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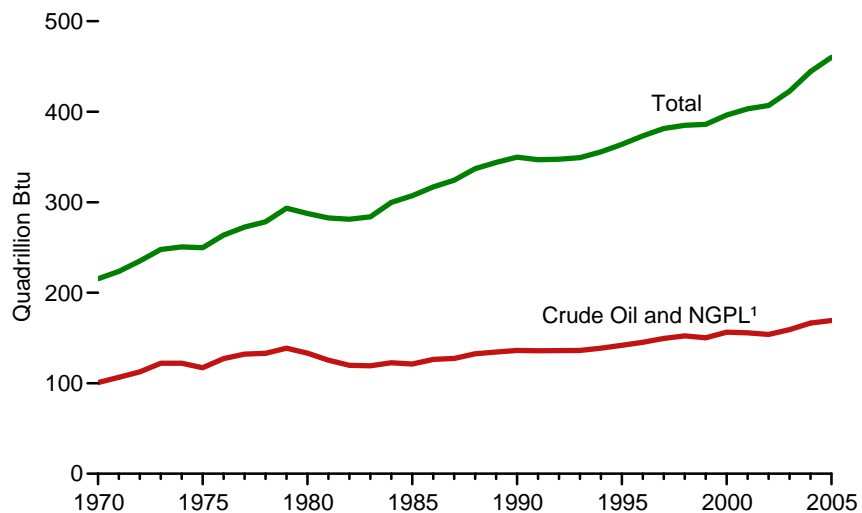
# International Energy



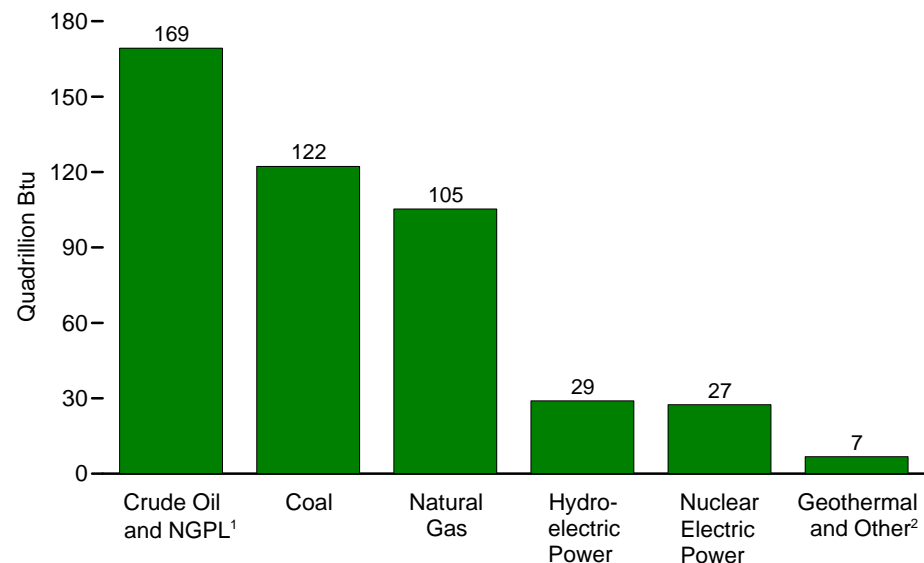
Drilling rig, Gansu Province, People's Republic of China. Source: U.S. Department of Energy.

# Figure 11.1 World Primary Energy Production by Source

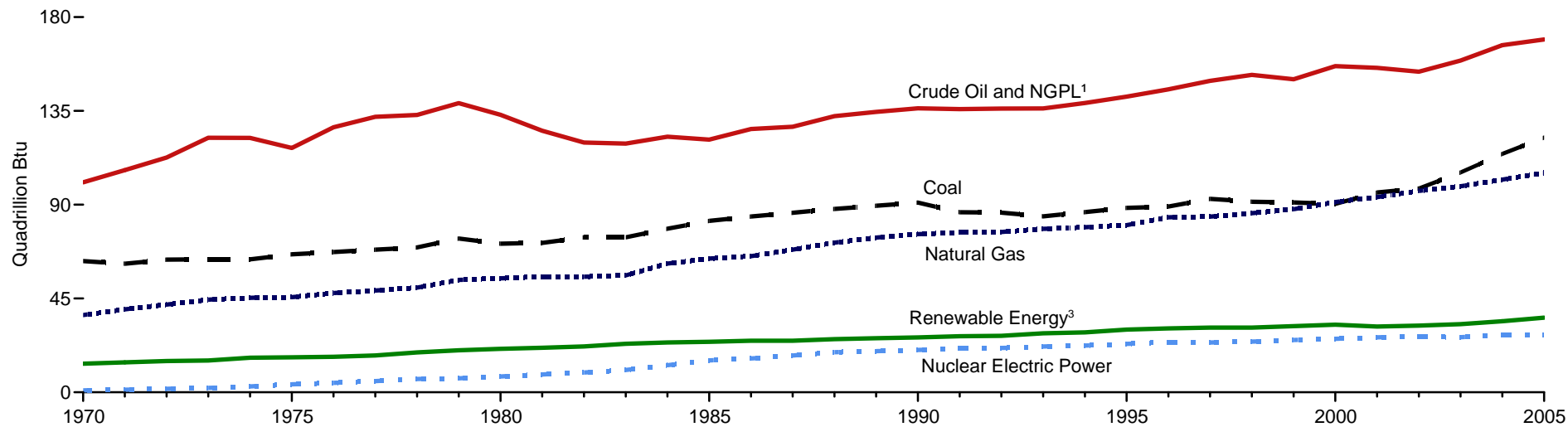
## Total and Crude Oil and NGPL<sup>1</sup>, 1970-2005



## By Source, 2005



## By Source, 1970-2005



<sup>1</sup> Natural gas plant liquids.

<sup>2</sup> Net electricity generation from wood, waste, solar, and wind. Data for United States also include other renewable energy.

<sup>3</sup> Net electricity generation from hydroelectric power, geothermal, wood, waste, solar, and

wind. Data for the United States also include other renewable energy.

Notes: • Crude oil includes lease condensate. • Because vertical scales differ, graphs should not be compared.

Source: Table 11.1.

**Table 11.1 World Primary Energy Production by Source, 1970-2005**  
(Quadrillion Btu)

Year	Coal	Natural Gas <sup>1</sup>	Crude Oil <sup>2</sup>	Natural Gas Plant Liquids	Nuclear Electric Power <sup>3</sup>	Hydroelectric Power <sup>3</sup>	Geothermal <sup>3</sup> and Other <sup>4</sup>	Total
1970	62.96	37.09	97.09	3.61	0.90	12.15	1.59	215.39
1971	61.72	39.80	102.70	3.85	1.23	12.74	1.61	223.64
1972	63.65	42.08	108.52	4.09	1.66	13.31	1.68	234.99
1973	63.87	44.44	117.88	4.23	2.15	13.52	1.73	247.83
1974	63.79	45.35	117.82	4.22	2.86	14.84	1.76	250.64
1975	66.20	45.67	113.08	4.12	3.85	15.03	1.74	249.69
1976	67.32	47.62	122.92	4.24	4.52	15.08	1.97	263.67
1977	68.46	48.85	127.75	4.40	5.41	15.56	2.11	272.54
1978	69.56	50.26	128.51	4.55	6.42	16.80	2.32	278.41
1979	73.83	53.93	133.87	4.87	6.69	17.69	2.48	293.36
1980	R71.31	54.73	128.04	5.10	7.58	17.90	2.94	R287.59
1981	R71.72	55.56	120.11	5.37	8.53	18.26	3.10	R282.65
1982	R74.37	55.49	114.45	5.35	9.51	18.71	R3.29	R281.18
1983	R74.37	56.12	113.97	5.36	10.72	19.69	R3.59	R283.82
1984	R78.48	61.78	116.88	5.73	12.99	20.19	R3.73	R299.79
1985	R82.29	64.22	115.37	5.83	15.30	20.42	R3.82	R307.26
1986	R84.36	65.32	120.18	6.15	16.25	20.89	R3.83	R316.98
1987	R86.13	68.48	121.07	6.35	17.64	20.90	R3.85	R324.43
1988	R88.02	71.80	125.84	6.65	19.23	21.48	R4.02	R337.04
1989	R89.55	74.24	127.83	6.69	19.74	21.53	R4.39	R343.97
1990	R91.02	R75.90	129.35	6.87	20.36	22.35	R3.98	R349.83
1991	R86.38	R76.72	128.73	7.12	21.18	22.83	R4.08	R347.04
1992	R86.21	R76.92	128.93	R7.17	21.28	22.71	R4.35	R347.58
1993	R84.42	R78.43	128.72	R7.47	22.01	23.94	R4.38	R349.36
1994	R86.46	R79.19	R130.69	R8.10	22.41	24.15	R4.57	R355.58
1995	R88.52	R80.26	R133.43	R8.40	23.26	25.34	R4.72	R363.93
1996	R89.14	R84.01	R136.73	R8.59	24.11	25.79	R4.87	R373.24
1997	R92.82	R84.31	R140.63	R8.79	23.88	26.07	R4.98	R381.49
1998	R91.46	R85.97	R143.24	R9.02	24.32	R26.05	R4.98	R385.03
1999	R91.09	R87.87	R140.95	R9.26	25.09	R26.55	R5.17	R385.99
2000	R90.41	R91.32	R146.83	R9.63	25.66	R26.99	R5.43	R396.26
2001	R95.90	R93.66	R145.57	R10.10	26.39	R26.36	R5.21	R403.19
2002	R97.81	R96.67	R143.54	R10.28	26.68	R26.42	R5.54	R406.94
2003	R105.49	R98.87	R148.44	R10.74	26.45	R26.79	R5.92	R422.69
2004	R114.39	R102.03	R155.42	R11.10	R27.43	R27.65	R6.43	R444.45
2005 <sup>P</sup>	122.25	105.33	157.80	11.47	27.47	29.00	6.81	460.14

<sup>1</sup> Dry production.

<sup>2</sup> Includes lease condensate.

<sup>3</sup> Net generation, i.e., gross generation less plant use.

<sup>4</sup> Includes net electricity generation from wood, waste, solar, and wind. Data for the United States also include other renewable energy.

R=Revised. P=Preliminary.

Notes: • Data in this table do not include recent updates for the United States (see Table 1.2) or for

other countries (see the Energy Information Administration's "International Energy Annual 2006"). • See Note 1, "World Primary Energy Production," at end of section. • Totals may not equal sum of components due to independent rounding.

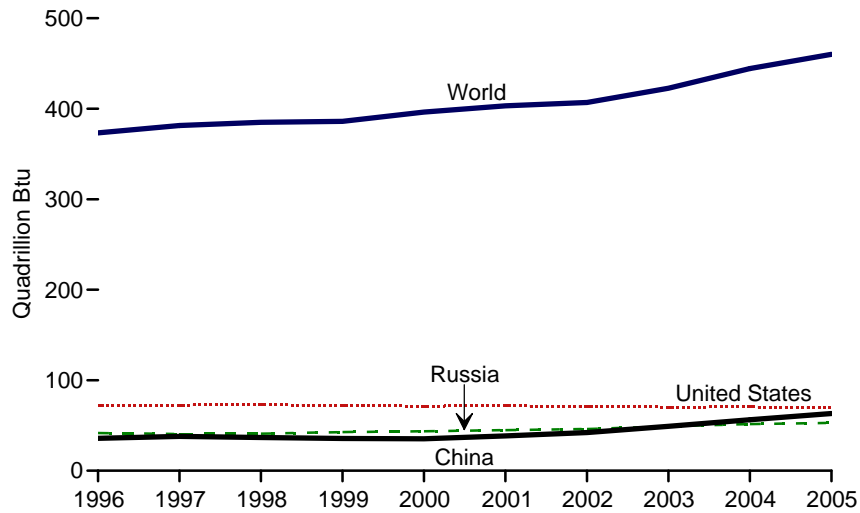
Web Page: For related information, see <http://www.eia.doe.gov/international>.

Sources: • 1970-1979—Energy Information Administration (EIA), International Energy Database.

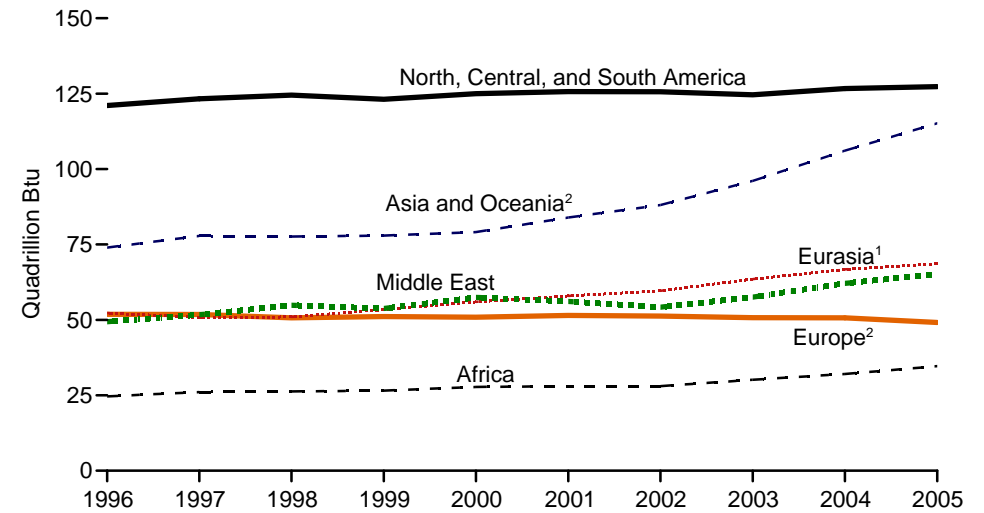
• 1980 forward—EIA, "International Energy Annual 2005" (June-October 2007), Tables F1-F9.

**Figure 11.2 World Primary Energy Production by Region and Country**

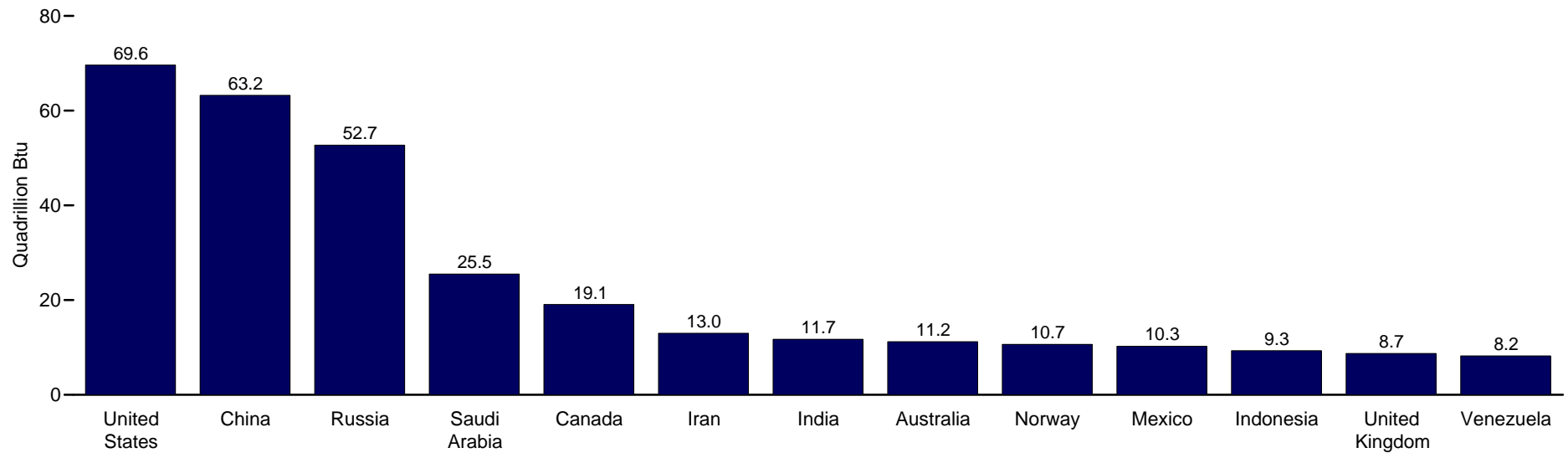
**World and Top Producing Countries, 1996-2005**



**World Areas, 1996-2005**



**Top Producing Countries, 2005**



<sup>1</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>2</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 11.2.

**Table 11.2 World Primary Energy Production by Region, 1996-2005**  
(Quadrillion Btu)

Region and Country	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005 P
<b>North, Central, and South America</b>	<b>R121.08</b>	<b>R123.27</b>	<b>R124.52</b>	<b>R123.12</b>	<b>R125.00</b>	<b>R125.67</b>	<b>R125.65</b>	<b>R124.62</b>	<b>R126.70</b>	<b>127.35</b>
Brazil	R4.83	R5.06	R5.48	R5.91	R6.40	R6.20	R6.75	R7.10	R7.19	7.71
Canada	17.22	17.48	17.43	17.68	18.12	R18.25	R18.57	R18.50	R18.87	19.09
Mexico	8.75	9.06	9.31	9.06	9.34	9.54	10.81	10.08	R10.28	10.26
United States	R72.64	R72.63	R73.04	R71.91	R71.49	R71.89	R70.94	R70.27	R70.39	69.64
Venezuela	8.62	9.48	9.45	8.54	9.37	9.23	8.16	7.32	R8.06	8.23
Other	9.02	9.56	9.82	10.04	R10.27	R10.57	R10.43	R11.35	R11.90	12.42
<b>Europe</b> <sup>1</sup>	<b>R51.86</b>	<b>R51.77</b>	<b>R50.70</b>	<b>R51.09</b>	<b>R50.89</b>	<b>R51.49</b>	<b>R51.27</b>	<b>R50.74</b>	<b>R50.70</b>	<b>49.13</b>
France	R5.03	R4.92	R4.78	R4.92	R5.02	R5.14	R5.13	R5.15	R5.17	5.10
Germany	5.49	5.57	5.26	5.31	5.32	5.28	5.30	R5.29	R5.41	5.30
Netherlands	3.25	2.88	2.77	2.56	2.47	2.63	R2.62	2.53	2.94	2.71
Norway	9.26	9.59	9.33	9.53	10.27	10.28	10.69	10.64	R10.75	10.66
Poland	3.83	R3.83	3.36	R3.50	3.06	3.08	R3.08	R3.08	R3.06	2.98
United Kingdom	11.56	11.33	11.53	11.89	11.09	11.14	10.99	R10.62	R9.55	8.73
Other	R13.44	R13.65	R13.68	R13.38	R13.66	R13.94	R13.47	R13.43	R13.83	13.65
<b>Eurasia</b> <sup>2</sup>	<b>R52.27</b>	<b>R50.79</b>	<b>R51.02</b>	<b>R53.45</b>	<b>R56.00</b>	<b>R57.94</b>	<b>R59.67</b>	<b>R63.53</b>	<b>R66.76</b>	<b>68.60</b>
Kazakhstan	R2.41	R2.47	R2.43	R2.63	R3.32	R3.69	R3.98	R4.41	R5.08	5.48
Russia	R41.68	R40.63	R40.95	R42.64	R43.60	R44.77	R46.13	R49.11	R51.60	52.72
Ukraine	R3.03	3.01	R3.03	R3.08	R3.07	3.08	R3.07	R3.22	R3.22	3.21
Other	5.14	4.68	4.61	5.10	6.01	6.41	6.49	6.80	R6.86	7.20
<b>Middle East</b>	<b>49.43</b>	<b>51.72</b>	<b>54.88</b>	<b>53.80</b>	<b>57.48</b>	<b>56.16</b>	<b>R54.24</b>	<b>R57.58</b>	<b>R62.15</b>	<b>65.22</b>
Iran	9.65	9.84	9.90	10.00	10.40	10.67	10.45	11.36	R12.06	13.01
Iraq	1.39	2.60	4.71	5.47	5.62	5.22	4.42	2.84	4.38	4.11
Kuwait	4.94	4.85	5.02	4.60	5.04	4.81	4.58	5.14	5.71	6.12
Saudi Arabia	20.82	21.24	21.42	20.18	21.59	20.95	20.27	23.05	24.16	25.51
United Arab Emirates	6.34	6.50	6.61	6.25	6.77	6.59	6.50	7.13	7.42	7.59
Other	6.30	6.69	7.24	7.29	8.06	R7.92	R8.02	R8.05	R8.42	8.89
<b>Africa</b>	<b>R24.64</b>	<b>R26.09</b>	<b>R26.27</b>	<b>R26.57</b>	<b>R27.78</b>	<b>R28.01</b>	<b>R28.04</b>	<b>R30.15</b>	<b>R32.05</b>	<b>34.66</b>
Algeria	5.28	5.63	5.75	6.03	6.29	6.26	6.30	7.00	7.14	7.70
Libya	3.28	3.39	3.26	3.07	3.30	3.21	3.11	3.30	3.61	4.00
Nigeria	4.56	4.85	4.90	4.89	5.18	5.45	5.16	5.71	5.90	6.55
South Africa	4.86	5.44	5.52	5.43	5.58	5.62	5.52	5.91	6.06	6.05
Other	R6.66	R6.79	R6.83	R7.15	R7.44	R7.47	R7.94	R8.22	R9.33	10.37
<b>Asia and Oceania</b> <sup>1</sup>	<b>R73.97</b>	<b>R77.84</b>	<b>R77.64</b>	<b>R77.96</b>	<b>R79.11</b>	<b>R83.92</b>	<b>R88.07</b>	<b>R96.08</b>	<b>R106.10</b>	<b>115.16</b>
Australia	R7.59	R8.32	R8.67	R8.86	9.68	R10.26	10.51	10.35	10.56	11.23
China	R35.78	R37.97	R36.67	R35.71	R35.34	R38.48	R42.22	R49.02	R56.38	63.23
India	8.75	9.17	9.37	9.58	9.83	10.29	R10.04	R10.60	R11.24	11.73
Indonesia	7.42	7.41	7.56	8.02	7.87	8.09	8.32	8.55	R8.93	9.32
Japan	4.23	4.48	R4.59	R4.37	4.41	4.38	R4.07	R3.68	R4.16	4.10
Malaysia	2.84	3.01	3.14	3.16	3.21	3.31	3.44	3.84	R4.09	3.90
Other	R7.36	7.48	R7.65	R8.26	R8.78	R9.10	R9.49	R10.06	R10.74	11.66
<b>World</b>	<b>R373.24</b>	<b>R381.49</b>	<b>R385.03</b>	<b>R385.99</b>	<b>R396.26</b>	<b>R403.19</b>	<b>R406.94</b>	<b>R422.69</b>	<b>R444.45</b>	<b>460.14</b>

<sup>1</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>2</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

R=Revised. P=Preliminary.

Notes: • Data in this table do not include recent updates for the United States (see Table 1.2) or for other countries (see the Energy Information Administration's "International Energy Annual 2006"). • See Note 1, "World Primary Energy Production," at end of section. • World primary energy production includes production of crude oil (including lease condensate), natural gas plant liquids, dry natural gas, and coal;

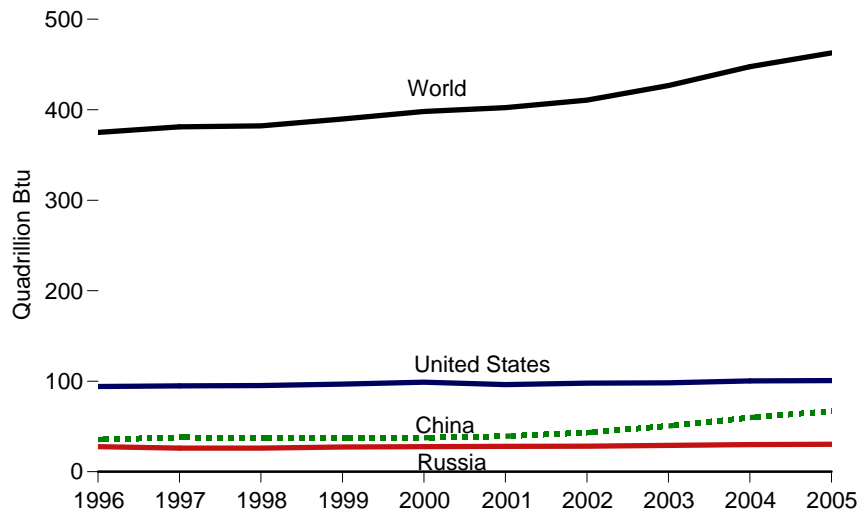
and net electricity generation from nuclear electric power, hydroelectric power, wood, waste, geothermal, solar, and wind. Data for the United States also include other renewable energy. • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

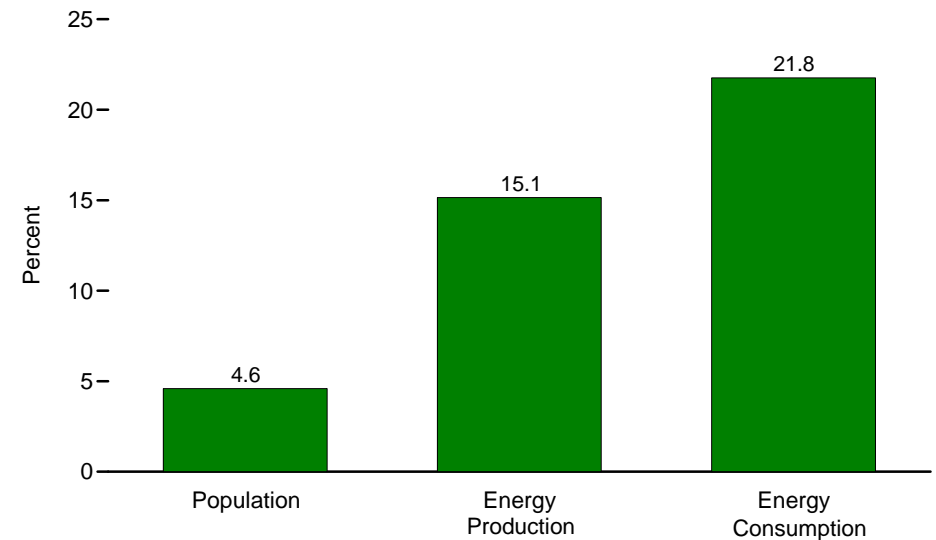
Source: Energy Information Administration, "International Energy Annual 2005" (June-October 2007), Table F1.

# Figure 11.3 World Primary Energy Consumption

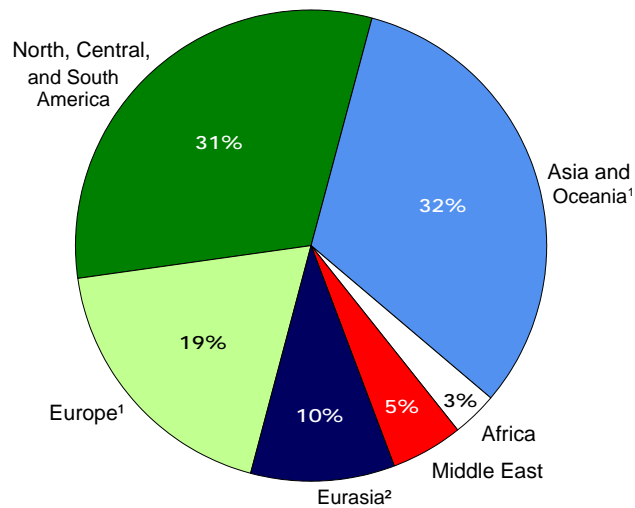
## World and Top Consuming Countries, 1996-2005



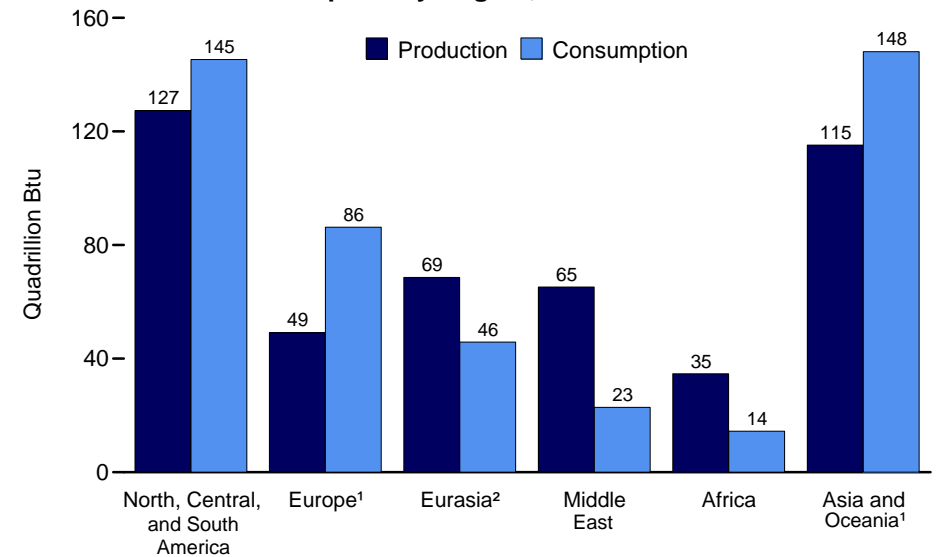
## U.S. Share of World, 2005



## Regional Consumption Shares, 2005



## Production and Consumption by Region, 2005



<sup>1</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>2</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

Note: Because vertical scales differ, graphs should not be compared.

