Natural Gas	0.65	0.70	0.71	0.71	0.82	0.85	0.84	0.84	0.85	0.82
Compressed Natural Gas	0.02	0.06	0.06	0.06	0.10	0.10	0.10	0.11	0.11	0.11
Renewable Energy (E85)[11]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.08	0.09	0.09	0.09	0.11	0.11	0.11	0.12	0.12	0.12
Delivered Energy	**27.07**	**31.85**	**31.40**	**31.01**	**37.39**	**36.84**	**35.91**	**40.04**	**39.42**	**38.09**
Electricity Related Losses	0.17	0.19	0.19	0.19	0.22	0.22	0.22	0.24	0.24	0.23
Total	**27.24**	**32.04**	**31.59**	**31.20**	**37.61**	**37.06**	**36.13**	**40.28**	**39.65**	**38.32**
Delivered Energy Consumption for All Sectors										
Distillate Fuel	8.04	9.51	9.34	9.23	11.03	10.79	10.61	11.78	11.53	11.27
Kerosene	0.11	0.14	0.10	0.09	0.14	0.10	0.10	0.13	0.10	0.09
Jet Fuel[9]	3.26	4.04	4.00	3.97	4.74	4.70	4.66	4.89	4.85	4.81
Liquefied Petroleum Gas	2.75	3.03	2.98	2.94	3.42	3.34	3.25	3.60	3.48	3.34
Motor Gasoline[2]	16.98	19.49	19.08	18.74	22.70	22.22	21.33	24.45	23.87	22.66
Petrochemical Feedstock	1.32	1.48	1.48	1.47	1.55	1.55	1.52	1.57	1.57	1.52
Residual Fuel	0.97	0.97	0.96	0.93	1.03	1.05	1.00	1.03	1.06	1.01
Other Petroleum[12]	4.52	4.93	4.89	4.85	5.30	5.25	5.05	5.53	5.48	5.24
Petroleum Subtotal	37.96	43.58	42.82	42.23	49.90	49.01	47.52	52.98	51.95	49.94
Natural Gas	15.68	17.33	17.37	17.40	18.94	19.20	19.12	19.70	19.90	19.65
Lease and Plant Fuel Plant[6]	1.15	1.20	1.22	1.26	1.32	1.37	1.45	1.31	1.32	1.41
Pipeline Natural Gas	0.65	0.70	0.71	0.71	0.82	0.85	0.84	0.84	0.85	0.82
Natural Gas Subtotal	17.48	19.23	19.30	19.37	21.09	21.41	21.42	21.85	22.08	21.89
Metallurgical Coal	0.67	0.55	0.55	0.55	0.42	0.42	0.42	0.37	0.37	0.37
Steam Coal	1.50	1.53	1.53	1.60	1.52	1.52	2.70	1.52	1.52	3.58
Net Coal Coke Imports	0.05	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.04
Coal Subtotal	2.22	2.14	2.14	2.20	2.00	2.00	3.17	1.94	1.94	3.99
Renewable Energy[13]	2.28	2.55	2.55	2.55	2.82	2.83	2.83	2.97	2.98	2.98
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	11.88	13.89	13.88	13.86	16.41	16.43	16.38	17.81	17.82	17.76
Delivered Energy	**71.82**	**81.39**	**80.69**	**80.21**	**92.23**	**91.68**	**91.31**	**97.56**	**96.76**	**96.56**
Electricity Related Losses	26.40	29.88	29.86	29.84	33.37	33.39	33.03	35.62	35.64	34.91
Total	**98.22**	**111.27**	**110.55**	**110.05**	**125.60**	**125.07**	**124.34**	**133.18**	**132.40**	**131.46**
Electric Power[14]										
Distillate Fuel	0.33	0.39	0.38	0.37	0.42	0.39	0.37	0.45	0.41	0.41
Residual Fuel	0.80	0.87	0.78	0.77	0.98	0.82	0.77	0.98	0.86	0.78
Petroleum Subtotal	1.13	1.26	1.16	1.14	1.40	1.21	1.14	1.43	1.27	1.19
Natural Gas	5.06	6.87	6.99	6.89	9.64	9.80	8.89	9.61	9.63	7.58
Steam Coal	20.49	22.81	22.77	22.82	25.28	25.32	25.72	28.54	28.56	29.84
Nuclear Power	7.97	8.49	8.49	8.49	8.67	8.67	8.67	8.67	8.67	8.67
Renewable Energy[15]	3.62	4.30	4.30	4.33	4.75	4.78	4.93	5.14	5.29	5.35
Electricity Imports	0.02	0.03	0.03	0.03	0.05	0.05	0.06	0.04	0.04	0.04
Total	**38.28**	**43.77**	**43.74**	**43.70**	**49.79**	**49.82**	**49.41**	**53.43**	**53.46**	**52.66**

Table D2. Energy Consumption by Sector and Source (Continued)
(Quadrillion Btu per Year, Unless Otherwise Noted)

