

Annual Energy Outlook 2006 with Projections to 2030
Release Date: December 2005
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Table 1. Total Energy Supply and Disposition Summary
(quadrillion Btu, unless otherwise noted)

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Production										
Crude Oil & Lease Condensate	12.05	11.47	11.27	11.65	11.73	11.96	12.37	12.45	12.37	12.41
Natural Gas Plant Liquids	2.34	2.46	2.42	2.49	2.34	2.37	2.38	2.39	2.42	2.44
Dry Natural Gas	19.63	19.02	18.68	18.70	18.54	18.94	19.03	19.13	19.49	19.71
Coal	22.12	22.86	23.41	23.84	24.63	24.96	25.53	25.78	25.76	25.94
Nuclear Power	7.96	8.23	8.08	8.22	8.41	8.42	8.44	8.44	8.45	8.46
Renewable Energy 1/	5.69	5.74	5.88	6.35	6.71	6.77	6.86	7.08	7.11	7.13
Other 2/	0.72	0.64	0.97	1.01	1.67	1.80	1.95	2.16	2.43	2.63
Total	70.52	70.42	70.72	72.26	74.02	75.22	76.57	77.42	78.03	78.72
Imports										
Crude Oil 3/	21.06	22.02	22.34	22.29	21.93	21.93	21.93	22.01	22.17	22.43
Petroleum Products 4/	5.16	5.93	6.40	6.41	5.81	5.96	6.02	6.36	6.66	6.69
Natural Gas	4.10	4.36	4.34	4.64	4.77	4.86	4.88	5.01	5.14	5.52
Other Imports 5/	0.67	0.83	0.93	0.92	0.48	0.58	0.54	0.45	0.51	0.59
Total	30.98	33.14	34.01	34.26	32.99	33.32	33.36	33.83	34.47	35.23
Exports										
Petroleum 6/	2.03	2.07	2.07	2.07	2.15	2.16	2.22	2.15	2.22	2.18
Natural Gas	0.71	0.86	0.86	0.90	0.68	0.67	0.62	0.55	0.54	0.55
Coal	1.12	1.25	1.22	1.27	1.21	1.17	1.14	1.03	0.93	0.82
Total	3.86	4.18	4.15	4.24	4.03	4.00	3.98	3.74	3.68	3.55
Discrepancy 7/	-0.40	-0.31	0.09	1.01	-0.36	-0.38	-0.41	-0.36	-0.34	-0.26
Consumption										
Petroleum Products 8/	38.96	40.08	40.22	40.37	41.32	41.84	42.43	43.14	43.78	44.33
Natural Gas	23.04	23.07	22.86	22.83	23.04	23.55	23.73	24.04	24.54	25.14
Coal	22.38	22.53	23.37	23.44	23.84	24.29	24.82	25.09	25.19	25.52
Nuclear Power	7.96	8.23	8.08	8.22	8.41	8.42	8.44	8.44	8.45	8.46
Renewable Energy 1/	5.70	5.74	5.88	6.36	6.71	6.77	6.86	7.08	7.11	7.13
Other 9/	0.02	0.04	0.08	0.05	0.03	0.06	0.07	0.07	0.08	0.08
Total	98.05	99.68	100.49	101.27	103.35	104.93	106.36	107.87	109.16	110.67
Net Imports - Petroleum	24.19	25.88	26.67	26.63	25.59	25.72	25.72	26.22	26.61	26.94
Prices (2004 dollars per unit)										
(dollars per barrel)										
Imported Low Sulfur Light Crude Oil Price 10/	31.72	40.49	55.93	59.10	55.62	52.30	50.14	47.29	47.34	47.65
Imported Crude Oil Price 10/	28.46	35.99	49.70	53.95	51.46	48.98	46.49	43.99	43.78	43.59
(dollars per thousand cubic feet)										
Natural Gas Wellhead Price 11/	5.08	5.49	7.62	6.85	6.13	5.78	5.34	5.03	4.78	4.72
(dollars per ton)										
Coal Minemouth Price	18.40	20.07	21.20	21.46	21.81	21.87	21.80	22.23	21.46	21.19
(cents per kilowatthour)										
Average Electricity Price	7.6	7.6	8.3	8.2	7.8	7.6	7.4	7.3	7.2	7.1