Sources: Tables 11.2, 11.3, and D1.

**Table 11.3 World Primary Energy Consumption by Region, 1996-2005**  
(Quadrillion Btu)

Region and Country	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005 <sup>P</sup>
<b>North, Central, and South America</b>	<b>R130.77</b>	<b>R132.56</b>	<b>R133.63</b>	<b>R136.10</b>	<b>R139.10</b>	<b>R136.75</b>	<b>R138.66</b>	<b>R140.09</b>	<b>R143.42</b>	<b>145.30</b>
Argentina	2.39	R2.47	R2.58	R2.61	R2.67	2.61	2.47	R2.67	R2.78	2.93
Brazil	R7.45	R7.86	R8.11	8.29	R8.57	R8.49	8.60	8.71	R9.04	9.33
Canada	R12.54	R12.66	R12.36	R12.94	R12.93	R12.97	R13.33	R13.74	R14.03	14.31
Mexico	5.53	5.68	5.96	6.04	6.32	6.26	R6.30	R6.48	R6.53	6.88
United States	R94.17	R94.77	R95.18	R96.82	98.98	R96.33	R97.86	R98.21	R100.35	100.69
Venezuela	R2.58	2.66	2.85	2.73	2.77	3.03	2.93	2.72	R2.93	3.14
Other	R6.10	R6.47	6.59	6.68	R6.87	R7.06	R7.17	R7.57	R7.76	8.02
<b>Europe<sup>1</sup></b>	<b>R79.48</b>	<b>R79.74</b>	<b>R80.32</b>	<b>R80.36</b>	<b>R81.42</b>	<b>R82.68</b>	<b>R82.41</b>	<b>R84.23</b>	<b>R85.78</b>	<b>86.29</b>
Belgium	2.53	2.60	2.65	2.60	2.69	2.67	2.64	2.72	R2.70	2.58
France	R10.42	R10.36	R10.58	R10.71	R10.85	R11.08	R11.00	11.12	R11.39	11.43
Germany	14.40	R14.36	R14.34	R14.13	14.26	14.62	R14.33	R14.60	R14.79	14.51
Italy	7.11	7.22	R7.43	7.56	7.63	7.68	7.70	7.98	R8.05	8.07
Netherlands	3.73	3.70	R3.70	R3.69	3.79	3.93	3.94	4.00	R4.11	4.24
Poland	R4.14	R4.08	R3.85	R3.98	R3.62	R3.45	R3.44	R3.60	R3.70	3.66
Spain	R4.48	R4.76	R4.99	R5.26	R5.62	R5.87	R5.95	R6.26	R6.47	6.59
Sweden	R2.20	2.25	R2.33	2.28	2.20	2.35	2.22	2.15	R2.28	2.34
Turkey	2.75	2.93	3.00	2.91	3.16	2.89	3.15	R3.32	R3.51	3.74
United Kingdom	10.05	R9.75	R9.75	R9.77	R9.71	9.82	R9.70	R9.90	R9.98	10.01
Other	R17.67	R17.74	R17.72	R17.48	R17.87	R18.30	R18.34	R18.58	R18.78	19.12
<b>Eurasia<sup>2</sup></b>	<b>R41.53</b>	<b>R39.24</b>	<b>R38.97</b>	<b>R40.06</b>	<b>R40.79</b>	<b>R41.20</b>	<b>R41.81</b>	<b>R43.60</b>	<b>R44.77</b>	<b>45.82</b>
Russia	R27.71	R26.04	R26.16	R27.25	R27.71	R27.97	R28.18	R29.05	R29.94	30.29
Ukraine	6.34	6.07	R5.85	5.76	5.75	R5.64	R5.82	R6.28	R6.26	6.21
Uzbekistan	R1.88	R1.88	1.84	R1.86	1.94	2.03	R2.08	R2.10	R2.22	2.16
Other	5.60	5.26	R5.11	R5.19	R5.39	R5.56	R5.72	R6.17	R6.36	7.16
<b>Middle East</b>	<b>R14.57</b>	<b>R15.61</b>	<b>R16.27</b>	<b>R16.62</b>	<b>17.32</b>	<b>R17.95</b>	<b>R18.98</b>	<b>R19.76</b>	<b>R20.89</b>	<b>22.85</b>
Iran	R3.96	4.43	4.58	4.83	5.01	R5.39	R5.89	R6.18	R6.39	7.26
Saudi Arabia	4.10	R4.37	4.54	R4.60	R4.85	R5.14	R5.38	R5.76	R6.21	6.66
Other	R6.50	R6.81	R7.15	R7.18	R7.46	R7.42	R7.71	R7.82	R8.29	8.94
<b>Africa</b>	<b>R10.93</b>	<b>R11.40</b>	<b>R11.29</b>	<b>R11.61</b>	<b>R12.02</b>	<b>12.59</b>	<b>R12.72</b>	<b>R13.31</b>	<b>R13.96</b>	<b>14.43</b>
Egypt	R1.73	1.79	1.85	R1.92	R2.00	R2.22	2.27	R2.43	R2.59	2.75
South Africa	R4.17	R4.56	4.35	R4.46	R4.59	R4.66	R4.54	R4.88	R5.21	5.04
Other	R5.04	5.05	R5.09	R5.23	R5.43	R5.71	R5.90	R5.99	R6.16	6.64
<b>Asia and Oceania<sup>1</sup></b>	<b>R97.66</b>	<b>R102.54</b>	<b>R101.65</b>	<b>R105.04</b>	<b>R107.48</b>	<b>R111.12</b>	<b>R116.14</b>	<b>R125.65</b>	<b>R138.78</b>	<b>148.10</b>
Australia	4.22	4.56	R4.59	4.82	R4.85	R5.02	R5.13	R5.13	R5.20	5.49
China	R35.66	R37.91	R37.32	R37.23	R37.49	R39.38	R43.28	R50.72	R59.91	67.09
India	R11.04	R11.64	R12.17	R12.99	R13.46	R13.94	R13.84	R14.29	R15.52	16.20
Indonesia	3.52	R3.66	3.56	R3.91	R4.06	4.46	R4.64	4.70	R5.12	5.36
Japan	R21.08	R21.60	R21.24	R21.76	R22.28	R22.10	R21.91	R22.04	R22.72	22.57
Malaysia	1.64	1.67	1.69	1.74	1.87	2.11	R2.18	R2.42	R2.66	2.55
South Korea	R6.80	R7.41	R6.83	7.55	R7.89	R8.10	8.42	R8.72	R8.98	9.28
Taiwan	3.06	R3.21	R3.40	R3.55	3.77	R3.86	R4.02	R4.21	R4.36	4.50
Thailand	2.44	R2.60	R2.44	2.50	2.58	2.70	2.94	R3.22	R3.46	3.63
Other	R8.18	R8.31	R8.43	R8.99	R9.22	R9.45	R9.76	R10.18	R10.84	11.43
<b>World</b>	<b>R374.93</b>	<b>R381.10</b>	<b>R382.13</b>	<b>R389.79</b>	<b>R398.13</b>	<b>R402.29</b>	<b>R410.71</b>	<b>R426.64</b>	<b>R447.60</b>	<b>462.80</b>

<sup>1</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>2</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

R=Revised. P=Preliminary.

Notes: • Data in this table do not include recent updates for the United States (see Table 1.3) or for other countries (see the Energy Information Administration's "International Energy Annual 2006"). • World primary energy consumption includes consumption of petroleum products (including natural gas plant liquids, and crude oil burned as fuel), dry natural gas, and coal (including net imports of coal coke); and the

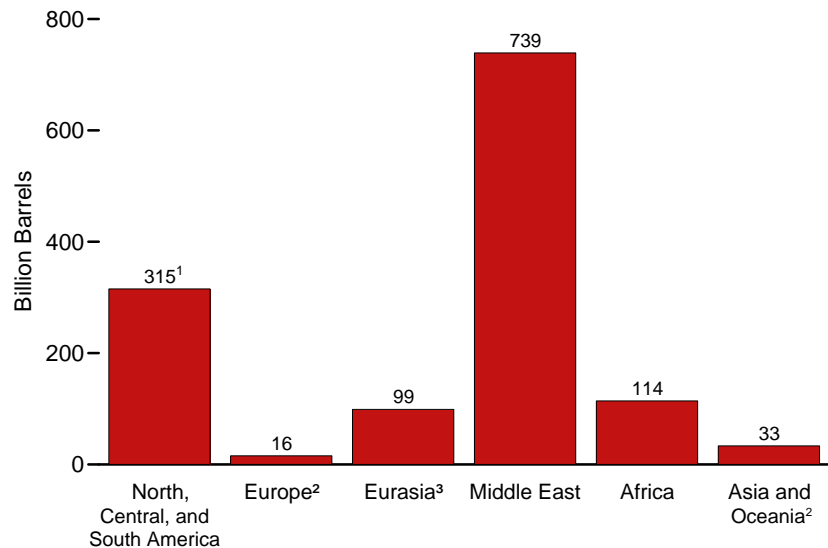
consumption of net electricity generated from nuclear electric power, hydroelectric power, wood, waste, geothermal, solar, and wind. It also includes, for the United States, the consumption of renewable energy by the end-use sectors. • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

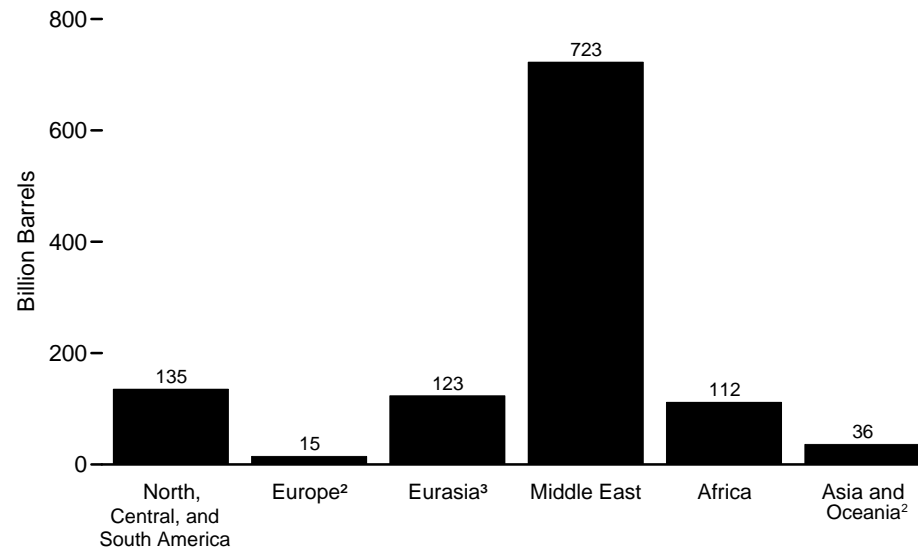
Source: Energy Information Administration, "International Energy Annual 2005" (June-October 2007), Table E1.

**Figure 11.4 World Crude Oil and Natural Gas Reserves, January 1, 2007**

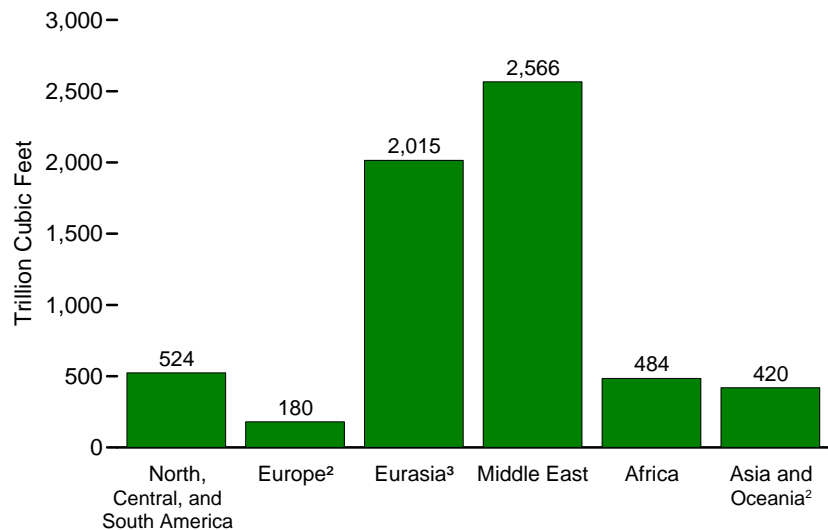
**Crude Oil Reserves: *Oil and Gas Journal***



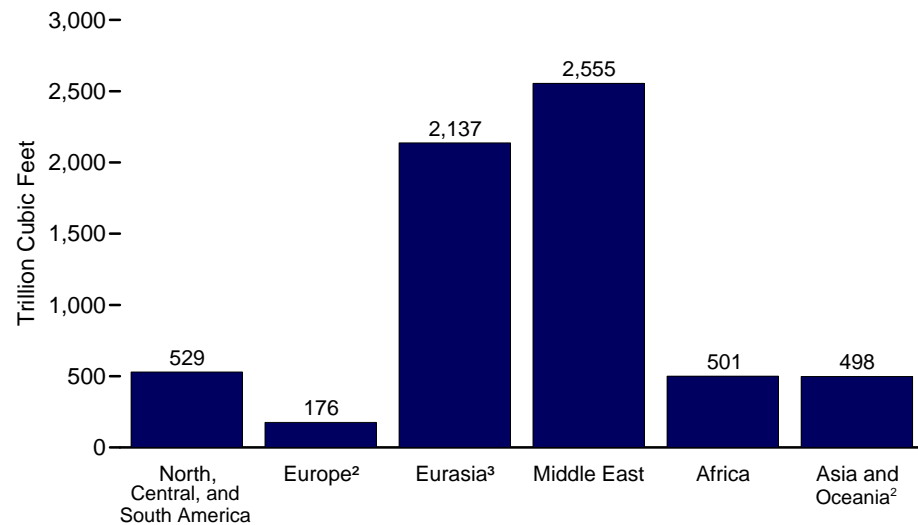
**Crude Oil Reserves: *World Oil***



**Natural Gas Reserves: *Oil and Gas Journal***



**Natural Gas Reserves: *World Oil***



<sup>1</sup> Includes 174.0 billion barrels of bitumen in oil sands in Alberta, Canada.

<sup>2</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>3</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary. Source: Table 11.4.



**Table 11.4 World Crude Oil and Natural Gas Reserves, January 1, 2007**

Region and Country	Crude Oil		Natural Gas		Region and Country	Crude Oil		Natural Gas	
	<i>Oil &amp; Gas Journal</i>	<i>World Oil</i>	<i>Oil &amp; Gas Journal</i>	<i>World Oil</i>		<i>Oil &amp; Gas Journal</i>	<i>World Oil</i>	<i>Oil &amp; Gas Journal</i>	<i>World Oil</i>
	Billion Barrels		Trillion Cubic Feet			Billion Barrels		Trillion Cubic Feet	
<b>North America</b> .....	<b>212.5</b>	<b>58.2</b>	<b>283.6</b>	<b>286.8</b>	<b>Middle East</b> .....	<b>739.2</b>	<b>722.5</b>	<b>2,566.0</b>	<b>2,555.1</b>
Canada .....	<sup>1</sup> 179.2	<sup>2</sup> 25.6	57.9	56.8	Bahrain .....	.1	NR	3.3	NR
Mexico .....	12.4	11.6	14.6	19.0	Iran .....	136.3	133.0	974.0	974.0
United States .....	21.0	21.0	211.1	211.1	Iraq .....	115.0	125.1	112.0	90.0
<b>Central and South America</b> .....	<b>102.8</b>	<b>77.1</b>	<b>240.7</b>	<b>242.2</b>	Kuwait <sup>6</sup> .....	101.5	100.1	55.0	56.2
Argentina .....	2.5	2.6	16.1	15.8	Oman .....	5.5	4.7	30.0	28.0
Bolivia .....	.4	.4	24.0	25.7	Qatar .....	15.2	20.4	910.5	905.5
Brazil .....	11.8	12.3	10.8	12.3	Saudi Arabia <sup>6</sup> .....	262.3	262.3	240.0	252.5
Chile .....	.2	(s)	3.5	1.0	Syria .....	2.5	2.9	8.5	12.8
Colombia .....	1.5	1.4	4.0	6.7	United Arab Emirates .....	97.8	70.6	214.4	205.6
Cuba .....	.1	.6	2.5	.6	Yemen .....	3.0	2.8	16.9	17.0
Ecuador .....	4.5	4.9	NA	.3	Other <sup>3</sup> .....	(s)	.7	1.5	13.6
Peru .....	.9	1.1	8.7	12.0	<b>Africa</b> .....	<b>114.1</b>	<b>111.7</b>	<b>484.4</b>	<b>500.7</b>
Trinidad and Tobago .....	.7	.6	18.8	16.7	Algeria .....	12.3	11.9	161.7	161.2
Venezuela .....	80.0	52.9	152.4	151.1	Angola .....	8.0	9.3	2.0	4.1
Other <sup>3</sup> .....	.2	.2	(s)	(s)	Cameroon .....	.4	NR	3.9	NR
<b>Europe</b> <sup>4</sup> .....	<b>15.8</b>	<b>14.5</b>	<b>180.3</b>	<b>175.7</b>	Congo (Brazzaville) .....	1.6	1.9	3.2	4.2
Austria .....	.1	.1	.6	.8	Egypt .....	3.7	3.6	58.5	67.4
Croatia .....	.1	.1	1.1	1.0	Equatorial Guinea .....	1.1	1.8	1.3	3.4
Denmark .....	1.3	1.2	2.5	2.9	Gabon .....	2.0	2.0	1.0	1.5
Germany .....	.4	.2	9.0	5.8	Libya .....	41.5	35.0	52.7	51.7
Hungary .....	(s)	.1	.3	2.0	Mozambique .....	.0	.0	4.5	.0
Italy .....	.6	.4	5.8	3.7	Nigeria .....	36.2	37.2	181.9	184.5
Netherlands .....	.1	.2	50.0	50.8	Sudan .....	5.0	6.6	3.0	4.0
Norway .....	7.8	7.1	82.3	81.3	Tunisia .....	.4	.6	2.3	3.4
Poland .....	.1	.3	5.8	4.9	Other <sup>3</sup> .....	1.9	1.7	8.4	15.3
Romania .....	.6	.5	2.2	4.5	<b>Asia and Oceania</b> <sup>4</sup> .....	<b>33.4</b>	<b>36.0</b>	<b>419.5</b>	<b>497.9</b>
Serbia .....	.1	NR	1.7	NR	Australia .....	1.6	4.3	30.4	153.0
United Kingdom .....	3.9	3.8	17.0	15.7	Bangladesh .....	(s)	NR	5.0	NR
Other <sup>3</sup> .....	.8	.7	2.0	2.2	Brunei .....	1.1	1.2	13.8	11.5
<b>Eurasia</b> <sup>5</sup> .....	<b>98.9</b>	<b>123.4</b>	<b>2,014.8</b>	<b>2,136.7</b>	Burma .....	.1	.2	10.0	16.0
Azerbaijan .....	7.0	NR	30.0	NR	China .....	16.0	16.3	80.0	60.9
Kazakhstan .....	30.0	NR	100.0	NR	India .....	5.6	3.8	38.0	27.2
Russia .....	60.0	74.4	1,680.0	1,688.8	Indonesia .....	4.3	4.8	97.8	93.0
Turkmenistan .....	.6	NR	100.0	NR	Japan .....	.1	NR	1.4	NR
Ukraine .....	.4	NR	39.0	NR	Malaysia .....	3.0	2.8	75.0	60.0
Uzbekistan .....	.6	NR	65.0	NR	New Zealand .....	.1	.1	.9	1.8
Other <sup>3</sup> .....	.3	48.9	.8	447.9	Pakistan .....	.3	.3	28.0	30.5
					Papua New Guinea .....	.2	.2	12.2	13.7
					Thailand .....	.3	.5	14.8	11.7
					Vietnam .....	.6	1.3	6.8	8.3
					Other <sup>3</sup> .....	.1	.2	5.5	10.4
					<b>World</b> .....	<b>1,316.7</b>	<b>1,143.4</b>	<b>6,189.4</b>	<b>6,395.0</b>

<sup>1</sup> Comprises 5.2 billion barrels of conventional crude oil and condensate and 174.0 billion barrels of bitumen in Alberta's oil sands.

<sup>2</sup> Includes 20.7 billion barrels of oil sands and bitumen. Excludes another 153 billion barrels claimed by Canadian authorities.

<sup>3</sup> Includes data for those countries not separately reported.

<sup>4</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>5</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>6</sup> Data for Kuwait and Saudi Arabia include one-half of the reserves in the Neutral Zone between Kuwait and Saudi Arabia.

NA=Not available. NR=Not separately reported. (s)=Less than 0.05 billion barrels.

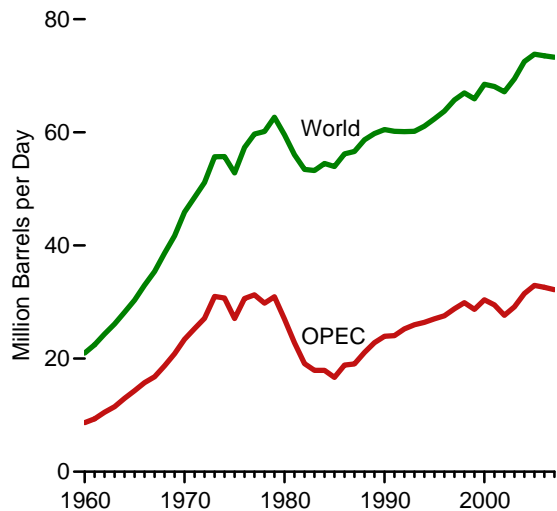
Notes: • All reserve figures except those for Eurasia and natural gas reserves in Canada are proved reserves recoverable with present technology and prices at the time of estimation. Eurasia and Canadian natural gas figures include proved and some probable reserves. • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international/oilreserves.html>.

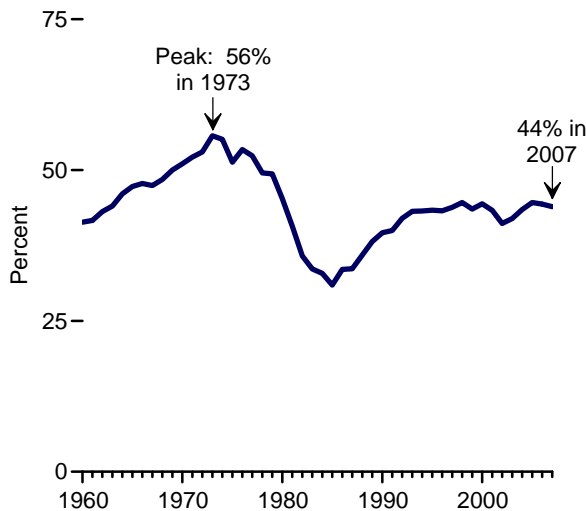
Source: Energy Information Administration, "International Energy Annual 2006" (June-July 2008), Table 8.1.

# Figure 11.5 World Crude Oil Production

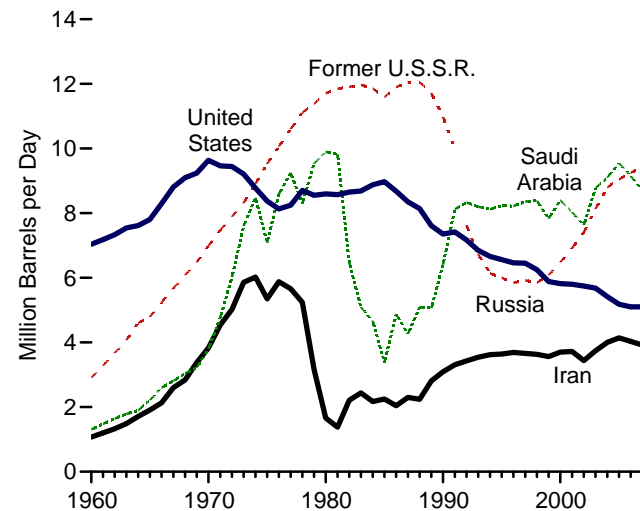
World and OPEC, 1960-2007



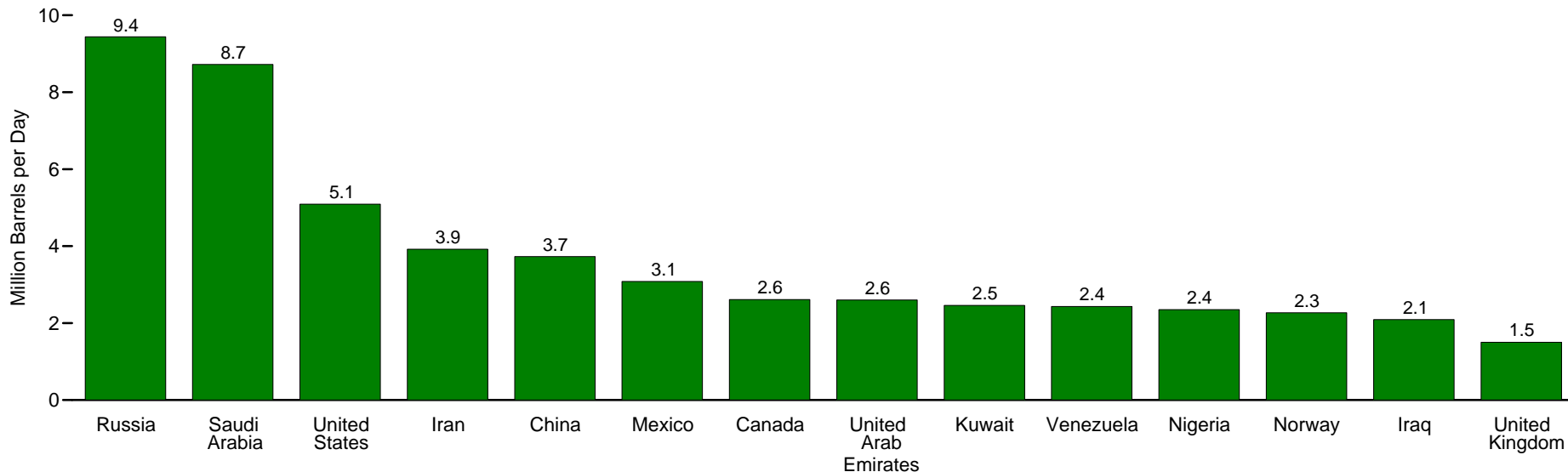
OPEC's Share of World, 1960-2007



Top Producing Countries, 1960-2007



Top Producing Countries, 2007



Notes: • OPEC=Organization of the Petroleum Exporting Countries. • Because vertical scales differ, graphs should not be compared.

Source: Table 11.5.