Sector and Source	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
Total Energy Consumption										
Distillate Fuel	8.37	9.90	9.71	9.60	11.45	11.18	10.98	12.23	11.94	11.68
Kerosene	0.11	0.14	0.10	0.09	0.14	0.10	0.10	0.13	0.10	0.09
Jet Fuel[9]	3.26	4.04	4.00	3.97	4.74	4.70	4.66	4.89	4.85	4.81
Liquefied Petroleum Gas	2.75	3.03	2.98	2.94	3.42	3.34	3.25	3.60	3.48	3.34
Motor Gasoline[2]	16.98	19.49	19.08	18.74	22.70	22.22	21.33	24.45	23.87	22.66
Petrochemical Feedstock	1.32	1.48	1.48	1.47	1.55	1.55	1.52	1.57	1.57	1.52
Residual Fuel	1.77	1.84	1.74	1.70	2.01	1.87	1.76	2.02	1.92	1.79
Other Petroleum[12]	4.52	4.93	4.89	4.85	5.30	5.25	5.05	5.53	5.48	5.24
Petroleum Subtotal	39.09	44.84	43.98	43.37	51.30	50.22	48.66	54.42	53.21	51.13
Natural Gas	20.74	24.21	24.36	24.29	28.59	29.00	28.02	29.32	29.54	27.24
Lease and Plant Fuel[6]	1.15	1.20	1.22	1.26	1.32	1.37	1.45	1.31	1.32	1.41
Pipeline Natural Gas	0.65	0.70	0.71	0.71	0.82	0.85	0.84	0.84	0.85	0.82
Natural Gas Subtotal	22.54	26.11	26.29	26.26	30.73	31.21	30.31	31.47	31.71	29.48
Metallurgical Coal	0.67	0.55	0.55	0.55	0.42	0.42	0.42	0.37	0.37	0.37
Steam Coal	21.99	24.34	24.30	24.42	26.80	26.84	28.42	30.07	30.08	33.42
Net Coal Coke Imports	0.05	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.04
Coal Subtotal	22.71	24.95	24.91	25.02	27.27	27.31	28.89	30.48	30.50	33.83
Nuclear Power	7.97	8.49	8.49	8.49	8.67	8.67	8.67	8.67	8.67	8.67
Renewable Energy[16]	5.89	6.85	6.85	6.88	7.57	7.61	7.76	8.10	8.27	8.32
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity Imports	0.02	0.03	0.03	0.03	0.05	0.05	0.06	0.04	0.04	0.04
Total	**98.22**	**111.27**	**110.55**	**110.05**	**125.60**	**125.07**	**124.34**	**133.18**	**132.40**	**131.46**
Energy Use and Related Statistics										
Delivered Energy Use	71.82	81.39	80.69	80.21	92.23	91.68	91.31	97.56	96.76	96.56
Total Energy Use	98.22	111.27	110.55	110.05	125.60	125.07	124.34	133.18	132.40	131.46
Population (millions)	291.39	310.12	310.12	310.12	336.99	336.99	336.99	350.64	350.64	350.64
Gross Domestic Product (billion 2000 dollars)	10381	13084	13063	13031	17634	17641	17619	20292	20293	20260
Carbon Dioxide Emissions (million metric tons)	5788.7	6626.8	6561.1	6527.8	7519.6	7460.6	7448.5	8062.3	7981.1	8028.7

[1]Includes wood used for residential heating. See Table C4 and/or Table C17 for estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
[2]Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
[3]Includes commercial sector consumption of wood and wood waste, landfill gas, municipal solid waste, and other biomass for combined heat and power. See Table C18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
[4]Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
[5]Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
[6]Represents natural gas used in the field gathering and processing plant machinery.
[7]Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
[8]Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
[9]Includes only kerosene type.
[10]Includes aviation gasoline and lubricants.
[11]E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
[12]Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
[13]Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
[14]Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
[15]Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
[16]Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
Note: Totals may not equal sum of components due to independent rounding. Data for 2003 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: 2003 consumption based on: Energy Information Administration (EIA), *Annual Energy Review 2003*, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2003 population and gross domestic product: Global Insight macroeconomic model CTL0804, modified by EIA. 2003 carbon dioxide emissions: EIA, *Emissions of Greenhouse Gases in the United States 2003*, DOE/EIA-0573(2003) (Washington, DC, December 2004). **Projections:** EIA, AEO2005 National Energy Modeling System runs AEO2005.D102004A, CF2005.D111104A, and VHW2005.D120304A.

Table D3. Energy Prices by Sector and Source
(2003 Dollars per Million Btu, Unless Otherwise Noted)

