

Table 7. Energy consumption per US\$ of GDP for all countries in 2000, by primary energy source.

Numbers calculated from energy data in *International Energy Annual 2001 Edition* released by the Energy Information Administration of the U.S. Department of Energy and from economic data in *World Development Indicators 2002* published by the World Bank.

*indicates countries in the poorest 10% (only countries with reported GNI/pop are considered).

**indicates countries in the richest 10%

	petroleum	natural gas	coal	hydroelectricity	nuclear	renewables	total
	(B T U s p e r U S \$ G D P)						
Low-income countries							
Afghanistan	no data	no data	no data	no data	0.00	0.00	no data
Angola	6760.40	2280.19	0.00	349.31	0.00	0.00	9389.90
Armenia	5857.22	26016.04	29.78	3179.52	3283.00	0.00	38365.56
Azerbaijan	53013.53	37950.61	0.00	984.90	0.00	0.00	91949.04
Bangladesh	2979.09	7271.98	266.21	73.87	0.00	0.00	10591.15
Benin	10694.39	0.00	0.00	315.05	0.00	0.00	11009.45
Bhutan	4103.78	0.00	2575.05	13148.61	0.00	0.00	19827.44
Burkina Faso*	6960.13	0.00	0.00	127.76	0.00	0.00	7087.88
Burundi*	7808.95	0.00	0.00	728.94	0.00	0.00	8537.89
Cambodia*	2257.94	0.00	0.00	53.65	0.00	0.00	2311.59
Cameroon	5222.48	0.00	2.14	1310.34	0.00	0.00	6534.97
Central African Republic	4652.04	0.00	0.00	294.48	0.00	0.00	4946.52
Chad*	1944.77	0.00	0.00	0.00	0.00	0.00	1944.77
Comoros	6482.94	0.00	0.00	33.83	0.00	0.00	6516.78
Congo	2791.84	0.00	0.00	373.92	0.00	0.00	3165.75
Congo, DRC	no data	0.00	no data	no data	0.00	0.00	no data
Cote d'Ivoire	7162.19	5088.16	0.00	636.36	0.00	0.00	12886.71
Eritrea*	18349.00	0.00	0.00	0.00	0.00	0.00	18349.00
Ethiopia*	7253.47	0.00	0.00	870.99	0.00	10.69	8135.15
Georgia	20514.41	14106.43	169.35	6540.95	0.00	0.00	41331.15
Ghana	14526.13	0.00	10.98	4303.20	0.00	0.00	18840.32
Guinea	5562.11	0.00	0.00	470.58	0.00	0.00	6032.68
Guinea-Bissau*	21747.06	0.00	0.00	0.00	0.00	0.00	21747.06
Haiti	5202.42	0.00	0.00	236.10	0.00	0.00	5438.53
India	9495.75	1738.74	13540.47	550.64	105.07	11.77	25442.43
Indonesia	13798.09	7055.85	2755.49	200.95	0.00	56.09	23866.47
Kenya	11187.19	0.00	122.92	432.62	0.00	134.54	11877.27
Kyrgyzstan	28274.01	51824.66	17038.45	35486.57	0.00	0.00	132623.69
Laos	3256.82	0.00	11.12	1997.80	0.00	0.00	5265.73
Lesotho	3176.68	0.00	0.00	0.00	0.00	0.00	3176.68
Liberia	no data	0.00	0.00	0.00	0.00	0.00	no data
Madagascar*	6381.43	0.00	39.20	457.96	0.00	0.00	6878.59
Malawi*	6320.19	0.00	190.38	1610.28	0.00	0.00	8120.85
Mali*	3409.40	0.00	0.00	389.40	0.00	0.00	3798.79
Mauritania	51843.06	0.00	121.93	87.66	0.00	0.00	52052.65
Moldova	34662.59	58513.37	2808.17	842.11	0.00	0.00	96826.23
Mongolia	17874.33	0.00	97600.76	0.00	0.00	0.00	115475.09
Montserrat	no data	0.00	0.00	0.00	0.00	0.00	no data
Mozambique*	4245.12	564.46	182.21	6254.40	0.00	0.00	11246.19
Myanmar	no data	no data	no data	no data	0.00	0.00	no data
Nepal*	5530.58	0.00	1475.98	999.03	0.00	0.00	8005.59
Nicaragua	20445.96	0.00	0.00	296.42	0.00	286.45	21028.84
Niger*	5561.02	0.00	1571.41	0.00	0.00	0.00	7132.42
Nigeria*	12191.77	5784.89	30.52	477.78	0.00	0.00	18484.97
Niue	no data	0.00	0.00	0.00	0.00	0.00	no data
North Korea	no data	0.00	no data	no data	0.00	0.00	no data
Pakistan	12079.18	13882.29	1268.23	943.08	21.05	0.00	28193.84
Papua New Guinea	7982.73	1017.53	4.98	670.88	0.00	0.00	9676.11
Reunion	no data	0.00	0.00	no data	0.00	0.00	no data
Rwanda*	5896.90	0.00	0.00	209.34	0.00	0.00	6106.24
Sao Tome & Principe	26944.62	0.00	0.00	734.66	0.00	0.00	27679.28
Senegal	13789.03	403.94	0.00	0.00	0.00	0.00	14192.97
Sierra Leone*	19719.91	0.00	0.00	0.00	0.00	0.00	19719.91
Solomon Is.	8961.69	0.00	0.00	0.00	0.00	0.00	8961.69
Somalia	no data	0.00	0.00	0.00	0.00	0.00	no data
St. Helena	no data	0.00	0.00	0.00	0.00	0.00	no data
Sudan	7634.79	0.00	0.00	347.24	0.00	0.00	7982.03
Tajikistan*	41022.53	44540.36	2358.00	47291.99	0.00	0.00	135212.88
Tanzania	3653.16	0.00	10.52	848.50	0.00	0.00	4512.18
The Gambia	8659.12	0.00	0.00	0.00	0.00	0.00	8659.12
Togo	15834.67	0.00	0.00	5.60	0.00	0.00	15840.27
Uganda	2830.07	0.00	0.00	876.69	0.00	0.00	3706.75
Ukraine	16924.75	87423.25	50858.76	1217.71	7633.24	0.00	164057.71
Uzbekistan	36882.78	197162.17	6213.39	2591.26	0.00	0.00	242849.59
Vietnam	11434.55	1295.71	3912.92	1569.48	0.00	0.00	18212.65
Western Sahara	no data	0.00	0.00	0.00	0.00	0.00	no data
Yemen	17360.32	0.00	0.00	0.00	0.00	0.00	17360.32
Zambia	7526.57	0.00	1220.61	9000.84	0.00	0.00	17748.03
Zimbabwe	6994.07	0.00	10880.26	1490.83	0.00	0.00	19365.16

