

## Annual Energy Outlook 2008

**Table 1. Total energy supply and disposition in the AEO2008 and AEO2007 reference cases, 2006-2030**

Energy and economic factors	2006	2010		2020		2030	
		AEO2008	AEO2007	AEO2008	AEO2007	AEO2008	AEO2007
<b>Primary energy production (quadrillion Btu)</b>							
Petroleum	13.16	15.03	14.42	15.71	14.85	14.15	13.71
Dry natural gas	19.04	19.85	19.93	20.24	21.41	20.00	21.15
Coal	23.79	23.97	24.47	25.2	26.61	28.63	33.52
Nuclear electricity	8.21	8.31	8.23	9.05	9.23	9.57	9.33
Hydroelectricity	2.89	2.92	3.02	3.00	3.08	3.00	3.09
Biomass	2.94	4.05	4.22	6.42	4.69	8.12	5.26
Other renewable energy	0.88	1.51	1.18	2.00	1.33	2.45	1.44
Other	0.50	0.54	0.67	0.58	0.89	0.64	1.12
<b>Total</b>	<b>71.41</b>	<b>76.17</b>	<b>76.13</b>	<b>82.21</b>	<b>82.09</b>	<b>86.56</b>	<b>88.63</b>
<b>Net imports (quadrillion Btu)</b>							
Petroleum	26.69	23.93	25.19	24.03	28.92	26.52	34.74
Natural gas	3.56	3.96	4.67	3.66	5.48	3.28	5.59
Coal/other (- indicates export)	-0.28	-0.84	-0.19	1.06	0.93	1.86	1.57
<b>Total</b>	<b>29.98</b>	<b>27.04</b>	<b>29.66</b>	<b>28.75</b>	<b>35.33</b>	<b>31.66</b>	<b>41.90</b>
<b>Consumption (quadrillion Btu)</b>							
Liquid fuels	40.06	40.46	41.76	42.24	46.52	43.99	52.17
Natural gas	22.30	23.93	24.73	24.01	27.04	23.39	26.89
Coal	22.50	23.03	24.24	25.87	27.29	29.90	34.14
Nuclear electricity	8.21	8.31	8.23	9.05	9.23	9.57	9.33
Hydroelectricity	2.89	2.92	3.02	3.00	3.08	3.00	3.09
Biomass	2.50	3.01	3.30	4.50	3.64	5.51	4.06
Other renewable energy	0.88	1.51	1.18	2.00	1.33	2.45	1.44
Net electricity imports	0.19	0.18	0.04	0.17	0.04	0.20	0.04
<b>Total</b>	<b>99.50</b>	<b>103.30</b>	<b>106.50</b>	<b>110.80</b>	<b>118.16</b>	<b>118.00</b>	<b>131.16</b>
<b>Liquid fuels (million barrels per day)</b>							
Domestic crude oil production	5.10	5.93	5.67	6.23	5.89	5.59	5.39
Other domestic production	3.19	3.69	4.03	4.46	4.49	4.85	5.08
Net imports	12.45	11.39	11.79	11.36	13.56	12.41	16.37
Consumption	20.65	20.99	21.59	21.96	24.03	22.80	26.95
<b>Natural gas (trillion cubic feet)</b>							
Production	18.57	19.35	19.42	19.73	20.86	19.49	20.61
Net imports	3.46	3.85	4.55	3.55	5.35	3.18	5.45
Consumption	21.66	23.25	24.02	23.33	26.26	22.72	26.12
<b>Coal (million short tons)</b>							
Production	1,177	1,179	1,202	1,281	1,336	1,467	1,704
Net imports	-15	-34	-7	46	41	78	68
Consumption	1,114	1,145	1,195	1,327	1,377	1,545	1,772
<b>Prices (2006 dollars)</b>							
Imported low-sulfur, light crude oil (dollars per barrel)	66.02	74.03	59.23	59.70	53.64	70.45	60.93
Imported crude oil (dollars per barrel)	59.05	65.18	52.76	51.55	47.89	58.66	53.21
Domestic natural gas at wellhead (dollars per thousand cubic feet)	6.42	6.33	5.93	5.44	5.39	6.63	6.16
Domestic coal at minemouth (dollars per short ton)	24.63	26.16	24.94	22.51	22.24	23.32	23.29
Average electricity price (cents per kilowatthour)	8.9	9.2	8.3	8.6	8.1	8.8	8.3
<b>Economic indicators</b>							
Real gross domestic product (billion 2000 dollars)	11,319	12,453	12,790	15,984	17,077	20,219	22,494
GDP chain-type price index (index, 2000=1,000)	1.166	1.26	1.253	1.52	1.495	1.871	1.815
Real disposable personal income (billion 2000 dollars)	8,397	9,472	9,568	12,654	13,000	16,246	17,535
Value of manufacturing shipments (billion 2000 dollars)	5,821	5,997	6,298	7,113	7,779	7,997	9,502
<b>Primary energy intensity (thousand Btu per 2000 dollar of GDP)</b>							
	<b>8.79</b>	<b>8.30</b>	<b>8.33</b>	<b>6.93</b>	<b>6.92</b>	<b>5.84</b>	<b>5.83</b>
<b>Carbon dioxide emissions (million metric tons)</b>							
	<b>5,890</b>	<b>6,011</b>	<b>6,214</b>	<b>6,384</b>	<b>6,944</b>	<b>6,851</b>	<b>7,950</b>

Notes: Quantities are derived from historical volumes and assumed thermal conversion factors. Other production includes liquid hydrogen, methanol, and some inputs to refineries. Net imports of petroleum include crude oil, petroleum products, unfinished oils, alcohols, ethers, and blending components. Other net imports include coal coke and electricity. For nuclear electricity, both production and consumption numbers are based on its fossil-fuel-equivalent energy content.

Sources: AEO2008 National Energy Modeling System, run AEO2008.D030208F; and AEO2007 National Energy Modeling System, run AEO2007.D112106A.