**Table 11.5 World Crude Oil Production, 1960-2007**  
(Million Barrels per Day)

Year	Persian Gulf Nations <sup>2</sup>	Selected OPEC <sup>1</sup> Producers								Selected Non-OPEC <sup>1</sup> Producers								World	
		Iran	Iraq	Kuwait <sup>3</sup>	Nigeria	Saudi Arabia <sup>3</sup>	United Arab Emirates	Venezuela	Total OPEC <sup>4</sup>	Canada	China	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States		Total Non-OPEC <sup>4</sup>
1960	5.27	1.07	0.97	1.69	0.02	1.31	0.00	2.85	R8.68	0.52	0.10	0.27	0.00	2.91	--	(s)	7.04	R12.31	20.99
1961	5.65	1.20	1.01	1.74	.05	1.48	.00	2.92	R9.35	.61	.11	.29	.00	3.28	--	(s)	7.18	R13.10	22.45
1962	6.19	1.33	1.01	1.96	.07	1.64	.01	3.20	R10.50	.67	.12	.31	.00	3.67	--	(s)	7.33	R13.85	24.35
1963	6.82	1.49	1.16	2.10	.08	1.79	.05	3.25	R11.51	.71	.13	.31	.00	4.07	--	(s)	7.54	R14.62	26.13
1964	7.61	1.71	1.26	2.30	.12	1.90	.19	3.39	R12.98	.75	.18	.32	.00	4.60	--	(s)	7.61	R15.20	28.18
1965	8.37	1.91	1.32	2.36	.27	2.21	.28	3.47	R14.34	.81	.23	.32	.00	4.79	--	(s)	7.80	R15.99	30.33
1966	9.32	2.13	1.39	2.48	.42	2.60	.36	3.37	R15.75	.88	.29	.33	.00	5.23	--	(s)	8.30	R17.20	32.96
1967	9.91	2.60	1.23	2.50	.32	2.81	.38	3.54	R16.79	.96	.28	.36	.00	5.68	--	(s)	8.81	R18.60	35.39
1968	10.91	2.84	1.50	2.61	.14	3.04	.50	3.60	R18.71	1.19	.30	.39	.00	6.08	--	(s)	9.10	R19.93	38.63
1969	11.95	3.38	1.52	2.77	.54	3.22	.63	3.59	R20.85	1.13	.48	.46	.00	6.48	--	(s)	9.24	R20.84	41.70
1970	13.39	3.83	1.55	2.99	1.08	3.80	.78	3.71	R23.42	1.26	.60	.49	.00	6.99	--	(s)	9.64	R22.47	45.89
1971	15.77	4.54	1.69	3.20	1.53	4.77	1.06	3.55	R25.31	1.35	.78	.49	.01	7.48	--	(s)	9.46	R23.21	48.52
1972	17.54	5.02	1.47	3.28	1.82	6.02	1.20	3.22	R27.11	1.53	.90	.51	.03	7.89	--	(s)	9.44	R24.03	51.14
1973	20.67	5.86	2.02	3.02	2.05	7.60	1.53	3.37	R31.00	1.80	1.09	.47	.03	8.32	--	(s)	9.21	R24.68	55.68
1974	21.28	6.02	1.97	2.55	2.26	8.48	1.68	2.98	R30.70	1.55	1.32	.57	.04	8.91	--	(s)	8.77	R25.02	55.72
1975	18.93	5.35	2.26	2.08	1.78	7.08	1.66	2.35	R27.10	1.43	1.49	.71	.19	9.52	--	.01	8.37	R25.73	52.83
1976	21.51	5.88	2.42	2.15	2.07	8.58	1.94	2.29	R30.62	1.31	1.67	.83	.28	10.06	--	.25	8.13	R26.72	57.34
1977	21.73	5.66	2.35	1.97	2.09	9.25	2.00	2.24	R31.27	1.32	1.87	.98	.28	10.60	--	.77	8.24	R28.44	59.71
1978	20.61	5.24	2.56	2.13	1.90	8.30	1.83	2.17	R29.80	1.32	2.08	1.21	.36	11.11	--	1.08	8.71	R30.36	60.16
1979	21.07	3.17	3.48	2.50	2.30	9.53	1.83	2.36	R30.94	1.50	2.12	1.46	.40	11.38	--	1.57	8.55	R31.73	62.67
1980	17.96	1.66	2.51	1.66	2.06	9.90	1.71	2.17	R26.96	1.44	2.11	1.94	.49	11.71	--	1.62	8.60	R32.60	59.56
1981	15.25	1.38	1.00	1.13	1.43	9.82	1.47	2.10	R22.82	1.29	2.01	2.31	.47	11.85	--	1.81	8.57	R33.23	56.05
1982	12.16	2.21	1.01	.82	1.30	6.48	1.25	1.90	R19.11	1.27	2.05	2.75	.49	11.91	--	2.07	8.65	R34.34	53.45
1983	11.08	2.44	1.01	1.06	1.24	5.09	1.15	1.80	R17.91	1.36	2.12	2.69	.61	11.97	--	2.29	8.69	R35.35	53.26
1984	10.78	2.17	1.21	1.16	1.39	4.66	1.15	1.80	R17.91	1.44	2.30	2.78	.71	11.86	--	2.48	8.88	R36.59	54.50
1985	9.63	2.25	1.43	1.02	1.50	3.39	1.19	1.68	R16.69	1.47	2.51	2.75	.77	11.59	--	2.53	8.97	R37.27	53.97
1986	11.70	2.04	1.69	1.42	1.47	4.87	1.33	1.79	R18.85	1.47	2.62	2.44	.84	11.90	--	2.54	8.68	R37.35	56.20
1987	12.10	2.30	2.08	1.59	1.34	4.27	1.54	1.75	R19.05	1.54	2.69	2.55	.98	12.05	--	2.41	8.35	R37.58	56.63
1988	13.46	2.24	2.69	1.49	1.45	5.09	1.57	1.90	R21.08	1.62	2.73	2.51	1.11	12.05	--	2.23	8.14	R37.61	58.69
1989	14.84	2.81	2.90	1.78	1.72	5.06	1.86	1.91	R22.81	1.56	2.76	2.52	1.48	11.72	--	1.80	7.61	R36.99	59.79
1990	15.28	3.09	2.04	1.18	1.81	6.41	2.12	2.14	R23.96	1.55	2.77	2.55	1.63	10.98	--	1.82	7.36	R36.54	60.49
1991	14.74	3.31	.31	.19	1.89	8.12	2.39	2.38	R24.07	1.55	2.84	2.68	1.87	9.99	--	1.80	7.42	R36.11	60.19
1992	15.97	3.43	.43	1.06	1.94	8.33	2.27	2.37	R25.25	1.61	2.85	2.67	2.13	--	7.63	1.83	7.17	R34.87	60.12
1993	16.71	3.54	.51	1.85	1.96	8.20	2.16	2.45	R25.97	1.68	2.89	2.67	2.28	--	6.73	1.92	6.85	R34.20	60.17
1994	16.96	3.62	.55	2.03	1.93	8.12	2.19	2.59	R26.41	1.75	2.94	2.69	2.57	--	6.14	2.37	6.66	R34.69	R61.10
1995	17.21	3.64	.56	2.06	1.99	8.23	2.23	2.75	R27.04	1.81	2.99	2.62	2.77	--	6.00	2.49	6.56	R35.34	R62.38
1996	17.37	3.69	.58	2.06	2.00	8.22	2.28	2.94	R27.57	1.84	3.13	2.86	3.09	--	5.85	2.57	6.46	R36.19	R63.75
1997	18.10	3.66	1.16	2.01	2.13	8.36	2.32	3.28	R28.81	1.92	3.20	3.02	3.14	--	5.92	2.52	6.45	R36.93	R65.74
1998	19.34	3.63	2.15	2.09	2.15	8.39	2.35	3.17	R29.88	1.98	3.20	3.07	3.01	--	5.85	2.62	6.25	R37.08	R66.97
1999	18.67	3.56	2.51	1.90	2.13	7.83	2.17	2.83	R28.70	1.91	3.20	2.91	3.02	--	6.08	2.68	5.88	R37.23	R65.92
2000	19.89	3.70	2.57	2.08	2.17	8.40	2.37	3.16	R30.41	1.98	3.25	3.01	3.22	--	6.48	2.28	5.82	R38.09	R68.49
2001	19.10	3.72	2.39	2.00	2.26	8.03	2.21	3.01	R29.50	2.03	3.30	3.13	3.23	--	6.92	2.28	5.80	R38.60	R68.10
2002	17.79	3.44	2.02	1.89	2.12	7.63	2.08	2.60	R27.64	2.17	3.39	3.18	3.13	--	7.41	2.29	5.75	R39.53	R67.17
2003	19.06	3.74	1.31	2.14	2.28	8.78	2.35	2.34	R29.14	2.31	3.41	3.37	3.04	--	8.13	2.09	5.68	R40.31	R69.45
2004	20.79	4.00	2.01	2.38	2.33	9.10	2.48	2.56	R31.50	2.40	3.49	3.38	2.95	--	8.80	1.85	5.42	R41.01	R72.51
2005	21.50	4.14	1.88	2.53	2.63	9.55	2.54	2.56	R32.94	2.37	3.61	3.33	2.70	--	9.04	1.65	5.18	R40.87	R73.81
2006	21.23	4.03	2.00	2.54	2.44	9.15	2.64	2.51	R32.61	2.53	R3.67	3.26	2.49	--	9.25	1.49	R5.10	R40.93	R73.54
2007 <sup>P</sup>	20.68	3.92	2.09	2.46	2.35	8.72	2.60	2.43	32.18	2.61	3.73	3.08	2.27	--	9.44	1.50	5.10	41.09	73.27

<sup>1</sup> See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, countries are classified as "OPEC" or "Non-OPEC" in all years based on their membership status in the most current year.

<sup>2</sup> Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

<sup>3</sup> Includes about one-half of the production in the Neutral Zone between Kuwait and Saudi Arabia.

<sup>4</sup> On this table, "Total OPEC" for all years includes Algeria, Angola, Ecuador, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, Venezuela, and the Neutral Zone (between Kuwait and Saudi Arabia). Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."

R=Revised. P=Preliminary. -- = Not applicable. (s)=Less than 0.005 million barrels per day.

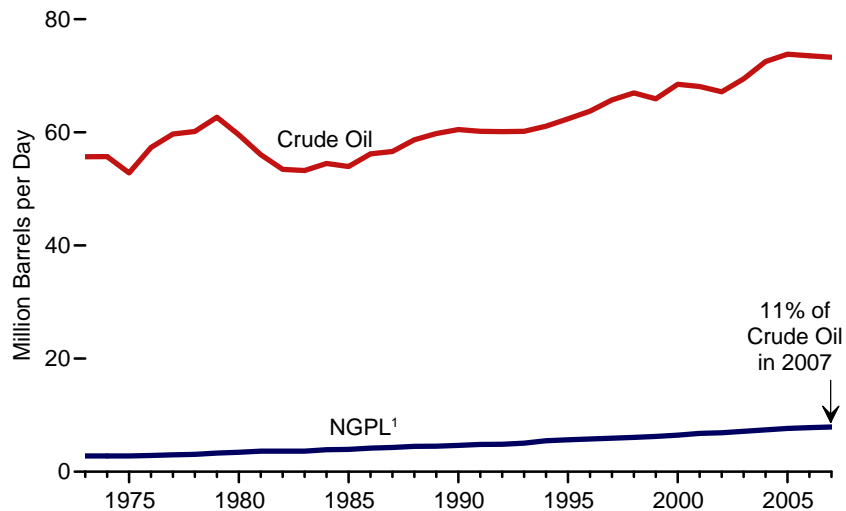
Notes: • Data are for crude oil, including extra heavy crude oil, lease condensate, and liquids processed from Canadian oil sands; they exclude natural gas plant liquids. • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

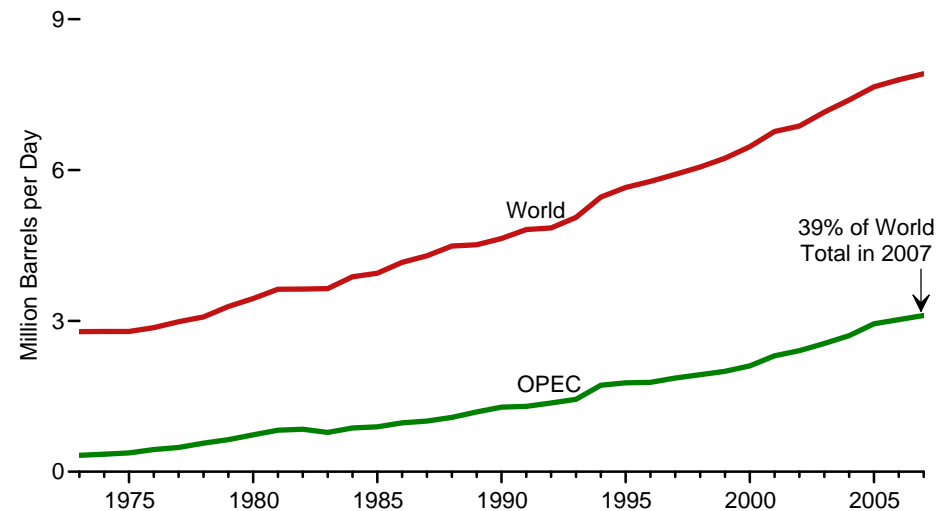
Sources: **Selected OPEC Producers:** • 1960-1972—OPEC, *Annual Statistical Bulletin 1979*. • 1973-1979—Energy Information Administration (EIA), *International Energy Annual (IEA)*, annual reports, and the International Energy Database. • 1980-2006—EIA, International Energy Database, April 24, 2008. • 2007—EIA, *Monthly Energy Review (MER)* (April 2008), Table 11.1a. **China:** • 1960-1972—Central Intelligence Agency, unpublished data. • 1973-1979—EIA, *IEA*, annual reports, and the International Energy Database. • 1980-2006—EIA, International Energy Database, April 24, 2008. • 2007—EIA, *MER* (April 2008), Table 11.1b. **Former U.S.S.R.:** • 1960-1969—U.S.S.R. Central Statistical Office, *Narodnoye Khozyaystvo SSSR* (National Economy USSR). • 1970-1979—EIA, *International Petroleum Monthly*, February 2001, Table 4.1c. • 1980-1991—EIA, International Energy Database, April 24, 2008. **Russia:** • 1992-2006—EIA, International Energy Database, April 24, 2008. • 2007—EIA, *MER* (April 2008), Table 11.1b. **United States:** Table 5.1. **All Other Data:** • 1960-1969—Bureau of Mines, *International Petroleum Annual*, 1969. • 1970-1972—EIA, *International Petroleum Annual*, 1978. • 1973-1979—EIA, *IEA*, annual reports, and the International Energy Database. • 1980-2006—EIA, International Energy Database, April 24, 2008. • 2007—EIA, *MER* (April 2008), Tables 11.1a and 11.1b.

## Figure 11.6 World Natural Gas Plant Liquids Production

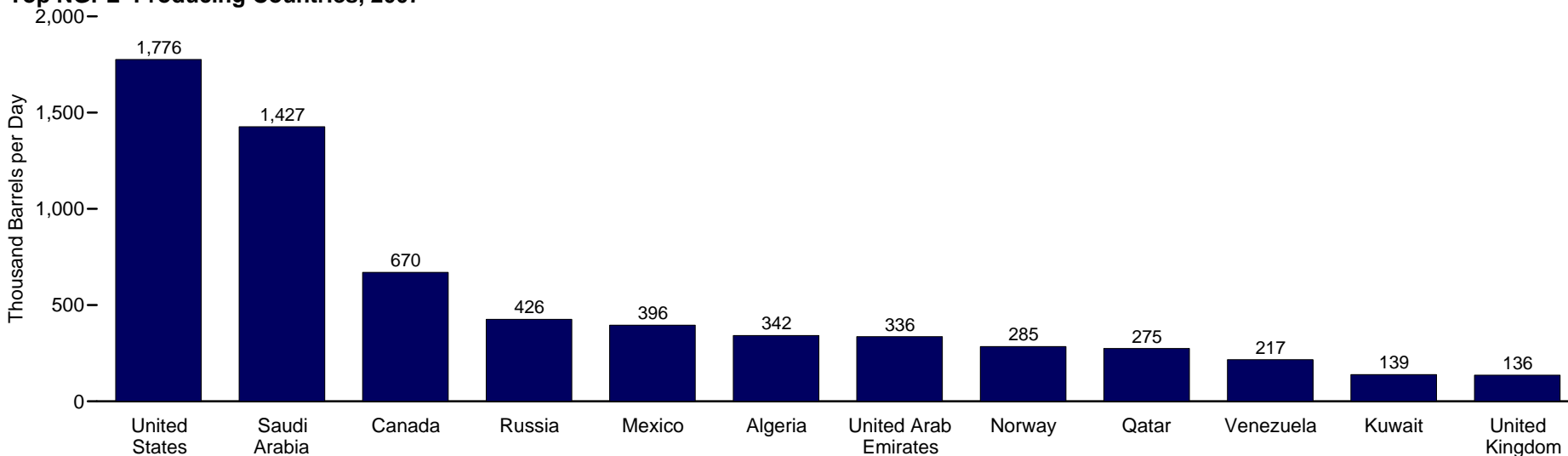
### Crude Oil and NGPL<sup>1</sup> Production, 1973-2007



### World and OPEC NGPL<sup>1</sup> Production, 1973-2007



### Top NGPL<sup>1</sup> Producing Countries, 2007



<sup>1</sup> Natural gas plant liquids.

Sources: Tables 11.5 and 11.6.

Notes: • Crude oil includes lease condensate. • OPEC=Organization of the Petroleum Exporting Countries. • Because vertical scales differ, graphs should not be compared.

**Table 11.6 World Natural Gas Plant Liquids Production, 1973-2007**  
(Thousand Barrels per Day)

Year	Selected OPEC <sup>1</sup> Producers									Selected Non-OPEC <sup>1</sup> Producers										World
	Algeria	Indonesia	Iran	Kuwait <sup>2</sup>	Qatar	Saudi Arabia <sup>2</sup>	United Arab Emirates	Venezuela	Total OPEC <sup>3</sup>	Australia	Canada	Malaysia	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States	Total Non-OPEC <sup>3</sup>	
1973	9	(s)	40	60	(s)	90	(s)	89	R325	50	314	0	75	(s)	170	--	5	1,738	R2,461	2,786
1974	12	(s)	45	50	5	130	(s)	84	347	50	314	0	80	(s)	190	--	5	1,688	R2,442	2,790
1975	20	(s)	45	50	10	140	(s)	76	R373	50	309	0	80	5	205	--	15	1,633	2,419	2,791
1976	24	10	45	50	10	185	(s)	77	442	50	289	0	95	20	220	--	15	1,604	2,425	2,867
1977	19	10	40	55	5	215	15	78	482	55	290	0	105	20	235	--	30	1,618	R2,501	2,984
1978	25	30	45	75	5	250	30	61	R568	60	281	0	115	35	255	--	40	1,567	R2,512	3,080
1979	30	40	10	95	10	303	30	69	R639	60	331	0	150	40	270	--	45	1,584	R2,648	3,287
1980	36	70	9	95	10	369	35	60	R734	60	331	0	193	42	285	--	45	1,573	R2,712	3,446
1981	49	95	9	60	24	433	60	55	R827	60	330	0	241	37	300	--	50	1,609	R2,804	3,631
1982	58	80	9	40	30	430	90	60	R844	52	318	0	255	39	315	--	78	1,550	R2,788	3,632
1983	56	94	8	55	25	330	120	57	R782	52	309	0	265	46	330	--	111	1,559	R2,861	3,643
1984	105	75	10	67	28	355	130	57	R871	54	336	10	257	45	340	--	136	1,630	R3,007	3,878
1985	120	44	10	54	30	375	160	63	R894	65	337	10	271	51	350	--	145	1,609	R3,054	3,948
1986	120	30	15	75	22	385	185	97	R971	60	328	9	352	66	440	--	152	1,551	R3,192	4,163
1987	140	30	20	95	24	418	145	94	R1,008	65	367	11	338	71	430	--	162	1,595	R3,287	4,295
1988	120	30	20	100	30	499	130	98	R1,079	67	381	11	370	83	450	--	159	1,625	R3,410	4,489
1989	130	72	27	105	24	503	130	108	R1,190	65	410	11	384	84	425	--	140	1,546	R3,323	4,513
1990	130	77	35	65	40	620	135	114	R1,283	63	426	12	428	86	425	--	108	1,559	R3,357	4,640
1991	140	76	50	0	50	680	146	117	R1,301	61	431	12	457	84	420	--	141	1,659	R3,517	4,818
1992	140	75	50	34	55	713	144	113	R1,367	56	460	13	454	85	--	230	1,697	R3,480	R4,848	
1993	145	78	55	53	55	704	146	143	R1,439	55	506	17	459	95	--	220	1,697	R3,618	R5,057	
1994	140	80	55	85	50	951	150	146	R1,721	56	529	17	461	123	--	200	218	1,727	R3,741	R5,462
1995	145	76	60	95	55	961	160	149	R1,769	52	581	20	447	137	--	180	267	1,762	R3,885	R5,654
1996	150	80	60	85	50	968	160	150	R1,776	62	596	20	423	141	--	185	259	1,830	R3,998	R5,774
1997	160	85	70	109	70	982	160	143	R1,862	71	636	50	388	139	--	195	233	1,817	R4,052	R5,914
1998	155	87	75	115	85	1,020	170	145	R1,931	70	651	90	424	127	--	220	241	1,759	R4,131	R6,062
1999	190	87	75	115	111	1,010	160	170	R1,997	72	653	85	439	120	--	231	238	1,850	R4,241	R6,237
2000	230	90	75	115	133	1,008	200	175	R2,104	70	699	65	438	124	--	232	233	1,911	R4,361	R6,466
2001	250	82	80	120	150	1,051	290	200	R2,307	74	709	70	433	188	--	237	258	1,868	R4,460	R6,766
2002	270	80	86	125	160	1,095	300	202	R2,406	80	698	75	408	203	--	246	211	1,880	R4,471	R6,877
2003	280	78	95	124	201	1,220	310	163	R2,551	79	724	80	418	222	--	390	241	1,719	R4,602	R7,152
2004	292	73	105	130	250	1,310	279	180	R2,707	83	658	80	442	234	--	456	172	1,809	R4,686	R7,393
2005	295	68	102	130	265	1,460	300	206	2,943	92	645	94	426	271	--	457	157	1,717	4,711	7,654
2006	310	68	123	130	280	1,427	300	215	3,024	88	685	90	427	286	--	417	142	1,739	4,771	7,795
2007 <sup>P</sup>	342	65	124	139	275	1,427	336	217	3,108	92	670	88	396	285	--	426	136	1,776	4,808	7,916

<sup>1</sup> See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, countries are classified as "OPEC" or "Non-OPEC" in all years based on their membership status in the most current year.

<sup>2</sup> Includes about one-half of the production in the Neutral Zone between Kuwait and Saudi Arabia.

<sup>3</sup> On this table, "Total OPEC" for all years includes Algeria, Angola, Ecuador, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, Venezuela, and the Neutral Zone (between Kuwait and Saudi Arabia). Data for all countries not included in "Total OPEC" are included in

"Total Non-OPEC."

R=Revised. P=Preliminary. -- = Not applicable. (s)=Less than 500 barrels per day.

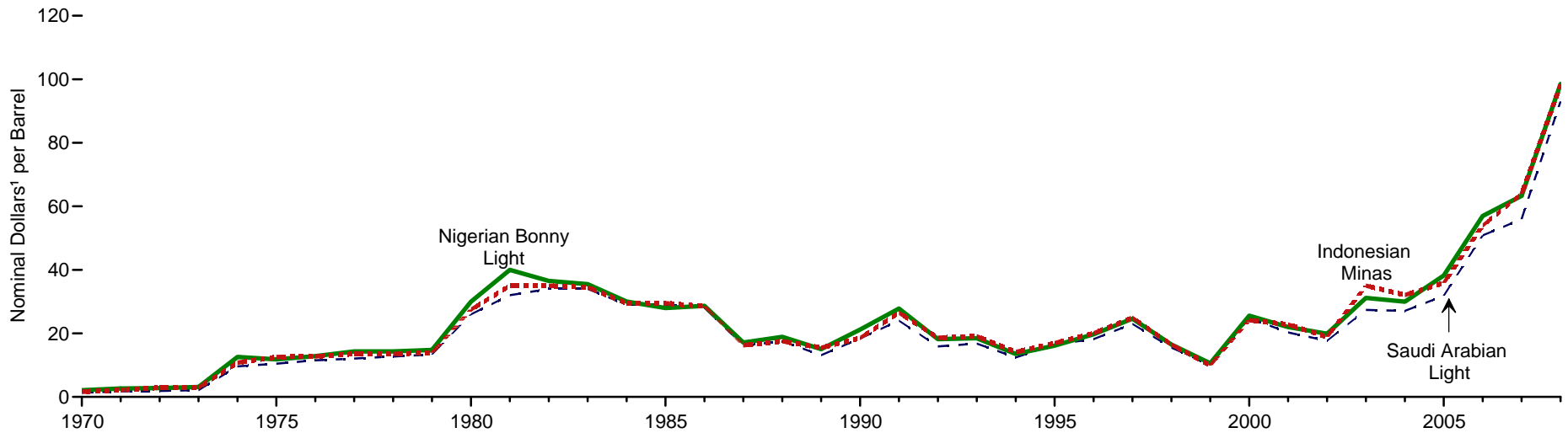
Note: Totals may not equal sum of components due to independent rounding.

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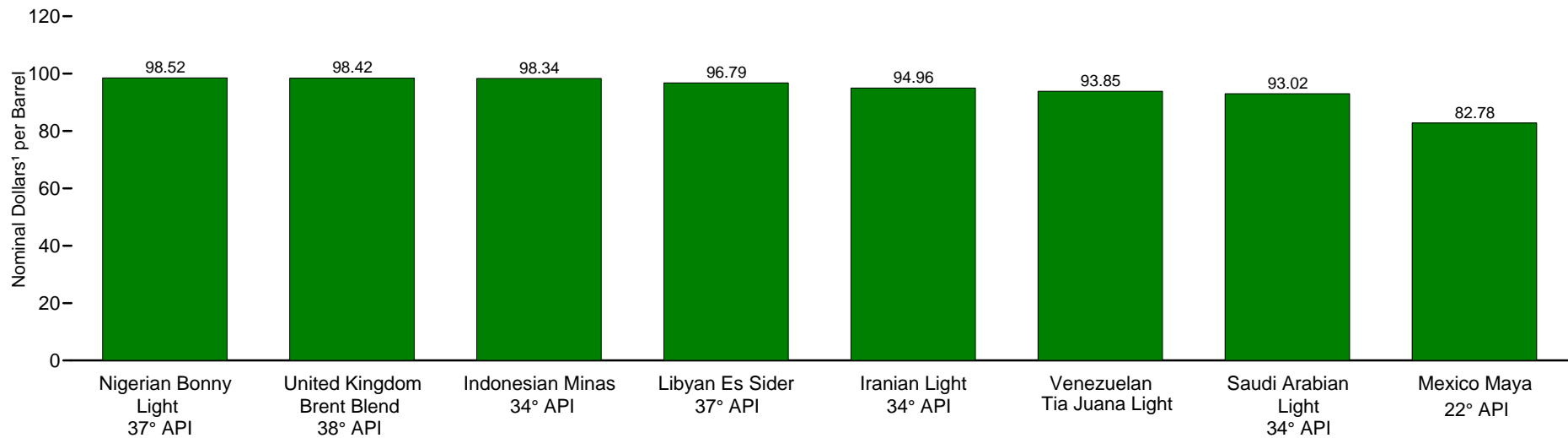
Sources: • 1973-1979—Energy Information Administration (EIA), *International Energy Annual*, annual reports, and the International Energy Database. • 1980 forward—EIA, International Energy Database, April 11, 2008.

**Figure 11.7 Crude Oil Prices by Selected Type**

**Selected Types, 1970-2008**



**Selected Types, 2008**



<sup>1</sup> See "Nominal Dollars" in Glossary.

Notes: • Prices are as of the Friday that is closest to January 1, except in 1987, when prices

are as of the first Friday in February. See "API" and "API Gravity" in Glossary.

Source: Table 11.7.

**Table 11.7 Crude Oil Prices by Selected Type, 1970-2008**(Nominal Dollars <sup>1</sup> per Barrel)

Year	Saudi Arabian Light-34° API	Iranian Light-34° API	Libyan <sup>2</sup> Es Sider-37° API	Nigerian <sup>3</sup> Bonny Light-37° API	Indonesian Minas-34° API	Venezuelan Tia Juana Light <sup>4</sup>	Mexico Maya-22° API	United Kingdom Brent Blend-38° API
1970	1.35	1.36	2.09	2.10	1.67	2.05	NA	NA
1971	1.75	1.76	2.80	2.65	2.18	2.45	NA	NA
1972	1.90	1.91	2.80	2.80	2.96	2.45	NA	NA
1973	2.10	2.11	3.10	3.10	2.96	2.60	NA	NA
1974	9.60	10.63	14.30	12.60	10.80	9.30	NA	NA
1975	10.46	10.67	11.98	11.80	12.60	11.00	NA	NA
1976	11.51	11.62	12.21	12.84	12.80	11.12	NA	NA
1977	12.09	12.81	13.74	14.33	13.55	12.72	NA	NA
1978	12.70	12.81	13.80	14.33	13.55	12.82	NA	NA
1979	13.34	13.45	14.52	14.80	13.90	13.36	15.45	15.70
1980	26.00	<sup>5</sup> 30.37	34.50	29.97	27.50	25.20	28.00	26.02
1981	32.00	37.00	40.78	40.00	35.00	32.88	34.50	39.25
1982	34.00	34.20	36.50	36.50	35.00	32.88	26.50	36.60
1983	34.00	31.20	35.10	35.50	34.53	32.88	25.50	33.50
1984	29.00	28.00	30.15	30.00	29.53	27.88	25.00	30.00
1985	29.00	28.00	30.15	28.00	29.53	27.88	25.50	28.65
1986	28.00	28.05	30.15	28.65	28.53	28.05	21.93	26.00
1987	16.15	16.14	16.95	17.13	16.28	15.10	14.00	18.25
1988	17.52	15.55	18.52	18.92	17.56	17.62	11.10	18.00
1989	13.15	12.75	15.40	15.05	15.50	12.27	10.63	15.80
1990	18.40	18.20	20.40	21.20	18.55	24.69	17.05	21.00
1991	24.00	23.65	26.90	27.80	26.50	28.62	20.00	27.20
1992	15.90	15.50	17.20	18.20	18.65	19.67	10.75	17.75
1993	16.80	16.70	17.55	18.50	19.10	17.97	12.50	17.90
1994	12.40	12.40	12.55	13.50	14.15	12.97	9.01	13.15
1995	16.63	16.18	16.05	16.15	16.95	16.57	13.77	16.15
1996	18.20	17.73	19.20	19.70	20.05	18.52	15.79	19.37
1997	22.98	22.63	24.10	24.65	24.95	26.62	19.33	24.05
1998	15.50	14.93	16.72	16.50	16.50	15.93	10.81	15.89
1999	10.03	9.83	10.65	10.60	9.95	9.45	6.38	10.44
2000	24.78	24.63	25.85	25.55	24.15	24.85	20.20	25.10
2001	20.30	20.20	22.40	22.00	22.80	22.13	15.82	22.50
2002	17.68	18.90	19.63	19.88	18.89	17.78	14.30	21.20
2003	27.39	27.85	30.40	31.16	35.03	30.25	26.29	31.36
2004	27.08	28.67	29.47	29.97	32.10	30.10	24.37	29.73
2005	31.86	33.84	38.00	38.21	35.86	35.98	26.16	39.43
2006	50.86	52.56	55.89	56.97	53.95	52.52	42.93	57.25
2007	55.94	56.28	59.22	63.28	63.87	55.57	46.98	60.50
2008	93.02	94.96	96.79	98.52	98.34	93.85	82.78	98.42

<sup>1</sup> See "Nominal Dollars" in Glossary.<sup>2</sup> For 1974 and 1975, prices are for crude oil with 40° API. For 1980, prices include \$4.72 in retroactive charges and market premiums.<sup>3</sup> Beginning in 1977, prices include 2 cents per barrel harbor dues.<sup>4</sup> For 1970-1985, prices are for crude oil with 26° API. Beginning in 1986, prices are for crude oil with 31° API.<sup>5</sup> For 1980, price includes \$1.87 market premiums and credit charges.

