

Table A1. Total energy supply, disposition, and price summary
(quadrillion Btu per year, unless otherwise noted)

Supply, disposition, and prices	Reference case							Annual growth 2011-2040 (percent)
	2010	2011	2020	2025	2030	2035	2040	
Production								
Crude oil and lease condensate	11.59	12.16	15.95	14.50	13.47	13.40	13.12	0.3%
Natural gas plant liquids	2.78	2.88	4.14	4.20	3.85	3.87	3.89	1.0%
Dry natural gas	21.82	23.51	27.19	29.22	30.44	32.04	33.87	1.3%
Coal ¹	22.04	22.21	21.74	22.54	23.25	23.60	23.54	0.2%
Nuclear / uranium ²	8.43	8.26	9.25	9.54	9.49	9.14	9.44	0.5%
Hydropower	2.54	3.17	2.83	2.86	2.87	2.90	2.92	-0.3%
Biomass ³	4.05	4.05	5.00	5.27	5.42	5.83	6.96	1.9%
Other renewable energy ⁴	1.31	1.58	2.22	2.32	2.50	2.91	3.84	3.1%
Other ⁵	0.76	1.20	0.83	0.85	0.88	0.90	0.89	-1.0%
Total	75.31	79.02	89.16	91.29	92.18	94.59	98.46	0.8%
Imports								
Crude oil	20.14	19.46	15.02	15.57	16.33	16.43	16.89	-0.5%
Liquid fuels and other petroleum ⁶	5.26	5.24	5.55	5.47	5.33	5.13	4.82	-0.3%
Natural gas ⁷	3.83	3.54	2.58	2.36	2.63	2.53	2.01	-1.9%
Other imports ⁸	0.52	0.43	0.11	0.17	0.13	0.48	0.84	2.4%
Total	29.75	28.66	23.26	23.57	24.41	24.57	24.55	-0.5%
Exports								
Liquid fuels and other petroleum ⁹	4.86	6.08	5.37	5.14	5.25	5.55	5.71	-0.2%
Natural gas ¹⁰	1.15	1.52	2.67	3.92	4.71	5.07	5.56	4.6%
Coal	2.10	2.75	3.13	3.18	3.51	3.80	3.79	1.1%
Total	8.11	10.35	11.17	12.25	13.47	14.42	15.06	1.3%
Discrepancy¹¹	-1.40	-0.36	0.21	0.27	0.30	0.32	0.32	--
Consumption								
Liquid fuels and other petroleum ¹²	37.76	37.02	37.54	36.87	36.08	35.82	36.07	-0.1%
Natural gas	24.32	24.91	26.77	27.28	27.95	29.06	29.83	0.6%
Coal ¹³	20.81	19.66	18.59	19.35	19.70	20.09	20.35	0.1%
Nuclear / uranium ²	8.43	8.26	9.25	9.54	9.49	9.14	9.44	0.5%
Hydropower	2.54	3.17	2.83	2.86	2.87	2.90	2.92	-0.3%
Biomass ¹⁴	2.87	2.74	3.53	3.82	3.94	4.23	4.91	2.0%
Other renewable energy ⁴	1.31	1.58	2.22	2.32	2.50	2.91	3.84	3.1%
Other ¹⁵	0.31	0.35	0.31	0.30	0.28	0.26	0.29	-0.6%
Total	98.35	97.70	101.04	102.34	102.81	104.41	107.64	0.3%
Prices (2011 dollars per unit)								
Crude oil spot prices (dollars per barrel)								
Brent ¹⁶	81.31	111.26	105.57	117.36	130.47	145.41	162.68	1.3%
West Texas Intermediate	81.08	94.86	103.57	115.36	128.47	143.41	160.68	1.8%
Natural gas at Henry Hub (dollars per million Btu)								
at the minemouth ¹⁷	4.46	3.98	4.13	4.87	5.40	6.32	7.83	2.4%
Coal (dollars per ton)								
at the minemouth ¹⁷	36.37	41.16	49.26	52.02	55.64	58.57	61.28	1.4%
Coal (dollars per million Btu)								
at the minemouth ¹⁷	1.80	2.04	2.45	2.60	2.79	2.94	3.08	1.4%
Average end-use ¹⁸	2.42	2.57	2.77	2.94	3.10	3.25	3.42	1.0%
Average electricity (cents per kilowatthour)	10.0	9.9	9.4	9.5	9.7	10.1	10.8	0.3%

Table A1. Total energy supply and disposition summary (continued)
(quadrillion Btu per year, unless otherwise noted)