Sector and Source	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
Residential	**15.81**	**14.33**	**14.58**	**14.85**	**15.64**	**15.78**	**16.13**	**16.13**	**16.36**	**16.98**
Primary Energy[1]	9.68	8.35	8.61	8.89	9.21	9.32	9.72	9.62	9.86	10.62
Petroleum Products[2]	11.27	10.44	11.81	13.00	11.36	12.57	14.49	11.93	13.13	15.68
Distillate Fuel	9.57	8.29	9.35	10.39	8.85	9.79	11.48	9.12	10.13	12.07
Liquefied Petroleum Gas	14.58	14.25	15.73	17.07	15.06	16.34	18.17	15.65	16.77	19.49
Natural Gas	9.22	7.79	7.83	7.93	8.66	8.57	8.74	9.07	9.14	9.65
Electricity	25.42	22.96	22.99	23.16	24.12	24.16	24.25	24.24	24.32	24.50
Commercial	**15.63**	**13.76**	**13.92**	**14.17**	**15.70**	**15.81**	**16.14**	**16.20**	**16.39**	**17.09**
Primary Energy[1]	7.92	6.81	7.04	7.32	7.54	7.65	8.05	7.82	8.05	8.77
Petroleum Products[2]	8.03	7.13	8.27	9.40	7.55	8.57	10.23	7.84	8.92	10.99
Distillate Fuel	7.03	6.30	7.38	8.45	6.76	7.70	9.26	7.06	8.10	9.98
Residual Fuel	4.96	4.26	5.00	5.93	4.81	5.40	7.06	5.08	5.60	7.62
Natural Gas	8.08	6.87	6.90	7.01	7.68	7.59	7.76	7.96	8.01	8.48
Electricity	23.24	19.93	19.97	20.17	22.10	22.19	22.42	22.40	22.55	23.13
Industrial[3]	**7.78**	**6.85**	**7.31**	**7.78**	**7.75**	**8.10**	**8.51**	**8.13**	**8.49**	**8.99**
Primary Energy	6.49	5.55	6.08	6.63	6.27	6.67	7.18	6.64	7.04	7.68
Petroleum Products[2]	8.29	7.24	8.34	9.42	7.88	8.75	10.37	8.36	9.17	11.29
Distillate Fuel	7.24	6.78	7.85	8.90	7.37	8.31	9.80	7.73	8.77	10.61
Liquefied Petroleum Gas	12.57	10.02	11.46	12.72	10.74	11.97	13.72	11.35	12.45	14.91
Residual Fuel	4.59	3.87	4.64	5.59	4.34	5.00	6.66	4.62	5.19	7.22
Natural Gas[4]	5.56	4.37	4.37	4.48	5.23	5.18	5.34	5.47	5.50	5.97
Metallurgical Coal	1.85	1.82	1.82	1.82	1.75	1.75	1.76	1.68	1.68	1.69
Steam Coal	1.55	1.56	1.57	1.55	1.56	1.58	1.45	1.60	1.61	1.56
Electricity	15.03	13.84	13.84	13.95	15.47	15.51	15.63	15.75	15.83	16.07
Transportation	**11.46**	**10.95**	**11.99**	**13.20**	**11.16**	**12.05**	**13.73**	**11.46**	**12.44**	**14.63**
Primary Energy	11.43	10.93	11.97	13.18	11.13	12.03	13.71	11.44	12.42	14.61
Petroleum Products[2]	11.43	10.93	11.97	13.19	11.13	12.04	13.73	11.44	12.43	14.62
Distillate Fuel[5]	10.92	10.76	11.86	12.95	10.66	11.61	13.08	10.85	11.91	13.78
Jet Fuel[6]	6.46	6.25	7.35	8.41	6.58	7.57	9.24	6.93	7.98	10.03
Motor Gasoline[7]	12.93	12.32	13.35	14.69	12.52	13.42	15.24	12.81	13.80	16.23
Residual Fuel	4.49	3.74	4.40	5.36	4.28	4.82	6.51	4.56	5.02	7.09
Liquefied Petroleum Gas[8]	16.65	15.24	16.62	17.87	15.66	16.86	18.24	16.24	17.10	19.55
Natural Gas[9]	9.04	8.56	8.57	8.67	9.45	9.42	9.58	9.69	9.79	10.23
Ethanol (E85)[10]	16.23	17.11	18.05	19.92	17.22	18.31	20.56	18.13	18.74	21.85
Electricity	20.64	18.81	18.85	19.01	19.99	20.02	20.14	19.96	20.07	20.31
Average End-Use Energy	**11.50**	**10.56**	**11.16**	**11.86**	**11.42**	**11.92**	**12.78**	**11.83**	**12.40**	**13.55**
Primary Energy	9.32	8.61	9.33	10.14	9.18	9.76	10.78	9.55	10.21	11.55
Electricity	21.74	19.36	19.38	19.55	21.11	21.15	21.30	21.38	21.47	21.82
Electric Power[11]										
Fossil Fuel Average	2.24	2.06	2.08	2.14	2.45	2.46	2.49	2.46	2.48	2.50
Petroleum Products	5.28	4.55	5.40	6.37	5.10	5.83	7.47	5.42	6.10	8.09
Distillate Fuel	6.48	5.36	6.39	7.42	6.01	6.94	8.48	6.33	7.33	9.13
Residual Fuel	4.79	4.19	4.93	5.87	4.71	5.31	6.98	5.00	5.51	7.55
Natural Gas	5.46	4.27	4.22	4.33	5.20	5.15	5.27	5.44	5.48	5.84
Steam Coal	1.28	1.25	1.26	1.27	1.25	1.25	1.30	1.31	1.31	1.43

Table D3. Energy Prices by Sector and Source (Continued)
(2003 Dollars per Million Btu, Unless Otherwise Noted)

Sector and Source	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
Average Price to All Users[12]										
Petroleum Products[2]	10.51	9.91	10.98	12.16	10.29	11.21	12.89	10.66	11.62	13.81
Distillate Fuel	9.90	9.53	10.66	11.75	9.79	10.78	12.32	10.03	11.14	13.03
Jet Fuel	6.46	6.25	7.35	8.41	6.58	7.57	9.24	6.93	7.98	10.03
Liquefied Petroleum Gas	13.04	10.99	12.41	13.67	11.74	12.96	14.69	12.34	13.43	15.91
Motor Gasoline[7]	12.93	12.31	13.34	14.68	12.51	13.41	15.23	12.80	13.79	16.22
Residual Fuel	4.66	3.99	4.71	5.66	4.52	5.09	6.77	4.81	5.30	7.34
Natural Gas	6.86	5.52	5.50	5.61	6.30	6.23	6.41	6.59	6.63	7.16
Coal	1.30	1.27	1.28	1.30	1.27	1.27	1.44	1.32	1.33	1.64
Ethanol (E85)[10]	16.23	17.11	18.05	19.92	17.22	18.31	20.56	18.13	18.74	21.85
Electricity	21.74	19.36	19.38	19.55	21.11	21.15	21.30	21.38	21.47	21.82
Non-Renewable Energy Expenditures by Sector (billion 2003 dollars)										
Residential	177.17	175.88	175.96	177.88	209.76	209.74	210.86	223.86	224.55	227.83
Commercial	128.15	129.92	130.76	132.61	177.28	177.97	180.17	200.93	202.43	208.29
Industrial	147.11	139.57	147.77	156.12	169.93	177.24	189.83	184.96	192.09	211.34
Transportation	302.59	341.13	367.80	399.87	407.83	433.81	481.55	449.31	479.81	544.99
Total Non-Renewable Expenditures	755.02	786.50	822.30	866.47	964.80	998.76	1062.42	1059.05	1098.88	1192.45
Transportation Renewable Expenditures	0.02	0.03	0.04	0.04	0.07	0.07	0.08	0.08	0.09	0.10
Total Expenditures	**755.04**	**786.54**	**822.34**	**866.51**	**964.87**	**998.83**	**1062.49**	**1059.13**	**1098.96**	**1192.55**