NA=Not available.

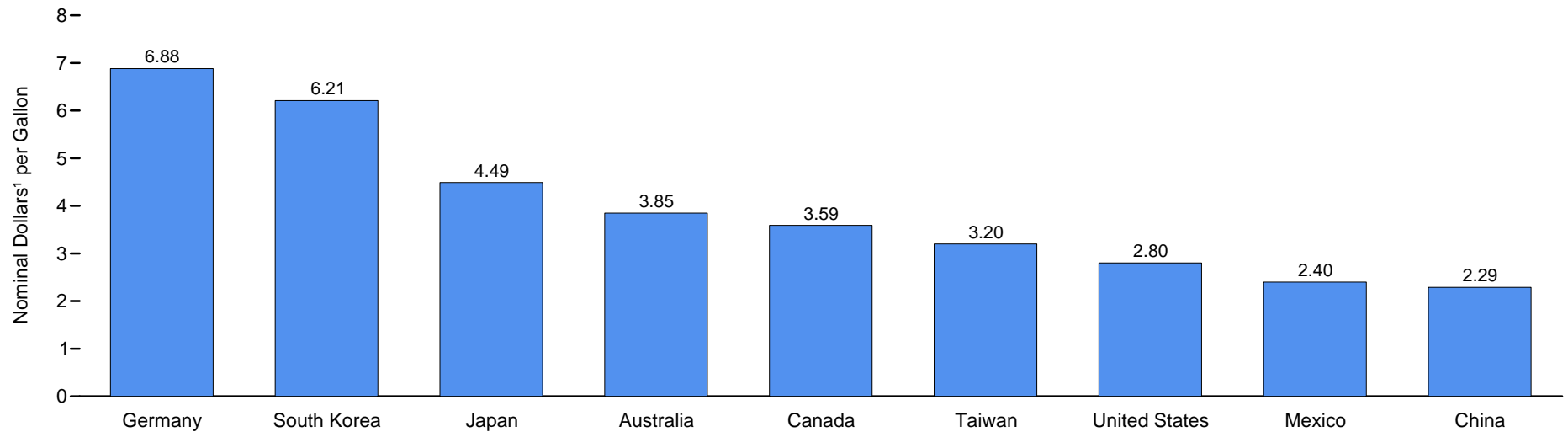
Notes: • Prices are as of the Friday that is closest to January 1, except in 1987, when prices are as of

the first Friday in February. • Prices are based on official government-selling prices, netback values, or spot market quotations. • Prices are usually free on board (f.o.b.) at the foreign port of lading. • See Tables 5.18, 5.19, and 5.21 for other types of crude oil prices for the United States, such as domestic first purchase prices, landed costs of crude oil imports, and refiner acquisition costs. • See "API" and "API Gravity" in Glossary.

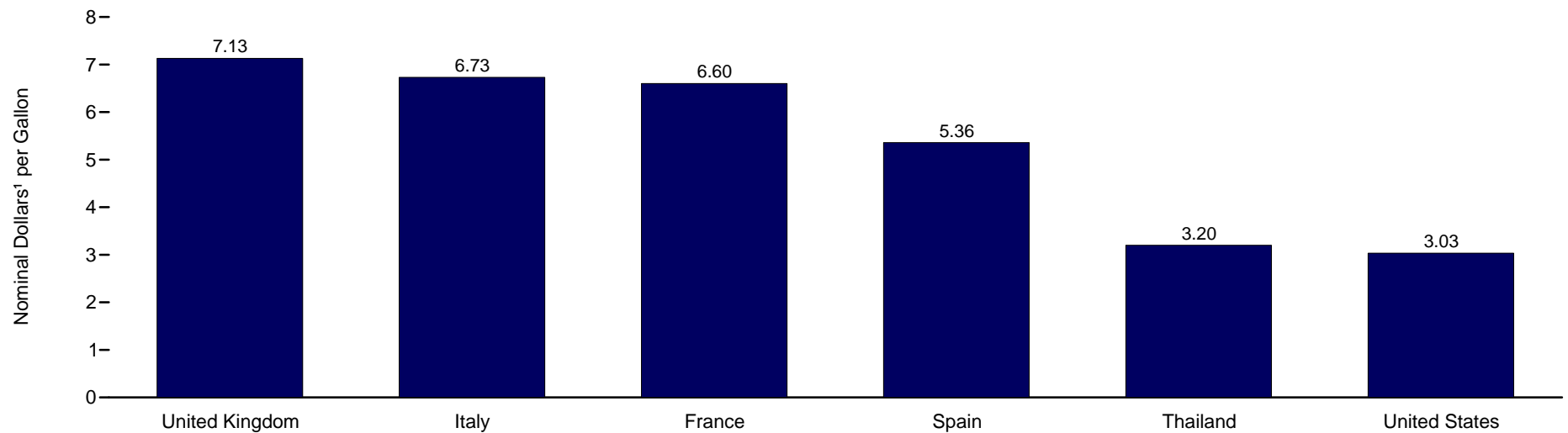
Web Page: For related information, see <http://www.eia.doe.gov/international>.Sources: • 1970-1978—Petroleum and Energy Intelligence Weekly, Inc., *Petroleum Intelligence Weekly*. • 1979 forward—Energy Information Administration, *Weekly Petroleum Status Report*.

**Figure 11.8 Retail Motor Gasoline Prices in Selected Countries, 2007**

**Regular Unleaded**



**Premium Unleaded<sup>2</sup>**



<sup>1</sup> See "Nominal Dollars" in Glossary.

<sup>2</sup> Research Octane Number (RON) of 95, except RON of 98 for the United States.

Source: Table 11.8.



**Table 11.8 Retail Motor Gasoline Prices in Selected Countries, 1990-2007**

(Nominal Dollars <sup>1</sup> per Gallon)

Year	Regular Unleaded									Premium Unleaded <sup>2</sup>						
	Australia	Canada	China	Germany	Japan	Mexico	South Korea	Taiwan	United States	France	Italy	South Africa	Spain	Thailand	United Kingdom	United States
1990	NA	1.87	NA	2.65	3.16	1.00	2.05	2.49	1.16	3.63	4.59	NA	NA	NA	2.82	1.35
1991	1.96	1.92	NA	2.90	3.46	1.30	2.49	2.39	1.14	3.45	4.50	NA	NA	NA	3.01	1.32
1992	1.89	1.73	NA	3.27	3.59	1.50	2.65	2.42	1.13	3.57	4.53	NA	3.50	1.35	3.06	1.32
1993	1.73	1.57	NA	3.07	4.02	1.56	2.88	2.27	1.11	3.41	3.68	NA	3.01	1.26	2.84	1.30
1994	1.84	1.45	NA	3.52	4.39	1.48	2.87	2.14	1.11	3.59	3.70	NA	2.99	1.21	2.99	1.31
1995	1.95	1.53	NA	3.96	4.43	1.11	2.94	2.23	1.15	4.26	4.00	NA	3.24	1.25	3.21	1.34
1996	2.12	1.61	NA	3.94	3.65	1.25	3.18	2.15	1.23	4.41	4.39	NA	3.32	1.49	3.34	1.41
1997	2.05	1.62	NA	3.53	3.27	1.47	3.34	2.23	1.23	4.00	4.07	1.72	3.01	1.27	3.83	1.42
1998	1.63	1.38	NA	3.34	2.83	1.49	3.04	1.86	1.06	3.87	3.84	1.51	2.80	1.09	4.06	1.25
1999	1.72	1.52	NA	3.42	3.27	1.79	3.80	1.86	1.17	3.85	3.87	1.55	2.82	1.22	4.29	1.36
2000	1.94	1.86	NA	3.45	3.65	2.01	4.18	2.15	1.51	3.80	3.77	1.78	2.86	1.38	4.58	1.69
2001	1.71	1.72	1.22	3.40	3.27	2.20	3.76	2.02	1.46	3.51	3.57	1.59	2.73	1.33	4.13	1.66
2002	1.76	1.70	1.21	3.67	3.15	2.24	3.84	1.93	1.36	3.62	3.74	1.41	2.90	1.35	4.16	1.56
2003	2.19	1.99	1.33	4.59	3.47	2.04	4.12	2.16	1.59	4.35	4.53	1.91	3.49	1.52	4.70	1.78
2004	2.72	2.37	1.48	5.24	3.93	2.03	4.51	2.46	1.88	4.99	5.30	2.58	4.09	1.76	5.56	2.07
2005	3.23	<sup>R</sup> 2.89	1.70	5.66	4.28	2.22	5.28	<sup>R</sup> 2.76	2.30	5.46	5.74	3.05	4.49	2.25	5.97	2.49
2006	3.54	3.26	2.11	6.03	4.47	2.31	<sup>R</sup> 5.92	<sup>R</sup> 3.05	2.59	5.88	6.10	<sup>R</sup> 3.42	<sup>R</sup> 4.84	<sup>R</sup> 2.76	6.36	2.81
2007	3.85	3.59	2.29	6.88	4.49	2.40	6.21	3.20	2.80	6.60	6.73	NA	5.36	3.20	7.13	3.03

<sup>1</sup> See "Nominal Dollars" in Glossary.

<sup>2</sup> Research Octane Number (RON) of 95, except RON of 98 for the United States.

R=Revised. NA=Not available.

Notes: • Prices are those actually paid, i.e., net of rebates, and include transport costs and taxes which are not refundable. Prices in national currencies are converted to U.S. dollars using exchange rates published by the International Monetary Fund. • Prices for all countries, except the United States, have been converted from dollars per liter to dollars per gallon at 3.785412 liters per gallon. Comparisons between prices and price trends in different countries require care. They are of limited validity because of

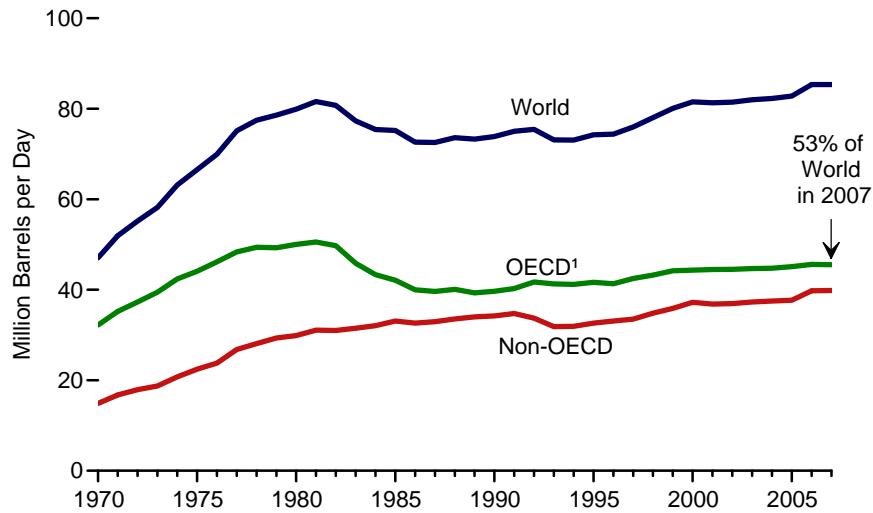
fluctuations in exchange rates, differences in product quality, marketing practices, market structures, and the extent to which the standard categories of sales are representative of total national sales for a given period.

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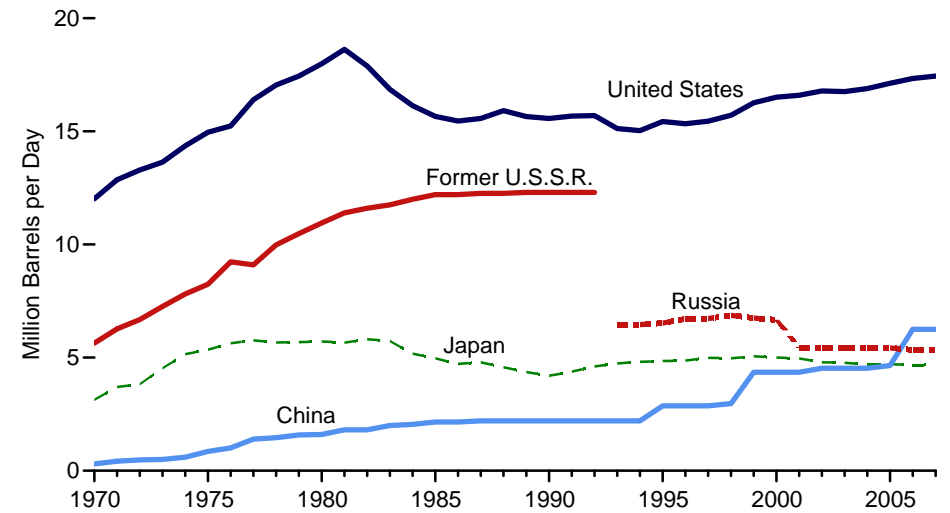
Sources: • **United States:** Table 5.24. • **All Other Data:** International Energy Agency, Organization for Economic Cooperation and Development, *Energy Prices & Taxes, Quarterly Statistics, First Quarter 2008, Part II, Section D, and Part III, Section B.*

# Figure 11.9 World Crude Oil Refining Capacity

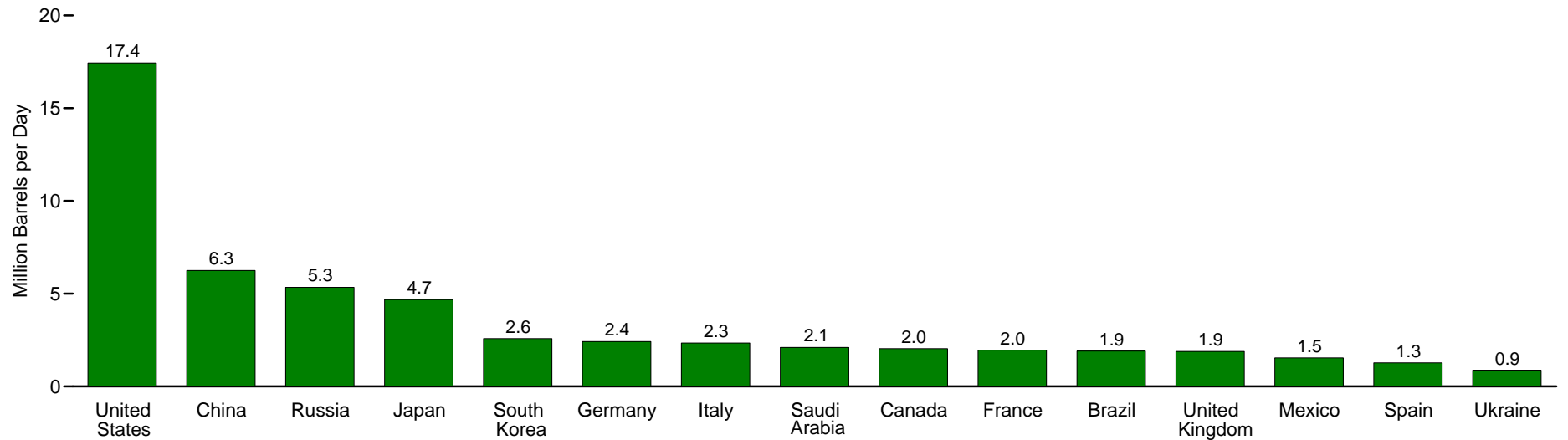
## World, OECD, and Non-OECD, 1970-2007



## Top Refining Countries, 1970-2007



## Top Refining Countries, 2007



<sup>1</sup> Organization for Economic Cooperation and Development. See Glossary for membership.  
 Notes: • Capacity as of January 1. • Because vertical scales differ, graphs should not be compared.

Source: Table 11.9.

**Table 11.9 World Crude Oil Refining Capacity, 1970-2007**  
(Million Barrels per Day)

Year	Selected OECD Countries											Selected Non-OECD Countries							World
	Canada	France	Germany <sup>1</sup>	Italy	Japan	Mexico <sup>2</sup>	South Korea <sup>2</sup>	Spain	United Kingdom	United States	Total OECD <sup>3</sup>	Brazil	China	Former U.S.S.R.	Russia	Saudi Arabia	Ukraine	Total Non-OECD	
1970	1.40	2.32	2.36	2.96	3.14	0.50	0.18	0.69	2.30	12.02	32.18	0.50	0.30	5.64	--	0.38	--	14.87	47.05
1971	1.45	2.53	2.54	3.24	3.70	.57	.25	.85	2.39	12.86	35.19	.51	.42	6.27	--	.91	--	16.73	51.92
1972	1.45	2.69	2.56	3.68	3.82	.59	.22	.87	2.59	13.29	37.29	.56	.48	6.68	--	.51	--	17.90	55.19
1973	1.73	2.95	2.70	3.59	4.53	.63	.43	1.03	2.47	13.64	39.45	.72	.50	7.26	--	.43	--	18.72	58.17
1974	1.79	3.14	2.83	3.88	5.15	.63	.42	1.16	2.76	14.36	42.39	.79	.60	7.81	--	.43	--	20.74	63.13
1975	1.88	3.34	2.99	3.95	5.35	.76	.43	1.17	2.78	14.96	44.07	.96	.85	8.24	--	.61	--	22.45	66.52
1976	2.02	3.31	3.10	4.08	5.63	.76	.44	1.32	2.89	15.24	46.16	.99	1.01	9.23	--	.54	--	23.77	69.93
1977	2.10	3.52	3.08	4.26	5.76	.94	.42	1.28	3.01	16.40	48.34	1.12	1.40	9.10	--	.60	--	26.77	75.11
1978	2.17	3.46	3.08	4.23	5.67	1.38	.48	1.27	2.91	17.05	49.37	1.16	1.46	9.98	--	.59	--	28.09	77.46
1979	2.23	3.47	3.10	4.20	5.68	1.24	.54	1.43	2.53	17.44	49.26	1.21	1.58	10.48	--	.49	--	29.34	78.60
1980	2.22	3.40	2.99	4.13	5.71	1.39	.60	1.46	2.53	17.99	50.03	1.21	1.60	10.95	--	.49	--	29.85	79.88
1981	2.17	3.34	3.02	4.09	5.66	1.39	.61	1.46	2.63	18.62	50.54	1.40	1.81	11.40	--	.49	--	31.06	81.60
1982	2.20	3.29	2.94	4.00	5.81	1.47	.76	1.52	2.48	17.89	49.74	1.41	1.81	11.60	--	.49	--	31.00	80.73
1983	2.02	2.87	2.47	3.28	5.73	1.29	.76	1.52	2.26	16.86	45.83	1.22	2.00	11.75	--	.71	--	31.48	77.30
1984	1.81	2.67	2.39	3.05	5.17	1.27	.78	1.49	2.09	16.14	43.33	1.30	2.05	12.00	--	.86	--	32.06	75.39
1985	1.87	2.39	2.17	3.10	4.97	1.27	.78	1.49	2.01	15.66	42.10	1.31	2.15	12.20	--	.84	--	33.08	75.18
1986	1.86	1.95	1.93	2.74	4.72	1.27	.78	1.37	1.79	15.46	39.99	1.31	2.15	12.20	--	1.12	--	32.62	72.61
1987	1.76	1.83	1.72	2.68	4.79	1.35	.86	1.31	1.78	15.57	39.63	1.32	2.20	12.26	--	1.13	--	32.93	72.56
1988	1.87	1.94	1.65	2.56	4.57	1.35	.82	1.31	1.80	15.92	40.07	1.41	2.20	12.26	--	1.38	--	33.54	73.61
1989	1.86	1.88	1.52	2.45	4.36	1.35	.88	1.29	1.80	15.66	39.31	1.41	2.20	12.30	--	1.38	--	33.99	73.30
1990	1.85	1.82	1.51	2.80	4.20	1.51	.87	1.29	1.83	15.57	39.66	1.40	2.20	12.30	--	1.48	--	34.21	73.86
1991	1.88	1.82	2.07	2.39	4.38	1.68	.87	1.32	1.87	15.68	40.25	1.41	2.20	12.30	--	1.86	--	34.75	75.00
1992	1.91	1.82	2.06	2.39	4.61	1.57	1.16	1.32	1.86	15.70	41.72	1.41	2.20	12.30	--	1.86	--	33.72	75.43
1993	1.87	1.85	2.23	2.42	4.74	1.52	1.15	1.30	1.84	15.12	41.28	1.40	2.20	--	6.46	1.86	1.24	31.83	73.11
1994	1.88	1.86	2.27	2.26	4.81	1.52	1.15	1.28	1.87	15.03	41.18	1.25	2.20	--	6.46	1.61	1.24	31.90	73.07
1995	1.91	1.77	2.32	2.26	4.85	1.52	1.17	1.28	1.87	15.43	41.62	1.25	2.87	--	6.53	1.66	1.26	32.63	74.25
1996	1.85	1.78	2.13	2.28	4.87	1.52	1.24	1.33	1.89	15.33	41.31	1.26	2.87	--	6.72	1.66	1.26	33.09	74.39
1997	1.85	1.79	2.11	2.26	4.99	1.52	2.21	1.30	1.94	15.45	42.47	1.26	2.87	--	6.73	1.66	1.25	33.51	75.99
1998	1.85	1.87	2.18	2.45	4.97	1.52	2.54	1.29	1.83	15.71	43.23	1.66	2.97	--	6.87	1.65	1.25	34.80	78.03
1999	1.87	1.95	2.25	2.45	5.06	1.53	2.54	1.32	1.85	16.26	44.19	1.77	4.35	--	6.75	1.69	1.09	35.89	80.08
2000	1.91	1.90	2.28	2.34	5.00	1.53	2.54	1.32	1.79	16.51	44.33	1.78	4.35	--	6.67	1.71	1.15	37.20	81.53
2001	1.91	1.90	2.26	2.36	4.96	1.53	2.56	1.29	1.77	16.60	44.48	1.92	4.35	--	5.44	1.75	1.03	36.84	81.32
2002	1.94	1.90	2.26	2.28	4.79	1.53	2.56	1.29	1.78	16.79	44.50	1.79	4.53	--	5.44	1.75	1.03	36.95	81.44
2003	1.98	1.90	2.27	2.30	4.77	1.68	2.56	1.32	1.79	16.76	44.69	1.87	4.53	--	5.44	1.75	1.03	37.30	82.00
2004	1.99	1.95	2.29	2.31	4.70	1.68	2.54	1.27	1.82	16.89	44.75	1.91	4.53	--	5.44	1.75	1.03	37.51	82.26
2005	2.02	1.95	2.32	2.32	4.71	1.68	2.58	1.27	1.83	17.13	45.12	1.92	4.65	--	5.43	1.75	.88	37.67	82.80
2006	2.02	1.98	2.43	2.32	4.67	1.68	2.58	1.27	1.88	17.34	45.58	1.91	6.25	--	5.34	2.10	.88	39.76	85.34
2007	2.04	1.96	2.42	2.34	4.68	1.54	2.58	1.27	1.89	17.44	45.52	1.91	6.25	--	5.34	2.10	.88	39.83	85.36

<sup>1</sup> Through 1990, this is East and West Germany. Beginning in 1991, this is unified Germany.

<sup>2</sup> Mexico, which joined the OECD on May 18, 1994, and South Korea, which joined the OECD on December 12, 1996, are included in the OECD for all years shown in this table.

<sup>3</sup> Hungary and Poland, which joined the OECD on May 7, 1996, and November 22, 1996, respectively, are included in Total OECD beginning in 1992, the first year that data for these countries were available. The Czech Republic and Slovakia (or Slovak Republic), which joined the OECD on December 21, 1995 and December 14, 2000, respectively, are included in Total OECD beginning in 1992, the first year that data for these countries were available.

-- = Not applicable.

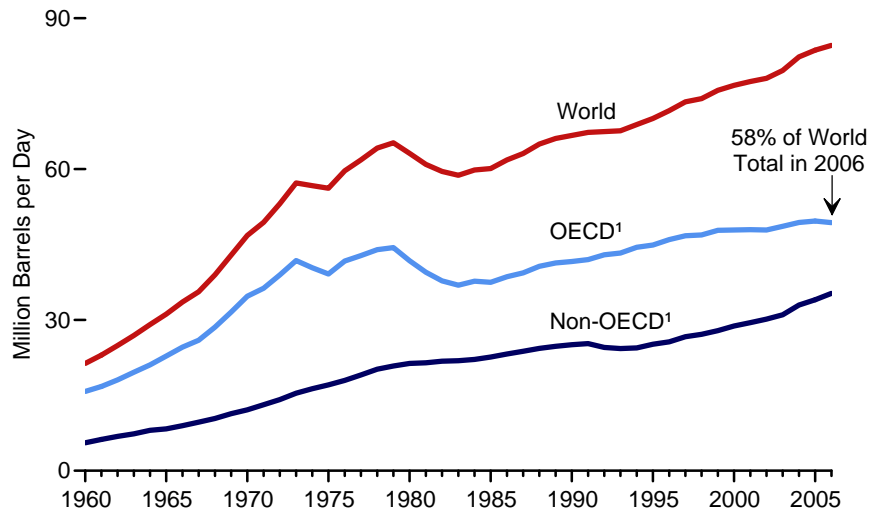
Notes: • OECD = Organization for Economic Cooperation and Development. See Glossary for membership. • Capacity data represent distillation capacity. • Capacity for all years is as of January 1. • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

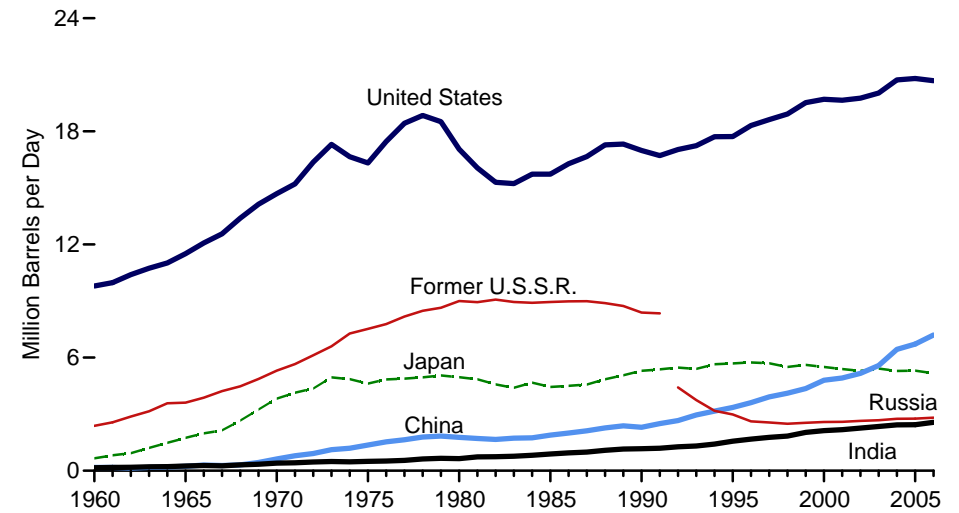
Sources: **United States:** Table 5.9. **China** and **Former U.S.S.R.:** • 1970-1976—Ballinger Publishing Company, *The Energy Decade, 1970-1980, A Statistical and Graphic Chronicle*. • 1977 forward—PennWell Publishing Company, *Oil & Gas Journal*. **All Other Data:** PennWell Publishing Company, *Oil & Gas Journal*.