	petroleum	natural gas	coal	hydroelectricity	nuclear	renewables	total
	(BTUs per US\$ GDP)						

Middle-income countries

Albania	11436.30	282.36	172.17	4138.52	0.00	0.00	16029.35
Algeria	7889.41	13620.95	285.50	3.46	0.00	0.00	21799.32
American Samoa	no data	0.00	0.00	0.00	0.00	0.00	no data
Argentina	3657.24	4115.70	45.13	342.18	71.73	2.40	8234.38
Bahrain	7699.21	37970.30	0.00	0.00	0.00	0.00	45669.52
Belarus	15482.25	23112.47	374.30	2.28	0.00	11.63	38982.92
Belize	11697.97	0.00	0.00	332.97	0.00	0.00	12030.94
Bolivia	11848.50	5373.15	0.00	805.36	0.00	24.74	18051.76
Bosnia & Herzegovina	8926.88	2410.91	38407.34	3919.05	0.00	0.00	53664.18
Botswana	5389.82	0.00	3548.21	0.00	0.00	0.00	8938.03
Brazil	7420.68	559.86	621.83	1730.43	28.33	68.80	10429.92
Bulgaria	17495.49	16075.08	51431.29	889.41	4916.54	3.99	90811.79
Cape Verde	5497.21	0.00	0.00	0.00	0.00	0.00	5497.21
Chile	6820.80	2608.14	1244.98	914.44	0.00	37.08	11625.45
China	8249.78	785.25	17790.49	602.14	43.75	4.24	27475.66
Colombia	7013.59	2476.47	973.75	1334.06	0.00	21.97	11819.83
Costa Rica	4668.68	0.00	0.54	1210.12	0.00	203.16	6082.49
Croatia	9168.11	5140.16	822.92	1195.99	0.00	0.18	16327.37
Cuba	no data	no data	no data	no data	0.00	no data	no data
Czech Republic	6580.14	6423.58	23794.49	117.05	868.33	46.20	37829.79
Djibouti	41347.93	0.00	0.00	0.00	0.00	0.00	41347.93
Dominica	4449.43	0.00	0.00	442.56	0.00	0.00	4891.99
Dominican Republic	12959.44	0.00	89.49	130.91	0.00	6.25	13196.19
Ecuador	19567.87	363.34	0.00	1836.08	0.00	0.00	21767.29
Egypt	11586.75	6546.08	216.12	477.42	0.00	0.00	18826.38
El Salvador	5876.55	0.00	0.86	300.62	0.00	198.26	6376.30
Equatorial Guinea	2329.53	790.02	0.00	5.09	0.00	0.00	3124.64
Estonia	8961.04	7959.62	6006.82	2.75	0.00	8.25	22938.47
Fiji	7353.83	0.00	279.53	963.74	0.00	0.00	8597.10
Gabon	5022.27	572.86	0.00	415.47	0.00	0.00	6010.60
Grenada	4754.60	0.00	0.00	0.00	0.00	0.00	4754.60
Guatemala	6368.91	0.00	215.44	407.00	0.00	144.78	7136.13
Guyana	30971.03	0.00	0.00	23.98	0.00	0.00	30995.01
Honduras	9664.76	0.00	431.86	1287.84	0.00	0.00	11384.46
Hungary	6461.92	9312.98	6766.32	13.17	1008.11	7.71	23570.21
Iran	24564.06	21171.40	379.26	118.43	0.00	0.00	46233.16
Iraq	no data	no data	0.00	no data	0.00	0.00	no data
Jamaica	18086.57	0.00	136.02	52.59	0.00	43.82	18319.00
Jordan	24721.13	1228.00	0.00	15.97	0.00	0.00	25965.10
Kazakhstan	21118.95	26926.83	50203.29	1396.71	0.00	0.00	99645.77
Kiribati	7917.96	0.00	0.00	0.00	0.00	0.00	7917.96
Latvia	11600.29	7902.42	300.27	1333.00	0.00	0.00	21135.99
Lebanon	13055.33	0.00	230.47	51.78	0.00	0.00	13337.58