[1]Weighted average price includes fuels below as well as coal.
[2]This quantity is the weighted average for all petroleum products, not just those listed below.
[3]Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
[4]Excludes use for lease and plant fuel.
[5]Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur for on-road use. Includes Federal and State taxes while excluding county and local taxes.
[6]Kerosene-type jet fuel. Includes Federal and State taxes while excluding county and local taxes.
[7]Sales weighted-average price for all grades. Includes Federal, State and local taxes.
[8]Includes Federal and State taxes while excluding county and local taxes.
[9]Compressed natural gas used as a vehicle fuel. Includes estimated motor vehicle fuel taxes.
[10]E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
[11]Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
[12]Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2003 are model results and may differ slightly from official EIA data reports.
Sources: 2003 prices for motor gasoline, distillate, and jet fuel are based on: Energy Information Administration (EIA), *Petroleum Marketing Annual 2003*, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2003 residential and commercial natural gas delivered prices: EIA, *Natural Gas Monthly*, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2003 electric power sector natural gas prices: EIA, *Electric Power Monthly*, DOE/EIA-0226, May 2003 through April 2004, Table 4.11.A. 2003 industrial natural gas delivered prices are estimated based on: EIA, *Manufacturing Energy Consumption Survey 1998* and industrial and wellhead prices from the *Natural Gas Annual 2002*, DOE/EIA-0131(2002) (Washington, DC, January 2004) and the *Natural Gas Monthly*, DOE/EIA-0130(2004/07) (Washington, DC, July 2004). 2003 natural gas delivered prices for the transportation sector are model results. 2003 coal prices based on EIA, *Quarterly Coal Report, October-December 2003*, DOE/EIA-0121(2003/4Q) (Washington, DC, March 2004) and EIA, AEO2005 National Energy Modeling System run AEO2005.D102004A. 2003 electricity prices: EIA, *Annual Energy Review 2003*, DOE/EIA-0384(2003) (Washington, DC, September 2004). 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. **Projections:** EIA, AEO2005 National Energy Modeling System runs AEO2005.D102004A, CF2005.D111104A, and VHW2005.D120304A.

Table D4. Transportation Sector Key Indicators and Delivered Energy Consumption

Supply, Disposition, and Prices	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
Key Indicators										
Level of Travel										
(billion vehicle miles traveled)										
Light-Duty Vehicles less than 8,500 pounds	2602	3017	2953	2907	3680	3623	3526	4053	3991	3864
Commercial Light Trucks[1]	65	78	78	77	96	96	95	107	107	106
Freight Trucks greater than 10,000 pounds	214	268	268	267	336	338	337	373	375	374
(billion seat miles available)										
Air	932	1152	1143	1138	1455	1455	1455	1520	1520	1520
(billion ton miles traveled)										
Rail	1352	1576	1575	1576	1833	1836	1905	2001	2002	2147
Domestic Shipping	592	649	657	662	706	718	742	733	744	772
Energy Efficiency Indicators										
(miles per gallon)										
New Light-Duty Vehicle[2]	25.1	25.7	25.9	26.2	26.5	26.9	27.5	26.9	27.3	28.2
New Car[2]	29.5	29.7	30.3	30.5	30.6	31.2	31.7	31.0	31.6	32.3
New Light Truck[2]	21.8	22.9	22.8	23.0	24.1	24.2	24.7	24.6	24.9	25.5
Light-Duty Stock[3]	20.0	20.1	20.2	20.3	20.7	20.9	21.2	21.0	21.3	21.7
New Commercial Light Truck[1]	14.6	15.2	15.2	15.3	16.0	16.1	16.4	16.4	16.5	16.9
Stock Commercial Light Truck[1]	14.0	14.7	14.6	14.7	15.5	15.5	15.7	15.9	16.0	16.2
Freight Truck	6.0	6.0	6.0	6.0	6.4	6.4	6.5	6.6	6.6	6.7
(seat miles per gallon)										
Aircraft	55.3	59.2	59.3	59.4	65.2	65.7	66.1	68.5	69.1	69.4
(ton miles per thousand Btu)										
Rail	2.9	3.1	3.1	3.1	3.4	3.4	3.4	3.6	3.6	3.6
Domestic Shipping	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4
Energy Use by Mode										
(quadrillion Btu)										
Light-Duty Vehicles	15.78	18.45	18.04	17.71	21.85	21.36	20.51	23.69	23.11	21.94
Commercial Light Trucks[1]	0.58	0.67	0.66	0.66	0.78	0.78	0.76	0.84	0.84	0.82
Bus Transportation	0.25	0.26	0.26	0.26	0.27	0.26	0.26	0.27	0.26	0.26
Freight Trucks	4.46	5.56	5.55	5.53	6.60	6.56	6.51	7.10	7.08	6.97
Rail, Passenger	0.12	0.13	0.13	0.13	0.16	0.16	0.16	0.17	0.17	0.17
Rail, Freight	0.47	0.51	0.51	0.51	0.54	0.54	0.56	0.56	0.56	0.60
Shipping, Domestic	0.26	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.31	0.32
Shipping, International	0.56	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52
Recreational Boats	0.31	0.33	0.33	0.33	0.37	0.37	0.37	0.39	0.39	0.39
Air	2.74	3.43	3.39	3.36	4.11	4.08	4.03	4.25	4.22	4.18
Military Use	0.69	0.80	0.80	0.80	0.82	0.82	0.82	0.83	0.83	0.83
Lubricants	0.20	0.21	0.21	0.21	0.25	0.25	0.25	0.27	0.27	0.27
Pipeline Fuel	0.65	0.70	0.71	0.71	0.82	0.85	0.84	0.84	0.85	0.82
Total	**27.07**	**31.85**	**31.40**	**31.01**	**37.39**	**36.84**	**35.91**	**40.04**	**39.42**	**38.09**
(million barrels per day oil equivalent)										
Light-Duty Vehicles	8.29	9.72	9.50	9.32	11.49	11.23	10.78	12.45	12.15	11.53
Commercial Light Trucks[1]	0.30	0.35	0.35	0.35	0.41	0.41	0.40	0.44	0.44	0.43
Bus Transportation	0.12	0.13	0.13	0.12	0.13	0.13	0.12	0.13	0.13	0.12
Freight Trucks	2.13	2.66	2.66	2.65	3.16	3.14	3.12	3.40	3.39	3.34
Rail, Passenger	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08
Rail, Freight	0.22	0.24	0.24	0.24	0.25	0.26	0.27	0.26	0.26	0.28
Shipping, Domestic	0.12	0.13	0.13	0.13	0.14	0.14	0.15	0.14	0.15	0.15
Shipping, International	0.25	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23
Recreational Boats	0.16	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20
Air	1.33	1.66	1.64	1.62	1.99	1.97	1.95	2.06	2.04	2.02
Military Use	0.33	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.40
Lubricants	0.09	0.10	0.10	0.10	0.12	0.12	0.12	0.13	0.13	0.13
Pipeline Fuel	0.33	0.35	0.36	0.36	0.42	0.43	0.43	0.43	0.43	0.42
Total	**13.73**	**16.19**	**15.95**	**15.75**	**19.00**	**18.72**	**18.23**	**20.36**	**20.03**	**19.33**