# Figure 11.10 World Petroleum Consumption

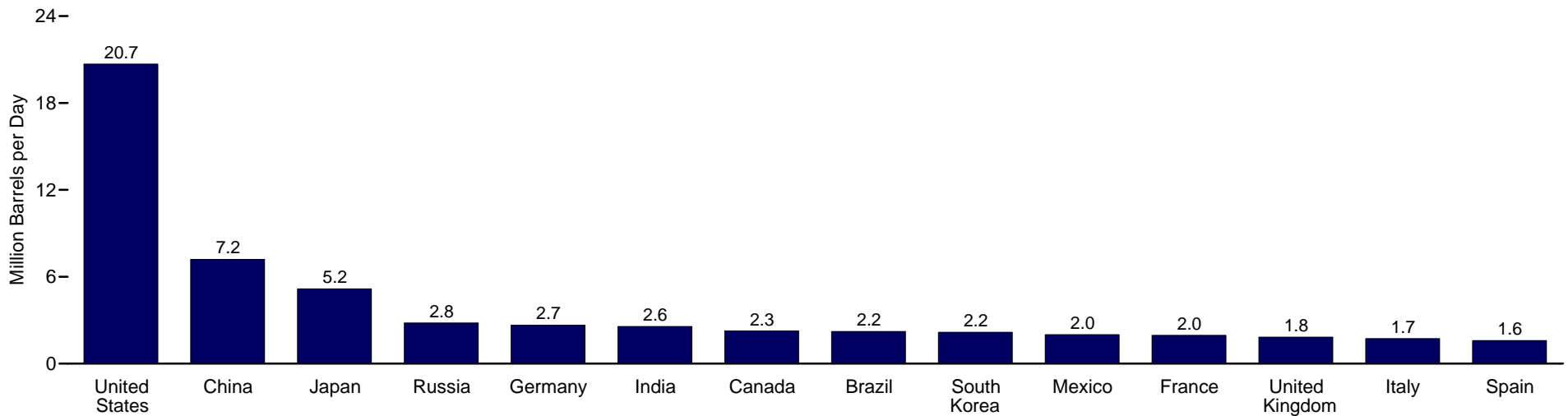
## World, 1960-2006



## Top Consuming Countries, 1960-2006



## Selected Consumers, 2006



<sup>1</sup> Organization for Economic Cooperation and Development. See Glossary for membership.  
 Note: Because vertical scales differ, graphs should not be compared.

Source: Table 11.10.

**Table 11.10 World Petroleum Consumption, 1960-2006**  
(Million Barrels per Day)

Year	Selected OECD Consumers											Selected Non-OECD Consumers						World
	Canada	France	Germany <sup>1</sup>	Italy	Japan	Mexico <sup>2</sup>	South Korea <sup>2</sup>	Spain	United Kingdom	United States	Total OECD <sup>3</sup>	Brazil	China	India	Former U.S.S.R.	Russia	Total Non-OECD	
1960	0.84	0.56	0.63	0.44	0.66	0.30	0.01	0.10	0.94	9.80	15.78	0.27	0.17	0.16	2.38	--	5.56	21.34
1961	.87	.63	.79	.54	.82	.29	.02	.12	1.04	9.98	16.77	.28	.17	.17	2.57	--	6.23	23.00
1962	.92	.73	1.00	.67	.93	.30	.02	.12	1.12	10.40	18.06	.31	.14	.18	2.87	--	6.83	24.89
1963	.99	.86	1.17	.77	1.21	.31	.03	.12	1.27	10.74	19.60	.34	.17	.21	3.15	--	7.32	26.92
1964	1.05	.98	1.36	.90	1.48	.33	.02	.20	1.36	11.02	21.05	.35	.20	.22	3.58	--	8.03	29.08
1965	1.14	1.09	1.61	.98	1.74	.34	.03	.23	1.49	11.51	22.81	.33	.23	.25	3.61	--	8.33	31.14
1966	1.21	1.19	1.80	1.08	1.98	.36	.04	.31	1.58	12.08	24.60	.38	.30	.28	3.87	--	8.96	33.56
1967	1.25	1.34	1.86	1.19	2.14	.39	.07	.36	1.64	12.56	25.94	.38	.28	.26	4.22	--	9.65	35.59
1968	1.34	1.46	1.99	1.40	2.66	.41	.10	.46	1.82	13.39	28.56	.46	.31	.31	4.48	--	10.40	38.96
1969	1.42	1.66	2.33	1.69	3.25	.45	.15	.49	1.98	14.14	31.54	.48	.44	.34	4.87	--	11.35	42.89
1970	1.52	1.94	2.83	1.71	3.82	.50	.20	.58	2.10	14.70	34.69	.53	.62	.40	5.31	--	12.12	46.81
1971	1.56	2.12	2.94	1.84	4.14	.52	.23	.64	2.14	15.21	36.30	.58	.79	.42	5.66	--	13.12	49.42
1972	1.66	2.32	3.10	1.95	4.36	.59	.24	.68	2.28	16.37	38.95	.66	.91	.46	6.12	--	14.15	53.09
1973	1.73	2.60	3.32	2.07	4.95	.67	.28	.78	2.34	17.31	41.80	.78	1.12	.49	6.60	--	15.43	57.24
1974	1.78	2.45	3.03	2.00	4.86	.71	.29	.86	2.21	16.65	40.38	.86	1.19	.47	7.28	--	16.30	56.68
1975	1.78	2.25	2.96	1.86	4.62	.75	.31	.87	1.91	16.32	39.14	.92	1.36	.50	7.52	--	17.06	56.20
1976	1.82	2.42	3.21	1.97	4.84	.83	.36	.97	1.89	17.46	41.72	1.00	1.53	.51	7.78	--	17.96	59.67
1977	1.85	2.29	3.21	1.90	4.88	.88	.42	.94	1.91	18.43	42.78	1.02	1.64	.55	8.18	--	19.05	61.83
1978	1.90	2.41	3.29	1.95	4.95	.99	.48	.98	1.94	18.85	43.98	1.11	1.79	.62	8.48	--	20.18	64.16
1979	1.97	2.46	3.37	2.04	5.05	1.10	.53	1.02	1.97	18.51	44.39	1.18	1.84	.66	8.64	--	20.84	65.22
1980	1.87	2.26	3.08	1.93	4.96	1.27	.54	.99	1.73	17.06	41.76	1.15	1.77	.64	9.00	--	21.35	63.11
1981	1.77	2.02	2.80	1.87	4.85	1.40	.54	.94	1.59	16.06	39.49	1.09	1.71	.73	8.94	--	21.45	60.94
1982	1.58	1.88	2.74	1.78	4.58	1.48	.53	1.00	1.59	15.30	37.77	1.06	1.66	.74	9.08	--	21.78	59.54
1983	1.45	1.84	2.66	1.75	4.40	1.35	.56	1.01	1.53	15.23	36.91	.98	1.73	.77	8.95	--	21.87	58.78
1984	1.52	1.77	2.56	1.72	4.67	R1.40	.55	.85	1.83	15.73	37.69	1.03	1.74	.82	8.91	--	22.12	59.82
1985	1.53	1.75	2.65	R1.71	4.44	1.48	.55	.86	1.62	15.73	37.48	1.08	1.89	.89	8.95	--	22.60	R60.09
1986	1.53	1.76	2.79	1.73	4.50	1.52	.59	.87	1.64	16.28	38.60	1.24	2.00	.95	8.98	--	23.21	R61.81
1987	1.61	1.79	2.72	1.82	4.57	1.58	.63	.90	1.61	16.67	39.34	1.26	2.12	.99	R8.99	--	23.75	63.10
1988	1.68	1.80	2.72	1.83	4.85	1.60	.75	.98	1.69	17.28	40.65	1.30	2.27	1.08	8.89	--	24.32	64.97
1989	1.75	1.84	2.58	1.90	5.06	R1.72	.86	.98	1.73	17.33	41.33	1.32	2.38	1.15	8.74	--	24.75	66.08
1990	1.73	1.83	2.68	1.87	R5.30	1.75	1.05	1.01	1.78	16.99	R41.61	1.47	2.30	1.17	8.39	--	25.07	R66.68
1991	1.67	1.94	2.83	1.86	R5.38	1.83	1.26	1.07	1.80	16.71	R42.00	1.48	2.50	1.19	8.35	--	25.28	R67.28
1992	1.72	1.93	2.84	1.89	R5.47	1.86	1.53	1.10	R1.82	17.03	R42.95	1.52	2.66	1.27	--	4.42	24.51	R67.46
1993	1.75	1.88	2.91	1.89	R5.40	1.84	1.68	1.05	1.83	17.24	R43.30	1.58	2.96	1.31	--	3.75	24.30	R67.60
1994	1.77	R1.87	2.88	1.87	R5.65	1.93	1.84	1.12	1.83	17.72	R44.44	1.67	3.16	1.41	--	3.18	24.43	R68.86
1995	1.81	1.92	2.88	1.94	R5.69	1.82	2.01	1.19	1.82	17.72	R44.90	1.79	3.36	1.57	--	2.98	25.16	R70.07
1996	1.86	1.95	2.92	1.92	R5.74	1.79	2.10	1.20	1.85	18.31	R45.98	1.90	3.61	1.68	--	2.62	25.65	R71.63
1997	1.95	1.97	2.92	1.93	R5.70	1.85	2.25	1.27	1.80	18.62	R46.72	2.03	3.92	1.77	--	2.56	R26.65	R73.37
1998	1.94	2.04	2.92	1.94	R5.50	1.95	1.92	1.36	1.79	18.92	R46.89	2.10	4.11	1.84	--	2.49	R27.12	R74.00
1999	2.03	2.03	2.84	1.89	R5.61	1.96	2.08	1.40	1.80	19.52	R47.81	2.13	4.36	2.03	--	2.54	R27.86	R75.66
2000	2.03	2.00	2.77	1.85	R5.50	2.04	2.14	1.43	1.76	19.70	R47.88	2.17	4.80	2.13	--	2.58	R28.79	R76.66
2001	2.06	2.05	2.81	1.84	R5.39	2.01	2.13	1.49	R1.74	19.65	R47.94	2.21	4.92	2.18	--	2.59	R29.46	R77.40
2002	2.08	1.98	2.72	1.87	5.30	1.95	2.15	1.50	R1.73	19.76	R47.89	2.13	5.16	2.26	--	2.64	R30.15	R78.04
2003	2.21	2.00	2.68	1.87	5.42	1.95	2.18	1.54	R1.76	20.03	R48.60	2.06	5.58	2.35	--	2.68	R31.01	79.61
2004	2.30	2.01	2.67	1.79	5.29	2.00	2.16	1.57	R1.80	20.73	R49.36	R2.12	6.44	2.43	--	2.75	R32.97	R82.33
2005	R2.30	R1.99	R2.65	R1.75	R5.31	R2.05	R2.19	R1.61	R1.83	20.80	R49.66	R2.17	R6.72	2.44	--	R2.76	R33.99	R83.65
2006 <sup>P</sup>	2.26	1.96	2.66	1.73	5.16	2.00	2.17	1.59	1.83	20.69	49.34	2.22	7.20	2.57	--	2.81	35.29	84.62

<sup>1</sup> Through 1969, the data for Germany are for the former West Germany only. For 1970 through 1990, this is East and West Germany. Beginning in 1991, this is unified Germany.

<sup>2</sup> Mexico, which joined the OECD on May 18, 1994, and South Korea, which joined the OECD on December 12, 1996, are included in the OECD for all years shown in this table.

<sup>3</sup> Hungary and Poland, which joined the OECD on May 7, 1996, and November 22, 1996, respectively, are included in Total OECD beginning in 1970, the first year that data for these countries were available. Total OECD includes Czechoslovakia from 1970-1992, and Czech Republic and Slovakia from 1993

forward.

R=Revised. P=Preliminary. --- = Not applicable.

Notes: • OECD = Organization for Economic Cooperation and Development. See Glossary for membership. • Totals may not equal sum of components due to independent rounding.

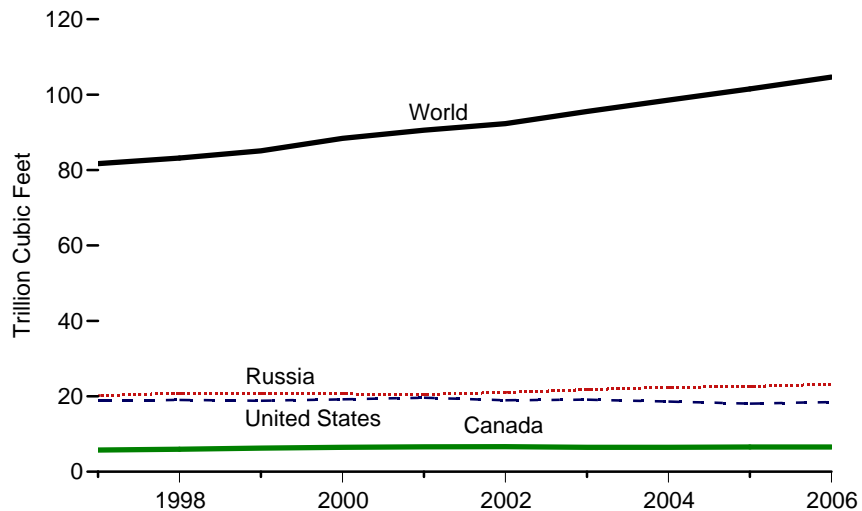
Web Page: For related information, see <http://www.eia.doe.gov/international>.

Sources: **United States:** Table 5.1, "Petroleum Products Supplied." **All Other Data:**

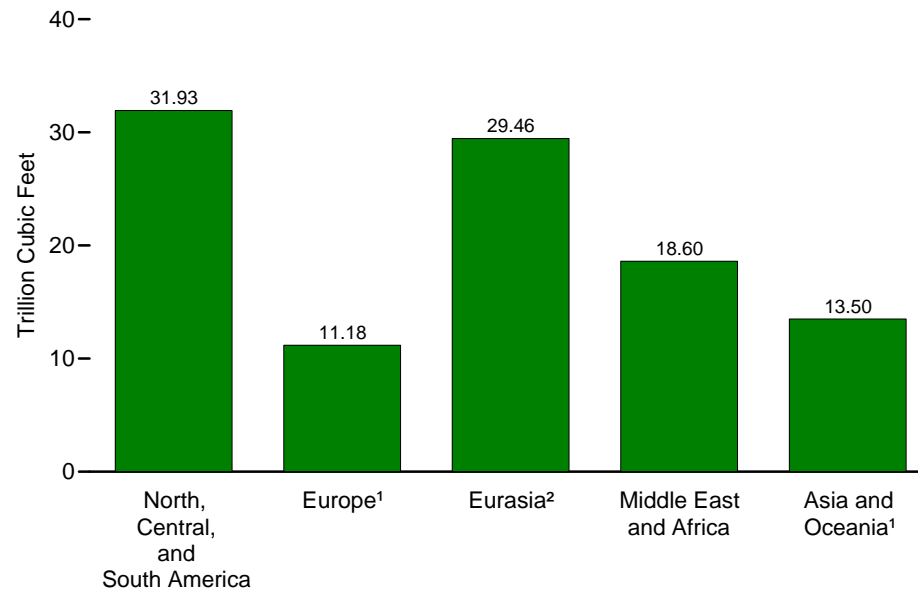
• 1960 forward—Energy Information Administration, International Energy Database, May 12, 2008.

# Figure 11.11 World Dry Natural Gas Production

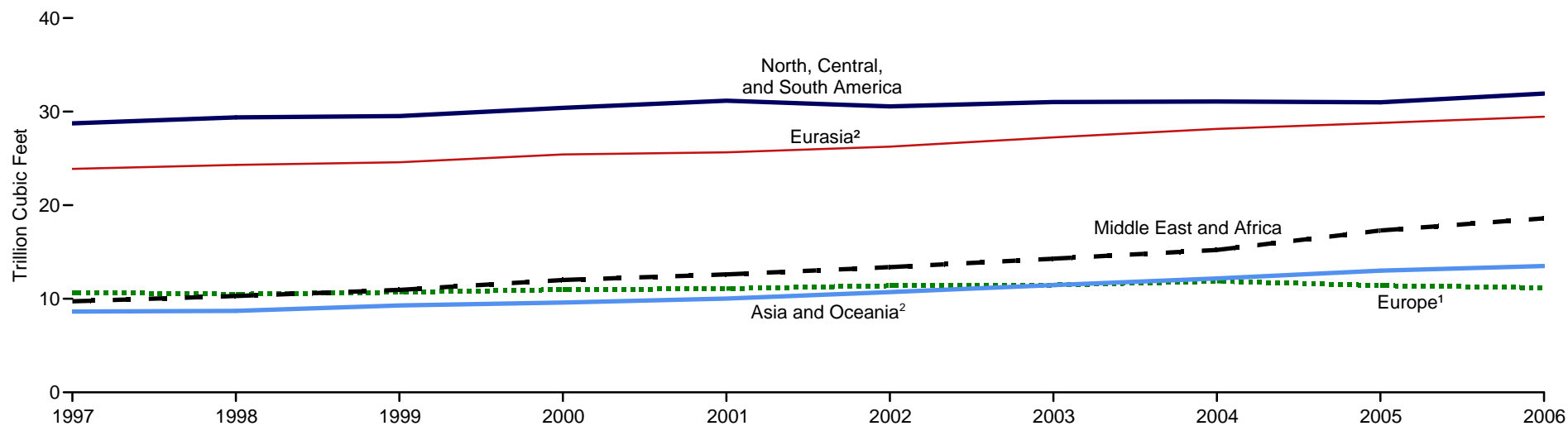
## World and Top Producing Countries, 1997-2006



## World Areas, 2006



## World Areas, 1997-2006



<sup>1</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>2</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 11.11.

**Table 11.11 World Dry Natural Gas Production, 1997-2006**  
(Trillion Cubic Feet)

Region and Country	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006 <sup>P</sup>
<b>North, Central, and South America</b>	<b>28.75</b>	<b>29.39</b>	<b>29.53</b>	<b>30.40</b>	<b>31.17</b>	<b>30.56</b>	<b>31.02</b>	<b>R31.08</b>	<b>31.00</b>	<b>31.93</b>
Argentina	.97	1.04	1.22	1.32	1.31	1.28	1.45	1.58	1.61	1.63
Canada	5.76	5.98	6.27	6.47	6.60	6.63	6.45	6.48	6.56	6.55
Mexico	1.17	1.27	1.29	1.31	1.30	1.33	1.40	1.46	1.52	1.71
United States	18.90	19.02	18.83	19.18	19.62	18.93	19.10	18.59	18.05	18.48
Venezuela	.99	1.11	.95	.96	1.12	1.00	.86	.96	1.01	1.01
Other	.96	.96	.98	1.15	1.22	1.39	1.76	2.00	2.24	2.56
<b>Europe<sup>1</sup></b>	<b>10.68</b>	<b>10.49</b>	<b>10.72</b>	<b>10.98</b>	<b>11.10</b>	<b>11.41</b>	<b>11.48</b>	<b>11.89</b>	<b>11.42</b>	<b>11.18</b>
Germany	.79	.77	.82	.78	.79	.79	.78	.73	.70	.69
Italy	.68	.67	.62	.59	.54	.52	.49	.46	.43	.39
Netherlands	2.99	2.84	2.65	2.56	2.75	2.68	2.57	3.04	2.78	2.73
Norway	1.62	1.63	1.76	1.87	1.95	2.41	2.70	2.95	3.07	3.20
Romania	.61	.52	.50	.48	.51	.47	.43	.42	.41	.42
United Kingdom	3.03	3.14	3.49	3.83	3.69	3.66	3.63	3.39	3.10	2.83
Other	.95	.92	.88	.88	.89	.88	.86	.92	.92	.92
<b>Eurasia<sup>2</sup></b>	<b>23.88</b>	<b>24.31</b>	<b>24.59</b>	<b>25.43</b>	<b>25.65</b>	<b>26.26</b>	<b>27.25</b>	<b>28.16</b>	<b>28.79</b>	<b>29.46</b>
Russia	20.17	20.87	20.83	20.63	20.51	21.03	21.77	22.39	22.62	23.17
Turkmenistan	.90	.47	.79	1.64	1.70	1.89	2.09	2.07	2.22	2.23
Ukraine	.64	.64	.63	.64	.64	.65	.69	.68	.69	.69
Uzbekistan	1.74	1.94	1.96	1.99	2.23	2.04	2.03	2.11	2.11	2.22
Other	.44	.40	.39	.53	.57	.65	.68	.91	1.15	1.16
<b>Middle East and Africa</b>	<b>9.74</b>	<b>10.30</b>	<b>10.95</b>	<b>12.01</b>	<b>12.61</b>	<b>13.39</b>	<b>R14.29</b>	<b>15.23</b>	<b>17.31</b>	<b>18.60</b>
Algeria	2.43	2.60	2.88	2.94	2.79	2.80	2.85	2.83	3.11	3.07
Egypt	.48	.49	.52	.65	.87	.88	1.06	1.15	1.50	1.86
Iran	1.66	1.77	2.04	2.13	2.33	2.65	2.86	2.96	3.56	3.71
Qatar	.61	.69	.78	1.03	.95	1.04	1.11	1.38	1.62	1.75
Saudi Arabia	1.60	1.65	1.63	1.76	1.90	2.00	2.12	2.32	2.52	2.59
United Arab Emirates	1.28	1.31	1.34	1.36	1.39	1.53	1.58	1.63	1.66	1.67
Other	1.67	1.79	1.76	2.15	2.39	2.48	R2.71	2.95	3.35	3.94
<b>Asia and Oceania<sup>1</sup></b>	<b>R8.64</b>	<b>R8.70</b>	<b>R9.29</b>	<b>R9.60</b>	<b>R10.02</b>	<b>R10.72</b>	<b>R11.47</b>	<b>R12.17</b>	<b>13.00</b>	<b>13.50</b>
Australia	1.06	1.10	1.12	1.16	1.19	1.23	1.27	1.31	1.44	1.51
China	.80	.82	.89	.96	1.07	1.15	1.21	1.44	1.76	2.07
India	.72	.76	.75	.79	.85	.93	.96	1.00	1.06	1.07
Indonesia	2.37	2.27	2.51	2.36	2.34	2.48	2.61	2.66	2.61	2.61
Malaysia	1.36	1.37	1.42	1.50	1.66	1.71	2.01	2.20	2.24	2.22
Pakistan	.70	.71	.78	.86	.77	.81	.89	.97	1.09	1.11
Other	R1.64	R1.68	R1.82	R1.97	R2.14	R2.40	R2.52	R2.59	2.81	2.91
<b>World</b>	<b>R81.70</b>	<b>R83.19</b>	<b>R85.08</b>	<b>R88.42</b>	<b>R90.56</b>	<b>R92.33</b>	<b>R95.52</b>	<b>R98.53</b>	<b>101.52</b>	<b>104.67</b>

<sup>1</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>2</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

R=Revised. P=Preliminary.

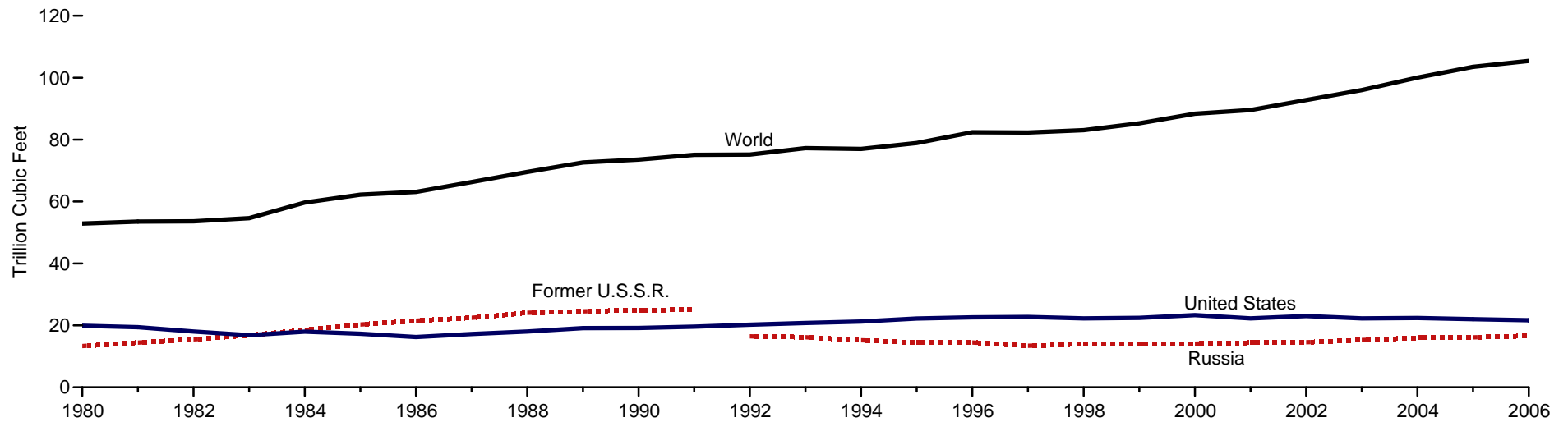
Note: Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

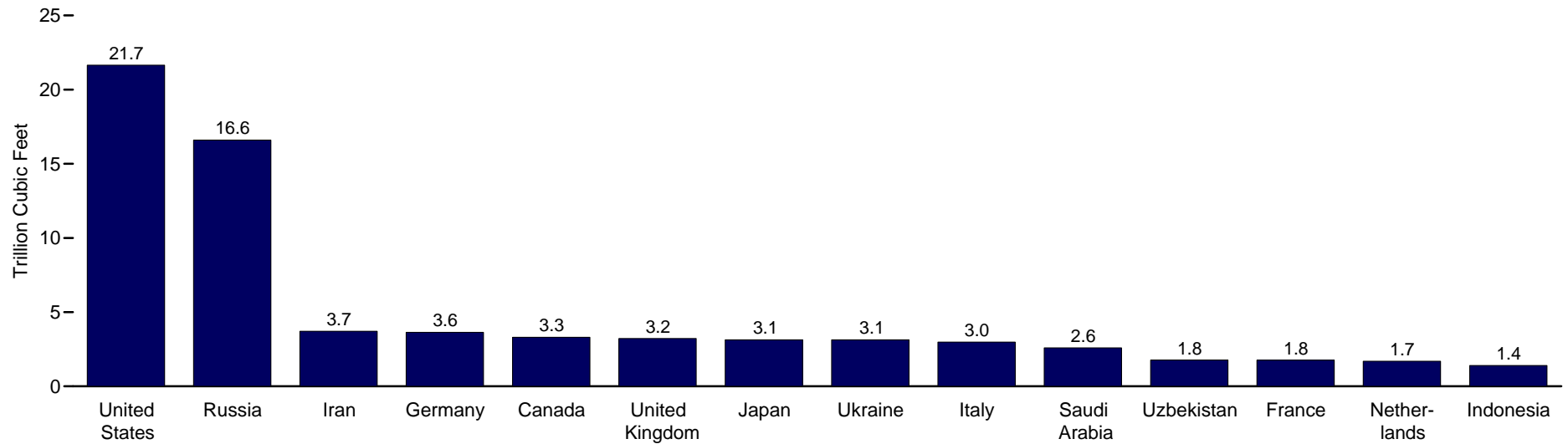
Sources: **United States:** Table 6.1. **All Other Data:** Energy Information Administration, International Energy Database, May 22, 2008.

**Figure 11.12 World Dry Natural Gas Consumption**

**World and Top Consuming Countries, 1980-2006**



**Top Consuming Countries, 2006**



Note: Because vertical scales differ, graphs should not be compared.

Source: Table 11.12.



**Table 11.12 World Dry Natural Gas Consumption, 1980-2006**  
(Billion Cubic Feet)

Year	Canada	France	Germany <sup>1</sup>	Indonesia	Iran	Italy	Japan	Nether-lands	Former U.S.S.R.	Russia	Saudi Arabia	Ukraine	United Kingdom	United States	Uzbek-istan	Other	World
1980	1,883	981	2,621	195	232	972	903	1,493	13,328	--	334	--	1,702	19,877	--	8,369	52,890
1981	1,842	1,003	2,513	232	155	942	925	1,421	14,440	--	564	--	1,740	19,404	--	8,333	53,513
1982	1,859	979	2,334	218	200	944	956	1,511	15,522	--	430	--	1,743	18,001	--	8,931	53,628
1983	1,863	999	2,397	302	310	967	1,020	1,451	16,822	--	418	--	1,815	16,835	--	9,427	54,626
1984	2,017	1,079	2,584	365	476	1,135	1,372	1,540	18,512	--	620	--	1,851	17,951	--	10,189	59,692
1985	2,165	1,110	2,546	513	600	1,151	1,468	1,624	20,302	--	716	--	1,991	17,281	--	10,777	62,244
1986	2,130	1,129	2,595	441	536	1,217	1,494	1,620	21,522	--	890	--	2,020	16,221	--	11,303	63,118
1987	2,112	1,038	2,733	542	565	1,346	1,543	1,672	22,462	--	946	--	2,079	17,211	--	12,062	66,312
1988	2,331	963	2,716	492	706	1,460	1,618	1,513	24,092	--	1,028	--	1,972	18,030	--	12,628	69,548
1989	2,427	984	2,835	546	784	1,581	1,731	1,550	24,529	--	1,052	--	1,951	19,119	--	13,549	72,638
1990	2,378	997	2,669	547	837	1,674	R2,028	1,535	24,961	--	1,077	--	2,059	19,174	--	13,611	R73,547
1991	2,400	1,131	2,776	557	811	1,775	R2,175	1,715	25,014	--	1,130	--	2,218	19,562	--	13,841	R75,106
1992	2,596	1,146	2,739	673	883	1,760	R2,177	1,669	--	16,482	1,201	3,503	2,170	20,228	1,095	16,868	R75,190
1993	2,691	1,158	2,830	850	938	1,801	R2,217	1,714	--	16,185	1,268	3,871	2,412	20,790	1,541	17,005	R77,269
1994	2,738	1,157	2,965	965	1,123	1,748	R2,334	1,654	--	15,214	1,331	3,327	2,542	21,247	1,229	17,400	R76,974
1995	2,872	1,183	3,172	1,061	1,243	1,921	R2,409	1,701	--	14,507	1,343	2,970	2,690	22,207	1,349	18,297	R78,925
1996	2,917	1,314	3,163	1,108	1,416	1,984	R2,524	1,874	--	14,504	1,460	2,935	3,182	22,609	1,434	19,939	R82,364
1997	2,887	1,300	3,012	1,125	1,663	2,048	R2,590	1,763	--	13,434	1,601	2,832	3,013	22,737	1,455	20,825	R82,286
1998	2,798	1,313	3,130	983	1,828	2,205	R2,676	1,752	--	14,045	1,653	2,606	3,072	22,246	1,409	21,357	R83,071
1999	3,108	1,383	3,151	1,124	2,112	2,396	R2,818	1,705	--	14,013	1,632	2,755	3,259	22,405	1,423	21,995	R85,278
2000	2,991	1,403	3,098	1,081	2,221	2,498	R2,914	1,725	--	14,130	1,759	2,779	3,373	23,333	1,511	23,538	R88,356
2001	3,121	1,471	3,239	1,182	2,478	2,505	R2,902	1,769	--	14,412	1,896	2,617	3,338	22,239	1,596	24,804	R89,571
2002	3,173	1,528	3,204	1,218	2,798	2,488	R3,100	1,767	--	14,567	2,002	2,779	3,379	23,007	1,642	R26,119	R92,774
2003	3,373	1,511	3,566	1,222	2,910	R2,743	R3,100	1,775	--	15,291	2,121	3,023	3,358	22,277	1,670	R28,072	R96,012
2004	R3,341	R1,690	3,576	1,309	3,021	2,847	R3,074	1,812	--	16,022	2,319	3,051	3,477	R22,389	1,773	R30,345	R100,047
2005	3,404	1,740	3,566	1,325	3,616	3,046	3,081	1,747	--	16,153	2,516	3,079	3,357	22,011	1,702	33,156	103,500
2006 <sup>P</sup>	3,307	1,759	3,637	1,398	3,712	2,984	3,137	1,688	--	16,598	2,594	3,136	3,225	21,653	1,769	34,836	105,434

<sup>1</sup> Through 1990, this is East and West Germany. Beginning in 1991, this is unified Germany.