Supply, disposition, and prices	Reference case							Annual growth 2011-2040 (percent)
	2010	2011	2020	2025	2030	2035	2040	
Prices (nominal dollars per unit)								
Crude oil spot prices (dollars per barrel)								
Brent ¹⁶	79.61	111.26	121.73	147.90	180.04	219.73	268.50	3.1%
West Texas Intermediate	79.39	94.86	119.43	145.38	177.28	216.70	265.20	3.6%
Natural gas at Henry Hub (dollars per million Btu).	4.37	3.98	4.77	6.14	7.45	9.55	12.92	4.1%
Coal (dollars per ton)								
at the minemouth ¹⁷	35.61	41.16	56.81	65.55	76.78	88.51	101.14	3.1%
Coal (dollars per million Btu)								
at the minemouth ¹⁷	1.76	2.04	2.83	3.27	3.85	4.44	5.08	3.2%
Average end-use ¹⁸	2.37	2.57	3.19	3.70	4.28	4.92	5.65	2.8%
Average electricity (cents per kilowatthour)	9.8	9.9	10.8	12.0	13.4	15.2	17.8	2.0%

¹Includes waste coal.

²These values represent the energy obtained from uranium when it is used in light water reactors. The total energy content of uranium is much larger, but alternative processes are required to take advantage of it.

³Includes grid-connected electricity from wood and wood waste; biomass, such as corn, used for liquid fuels production; and non-electric energy demand from wood. Refer to Table A17 for details.

⁴Includes grid-connected electricity from landfill gas; biogenic municipal 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 data.

⁵Includes non-biogenic municipal waste, liquid hydrogen, methanol, and some domestic inputs to refineries.

⁶Includes imports of finished petroleum products, unfinished oils, alcohols, ethers, blending components, and renewable fuels such as ethanol.

⁷Includes imports of liquefied natural gas that are later re-exported.

⁸Includes coal, coal coke (net), and electricity (net). Excludes imports of fuel used in nuclear power plants.

⁹Includes crude oil, petroleum products, ethanol, and biodiesel.

¹⁰Includes re-exported liquefied natural gas.

¹¹Balancing item. Includes unaccounted for supply, losses, gains, and net storage withdrawals.

¹²Includes petroleum-derived fuels and non-petroleum derived fuels, such as ethanol and biodiesel, and coal-based synthetic liquids. Petroleum coke, which is a solid, is included. Also included are natural gas plant liquids and crude oil consumed as a fuel. Refer to Table A17 for detailed renewable liquid fuels consumption.

¹³Excludes coal converted to coal-based synthetic liquids and natural gas.

¹⁴Includes 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.

¹⁵Includes non-biogenic municipal waste, liquid hydrogen, and net electricity imports.

¹⁶Annual average price for Brent crude oil on the Intercontinental exchange.

¹⁷Includes reported prices for both open market and captive mines. Prices weighted by production, which differs from average minemouth prices published in EIA data reports where it is weighted by reported sales.

¹⁸Prices 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 2010 and 2011 are model results and may differ slightly from official EIA data reports.

Sources: 2010 natural gas supply values: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2010*, DOE/EIA-0131(2010) (Washington, DC, December 2011). 2011 natural gas supply values: EIA, *Natural Gas Monthly*, DOE/EIA-0130(2012/07) (Washington, DC, July 2012). 2010 and 2011 natural gas spot price at Henry Hub based on daily data from Natural Gas Intelligence. 2010 and 2011 coal minemouth and delivered coal prices: EIA, *Annual Coal Report 2011*, DOE/EIA-0584(2011) (Washington, DC, November 2012). 2011 petroleum supply values and 2010 crude oil and lease condensate production: EIA, *Petroleum Supply Annual 2011*, DOE/EIA-0340(2011)/1 (Washington, DC, August 2012). Other 2010 petroleum supply values: EIA, *Petroleum Supply Annual 2010*, DOE/EIA-0340(2010)/1 (Washington, DC, July 2011). 2010 and 2011 crude oil spot prices: Thomson Reuters. Other 2010 and 2011 coal values: *Quarterly Coal Report, October-December 2011*, DOE/EIA-0121(2011/4Q) (Washington, DC, March 2012). Other 2010 and 2011 values: EIA, *Annual Energy Review 2011*, DOE/EIA-0384(2011) (Washington, DC, September 2012). **Projections:** EIA, AEO2013 National Energy Modeling System run REF2013.D102312A.