[1]Commercial trucks 8,500 to 10,000 pounds.
[2]Environmental Protection Agency rated miles per gallon.
[3]Combined car and light truck "on-the-road" estimate.
Btu = British thermal unit.
Note: Totals may not equal sum of components due to independent rounding. Data for #Y!# and 2003 are model results and may differ slightly from official EIA data reports.
Sources: 2003: Energy Information Administration (EIA), *Natural Gas Annual 2002*, DOE/EIA-0131(2002) (Washington, DC, January 2004); Federal Highway Administration, *Highway Statistics 2001* (Washington, DC, November 2002); Oak Ridge National Laboratory, *Transportation Energy Data Book: Edition 22 and Annual* (Oak Ridge, TN, September 2002); National Highway Traffic and Safety Administration, *Summary of Fuel Economy Performance* (Washington, DC, February 2000); EIA, *Household Vehicle Energy Consumption 1994*, DOE/EIA-0464(94) (Washington, DC, August 1997); U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); EIA, *Describing Current and Potential Markets for Alternative-Fuel Vehicles*, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, *Alternatives to Traditional Transportation Fuels 1998*, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; EIA, *State Energy Data Report 2001*, DOE/EIA-0214(2001) (Washington, DC, November 2004) U.S. Department of Transportation, Research and Special Programs Administration, *Air Carrier Statistics Monthly, December 2003/2002* (Washington, DC, 2003); EIA, *Fuel Oil and Kerosene Sales 2002*, DOE/EIA-0535(2002) (Washington, DC, November 2003); and United States Department of Defense, Defense Fuel Supply Center. **Projections:** EIA, AEO2005 National Energy Modeling System runs AEO2005.D102004A, CF2005.D111104A, and VHW2005.D120304A.

Table D5. Petroleum Supply and Disposition Balance
(Million Barrels per Day, Unless Otherwise Noted)

Supply and Disposition	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
Crude Oil										
Domestic Crude Production[1]	5.68	6.02	6.16	6.23	5.21	5.36	5.77	4.73	4.98	5.30
Alaska	0.97	0.81	0.82	0.84	0.86	0.90	0.96	0.61	0.64	0.72
Lower 48 States	4.71	5.22	5.34	5.38	4.35	4.46	4.80	4.12	4.34	4.58
Net Imports	9.65	11.31	11.13	10.93	14.80	14.62	13.39	16.11	15.83	14.30
Gross Imports	9.66	11.32	11.14	10.94	14.81	14.63	13.41	16.12	15.84	14.31
Exports	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Other Crude Supply[2]	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Crude Supply	**15.31**	**17.33**	**17.29**	**17.16**	**20.01**	**19.98**	**19.16**	**20.84**	**20.81**	**19.60**
Other Petroleum Supply										
Natural Gas Plant Liquids	1.72	1.96	1.99	2.04	2.04	2.08	2.18	2.04	2.07	2.17
Net Product Imports	1.58	2.06	1.48	1.11	2.31	1.59	0.66	3.00	2.19	0.94
Gross Refined Product Imports[3]	1.85	1.99	1.38	1.02	1.90	1.15	0.38	2.47	1.63	0.56
Unfinished Oil Imports	0.34	0.59	0.61	0.59	0.91	0.93	0.77	1.02	1.04	0.87
Blending Components	0.41	0.48	0.47	0.46	0.55	0.54	0.52	0.60	0.58	0.55
Exports	1.01	0.99	0.98	0.96	1.05	1.03	1.01	1.08	1.06	1.04
Refinery Processing Gain[4]	1.00	1.11	1.12	1.14	1.50	1.53	1.51	1.56	1.61	1.57
Other Supply[5]	0.69	0.53	0.67	0.78	0.46	0.57	1.43	0.50	0.62	1.93
Total Primary Supply[6]	**20.30**	**22.98**	**22.54**	**22.22**	**26.32**	**25.76**	**24.95**	**27.93**	**27.30**	**26.22**
Refined Petroleum Products Supplied										
Motor Gasoline[7]	8.93	10.28	10.06	9.89	11.97	11.71	11.25	12.89	12.59	11.94
Jet Fuel[8]	1.57	1.95	1.93	1.92	2.29	2.27	2.25	2.36	2.34	2.32
Distillate Fuel[9]	3.95	4.70	4.61	4.56	5.44	5.31	5.22	5.81	5.67	5.55
Residual Fuel	0.77	0.80	0.76	0.74	0.88	0.82	0.77	0.88	0.84	0.78
Other[10]	4.77	5.25	5.18	5.12	5.74	5.65	5.47	5.98	5.86	5.62
Total	**20.00**	**22.98**	**22.54**	**22.22**	**26.32**	**25.76**	**24.96**	**27.93**	**27.30**	**26.22**
Refined Petroleum Products Supplied										
Residential and Commercial	1.28	1.33	1.23	1.17	1.41	1.29	1.18	1.42	1.30	1.15
Industrial[11]	4.87	5.33	5.28	5.23	5.81	5.75	5.58	6.05	5.96	5.74
Transportation	13.35	15.76	15.52	15.31	18.48	18.18	17.69	19.82	19.48	18.80
Electric Power[12]	0.50	0.56	0.52	0.51	0.62	0.54	0.51	0.64	0.57	0.53
Total	**20.00**	**22.98**	**22.54**	**22.22**	**26.32**	**25.76**	**24.96**	**27.93**	**27.30**	**26.22**
Discrepancy[13]	**0.29**	**-0.00**	**0.00**	**-0.00**	**0.00**	**-0.01**	**-0.01**	**-0.00**	**0.00**	**-0.00**
World Oil Price (2003 dollars per barrel)[14]	27.73	25.00	30.99	37.00	28.50	33.67	44.33	30.31	35.00	48.00
Import Share of Product Supplied	0.56	0.58	0.56	0.54	0.65	0.63	0.56	0.68	0.66	0.58
Net Expenditures for Imported Crude Oil and Petroleum Products (billion 2003 dollars)	113.78	125.14	145.87	165.06	180.07	200.57	226.90	215.89	233.46	267.39
Domestic Refinery Distillation Capacity[15]	16.8	18.7	18.7	18.6	21.4	21.4	20.6	22.3	22.2	21.0
Capacity Utilization Rate (percent)	93.0	94.0	93.8	93.4	94.8	94.8	94.5	94.9	94.9	94.8