R=Revised. P=Preliminary. -- = Not applicable.

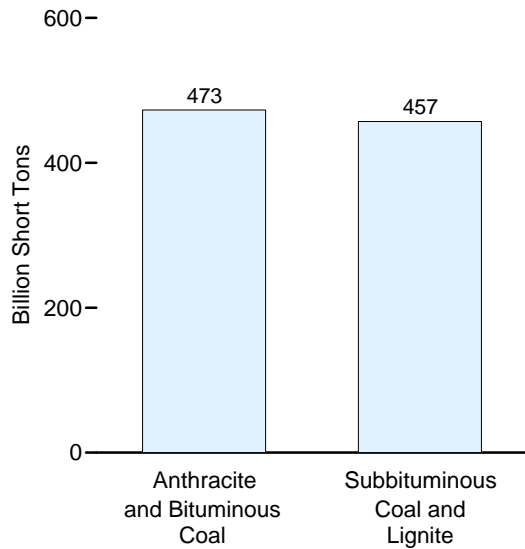
Note: Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

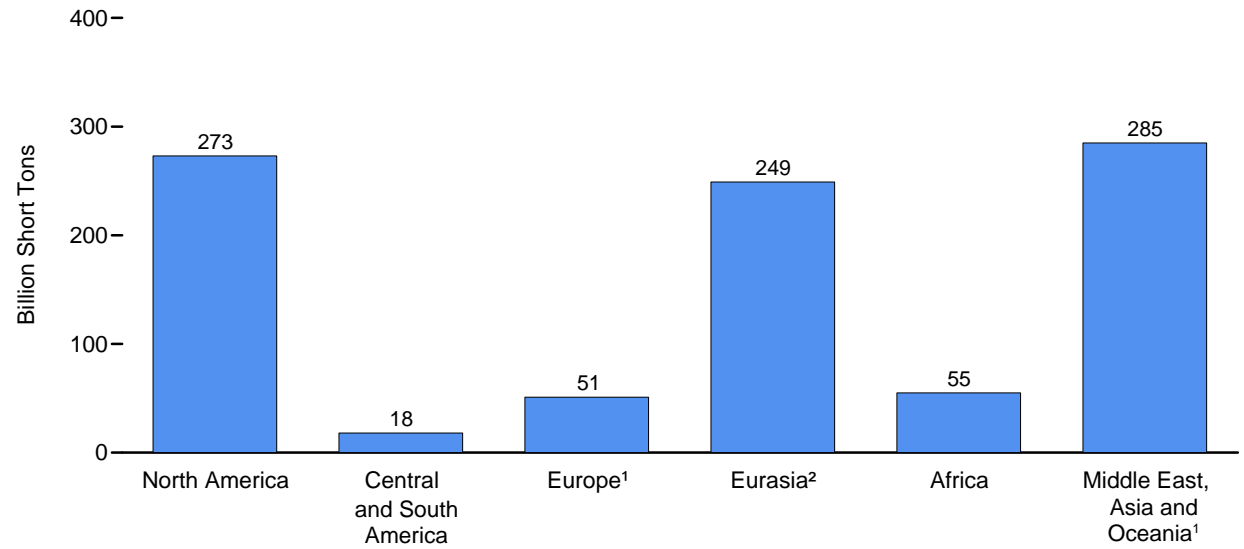
Sources: **United States:** Table 6.1. **All Other Data:** Energy Information Administration, International Energy Database, May 22, 2008.

**Figure 11.13 World Recoverable Reserves of Coal, 2005**

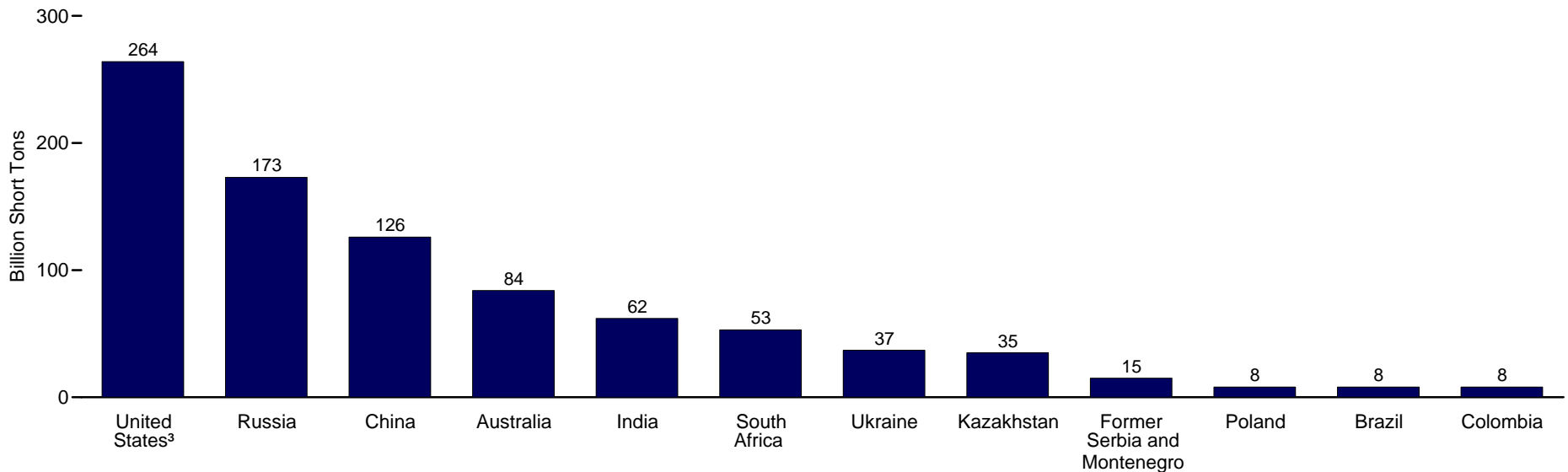
**By Type**



**By Region**



**Top Reserves Countries**



<sup>1</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>2</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>3</sup> U.S. reserves are at end of 2006, 1 year later than other data in this figure.

Notes: • Data are at end of year. • Because vertical scales differ, graphs should not be compared.

Source: Table 11.13.

**Table 11.13 World Recoverable Reserves of Coal, 2005**  
(Million Short Tons)

Region and Country	Anthracite and Bituminous Coal	Subbituminous Coal and Lignite	Total
<b>North America</b> .....	<b>126,776</b>	<b>145,793</b>	<b>272,569</b>
Canada .....	3,826	3,425	7,251
Greenland .....	0	202	202
Mexico .....	948	387	1,335
United States <sup>1</sup> .....	122,001	141,780	263,781
<b>Central and South America</b> .....	<b>7,969</b>	<b>9,973</b>	<b>17,941</b>
Brazil .....	0	7,791	7,791
Chile .....	34	1,268	1,302
Colombia .....	7,251	420	7,671
Peru .....	154	0	154
Other .....	529	494	1,023
<b>Europe</b> <sup>2</sup> .....	<b>9,296</b>	<b>41,485</b>	<b>50,781</b>
Bulgaria .....	6	2,195	2,200
Czech Republic .....	1,844	3,117	4,962
Former Serbia and Montenegro .....	7	15,299	15,306
Germany .....	168	7,227	7,394
Greece .....	0	4,299	4,299
Hungary .....	219	3,420	3,640
Poland .....	6,627	1,642	8,270
Romania .....	13	452	465
Turkey .....	0	2,000	2,000
United Kingdom .....	171	0	171
Other .....	241	1,834	2,076
<b>Eurasia</b> <sup>3</sup> .....	<b>103,186</b>	<b>145,931</b>	<b>249,117</b>
Kazakhstan .....	31,052	3,450	34,502
Russia .....	54,110	118,964	173,074
Ukraine .....	16,922	20,417	37,339
Uzbekistan .....	1,102	2,205	3,307
Other .....	0	895	895
<b>Africa</b> .....	<b>54,488</b>	<b>192</b>	<b>54,680</b>
Botswana .....	44	0	44
South Africa .....	52,911	0	52,911
Zimbabwe .....	553	0	553
Other .....	980	192	1,172
<b>Middle East, Asia, and Oceania</b> <sup>2</sup> .....	<b>171,522</b>	<b>113,813</b>	<b>285,334</b>
Australia .....	40,896	43,541	84,437
China .....	68,564	57,651	126,215
India .....	57,585	4,694	62,278
Indonesia .....	1,897	2,874	4,771
North Korea .....	331	331	661
Pakistan .....	1	2,184	2,185
Thailand .....	0	1,493	1,493
Other .....	2,249	1,046	3,295
<b>World</b> .....	<b>473,236</b>	<b>457,186</b>	<b>930,423</b>

<sup>1</sup> U.S. data are as of the end of 2006, 1 year later than the other data on this table.

<sup>2</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>3</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

Notes: • Data are at end of year. • World Energy Council data represent "proved recoverable reserves," which are the tonnage within the "proved amount in place" that can be recovered (extracted from the earth in raw form) under present and expected local economic conditions with existing, available technology. • The Energy Information Administration (EIA) does not certify the international reserves data, but reproduces the information as a matter of convenience for the reader. • U.S. reserves represent

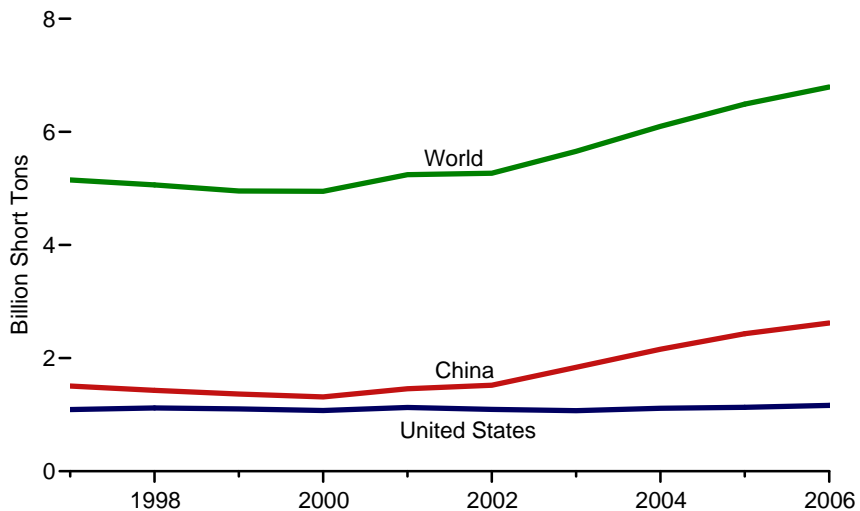
estimated recoverable reserves from the Demonstrated Reserve Base, which includes both measured and indicated tonnage. The U.S. term "measured" approximates the term "proved," used by the World Energy Council. The U.S. "measured and indicated" data have been combined and cannot be recaptured as "measured alone." • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

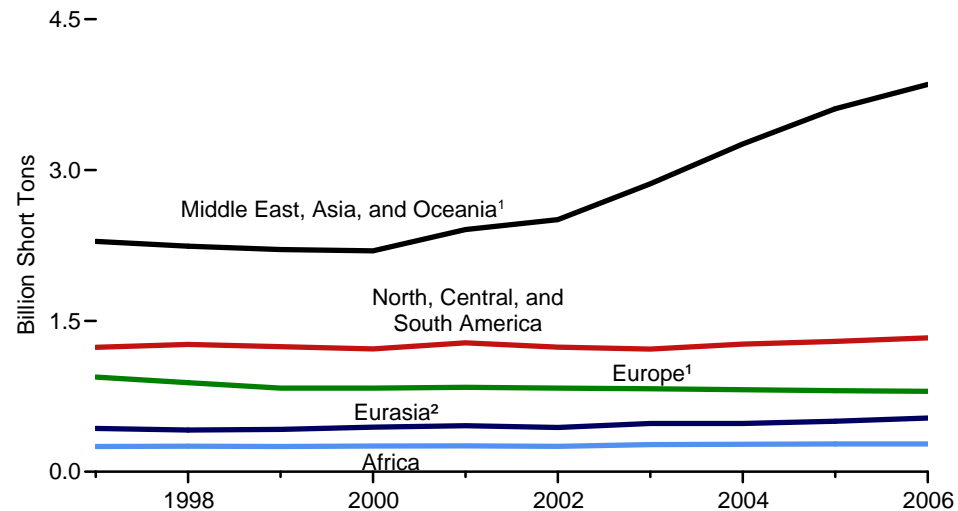
Sources: **United States:** Based on EIA, *Annual Coal Report 2006*, Table 15 and Unpublished File Data of the Coal Reserves Data Base (April 2007). **All Other Data:** World Energy Council, *2007 Survey of Energy Resources*.

**Figure 11.14 World Coal Production**

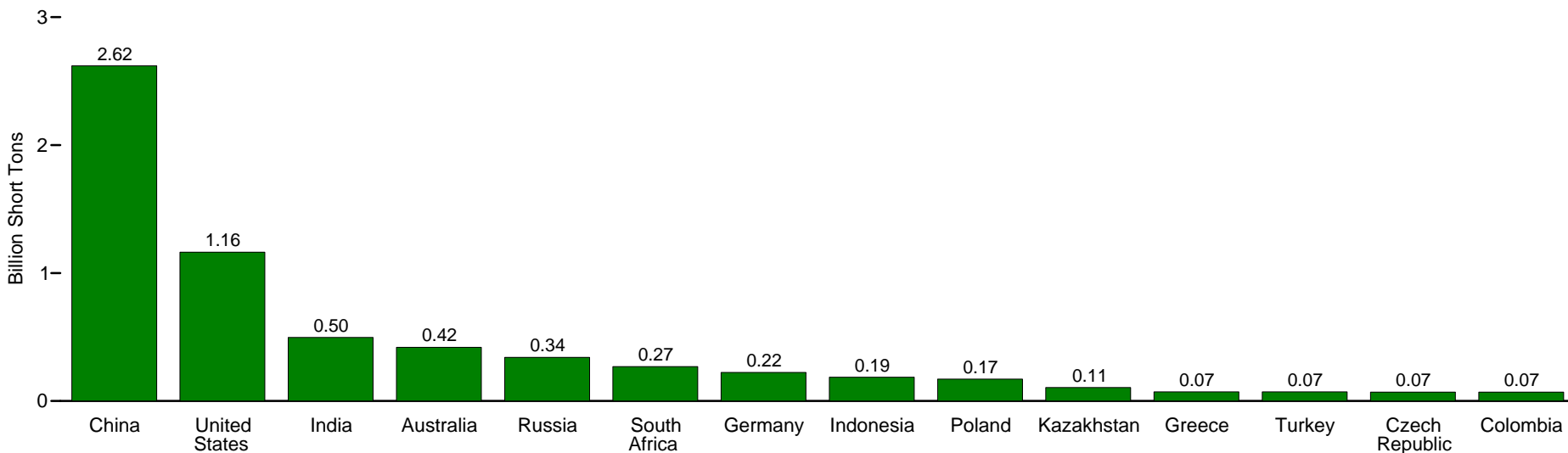
**World and Top Producing Countries, 1997-2006**



**World Areas, 1997-2006**



**Top Producing Countries, 2006**



<sup>1</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>2</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 11.14.

**Table 11.14 World Coal Production, 1997-2006**

(Million Short Tons)

Region and Country	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006 <sup>P</sup>
<b>North, Central, and South America</b> .....	<b>1,237</b>	<b>1,266</b>	<b>1,243</b>	<b>1,221</b>	<b>1,281</b>	<b>1,238</b>	<b>1,219</b>	<b>R1,269</b>	<b>1,296</b>	<b>1,331</b>
Canada .....	87	83	80	76	78	73	R69	73	72	69
Colombia .....	36	37	36	42	48	44	55	59	65	70
Mexico .....	11	12	11	13	13	12	11	R11	12	13
United States .....	1,090	1,118	1,100	1,074	1,128	1,094	1,072	1,112	1,131	1,163
Other .....	13	16	15	17	15	14	13	R14	16	16
<b>Europe</b> <sup>1</sup> .....	<b>R941</b>	<b>R886</b>	<b>R832</b>	<b>R832</b>	<b>R839</b>	<b>R832</b>	<b>R825</b>	<b>R816</b>	<b>806</b>	<b>799</b>
Bosnia and Herzegovina .....	6	8	7	9	8	10	9	R9	10	10
Bulgaria .....	33	33	28	29	29	29	30	29	27	28
Czech Republic .....	82	74	65	72	73	70	R71	R69	69	70
Former Serbia and Montenegro .....	47	49	36	41	40	42	44	45	45	43
Germany .....	252	233	226	226	227	233	229	R235	229	223
Greece .....	65	67	68	70	73	78	75	R77	76	72
Hungary .....	17	16	16	15	15	14	15	12	11	11
Macedonia .....	8	9	8	8	9	8	8	R8	8	6
Poland .....	221	197	R188	179	180	178	R180	178	175	171
Romania .....	37	29	25	32	37	34	36	35	34	39
Slovenia .....	6	5	5	5	5	5	5	5	5	5
Spain .....	R35	R34	R32	R31	R30	R29	R27	R27	26	24
Turkey .....	66	74	74	70	68	R60	R54	51	64	72
United Kingdom .....	52	44	40	34	35	33	31	27	22	20
Other .....	R14	13	R12	R10	10	10	R10	R7	5	5
<b>Eurasia</b> <sup>2</sup> .....	<b>R431</b>	<b>R414</b>	<b>R421</b>	<b>R443</b>	<b>R457</b>	<b>R440</b>	<b>R479</b>	<b>R479</b>	<b>502</b>	<b>534</b>
Estonia .....	15	14	12	13	13	14	16	15	16	16
Kazakhstan .....	80	78	66	82	R87	R81	R94	96	95	106
Russia .....	R268	R252	R270	R276	R285	R273	R296	R299	321	341
Ukraine .....	65	66	R69	69	68	68	71	R66	67	68
Other .....	4	4	4	3	4	4	3	R4	4	4
<b>Africa</b> .....	<b>251</b>	<b>254</b>	<b>250</b>	<b>256</b>	<b>257</b>	<b>252</b>	<b>270</b>	<b>R273</b>	<b>276</b>	<b>276</b>
South Africa .....	244	247	243	249	251	246	264	268	270	269
Zimbabwe .....	4	5	5	5	R5	4	4	4	4	4
Other .....	2	2	2	2	2	2	2	2	2	2
<b>Middle East, Asia, and Oceania</b> <sup>1</sup> .....	<b>2,291</b>	<b>2,243</b>	<b>R2,210</b>	<b>R2,197</b>	<b>2,408</b>	<b>R2,507</b>	<b>R2,864</b>	<b>R3,260</b>	<b>3,609</b>	<b>3,852</b>
Australia .....	292	317	321	338	363	377	377	391	414	420
China .....	1,507	1,429	1,365	1,314	1,459	1,521	1,838	2,156	2,430	2,620
India .....	338	343	356	370	389	R401	R426	R455	473	497
Indonesia .....	R61	68	81	84	102	114	127	R146	168	186
Mongolia .....	5	6	R5	6	R6	R6	R6	R8	8	8
North Korea .....	30	27	31	33	34	32	32	R33	35	36
South Korea .....	5	5	5	5	4	4	4	4	3	3
Thailand .....	26	22	20	20	22	22	21	22	24	22
Vietnam .....	13	12	11	13	14	18	18	R28	36	42
Other .....	15	15	15	15	16	13	14	R17	19	18
<b>World</b> .....	<b>R5,151</b>	<b>R5,062</b>	<b>R4,955</b>	<b>R4,949</b>	<b>R5,243</b>	<b>R5,268</b>	<b>R5,657</b>	<b>R6,097</b>	<b>6,490</b>	<b>6,793</b>

<sup>1</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>2</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

R=Revised. P=Preliminary.

Notes: • Coal includes anthracite, subanthracite, bituminous coal, subbituminous coal, lignite, and brown coal. • Production from Estonia is oil shale. • Totals may not equal sum of components due to

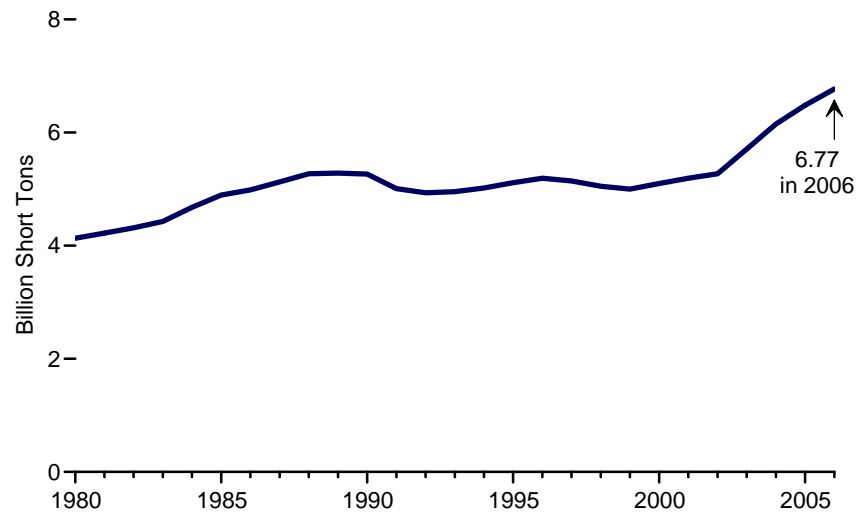
independent rounding.

 Web Page: For related information, see <http://www.eia.doe.gov/international>.

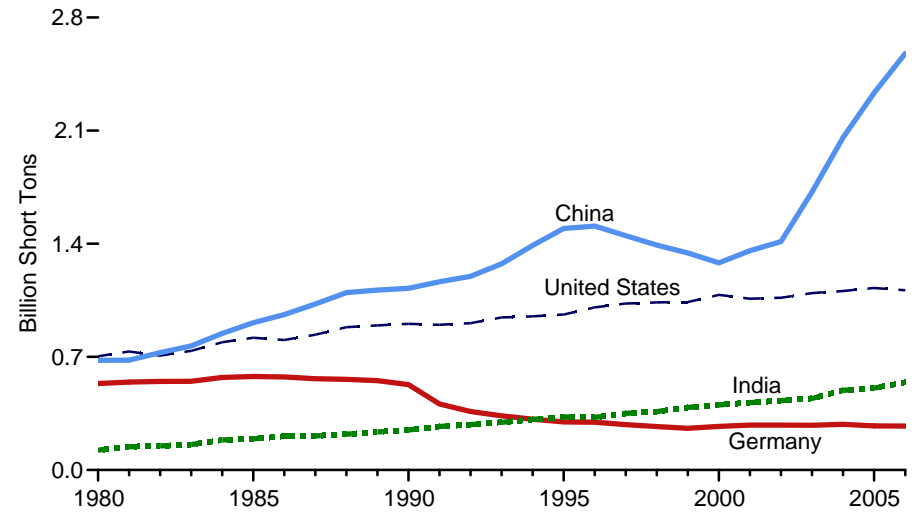
 Sources: **United States:** Table 7.1. **All Other Data:** Energy Information Administration, International Energy Database, May 1, 2008.

**Figure 11.15 World Coal Consumption**

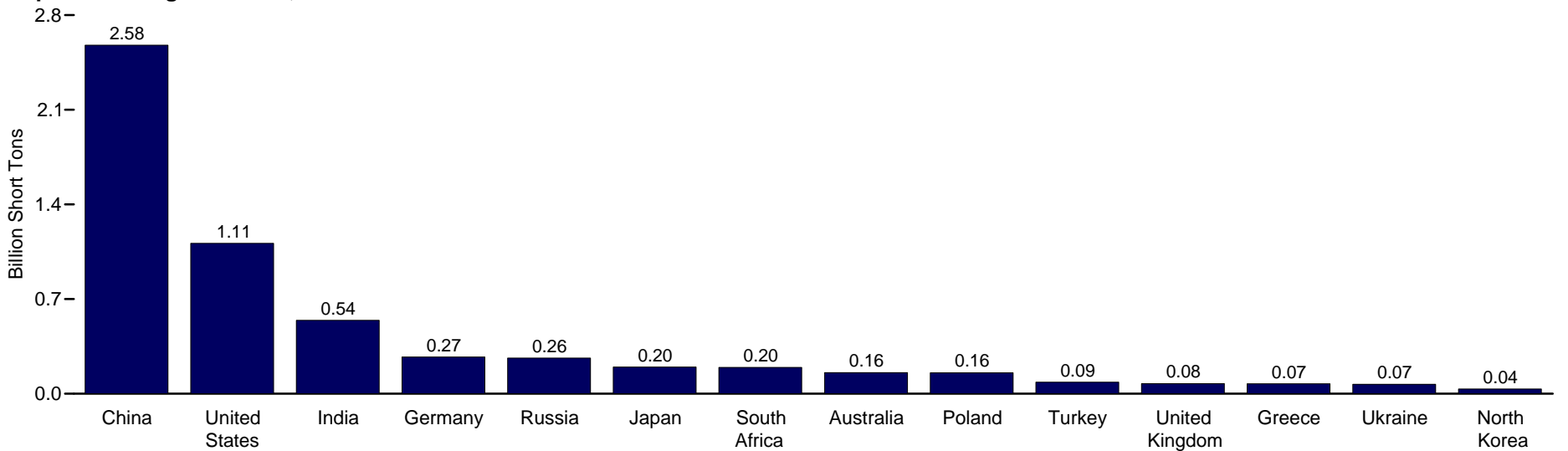
**World Total, 1980-2006**



**Selected Countries, 1980-2006**



**Top Consuming Countries, 2006**



Note: Because vertical scales differ, graphs should not be compared.

Source: Table 11.15.