Libya	no data	no data	no data	0.00	0.00	0.00	no data
Lithuania	12536.15	8115.88	241.83	192.28	2541.29	0.00	23627.44
Macedonia	12960.06	0.00	41779.85	1106.77	0.00	0.00	55846.68
Malaysia	10579.33	8050.89	698.25	262.51	0.00	0.00	19590.98
Maldives	11500.44	0.00	0.00	0.00	0.00	0.00	11500.44
Malta	10390.78	0.00	1716.29	0.00	0.00	0.00	12107.06
Mauritius	9254.97	0.00	260.19	89.63	0.00	0.00	9604.79
Mexico	7072.21	2401.49	444.22	194.98	46.42	36.06	10195.38
Morocco	9694.31	52.95	2252.96	72.20	0.00	0.00	12072.43
Namibia	7405.01	0.00	16.38	0.00	0.00	0.00	7421.39
Oman	no data	no data	0.00	0.00	0.00	0.00	no data
Panama	10893.39	0.00	115.28	1074.33	0.00	23.83	12106.83
Paraguay	6806.59	0.00	151.57	24035.98	0.00	14.98	31009.12
Peru	6744.94	224.57	383.03	1022.33	0.00	9.58	8384.45
Philippines	9628.49	4.73	2202.73	352.82	0.00	504.71	12693.48
Poland	5703.74	2980.77	17211.22	45.12	0.00	11.41	25952.25
Puerto Rico	no data	no data	no data	no data	0.00	0.00	no data
Romania	11845.53	16350.02	16734.15	1359.81	485.95	0.00	46775.46
Russia	20945.44	56269.28	18312.52	2146.14	1665.37	33.54	99372.28
Samoa	8389.32	0.00	0.00	608.23	0.00	0.00	8997.55
Saudi Arabia	16727.77	10151.02	0.00	0.00	0.00	0.00	26878.79
Seychelles	12753.45	0.00	0.00	0.00	0.00	0.00	12753.45
Slovakia	8033.93	13179.85	8921.33	835.68	2338.08	0.00	33308.87
South Africa	7419.80	462.87	23735.16	36.43	352.93	0.00	32007.19
South Korea	9575.24	1464.21	2702.02	29.65	773.16	3.37	14547.66
Sri Lanka	9332.78	0.00	2.33	662.91	0.00	0.00	9998.02
St. Kitts & Nevis	4553.69	0.00	0.00	0.00	0.00	0.00	4553.69
St. Lucia	6715.42	0.00	0.00	0.00	0.00	0.00	6715.42
St. Vincent & the Grenadines	7425.11	0.00	0.00	256.44	0.00	0.00	7681.55
Suriname	24899.69	0.00	0.00	5852.88	0.00	0.00	30752.57
Swaziland	4870.58	0.00	3714.31	369.61	0.00	0.00	8954.50
Syria	31288.77	12683.84	2.24	1852.48	0.00	0.00	45827.33
Thailand	13406.32	5767.02	3410.77	166.77	0.00	40.30	22791.18
Tonga	12219.63	0.00	0.00	0.00	0.00	0.00	12219.63
Trinidad & Tobago	6883.69	48441.23	0.00	0.00	0.00	6.54	55331.46
Tunisia	8861.17	5588.82	114.22	11.76	0.00	0.00	14575.97
Turkey	6766.89	2620.32	6885.87	522.15	0.00	5.33	16800.57
Turkmenistan	28884.01	59341.54	0.00	4.65	0.00	0.00	88230.20
Uruguay	4467.11	71.65	0.69	1046.60	0.00	5.02	5591.08
Vanuatu	5439.71	0.00	0.00	0.00	0.00	0.00	5439.71
Venezuela	8459.91	7972.59	28.47	1762.94	0.00	0.00	18223.91
Yugoslavia	15082.66	2269.54	77535.27	4823.02	0.00	0.00	99710.50

petroleum	natural gas	coal	hydroelectricity	nuclear	renewables	total
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(B T U s p e r U S \$ G D P)