**Table 1. Total Energy Supply and Disposition Summary
(quadrillion Btu, unless otherwise noted)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Production										
Crude Oil & Lease Condensate	12.44	12.44	12.37	12.41	12.22	12.04	11.90	11.75	11.53	11.24
Natural Gas Plant Liquids	2.49	2.49	2.57	2.64	2.66	2.68	2.69	2.67	2.66	2.65
Dry Natural Gas	20.18	20.30	20.97	21.67	21.94	22.15	22.22	22.09	22.05	22.00
Coal	25.87	25.79	25.73	25.87	26.10	26.20	26.43	27.30	27.87	28.53
Nuclear Power	8.47	8.54	8.66	8.80	8.94	9.04	9.09	9.09	9.09	9.09
Renewable Energy 1/	7.21	7.31	7.43	7.55	7.64	7.73	7.84	8.00	8.11	8.25
Other 2/	2.74	2.81	2.85	2.94	2.99	3.07	3.11	3.16	3.22	3.26
Total	79.39	79.70	80.58	81.87	82.49	82.90	83.27	84.05	84.52	85.01
Imports										
Crude Oil 3/	22.55	22.65	22.91	23.19	23.65	24.05	24.37	24.63	24.91	25.25
Petroleum Products 4/	6.89	7.14	7.29	7.23	7.47	7.72	7.94	8.01	8.15	8.36
Natural Gas	5.58	5.87	5.81	5.56	5.48	5.47	5.59	5.83	5.93	5.99
Other Imports 5/	0.62	0.67	0.74	0.80	0.90	1.22	1.40	1.36	1.58	1.78
Total	35.63	36.34	36.75	36.77	37.50	38.46	39.30	39.83	40.57	41.38
Exports										
Petroleum 6/	2.21	2.17	2.18	2.19	2.20	2.27	2.22	2.24	2.24	2.23
Natural Gas	0.56	0.57	0.58	0.60	0.62	0.64	0.64	0.68	0.73	0.75
Coal	0.72	0.63	0.54	0.49	0.48	0.44	0.45	0.46	0.47	0.47
Total	3.49	3.37	3.30	3.29	3.30	3.36	3.31	3.39	3.44	3.46
Discrepancy 7/	-0.21	-0.21	-0.16	-0.23	-0.15	-0.14	-0.10	-0.15	-0.15	-0.11
Consumption										
Petroleum Products 8/	44.80	45.28	45.69	46.19	46.70	47.24	47.72	48.14	48.59	49.04
Natural Gas	25.66	26.07	26.67	27.09	27.25	27.44	27.64	27.70	27.72	27.71
Coal	25.54	25.59	25.66	25.90	26.23	26.64	27.02	27.65	28.24	28.91
Nuclear Power	8.47	8.54	8.66	8.80	8.94	9.04	9.09	9.09	9.09	9.09
Renewable Energy 1/	7.21	7.31	7.43	7.55	7.64	7.73	7.85	8.00	8.11	8.25
Other 9/	0.07	0.07	0.08	0.07	0.06	0.06	0.05	0.05	0.05	0.05
Total	111.75	112.87	114.18	115.58	116.83	118.14	119.36	120.63	121.80	123.05
Net Imports - Petroleum	27.23	27.62	28.02	28.22	28.91	29.50	30.10	30.39	30.81	31.37
Prices (2004 dollars per unit)										
(dollars per barrel)										
Imported Low Sulfur Light Crude Oil Price 10/	47.37	46.90	47.79	48.20	48.31	49.24	48.37	50.70	50.53	52.50
Imported Crude Oil Price 10/	43.39	43.19	43.00	43.39	43.78	44.19	44.59	44.99	45.59	46.19
(dollars per thousand cubic feet)										
Natural Gas Wellhead Price 11/	4.80	4.71	4.52	4.46	4.53	4.71	4.85	4.90	5.03	5.12
(dollars per ton)										
Coal Minemouth Price	20.84	20.48	20.39	20.27	20.21	20.19	20.17	20.20	20.09	20.13
(cents per kilowatthour)										
Average Electricity Price	7.2	7.2	7.1	7.1	7.1	7.2	7.3	7.2	7.3	7.3