**Table 11.15 World Coal Consumption, 1980-2006**  
(Million Short Tons)

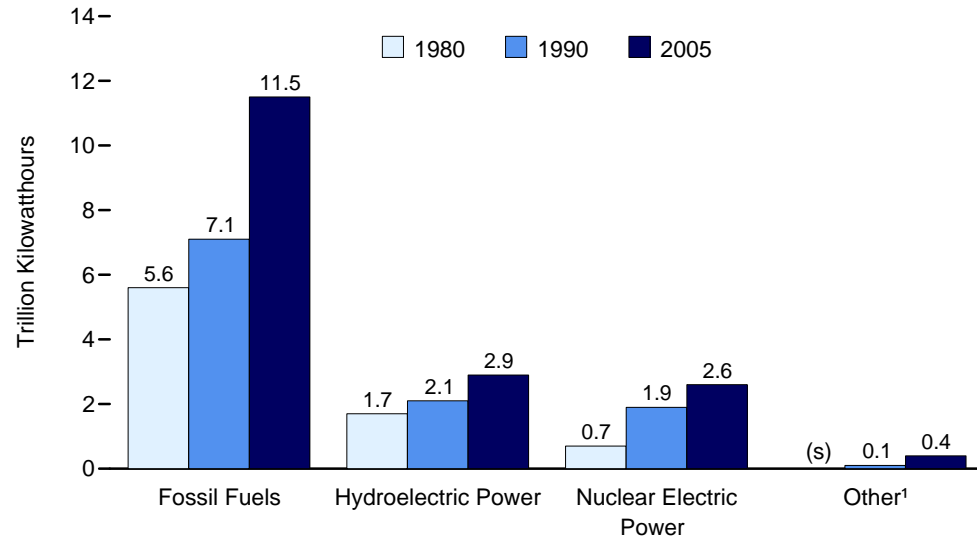
Year	Australia	China	Germany <sup>1</sup>	Greece	India	Japan	North Korea	Poland	Former U.S.S.R.	Russia	South Africa	Turkey	Ukraine	United Kingdom	United States	Other	World
1980	74	679	535	26	R123	98	49	221	751	--	105	R23	--	134	703	R611	R4,131
1981	R74	680	544	30	R144	106	51	200	748	--	116	R24	--	130	733	R640	R4,221
1982	R80	726	548	31	R150	R104	54	208	771	--	124	26	--	122	707	R666	R4,316
1983	R77	768	549	36	R158	R99	56	213	764	--	127	R30	--	123	737	R691	R4,428
1984	R80	845	573	36	R187	R111	57	227	770	--	137	35	--	88	791	R740	R4,677
1985	86	R911	579	42	R194	R117	60	238	779	--	142	46	--	116	818	R767	R4,896
1986	R85	962	576	44	209	R107	59	247	803	--	145	R55	--	123	804	R765	R4,985
1987	93	1,027	565	49	R211	R110	57	258	807	--	148	54	--	129	837	R782	R5,127
1988	96	1,098	561	56	R222	R122	58	253	821	--	151	R46	--	123	884	R780	R5,271
1989	104	1,113	553	59	R236	123	57	242	777	--	140	R61	--	126	895	R796	R5,283
1990	104	1,124	528	59	R248	R127	54	202	848	--	139	60	--	119	904	R749	R5,266
1991	R102	1,165	408	59	R270	129	52	202	672	--	144	64	--	118	899	R725	R5,008
1992	R108	1,199	362	62	R282	125	46	192	--	R347	147	66	R132	111	908	R847	R4,935
1993	R107	1,276	335	62	R296	127	42	R193	--	R332	146	60	R115	96	944	R824	R4,956
1994	110	1,390	314	66	R313	R136	39	184	--	R305	161	66	R92	91	951	802	R5,019
1995	112	1,495	298	64	R329	R141	36	185	--	R290	162	67	R95	79	962	R798	R5,113
1996	120	1,509	296	66	R326	142	31	189	--	R297	164	73	R74	77	1,006	R821	R5,192
1997	127	1,450	R281	66	R351	R148	30	182	--	R268	172	80	72	69	1,030	R818	R5,144
1998	138	1,392	269	68	R362	R141	27	168	--	R250	161	86	73	68	1,037	R810	R5,050
1999	141	1,343	258	68	R388	R153	31	162	--	R258	R169	84	72	61	1,039	R774	R4,999
2000	141	1,282	270	72	R403	169	33	R158	--	R264	R175	89	R72	R65	1,084	R819	R5,098
2001	141	1,357	278	75	417	R173	34	152	--	R254	R179	80	R70	70	1,060	R851	R5,191
2002	145	1,413	R278	77	R430	R179	32	149	--	R252	170	73	R71	64	1,066	R871	R5,272
2003	143	1,720	277	78	R443	185	33	155	--	R256	R186	71	R77	R70	1,095	R917	R5,706
2004	R146	R2,057	R283	R79	R494	R203	33	R154	--	R249	R199	R71	R69	67	1,107	R939	R6,150
2005	158	2,333	273	78	507	196	35	150	--	258	193	85	68	68	1,126	953	6,483
2006 <sup>P</sup>	156	2,578	272	74	543	198	35	155	--	264	195	86	70	75	1,112	959	6,771

<sup>1</sup> Through 1990, this is East and West Germany. Beginning in 1991, this is unified Germany.  
R=Revised. P=Preliminary. -- = Not applicable.  
Note: Totals may not equal sum of components due to independent rounding.

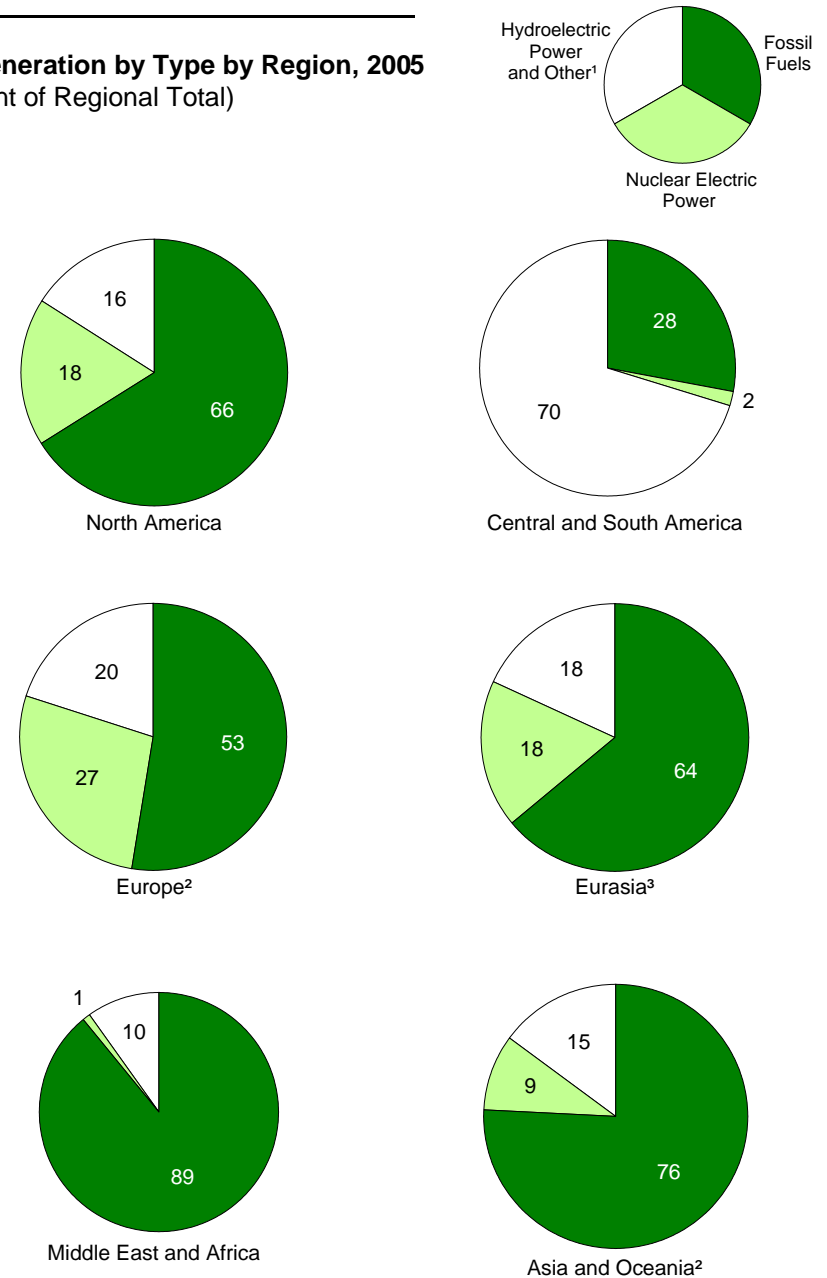
Web Page: For related information, see <http://www.eia.doe.gov/international>.  
Sources: **United States:** Table 7.1. **All Other Data:** Energy Information Administration, International Energy Database, May 2, 2008.

**Figure 11.16 World Net Generation of Electricity**

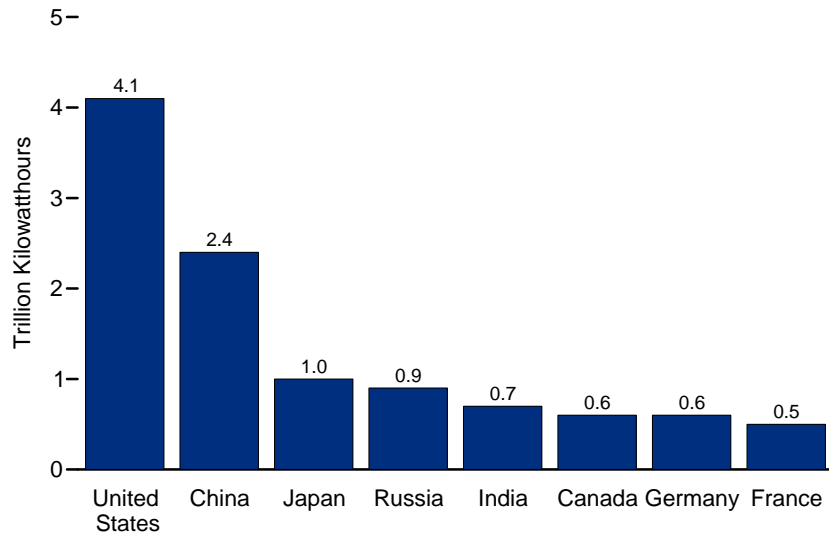
**Net Generation by Type, 1980, 1990, and 2005**



**Net Generation by Type by Region, 2005  
(Percent of Regional Total)**



**Top Net Generating Countries, 2005**



<sup>1</sup> Wood, waste, geothermal, solar, wind, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

<sup>2</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>3</sup> Includes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

(s)=Less than 0.05 trillion kilowatt-hours.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 11.16.



**Table 11.16 World Net Generation of Electricity by Type, 1980, 1990, and 2005**  
(Billion Kilowatthours)

Region and Country	Fossil Fuels			Nuclear Electric Power			Hydroelectric Power <sup>1</sup>			Total <sup>2</sup>		
	1980	1990	2005 <sup>P</sup>	1980	1990	2005 <sup>P</sup>	1980	1990	2005 <sup>P</sup>	1980	1990	2005 <sup>P</sup>
<b>North America</b> .....	<b>1,880.1</b>	<b>2,292.0</b>	<b>3,238.4</b>	<b>287.0</b>	<b>648.9</b>	<b>879.7</b>	<b>546.9</b>	<b>606.5</b>	<b>651.1</b>	<b>2,721.6</b>	<b>3,624.0</b>	<b>4,888.4</b>
Canada .....	79.8	101.9	152.2	35.9	69.2	87.4	251.0	293.9	359.9	367.9	468.7	609.6
Mexico .....	46.0	85.7	175.2	.0	2.8	10.3	16.7	23.2	27.5	63.6	116.6	222.4
United States .....	1,753.8	2,103.8	2,910.0	251.1	576.9	782.0	279.2	289.4	263.8	2,289.6	3,038.0	4,055.4
Other .....	.5	.7	1.0	.0	.0	.0	.0	.0	.0	.5	.7	1.0
<b>Central and South America</b> .....	<b>99.8</b>	<b>114.8</b>	<b>253.3</b>	<b>2.2</b>	<b>9.0</b>	<b>16.3</b>	<b>201.5</b>	<b>365.1</b>	<b>613.2</b>	<b>308.2</b>	<b>497.2</b>	<b>908.7</b>
Argentina .....	22.2	20.9	59.5	2.2	7.0	6.4	17.3	20.2	33.9	41.8	48.3	101.1
Brazil .....	7.5	8.1	34.1	.0	1.9	9.9	128.4	204.6	334.1	138.3	219.6	396.4
Paraguay .....	(s)	(s)	(s)	.0	.0	.0	.7	27.2	50.7	.8	27.2	50.7
Venezuela .....	17.6	21.0	24.9	.0	.0	.0	14.4	36.6	74.3	32.0	57.6	99.2
Other .....	52.4	64.8	134.9	.0	.0	.0	40.6	76.4	120.2	95.3	144.4	261.4
<b>Europe</b> <sup>3</sup> .....	<b>R 1,453.3</b>	<b>R1,441.0</b>	<b>1,837.7</b>	<b>229.6</b>	<b>761.3</b>	<b>957.3</b>	<b>458.0</b>	<b>474.5</b>	<b>539.6</b>	<b>R2,154.7</b>	<b>R 2,696.4</b>	<b>3,494.7</b>
Belgium .....	38.3	25.0	33.0	11.9	40.6	45.2	.3	.3	.3	50.8	66.5	80.8
Czech Republic .....	--	--	50.8	--	--	23.5	--	--	2.4	--	--	77.4
Finland .....	22.0	22.8	22.0	6.6	18.3	22.1	10.1	10.8	13.6	38.7	51.8	67.1
France .....	118.0	44.3	57.2	63.4	298.4	429.0	68.3	52.8	51.2	250.8	397.6	543.6
Germany .....	390.3	358.9	362.3	55.6	145.1	154.9	18.8	17.2	19.4	469.9	526.0	579.4
Italy .....	125.5	167.5	231.1	2.1	.0	.0	45.0	31.3	33.3	176.4	202.1	278.5
Netherlands .....	58.0	63.2	81.8	3.9	3.3	3.8	.0	.1	.1	62.9	67.7	94.3
Norway .....	.1	.2	.5	.0	.0	.0	82.7	119.9	134.4	82.9	120.4	135.8
Poland .....	111.1	125.0	142.1	.0	.0	.0	2.3	1.4	2.2	113.8	126.7	146.2
Romania .....	51.4	49.7	31.6	.0	.0	5.3	12.5	10.9	20.0	63.9	60.6	56.9
Spain .....	74.5	66.5	173.1	5.2	51.6	54.7	29.2	25.2	19.4	109.2	143.9	270.3
Sweden .....	10.1	3.2	3.7	25.3	64.8	68.6	58.1	71.8	72.1	94.3	141.5	153.2
Switzerland .....	.9	.6	1.0	12.9	22.4	22.2	32.5	29.5	30.9	46.4	53.0	56.1
Turkey .....	12.0	32.3	114.8	.0	.0	.0	11.2	22.9	39.2	23.3	55.2	154.2
United Kingdom .....	228.9	230.0	277.5	32.3	62.5	75.2	3.9	5.1	4.9	265.1	299.0	372.6
Other .....	R 212.1	R 251.6	255.3	10.3	54.4	52.9	83.2	75.4	96.3	R 306.3	R 384.3	428.2
<b>Eurasia</b> <sup>4</sup> .....	<b>1,037.1</b>	<b>1,204.1</b>	<b>843.6</b>	<b>72.9</b>	<b>201.3</b>	<b>235.8</b>	<b>184.0</b>	<b>230.7</b>	<b>244.7</b>	<b>1,294.0</b>	<b>1,636.1</b>	<b>1,327.3</b>
Kazakhstan .....	--	--	56.5	--	--	.0	--	--	7.8	--	--	64.2
Russia .....	--	--	588.4	--	--	140.2	--	--	172.9	--	--	904.4
Ukraine .....	--	--	79.7	--	--	83.3	--	--	12.4	--	--	175.4
Other .....	1,037.1	1,204.1	119.1	72.9	201.3	12.3	184.0	230.7	51.7	1,294.0	1,636.1	183.3
<b>Middle East</b> .....	<b>R 81.8</b>	<b>R 215.5</b>	<b>581.7</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>9.6</b>	<b>9.6</b>	<b>21.0</b>	<b>R 91.4</b>	<b>R 225.1</b>	<b>602.7</b>
Iran .....	15.7	49.8	154.4	.0	.0	.0	5.6	6.0	15.9	21.3	55.9	170.4
Saudi Arabia .....	20.5	64.9	165.6	.0	.0	.0	.0	.0	.0	20.5	64.9	165.6
Other .....	R 45.7	R 100.7	261.7	.0	.0	.0	4.1	3.6	5.0	R 49.7	R 104.3	266.7
<b>Africa</b> .....	<b>128.8</b>	<b>243.6</b>	<b>430.3</b>	<b>.0</b>	<b>8.4</b>	<b>12.2</b>	<b>60.1</b>	<b>54.9</b>	<b>88.7</b>	<b>188.9</b>	<b>307.3</b>	<b>533.2</b>
Egypt .....	8.6	31.5	89.8	.0	.0	.0	9.7	9.9	12.1	18.3	41.4	102.5
South Africa .....	92.1	146.6	214.9	.0	8.4	12.2	1.0	1.0	.9	93.1	156.0	228.3
Other .....	28.2	65.5	125.7	.0	.0	.0	49.4	44.0	75.6	77.6	109.9	202.4
<b>Asia and Oceania</b> <sup>3</sup> .....	<b>907.7</b>	<b>1,626.8</b>	<b>4,270.2</b>	<b>92.7</b>	<b>279.9</b>	<b>524.3</b>	<b>262.7</b>	<b>404.1</b>	<b>735.3</b>	<b>1,268.0</b>	<b>2,333.0</b>	<b>5,589.1</b>
Australia .....	74.5	131.8	218.4	.0	.0	.0	12.8	14.0	15.5	87.7	146.4	236.7
China .....	227.9	465.2	1,922.1	.0	.0	50.3	57.6	125.1	397.0	285.5	590.3	2,371.8
India .....	69.7	198.9	539.2	3.0	5.6	15.7	46.5	70.9	99.0	119.3	275.5	661.6
Indonesia .....	10.6	35.3	103.4	.0	.0	.0	2.2	6.7	10.7	12.8	43.0	120.3
Japan .....	381.6	524.0	645.5	78.6	192.2	278.4	87.8	88.4	77.4	549.1	817.3	1,024.6
South Korea .....	29.8	45.5	222.7	3.3	50.2	139.4	1.5	4.6	3.6	34.6	100.4	366.2
Taiwan .....	31.3	43.6	164.5	7.8	31.6	38.0	2.9	8.2	7.8	42.0	83.3	210.3
Thailand .....	12.3	38.7	115.7	.0	.0	.0	1.3	4.9	5.7	13.6	43.7	124.6
Other .....	70.1	143.8	338.6	(s)	.4	2.4	50.0	81.2	118.5	123.5	233.2	472.9
<b>World</b> .....	<b>5,588.5</b>	<b>7,137.9</b>	<b>11,455.3</b>	<b>684.4</b>	<b>1,908.8</b>	<b>2,625.6</b>	<b>1,722.9</b>	<b>2,145.4</b>	<b>2,893.5</b>	<b>8,026.9</b>	<b>R11,319.2</b>	<b>17,344.0</b>

<sup>1</sup> Excludes pumped storage, except for the United States.

<sup>2</sup> Wood, waste, geothermal, solar, wind, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies are included in total.

<sup>3</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>4</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

P=Preliminary. -- = Not applicable. (s)=Less than 0.05 billion kilowatthours.

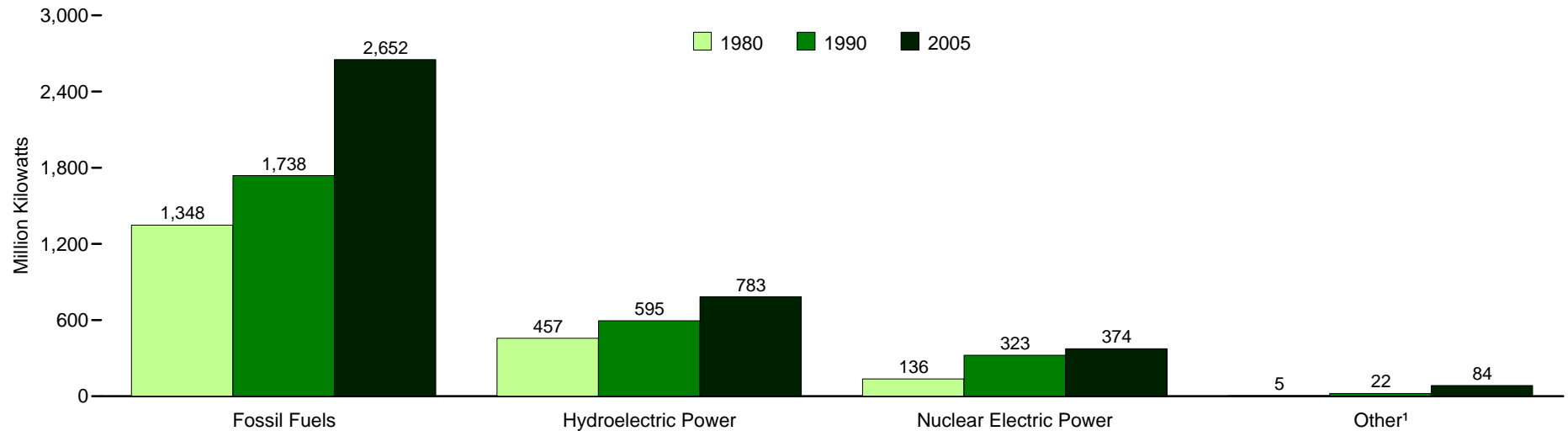
Note: Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

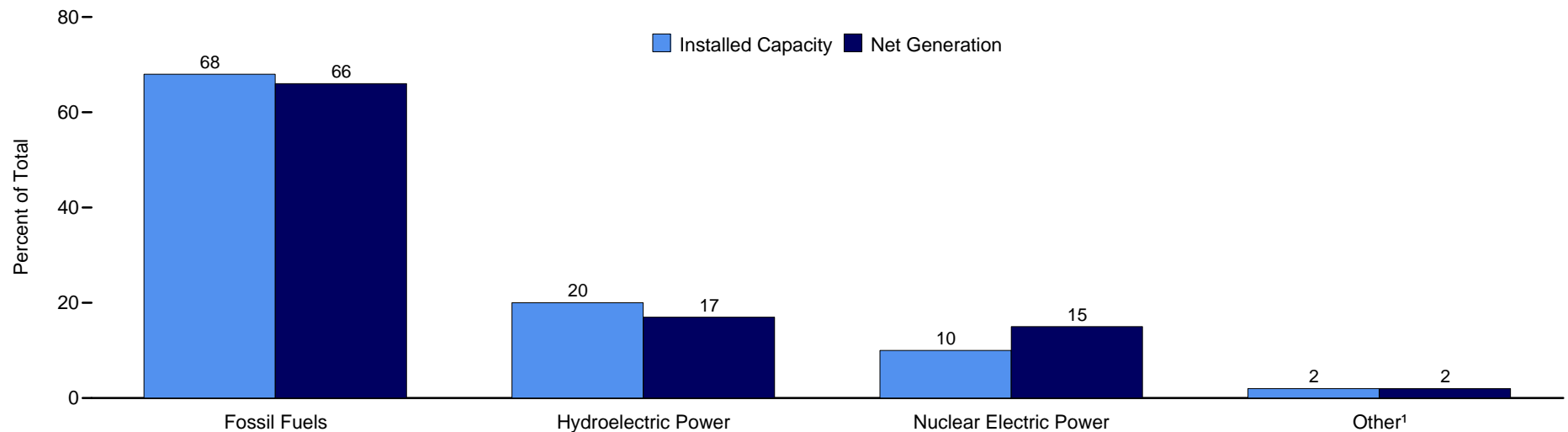
Sources: **United States:** Table 8.2a. **All Other Data:** Energy Information Administration, International Energy Database, April 24, 2008.

**Figure 11.17 World Electrical Installed Capacity by Type**

**Installed Capacity by Type, 1980, 1990, and 2005**



**Installed Capacity and Net Generation Shares of Totals by Type, 2005**



<sup>1</sup> Wood, waste, geothermal, solar, wind, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

Note: Shares are based on data prior to rounding for publication and may not sum exactly to 100 percent.

Sources: Tables 11.16 and 11.17.

**Table 11.17 World Electrical Installed Capacity by Type, 1980, 1990, and 2005**  
(Million Kilowatts)

Region and Country	Fossil Fuels			Nuclear Electric Power			Hydroelectric Power <sup>1</sup>			Total <sup>2</sup>		
	1980	1990	2005 <sup>P</sup>	1980	1990	2005 <sup>P</sup>	1980	1990	2005 <sup>P</sup>	1980	1990	2005 <sup>P</sup>
<b>North America</b> .....	<b>481.7</b>	<b>574.9</b>	<b>831.4</b>	<b>57.7</b>	<b>112.2</b>	<b>114.2</b>	<b>135.7</b>	<b>159.1</b>	<b>180.1</b>	<b>676.6</b>	<b>861.3</b>	<b>1,150.5</b>
Canada .....	26.6	28.0	35.1	5.9	11.9	12.8	47.9	57.9	70.7	80.8	98.9	120.3
Mexico .....	10.8	18.9	39.0	.0	.7	1.4	6.1	7.8	10.6	17.0	28.0	51.9
United States <sup>3</sup> .....	444.1	527.8	757.1	51.8	99.6	100.0	81.7	93.4	98.9	578.6	734.1	978.0
Other .....	.2	.3	.3	.0	.0	.0	.0	.0	.0	.2	.3	.3
<b>Central and South America</b> .....	<b>36.0</b>	<b>44.9</b>	<b>80.2</b>	<b>.4</b>	<b>1.7</b>	<b>3.0</b>	<b>43.0</b>	<b>84.1</b>	<b>125.0</b>	<b>81.2</b>	<b>132.8</b>	<b>214.9</b>
Argentina .....	8.0	9.5	17.3	.4	1.0	1.0	3.6	6.6	9.9	12.0	17.2	28.2
Brazil .....	4.1	4.7	13.8	.0	.7	2.0	27.5	44.8	69.0	33.4	52.1	90.7
Paraguay .....	.1	(s)	(s)	.0	.0	.0	.2	5.8	7.4	.2	5.8	7.4
Venezuela .....	5.8	8.5	8.3	.0	.0	.0	2.7	10.0	13.9	8.5	18.5	22.1
Other .....	18.0	22.1	40.8	.0	.0	.0	9.0	16.9	24.8	27.1	39.2	66.4
<b>Europe</b> <sup>4</sup> .....	<b>R 351.2</b>	<b>R 386.6</b>	<b>455.3</b>	<b>46.5</b>	<b>125.7</b>	<b>137.5</b>	<b>135.3</b>	<b>153.9</b>	<b>169.5</b>	<b>R 533.8</b>	<b>R 669.3</b>	<b>803.4</b>
Belgium .....	8.2	7.2	8.0	1.7	5.5	5.8	.7	.1	.1	10.6	12.8	14.3
Czech Republic .....	--	--	11.5	--	--	3.8	--	--	1.0	--	--	16.3
Finland .....	6.3	7.8	10.8	2.2	2.4	2.7	2.4	2.6	3.0	11.0	12.7	16.6
France .....	30.1	22.8	27.8	14.4	52.5	63.4	16.4	20.3	21.0	61.1	95.9	112.7
Germany .....	84.1	87.5	78.4	10.4	24.5	20.6	7.9	8.7	4.1	102.5	121.6	120.4
Italy .....	27.6	37.5	57.8	1.4	.0	.0	15.8	12.6	16.7	45.3	50.6	77.3
Netherlands .....	16.9	16.8	20.2	.5	.5	.4	.0	(s)	(s)	17.4	17.3	21.8
Norway .....	.2	.2	.1	.0	.0	.0	19.8	25.7	26.1	20.0	26.0	26.5
Poland .....	23.0	26.1	29.4	.0	.0	.0	.6	.6	.9	23.6	26.8	30.3
Romania .....	12.7	17.3	13.3	.0	.0	.7	3.5	5.6	6.3	16.1	22.9	20.3
Spain .....	13.9	19.9	35.5	1.1	7.5	7.6	13.5	11.6	15.6	28.5	39.1	66.9
Sweden .....	7.9	7.2	7.6	4.6	9.9	9.5	14.9	15.8	16.3	27.4	33.5	33.9
Switzerland .....	.6	.8	.5	1.9	3.0	3.2	11.5	11.6	13.3	14.0	15.3	17.5
Turkey .....	3.0	9.2	24.1	.0	.0	.0	2.1	6.6	12.6	5.1	15.8	36.8
United Kingdom .....	R 65.6	R 59.1	62.0	6.5	11.4	11.9	2.5	1.4	1.5	R 74.5	R 72.0	78.1
Other .....	R 51.2	R 67.2	68.2	1.7	8.6	8.1	23.8	30.7	30.9	R 76.8	R 106.9	113.6
<b>Eurasia</b> <sup>5</sup> .....	<b>201.9</b>	<b>240.8</b>	<b>238.1</b>	<b>12.5</b>	<b>37.9</b>	<b>38.6</b>	<b>52.3</b>	<b>65.0</b>	<b>68.5</b>	<b>266.7</b>	<b>343.7</b>	<b>345.4</b>
Kazakhstan .....	--	--	14.9	--	--	.0	--	--	2.2	--	--	17.2
Russia .....	--	--	148.3	--	--	23.2	--	--	45.5	--	--	217.2
Ukraine .....	--	--	36.2	--	--	13.8	--	--	4.8	--	--	54.9
Other .....	201.9	240.8	38.7	12.5	37.9	1.6	52.3	65.0	15.9	266.7	343.7	56.1
<b>Middle East</b> .....	<b>R 27.6</b>	<b>R 67.6</b>	<b>115.6</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>2.6</b>	<b>4.8</b>	<b>7.5</b>	<b>R 30.1</b>	<b>R 72.4</b>	<b>123.0</b>
Iran .....	9.4	15.5	37.9	.0	.0	.0	1.8	2.0	4.8	11.2	17.4	42.7
Saudi Arabia .....	5.9	19.1	30.5	.0	.0	.0	.0	.0	.0	5.9	19.1	30.5
Other .....	R 12.3	R 33.1	47.2	.0	.0	.0	.8	2.8	2.6	R 13.0	R 35.9	49.8
<b>Africa</b> .....	<b>30.5</b>	<b>57.4</b>	<b>82.8</b>	<b>.0</b>	<b>1.8</b>	<b>1.8</b>	<b>13.9</b>	<b>R 18.7</b>	<b>21.6</b>	<b>44.5</b>	<b>R 78.1</b>	<b>106.5</b>
Egypt .....	2.4	8.7	15.7	.0	.0	.0	2.4	2.7	2.7	4.9	11.5	18.5
South Africa .....	17.8	28.6	38.0	.0	1.8	1.8	.5	.6	.7	18.4	31.0	40.5
Other .....	10.3	20.1	29.1	.0	.0	.0	10.9	R 15.4	18.2	21.2	R 35.6	47.6
<b>Asia and Oceania</b> <sup>4</sup> .....	<b>218.9</b>	<b>365.4</b>	<b>849.0</b>	<b>18.5</b>	<b>43.9</b>	<b>79.1</b>	<b>74.4</b>	<b>109.3</b>	<b>211.1</b>	<b>312.5</b>	<b>520.2</b>	<b>1,149.7</b>
Australia .....	17.6	27.8	40.8	.0	.0	.0	6.2	7.3	7.8	23.8	35.1	49.3
China .....	45.6	92.1	329.5	.0	.0	6.8	20.3	34.6	105.2	65.9	126.6	442.4
India .....	20.7	51.9	99.8	.9	1.6	2.8	11.8	18.3	31.0	33.3	71.8	137.6
Indonesia .....	3.9	9.6	17.9	.0	.0	.0	1.0	3.0	4.6	4.9	12.7	23.2
Japan .....	94.3	119.1	177.5	15.7	29.4	47.1	19.6	20.4	22.0	129.8	169.1	247.9
South Korea .....	6.5	11.0	43.8	.6	7.6	16.7	.8	1.3	1.6	7.9	20.0	62.2
Taiwan .....	6.9	10.2	27.6	1.3	5.1	5.1	1.4	2.6	4.5	9.6	17.9	37.4
Thailand .....	2.6	6.0	22.4	.0	.0	.0	1.3	2.3	3.5	3.8	8.3	25.9
Other .....	20.8	37.7	89.7	.1	.1	.5	12.1	19.6	30.9	33.6	58.7	123.7
<b>World</b> .....	<b>1,347.8</b>	<b>1,737.6</b>	<b>2,652.3</b>	<b>135.5</b>	<b>323.1</b>	<b>374.2</b>	<b>457.2</b>	<b>R 594.9</b>	<b>783.2</b>	<b>1,945.5</b>	<b>R 2,677.8</b>	<b>3,893.3</b>

<sup>1</sup> Excludes pumped storage, except for the United States.