[1]Includes lease condensate.
[2]Strategic petroleum reserve stock additions plus unaccounted for crude oil and crude stock withdrawals minus crude products supplied.
[3]Includes other hydrocarbons and alcohols.
[4]Represents volumetric gain in refinery distillation and cracking processes.
[5]Includes petroleum product stock withdrawals; domestic sources of blending components, other hydrocarbons, alcohols, and ethers; natural gas converted to liquid fuel; and coal converted to liquid fuel.
[6]Total crude supply plus natural gas plant liquids, other inputs, refinery processing gain, and net product imports.
[7]Includes ethanol and ethers blended into gasoline.
[8]Includes only kerosene type.
[9]Includes distillate and kerosene.
[10]Includes aviation gasoline, liquefied petroleum gas, petrochemical feedstocks, lubricants, waxes, asphalt, road oil, still gas, special naphthas, petroleum coke, crude oil product supplied, and miscellaneous petroleum products.
[11]Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
[12]Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
[13]Balancing item. Includes unaccounted for supply, losses, and gains.
[14]Average refiner acquisition cost for imported crude oil.
[15]End-of-year operable capacity.
Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.
Sources: 2003 product supplied based on: Energy Information Administration (EIA), *Annual Energy Review 2003,* DOE/EIA-0384(2003) (Washington, DC, September 2004). Other 2003 data: EIA, *Petroleum Supply Annual 2003,* DOE/EIA-0340(2003)/1 (Washington, DC, July 2004). **Projections:** EIA, AEO2005 National Energy Modeling System runs AEO2005.D102004A, CF2005.D111104A, and VHW2005.D120304A.

Table D6. Petroleum Product Prices
(2003 Cents per Gallon, Unless Otherwise Noted)

Sector and Fuel	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
World Oil Price (2003 dollars per barrel)	**27.73**	**25.00**	**30.99**	**37.00**	**28.50**	**33.67**	**44.33**	**30.31**	**35.00**	**48.00**
Delivered Sector Product Prices										
Residential										
Distillate Fuel	132.7	114.9	129.7	144.1	122.7	135.8	159.2	126.4	140.5	167.4
Liquefied Petroleum Gas	125.4	122.6	135.3	146.8	129.5	140.6	156.3	134.6	144.2	167.7
Commercial										
Distillate Fuel	97.3	86.9	101.8	116.5	93.2	106.2	127.7	97.3	111.7	137.6
Residual Fuel	74.3	63.7	74.8	88.8	71.9	80.8	105.6	76.0	83.9	114.1
Residual Fuel (2003 dollars per barrel)	31.21	26.77	31.42	37.30	30.21	33.93	44.36	31.92	35.22	47.91
Industrial[1]										
Distillate Fuel	100.2	93.3	107.9	122.5	101.2	114.1	134.5	106.2	120.4	145.7
Liquefied Petroleum Gas	108.1	86.1	98.5	109.4	92.3	102.9	118.0	97.6	107.1	128.3
Residual Fuel	68.7	57.9	69.5	83.7	64.9	74.8	99.7	69.1	77.7	108.0
Residual Fuel (2003 dollars per barrel)	28.84	24.33	29.20	35.14	27.27	31.41	41.85	29.02	32.64	45.37
Transportation										
Diesel Fuel (distillate)[2]	150.4	147.5	162.6	177.5	146.1	159.1	179.2	148.6	163.2	188.8
Jet Fuel[3]	87.2	84.3	99.3	113.5	88.8	102.2	124.8	93.5	107.7	135.4
Motor Gasoline[4]	160.3	152.4	165.2	181.7	154.9	166.1	188.6	158.5	170.7	200.8
Liquid Petroleum Gas	143.2	131.1	142.9	153.7	134.7	145.0	156.8	139.7	147.0	168.1
Residual Fuel	67.3	56.0	65.9	80.2	64.1	72.1	97.5	68.3	75.2	106.1
Residual Fuel (2003 dollars per barrel)	28.25	23.50	27.69	33.70	26.92	30.28	40.93	28.68	31.58	44.58
Ethanol (E85)[5]	152.4	160.5	169.4	186.9	161.6	171.9	192.9	170.1	175.9	205.0
Electric Power[6]										
Distillate Fuel	89.8	74.4	88.6	102.9	83.3	96.3	117.5	87.8	101.7	126.7
Residual Fuel	71.7	62.7	73.7	87.9	70.5	79.4	104.5	74.9	82.5	112.9
Residual Fuel (2003 dollars per barrel)	30.12	26.32	30.97	36.92	29.63	33.36	43.88	31.45	34.64	47.44
Refined Petroleum Product Prices[7]										
Distillate Fuel	136.7	131.0	146.5	161.5	134.4	147.9	169.1	137.7	152.9	178.8
Jet Fuel[3]	87.2	84.3	99.3	113.5	88.8	102.2	124.8	93.5	107.7	135.4
Liquefied Petroleum Gas	112.1	94.5	106.7	117.6	101.0	111.5	126.4	106.1	115.5	136.8
Motor Gasoline[4]	160.3	152.2	165.0	181.5	154.8	165.9	188.5	158.4	170.6	200.7
Residual Fuel	69.8	59.8	70.5	84.7	67.7	76.2	101.3	72.0	79.3	109.8
Residual Fuel (2003 dollars per barrel)	29.32	25.11	29.60	35.56	28.43	32.02	42.54	30.22	33.31	46.12
Average	**136.6**	**128.3**	**141.8**	**156.8**	**132.4**	**144.2**	**165.3**	**136.8**	**149.3**	**176.9**