**Table 1. Total Energy Supply and Disposition Summary
(quadrillion Btu, unless otherwise noted)**

	2023	2024	2025	2026	2027	2028	2029	2030	2004-2030
Production									
Crude Oil & Lease Condensate	11.07	10.74	10.56	10.39	10.16	10.02	9.81	9.68	-0.7%
Natural Gas Plant Liquids	2.65	2.64	2.62	2.61	2.60	2.59	2.58	2.57	0.2%
Dry Natural Gas	22.04	22.01	21.80	21.77	21.67	21.58	21.49	21.45	0.5%
Coal	29.17	29.94	30.61	31.42	32.18	32.96	33.63	34.10	1.6%
Nuclear Power	9.09	9.09	9.09	9.09	9.09	9.09	9.09	9.09	0.4%
Renewable Energy 1/	8.36	8.51	8.61	8.74	8.82	8.90	8.95	9.02	1.8%
Other 2/	3.26	3.30	3.32	3.35	3.40	3.45	3.45	3.44	6.7%
Total	85.63	86.23	86.59	87.37	87.92	88.58	89.00	89.36	0.9%
Imports									
Crude Oil 3/	25.71	26.48	26.96	27.33	27.79	28.44	29.01	29.54	1.1%
Petroleum Products 4/	8.40	8.28	8.41	8.65	8.89	8.85	9.03	9.27	1.7%
Natural Gas	6.07	6.15	6.37	6.45	6.51	6.53	6.57	6.72	1.7%
Other Imports 5/	1.91	1.97	2.02	1.99	2.07	2.18	2.33	2.42	4.2%
Total	42.10	42.88	43.76	44.42	45.26	46.01	46.95	47.95	1.4%
Exports									
Petroleum 6/	2.24	2.25	2.26	2.27	2.28	2.29	2.30	2.31	0.4%
Natural Gas	0.80	0.84	0.86	0.91	0.96	0.96	1.01	1.01	0.6%
Coal	0.48	0.48	0.48	0.47	0.46	0.44	0.40	0.40	-4.3%
Total	3.51	3.57	3.61	3.65	3.70	3.69	3.71	3.72	-0.5%
Discrepancy 7/	-0.08	-0.21	-0.25	-0.28	-0.33	-0.36	-0.34	-0.30	N/A
Consumption									
Petroleum Products 8/	49.46	50.04	50.57	51.18	51.82	52.43	53.02	53.58	1.1%
Natural Gas	27.78	27.79	27.78	27.78	27.71	27.64	27.54	27.66	0.7%
Coal	29.54	30.27	30.89	31.57	32.33	33.15	33.93	34.49	1.7%
Nuclear Power	9.09	9.09	9.09	9.09	9.09	9.09	9.09	9.09	0.4%
Renewable Energy 1/	8.36	8.51	8.61	8.74	8.82	8.91	8.95	9.02	1.8%
Other 9/	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9%
Total	124.29	125.75	126.99	128.41	129.82	131.26	132.58	133.88	1.1%
Net Imports - Petroleum	31.88	32.51	33.11	33.71	34.40	35.01	35.74	36.49	1.3%
Prices (2004 dollars per unit)									
(dollars per barrel)									
Imported Low Sulfur Light Crude Oil Price 10/	53.14	52.06	54.08	54.81	55.71	56.34	56.73	56.97	1.3%
Imported Crude Oil Price 10/	46.80	47.39	47.99	48.39	48.80	49.19	49.58	49.99	1.3%
(dollars per thousand cubic feet)									
Natural Gas Wellhead Price 11/	5.19	5.30	5.43	5.51	5.61	5.67	5.75	5.92	0.3%
(dollars per ton)									
Coal Minemouth Price	20.27	20.45	20.63	20.85	21.02	21.35	21.53	21.73	0.3%
(cents per kilowatthour)									
Average Electricity Price	7.3	7.3	7.4	7.4	7.4	7.4	7.4	7.5	0.0%

**Table 1. Total Energy Supply and Disposition Summary
(quadrillion Btu, unless otherwise noted)**

1/ Includes grid-connected electricity from conventional hydroelectric; wood and wood waste; landfill gas; municipal solid waste; other biomass; wind; photovoltaic and solar thermal sources; non-electric energy from renewable sources, such as active and passive solar systems, and wood; and both the ethanol and gasoline components of E85, but not the ethanol components of blends less than 85 percent. Excludes electricity imports using renewable sources and nonmarketed renewable energy. See Table 18 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/ Weighted average price delivered to U.S. refiners.

11/ Represents lower 48 onshore and offshore supplies.

Btu = British thermal unit.

Mcf = Thousand cubic feet.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2003 and 2004 are model results and may differ slightly from official EIA data reports.

Sources: 2003 natural gas supply values: Energy Information Administration (EIA), Natural Gas Annual 2003, DOE/EIA-0131(2003) (Washington, DC, December 2004).

2004 natural gas supply values and natural gas wellhead price: EIA, Natural Gas Monthly, DOE/EIA-0130(2005/06) (Washington, DC, June 2005), subtracting 1 billion cubic feet per day to account for carbon dioxide included in production in Texas. 2003 coal minemouth prices: EIA, Annual Coal Report 2004, DOE/EIA-0584(2004) (Washington, DC, September 2005). 2004 petroleum supply values and 2003 crude oil and lease condensate production: EIA, Petroleum Supply Annual 2004, DOE/EIA-0340(2004)/1 (Washington, DC, June 2005). Other 2003 petroleum supply values: EIA, Petroleum Supply Annual 2003, DOE/EIA-0340(2003)/1 (Washington, DC, June 2004). 2003 natural gas wellhead price: Mineral Management Service and EIA, Natural Gas Annual 2003, DOE/EIA-0131(2003) (Washington, DC, December 2004). 2003 and 2004 world oil price: EIA, Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report." Other 2003 and 2004 values: EIA, Annual Energy Review 2004, DOE/EIA-0384(2004) (Washington, DC, August 2005) and EIA, Quarterly Coal Report, October-December 2004, DOE/EIA-0121(2004/4Q) (Washington, DC, March 2005). Projections: EIA, AEO2006 National Energy Modeling System run aeo2006.d111905a.