<sup>2</sup> Wood, waste, geothermal, solar, wind, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies are included in total.

<sup>3</sup> Net summer capability.

<sup>4</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>5</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

P=Preliminary. -- = Not applicable. (s)=Less than 0.05 million kilowatts.

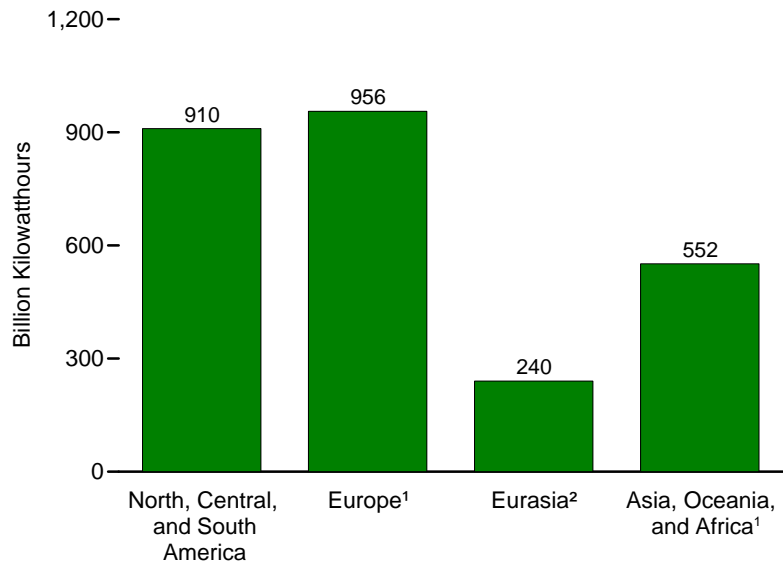
Note: Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

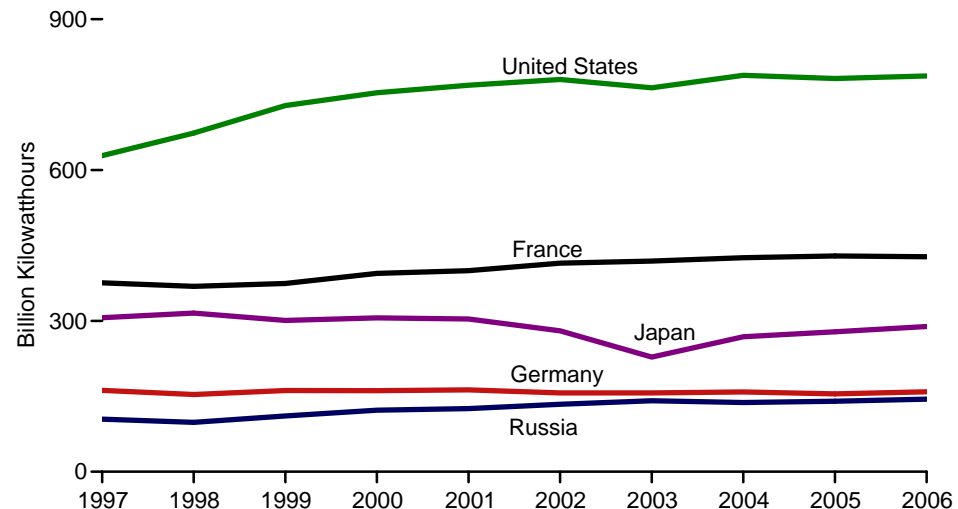
Source: **United States:** Table 8.11a **All Other Data:** Energy Information Administration, International Energy Database, April 24, 2008.

**Figure 11.18 World Nuclear Electricity Net Generation**

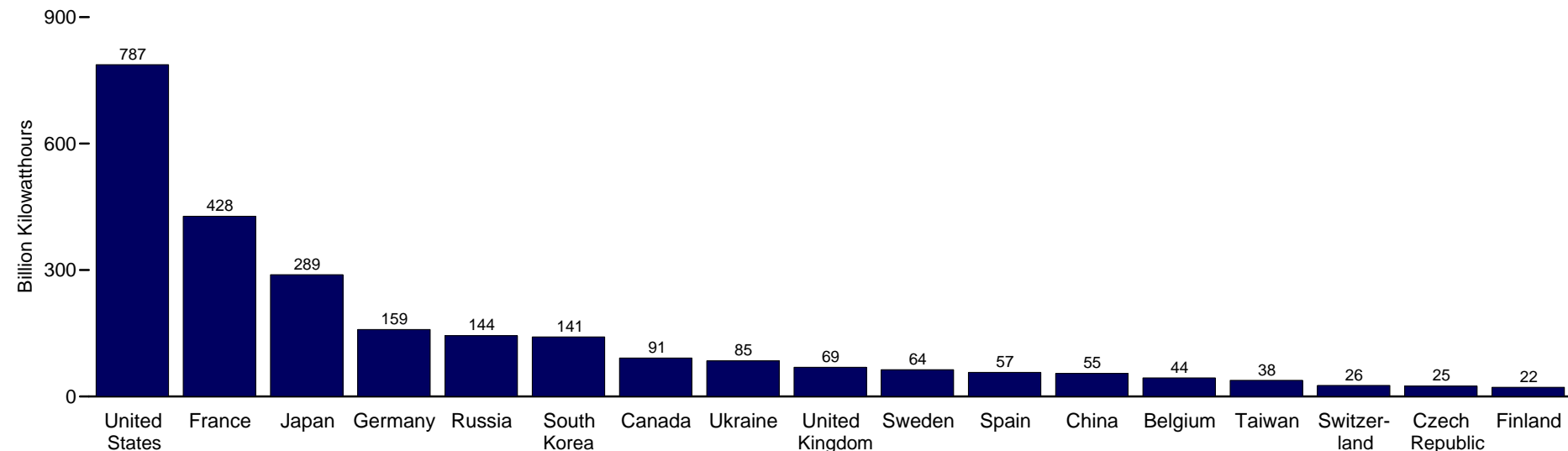
**By Region, 2006**



**Top Net Generating Countries, 1997-2006**



**Top Net Generating Countries, 2006**



<sup>1</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.  
<sup>2</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

Note: Because vertical scales differ, graphs should not be compared.  
 Source: Table 11.18.

**Table 11.18 World Nuclear Electricity Net Generation, 1997-2006**  
(Billion Kilowatthours)

Region and Country	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>North America</b> .....	<b>716.4</b>	<b>750.2</b>	<b>807.6</b>	<b>830.9</b>	<b>850.0</b>	<b>861.1</b>	<b>844.9</b>	<b>883.1</b>	<b>879.7</b>	<b>888.9</b>
Canada .....	77.9	67.7	69.8	69.2	72.9	71.8	71.1	85.9	87.4	91.4
Mexico .....	9.9	8.8	9.5	7.8	8.3	9.3	10.0	8.7	10.3	10.3
United States .....	628.6	673.7	728.3	753.9	768.8	780.1	763.7	788.5	782.0	787.2
<b>Central and South America</b> .....	<b>10.5</b>	<b>10.3</b>	<b>10.5</b>	<b>10.9</b>	<b>20.8</b>	<b>19.2</b>	<b>20.4</b>	<b>18.9</b>	<b>16.3</b>	<b>20.9</b>
Argentina .....	7.5	7.1	6.7	6.0	6.5	5.4	7.0	7.3	6.4	7.2
Brazil .....	3.0	3.1	3.8	4.9	14.3	13.8	13.4	11.6	9.9	13.8
<b>Europe</b> <sup>1</sup> .....	<b>902.8</b>	<b>897.7</b>	<b>911.3</b>	<b>914.9</b>	<b>944.1</b>	<b>953.7</b>	<b>957.0</b>	<b>966.6</b>	<b>957.3</b>	<b>955.6</b>
Belgium .....	45.0	43.9	46.6	45.7	44.0	45.0	45.0	44.9	45.2	44.2
Bulgaria .....	16.4	16.1	15.0	17.3	18.2	20.2	16.0	15.6	17.3	18.1
Czech Republic .....	12.5	12.5	12.7	12.9	14.0	17.8	24.6	25.0	23.5	24.7
Finland .....	19.0	20.8	21.8	21.4	21.6	21.2	21.6	21.6	22.1	21.7
France .....	375.7	368.6	374.5	394.4	400.0	414.9	419.0	425.8	429.0	427.7
Germany .....	161.8	153.6	161.5	161.1	162.7	156.6	156.8	158.7	154.9	158.9
Hungary .....	13.3	13.3	13.4	13.5	13.4	13.3	10.5	11.3	13.1	12.9
Netherlands .....	2.3	3.6	3.6	3.7	3.8	3.7	3.8	3.6	3.8	3.3
Romania .....	5.1	4.9	4.8	5.2	5.0	5.1	4.5	5.3	5.3	5.2
Slovakia .....	10.5	10.8	12.5	15.7	16.2	17.1	17.0	16.2	16.8	17.1
Slovenia .....	4.8	4.8	4.5	4.5	5.0	5.3	5.0	5.2	5.6	5.3
Spain .....	52.5	56.0	55.9	59.1	60.5	59.9	58.8	60.4	54.7	57.1
Sweden .....	66.4	69.9	69.5	54.5	68.5	64.2	64.0	73.6	68.6	63.6
Switzerland .....	24.1	24.5	24.5	25.1	25.5	25.9	26.1	25.6	22.2	26.4
United Kingdom .....	93.2	94.5	90.4	80.8	85.4	83.6	84.3	73.7	75.2	69.2
<b>Eurasia</b> <sup>2</sup> .....	<b>192.5</b>	<b>183.4</b>	<b>189.7</b>	<b>203.4</b>	<b>209.8</b>	<b>223.0</b>	<b>234.4</b>	<b>236.7</b>	<b>235.8</b>	<b>240.2</b>
Armenia .....	1.4	1.4	2.1	1.8	2.0	2.1	1.8	2.2	2.5	2.4
Kazakhstan .....	.3	.1	(s)	.0	.0	.0	.0	.0	.0	.0
Lithuania .....	10.9	12.9	9.4	8.0	10.8	13.4	14.7	14.3	9.8	8.7
Russia .....	104.5	98.3	110.9	122.5	125.4	134.1	141.2	137.5	140.2	144.3
Ukraine .....	75.4	70.6	67.4	71.1	71.7	73.4	76.7	82.7	83.3	84.8
<b>Africa</b> .....	<b>12.6</b>	<b>13.6</b>	<b>12.8</b>	<b>13.0</b>	<b>10.7</b>	<b>12.0</b>	<b>12.7</b>	<b>14.3</b>	<b>12.2</b>	<b>10.1</b>
South Africa .....	12.6	13.6	12.8	13.0	10.7	12.0	12.7	14.3	12.2	10.1
<b>Asia and Oceania</b> <sup>1</sup> .....	<b>436.5</b>	<b>460.8</b>	<b>461.2</b>	<b>476.8</b>	<b>481.3</b>	<b>476.2</b>	<b>448.4</b>	<b>495.4</b>	<b>524.3</b>	<b>541.5</b>
China .....	11.4	13.5	14.1	15.9	16.6	25.2	41.7	47.9	50.3	54.8
India .....	10.5	10.6	11.5	14.1	18.2	17.8	16.4	15.0	15.7	15.6
Japan .....	306.2	315.7	300.8	305.9	303.9	280.3	228.0	268.3	278.4	288.9
Pakistan .....	.4	.4	.1	.4	2.0	1.8	1.8	1.9	2.4	2.5
South Korea .....	73.2	85.2	97.9	103.5	106.5	113.1	123.2	124.2	139.4	141.3
Taiwan .....	34.8	35.4	36.9	37.0	34.1	38.0	37.4	37.9	38.0	38.3
<b>World</b> .....	<b>2,271.3</b>	<b>2,316.0</b>	<b>2,393.1</b>	<b>2,449.9</b>	<b>2,516.7</b>	<b>2,545.3</b>	<b>2,517.8</b>	<b>2,615.0</b>	<b>2,625.6</b>	<b>2,657.3</b>

<sup>1</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>2</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.  
(s) = Less than 0.05 billion kilowatthours.

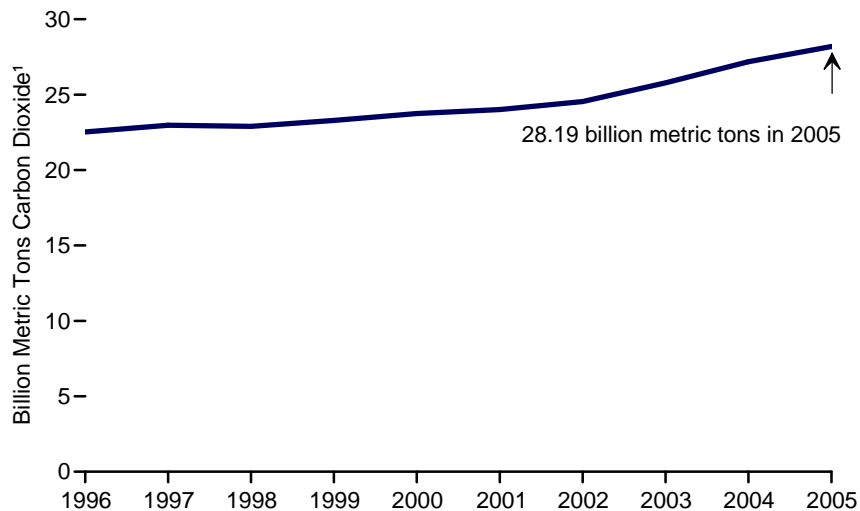
Note: Totals may not equal sum of components due to independent rounding.

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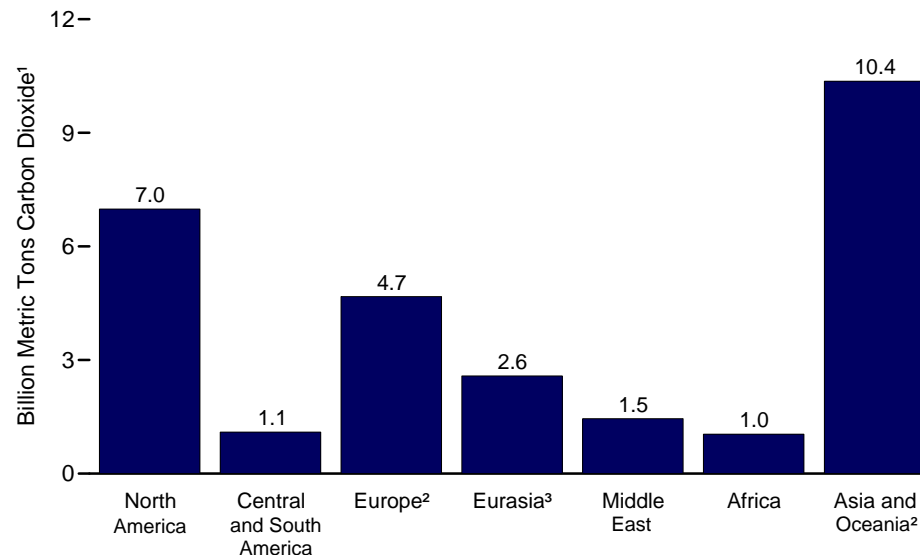
Sources: **United States:** Table 8.2a. **All Other Data:** Energy Information Administration, "International Energy Annual 2006" (June-July 2008), Table 2.7.

**Figure 11.19 World Carbon Dioxide Emissions From Energy Consumption**

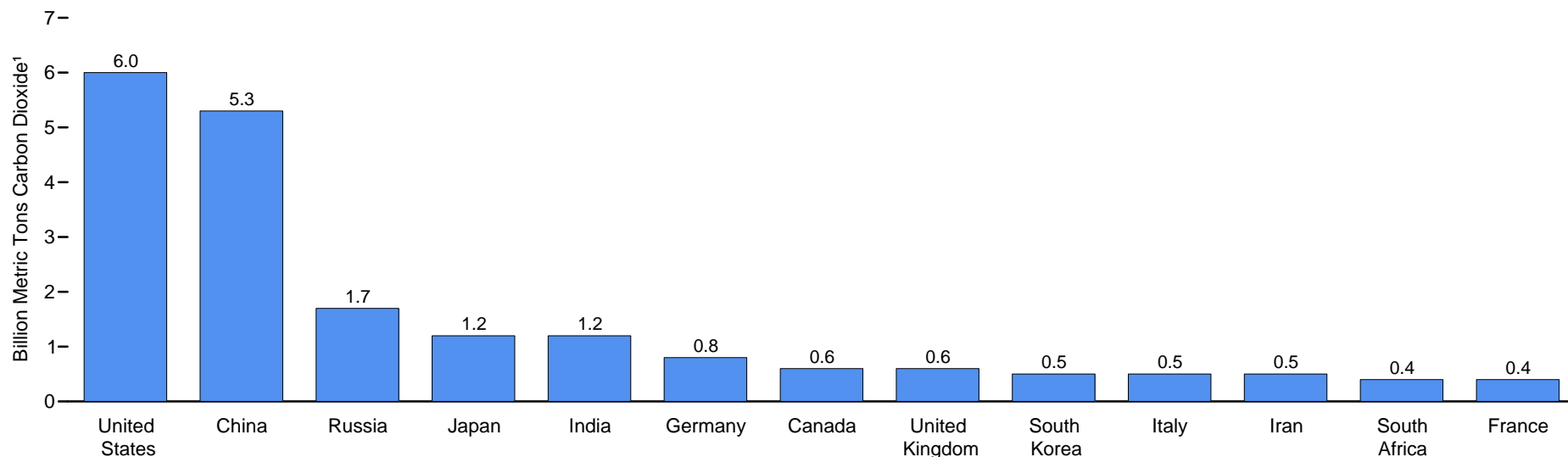
**World, 1996-2005**



**World by Region, 2005**



**Top Countries, 2005**



<sup>1</sup> Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

<sup>2</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>3</sup> Includes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

Notes: • Data include carbon dioxide emissions from fossil-fuel energy consumption and natural gas venting and flaring. • Because vertical scales differ, graphs should not be compared.

Source: Table 11.19.

**Table 11.19 World Carbon Dioxide Emissions From Energy Consumption, 1996-2005**  
(Million Metric Tons of Carbon Dioxide <sup>1</sup>)

Region and Country	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005 <sup>P</sup>
<b>North America</b>	<b>R6,325</b>	<b>6,436</b>	<b>6,499</b>	<b>R6,576</b>	<b>R6,764</b>	<b>R6,667</b>	<b>R6,735</b>	<b>R6,817</b>	<b>R6,945</b>	<b>6,988</b>
Canada	R517	R543	R548	R561	R558	R566	R586	R613	R626	631
Mexico	R330	347	R369	R361	R381	377	R384	R389	R382	398
United States <sup>2</sup>	R5,476	R5,544	R5,581	R5,653	R5,823	R5,723	R5,763	R5,813	R5,935	5,957
Other	1	1	1	1	1	1	1	1	1	1
<b>Central and South America</b>	<b>R896</b>	<b>R941</b>	<b>R967</b>	<b>R978</b>	<b>R988</b>	<b>R1,011</b>	<b>R997</b>	<b>R1,014</b>	<b>R1,057</b>	<b>1,096</b>
Argentina	129	R130	135	139	137	127	119	133	R140	147
Brazil	R303	R321	R320	334	R342	R346	R344	R343	R353	361
Venezuela	R133	134	R142	R133	R134	148	146	133	R142	151
Other	R331	R356	370	R372	375	R389	R388	R405	R422	438
<b>Europe <sup>3</sup></b>	<b>R4,429</b>	<b>R4,446</b>	<b>R4,434</b>	<b>R4,380</b>	<b>R4,445</b>	<b>R4,503</b>	<b>R4,468</b>	<b>R4,622</b>	<b>R4,666</b>	<b>4,675</b>
Belgium	137	141	R147	138	144	142	138	145	R144	136
France	388	R381	R406	R400	R399	403	R399	R405	R412	415
Germany	R883	R881	R863	832	R848	869	R841	R865	R867	844
Italy	420	420	R438	437	444	442	R448	470	R466	467
Netherlands	R227	R238	R240	R237	249	R276	R257	R259	R268	270
Poland	R341	R333	311	324	290	274	272	R285	R289	285
Romania	R126	119	100	91	R93	101	99	99	R99	99
Spain	R242	R269	R279	R305	R323	R328	R345	R353	R374	387
Turkey	R168	181	R183	180	200	183	193	204	R209	230
United Kingdom	R585	R562	R558	R551	R555	R565	R556	R567	R576	577
Other	R913	R920	R910	R883	R900	R922	R920	R969	R962	965
<b>Eurasia <sup>4</sup></b>	<b>R2,404</b>	<b>R2,236</b>	<b>R2,227</b>	<b>R2,310</b>	<b>R2,340</b>	<b>R2,323</b>	<b>R2,343</b>	<b>R2,458</b>	<b>R2,511</b>	<b>2,578</b>
Kazakhstan	140	118	R115	131	R135	R146	R150	R159	R169	198
Russia	R1,602	R1,482	R1,483	R1,558	R1,580	R1,570	R1,569	R1,627	R1,669	1,696
Ukraine	R362	340	R329	R323	323	R314	R322	R353	R342	343
Uzbekistan	103	103	101	R103	106	111	113	114	121	118
Other	R197	R193	200	194	196	182	188	R204	210	223
<b>Middle East</b>	<b>R928</b>	<b>R982</b>	<b>R1,013</b>	<b>R1,055</b>	<b>R1,081</b>	<b>R1,114</b>	<b>R1,168</b>	<b>R1,231</b>	<b>1,320</b>	<b>1,451</b>
Iran	261	R289	R293	315	R319	332	R362	R384	R404	451
Saudi Arabia	R249	R254	R257	R263	R289	R300	R310	345	R386	412
Other	R418	R439	R464	R477	R473	R482	R496	R502	R531	588
<b>Africa</b>	<b>R836</b>	<b>R861</b>	<b>R850</b>	<b>R864</b>	<b>R881</b>	<b>R914</b>	<b>R912</b>	<b>R960</b>	<b>R1,010</b>	<b>1,043</b>
Egypt	R108	111	114	R115	119	R132	R133	R142	R152	162
South Africa	349	380	362	R373	R383	R391	R377	R409	R438	424
Other	R379	R369	R374	R376	R379	391	402	R408	R420	457
<b>Asia and Oceania <sup>3</sup></b>	<b>R6,713</b>	<b>R7,068</b>	<b>R6,910</b>	<b>R7,128</b>	<b>R7,252</b>	<b>R7,480</b>	<b>R7,924</b>	<b>R8,678</b>	<b>R9,677</b>	<b>10,362</b>
Australia	298	327	R334	351	353	367	R375	R375	R381	407
China	R2,878	R3,069	R2,968	R2,932	R2,913	R3,051	R3,376	R3,983	R4,753	5,323
India	R820	R862	R898	R954	R994	R1,017	R1,015	R1,029	R1,129	1,166
Indonesia	235	245	239	263	R271	297	R311	315	R342	359
Japan	R1,105	R1,138	R1,098	R1,147	1,190	R1,178	1,186	R1,234	R1,242	1,230
Malaysia	101	R102	102	106	111	124	138	R149	R164	156
South Korea	R399	R429	R370	R427	R440	R446	465	R479	R488	500
Taiwan	R196	R208	R220	R221	R249	245	269	286	R282	284
Thailand	169	R176	161	170	R161	171	186	R204	R224	234
Other	R511	R513	R519	R557	R571	R585	R603	R623	R672	704
<b>World</b>	<b>R22,531</b>	<b>R22,969</b>	<b>R22,901</b>	<b>R23,290</b>	<b>R23,751</b>	<b>R24,012</b>	<b>R24,546</b>	<b>R25,780</b>	<b>R27,186</b>	<b>28,193</b>

<sup>1</sup> Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44. For data in million metric tons carbon equivalent, see the "International Energy Annual 2005" (June-October 2007), Table H.1.

<sup>2</sup> Data for the United States differ from those in Table 12.1 because U.S. data in this table include emissions from bunker fuels consumption; exclude emissions from geothermal power generation, cement production and other industrial processes, and municipal solid waste combustion; and exclude data for the U.S. Territories.

<sup>3</sup> Excludes countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

<sup>4</sup> Includes only countries that were part of the former U.S.S.R. See "U.S.S.R." in Glossary.

R=Revised. P=Preliminary.

Notes: • Data in this table do not include recent updates (see the Energy Information Administration's "International Energy Annual 2006"). • Data include carbon dioxide emissions from fossil-fuel energy consumption and natural gas venting and flaring. • See Note 2, "World Carbon Dioxide Emissions," at end of section. • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/international>.

Source: Energy Information Administration, "International Energy Annual 2005" (June-October 2007), Table H.1co2.

## International Energy

**Note 1. World Primary Energy Production.** World primary energy production includes production of crude oil (including lease condensate), natural gas plant liquids, dry natural gas, and coal; and net electricity generation from nuclear electric power, hydroelectric power, wood, waste, geothermal, solar, and wind. Data for the United States also include other renewable energy. Crude oil production is measured at the wellhead and includes lease condensate. Natural gas plant liquids are products obtained from processing natural gas at natural gas processing plants, including natural gas plants, cycling plants, and fractionators. Dry natural gas production is that amount of natural gas produced that is available to be marketed and consumed as a gas. Coal (anthracite, bituminous coal, subbituminous coal, and lignite) production is the sum of sales, mine consumption, issues to miners, and issues to coking, briquetting, and other ancillary plants at mines. Coal production data include quantities extracted from surface and underground mines and normally exclude wastes removed at mines or associated preparation plants. The data on generation of electricity from nuclear electric power, hydroelectric power, wood, waste, geothermal, solar, and wind include data reported on a net basis, thus

excluding electricity that is generally used by the electric power plant for its own operating purposes or electricity losses in the transformers that are considered integral parts of the station.

**Note 2. World Carbon Dioxide Emissions.** In Table 11.19, data for carbon dioxide emissions include anthropogenic (human-caused) emissions from the consumption of petroleum, natural gas, and coal, and also from natural gas venting and flaring. They do not include carbon dioxide emissions from geothermal power generation, cement production and other industrial processes, and municipal solid waste combustion. Fossil-fuel consumption and natural gas flaring statistics for each country have been reduced to account for the fraction of fuels not combusted and, in the case of petroleum, for the fraction of sequestration of non-fuel uses. Carbon dioxide emissions have been determined by applying carbon emission coefficients to the adjusted consumption and flaring data. Carbon emission coefficients for petroleum and natural gas consumption and natural gas flaring are from Energy Information Administration (EIA), *Documentation for Emissions of Greenhouse Gases in the United States 2005* (October 2007), Table 6.1. Carbon emission coefficients for coal consumption are from EIA, *Emissions of Greenhouse Gases in the United States 1985-1990* (October 1993), Table 11.