[1]Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
[2]Diesel fuel containing 500 part per million (ppm) or 15 ppm sulfur for on-road use. Includes Federal and State taxes while excluding county and local taxes.
[3]Kerosene-type jet fuel.
[4]Sales weighted-average price for all grades. Includes Federal, State and local taxes.
[5]E85 refers to a blend of 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable). To address cold starting issues, the percentage of ethanol actually varies seasonally. The annual average ethanol content of 74 percent is used for this forecast.
[6]Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
[7]Weighted averages of end-use fuel prices are derived from the prices in each sector and the corresponding sectoral consumption.
Note: Data for 2003 are model results and may differ slightly from official EIA data reports.
Sources: 2003 prices for motor gasoline, distillate, and jet fuel are based on: EIA, *Petroleum Marketing Annual 2003*, DOE/EIA-0487(2003) (Washington, DC, August 2004). 2003 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." 2003 electric power prices based on: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2003 ethanol prices derived from weekly spot prices in the Oxy Fuel News. 2003 world oil price: EIA, *Annual Energy Review 2003*, DOE/EIA-0384(2003) (Washington, DC, September 2004). **Projections:** EIA, AEO2005 National Energy Modeling System runs AEO2005.D102004A, CF2005.D111104A, and VHW2005.D120304A.

Table D7. International Petroleum Supply and Disposition Summary
(Million Barrels per Day, Unless Otherwise Noted)

Supply and Disposition	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
World Oil Price (2003 dollars per barrel)[1]	**27.73**	**25.00**	**30.99**	**37.00**	**28.50**	**33.67**	**44.33**	**30.31**	**35.00**	**48.00**
Production (Conventional)[2]										
Industrialized Countries										
U.S. (50 states)	9.09	9.61	9.93	10.07	9.21	9.55	10.12	8.82	9.28	9.79
Canada	2.25	1.83	1.85	1.90	1.60	1.62	1.71	1.57	1.59	1.69
Mexico	3.80	4.21	4.28	4.47	4.62	4.70	5.05	4.85	4.92	5.35
Western Europe[3]	6.69	6.35	6.41	6.66	5.51	5.56	5.90	5.00	5.04	5.40
Japan	0.13	0.08	0.09	0.10	0.06	0.07	0.09	0.06	0.07	0.09
Australia and New Zealand	0.66	0.96	0.97	1.01	0.89	0.90	0.95	0.86	0.87	0.93
Total Industrialized	**22.62**	**23.05**	**23.54**	**24.20**	**21.89**	**22.40**	**23.83**	**21.16**	**21.77**	**23.26**
Eurasia										
Former Soviet Union										
Russia	8.34	9.98	10.16	10.66	10.90	11.09	12.02	11.11	11.29	12.38
Caspian Area[4]	1.87	3.14	3.20	3.37	5.23	5.33	5.82	6.22	6.32	7.00
Eastern Europe[5]	0.22	0.33	0.34	0.35	0.41	0.42	0.44	0.45	0.46	0.49
Total Eurasia	**10.44**	**13.46**	**13.70**	**14.38**	**16.54**	**16.84**	**18.28**	**17.78**	**18.07**	**19.86**
Developing Countries										
OPEC[6]										
Asia	1.38	1.47	1.31	1.11	1.51	1.35	0.98	1.56	1.41	0.98
Middle East	20.95	24.45	21.74	18.46	32.37	28.88	20.87	38.47	34.76	24.21
North Africa	2.99	3.44	3.06	2.60	4.44	3.96	2.86	4.78	4.32	3.01
West Africa	1.98	2.36	2.10	1.78	3.13	2.79	2.02	3.74	3.38	2.36
South America	2.85	3.34	2.97	2.52	4.44	3.96	2.86	5.20	4.70	3.27
Non-OPEC										
China	3.10	3.64	3.70	3.82	3.49	3.55	3.76	3.41	3.47	3.70
Other Asia	2.59	2.65	2.70	2.80	2.71	2.76	2.94	2.64	2.69	2.89
Middle East[7]	1.81	2.24	2.28	2.35	2.57	2.62	2.77	2.78	2.83	3.02
Africa	2.94	3.75	3.82	4.05	5.44	5.54	6.10	6.56	6.67	7.45
South and Central America	3.93	4.53	4.61	4.86	5.91	6.02	6.57	6.42	6.52	7.22
Total Developing Countries	**44.52**	**51.87**	**48.28**	**44.36**	**66.02**	**61.44**	**51.72**	**75.57**	**70.74**	**58.10**
Total Production (Conventional)	**77.58**	**88.38**	**85.51**	**82.95**	**104.45**	**100.68**	**93.83**	**114.51**	**110.58**	**101.22**
Production[6] (Nonconventional)										
U.S. (50 states)	0.00	0.00	0.00	0.12	0.00	0.00	0.77	0.00	0.00	1.19
Other North America	0.93	1.73	1.74	2.12	3.33	3.34	4.20	3.46	3.47	4.69
Western Europe	0.04	0.04	0.05	0.05	0.05	0.06	0.07	0.05	0.07	0.08
Asia	0.03	0.04	0.04	0.08	0.05	0.07	0.16	0.07	0.09	0.20
Middle East[7]	0.03	0.12	0.13	0.19	0.21	0.25	0.44	0.25	0.30	0.56
Africa	0.21	0.23	0.23	0.33	0.28	0.29	0.57	0.32	0.33	0.68
South and Central America	0.57	0.82	0.84	1.38	1.48	1.51	2.53	1.50	1.54	2.99
Total Production (Nonconventional)	**1.79**	**2.98**	**3.03**	**4.28**	**5.40**	**5.52**	**8.75**	**5.65**	**5.80**	**10.39**
Total Production	**79.37**	**91.35**	**88.54**	**87.23**	**109.85**	**106.20**	**102.59**	**120.17**	**116.39**	**111.62**

Table D7. International Petroleum Supply and Disposition Summary (Continued)
(Million Barrels per Day, Unless Otherwise Noted)

Supply and Disposition	2003	Projections								
		2010			2020			2025		
		Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price	Reference	October Futures	High B World Oil Price
Consumption[8]										
Industrialized Countries										
U.S. (50 states)	20.00	22.98	22.54	22.22	26.32	25.76	24.96	27.93	27.30	26.22
U.S. Territories	0.36	0.38	0.35	0.34	0.43	0.40	0.36	0.47	0.44	0.39
Canada	2.17	2.30	2.15	2.08	2.62	2.45	2.24	2.80	2.64	2.37
Mexico	2.02	2.36	2.23	2.18	2.88	2.57	2.31	3.48	3.05	2.62
Western Europe[3]	14.22	14.72	14.25	14.01	15.45	15.00	14.40	15.71	15.31	14.59
Japan	5.58	5.70	5.29	5.14	5.69	5.10	4.54	5.84	5.23	4.48
Australia and New Zealand	1.04	1.27	1.23	1.22	1.54	1.50	1.45	1.69	1.65	1.58
Total Industrialized	**45.38**	**49.72**	**48.05**	**47.18**	**54.93**	**52.78**	**50.26**	**57.92**	**55.63**	**52.26**
Eurasia										
Former Soviet Union	4.18	4.39	4.27	4.21	5.74	5.61	5.43	6.45	6.32	6.08
Eastern Europe[5]	1.42	1.56	1.53	1.52	1.89	1.86	1.83	2.09	2.06	2.01
Total Eurasia	**5.59**	**5.95**	**5.81**	**5.73**	**7.63**	**7.47**	**7.25**	**8.54**	**8.38**	**8.10**
Developing Countries										
China	5.54	7.63	7.29	7.12	11.06	10.63	10.05	12.79	12.35	11.56
India	2.19	2.79	2.68	2.64	4.37	4.15	3.92	5.29	5.04	4.68
South Korea	2.17	2.51	2.39	2.34	2.75	2.61	2.44	2.93	2.79	2.57
Other Asia	5.74	7.28	7.12	7.04	9.47	9.28	9.02	10.66	10.47	10.13
Middle East[7]	5.58	6.83	6.74	6.69	8.34	8.25	8.12	9.08	8.99	8.82
Africa	2.72	3.13	3.06	3.04	4.13	4.03	3.91	4.66	4.55	4.38
South and Central America	4.69	5.81	5.70	5.64	7.48	7.36	7.18	8.61	8.48	8.25
Total Developing Countries	**28.64**	**35.98**	**34.99**	**34.50**	**47.59**	**46.30**	**44.64**	**54.01**	**52.68**	**50.40**
Total Consumption	**79.60**	**91.65**	**88.84**	**87.41**	**110.14**	**106.54**	**102.15**	**120.47**	**116.69**	**110.76**
OPEC Production[10]	30.60	35.79	31.93	27.70	47.21	42.33	31.92	55.13	50.03	36.63
Non-OPEC Production[10]	48.77	55.56	56.61	59.53	62.64	63.87	70.67	65.04	66.36	74.98
Net Eurasia Exports	4.84	7.51	7.89	8.65	8.92	9.37	11.03	9.25	9.68	11.77
OPEC Market Share	0.39	0.39	0.36	0.32	0.43	0.40	0.31	0.46	0.43	0.33

[1]Average refiner acquisition cost of imported crude oil.
[2]Includes production of crude oil (including lease condensates, natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, alcohol and other sources.
[3]Western Europe = Austria, Belgium, Bosnia and Herzegovina, Croatia, Denmark, Finland, France, the unified Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Macedonia, Netherlands, Norway, Portugal, Slovenia, Spain, Sweden, Switzerland, United Kingdom, and Yugoslavia.
[4]Caspian area includes Other Former Soviet Union.
[5]Eastern Europe = Albania, Bulgaria, Czech Republic, Hungary, Poland, Romania, and Slovakia.
[6]OPEC = Organization of Petroleum Exporting Countries - Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.
[7]Non-OPEC Middle East includes Turkey.
[8]Includes liquids produced from energy crops, natural gas, coal, oil sands, and shale. Includes both OPEC and non-OPEC producers in the regional breakdown.
[9]Includes both OPEC and non-OPEC consumers in the regional breakdown.
[10]Includes both conventional and nonconventional liquids production.
Note: Totals may not equal sum of components due to independent rounding. Data for 2003 are model results and may differ slightly from official EIA data reports.
Sources: Energy Information Administration, AEO2005 National Energy Modeling System runs AEO2005.D102004A, CF2005.D111104A, and VHW2005.D120304A.