High-income countries

Antarctica	no data	0.00	0.00	0.00	0.00	0.00	no data
Antigua & Barbuda	10365.55	0.00	0.00	0.00	0.00	0.00	10365.55
Aruba	no data	0.00	0.00	0.00	0.00	0.00	no data
Australia	4489.97	2039.98	6230.04	145.39	0.00	14.87	12920.25
Austria**	2825.23	1437.60	608.51	751.09	0.00	30.64	5653.08
Barbados	8490.59	396.22	0.00	0.00	0.00	0.00	8886.81
Belgium**	5273.97	2443.63	1013.51	6.86	689.32	17.66	9444.95
Bermuda	no data	0.00	0.00	0.00	0.00	0.00	no data
British Virgin Is.	no data	0.00	0.00	0.00	0.00	0.00	no data
Brunei	no data	no data	0.00	0.00	0.00	0.00	no data
Canada	6147.76	4771.93	1719.16	1761.01	340.96	35.92	14776.74
Cayman Is.	no data	0.00	0.00	0.00	0.00	0.00	no data
Cook Is.	no data	0.00	0.00	0.00	0.00	0.00	no data
Cyprus	11138.54	0.00	107.04	0.00	0.00	0.00	11245.57
Denmark**	2702.31	1120.30	787.30	0.61	0.00	125.79	4736.31
Falkland Is.	no data	0.00	0.00	0.00	0.00	0.00	no data
Faroe Is.	no data	0.00	0.00	no data	0.00	0.00	no data
Finland**	3387.11	1220.82	885.98	408.03	600.08	239.29	6741.30
France**	3184.72	1097.26	327.69	174.77	1040.68	9.88	5834.99
French Guiana	3289.22443	0.00	0.00	0.00	0.00	0.00	3289.22
French Polynesia	2333.63	0.00	0.00	160.51	0.00	0.00	2494.14
Germany**	3022.58	1706.03	2428.36	39.23	293.94	33.83	7523.97
Gibraltar	no data	0.00	0.00	0.00	0.00	0.00	no data
Greece	7230.41	643.31	11079.21	110.84	0.00	17.70	19081.47
Greenland	no data	0.00	0.00	0.00	0.00	0.00	no data
Guadeloupe	no data	0.00	0.00	0.00	0.00	0.00	no data
Guam	no data	0.00	0.00	0.00	0.00	0.00	no data
Iceland**	4468.32	0.00	329.85	2520.49	0.00	503.48	7822.14
Ireland**	3668.72	1509.82	576.49	30.49	0.00	11.72	5797.22
Israel	5032.74	3.20	1822.96	0.96	0.00	0.00	6859.87
Italy	3546.59	2326.31	328.71	139.16	0.00	24.07	6364.84
Japan**	2328.76	568.63	569.02	60.93	207.21	13.39	3747.94
Kuwait	14275.05	8972.87	0.00	0.00	0.00	0.00	23247.93
Luxembourg**	5110.61	1411.32	171.98	21.51	0.00	14.28	6729.70
Martinique	no data	0.00	0.00	0.00	0.00	0.00	no data
Nauru	no data	0.00	0.00	0.00	0.00	0.00	no data
Netherlands Antilles	no data	0.00	0.00	0.00	0.00	0.00	no data
Netherlands**	4765.28	4730.21	669.28	1.32	34.92	46.75	10247.77
New Caledonia	5730.12	0.00	994.38	390.97	0.00	0.00	7115.47
New Zealand	5948.26	4292.77	688.38	1667.99	0.00	265.32	12862.72
Norway**	2486.61	866.67	187.22	2959.27	0.00	7.72	6507.49
Portugal	6460.59	766.44	1104.32	364.40	0.00	55.65	8751.41
Qatar	3878.78	36748.51	0.00	0.00	0.00	0.00	40627.30
Singapore**	15086.19	574.22	0.00	0.00	0.00	0.00	15660.40
Slovenia	5882.33	1967.48	5235.02	710.36	855.22	12.62	14663.02
Spain	5334.76	1053.52	1534.37	171.73	360.11	43.67	8498.17
St. Pierre & Miquelon	no data	0.00	0.00	0.00	0.00	0.00	no data
Sweden**	2999.57	134.07	284.68	1174.21	812.74	62.50	5467.77
Switzerland**	2321.60	437.75	29.40	519.39	337.61	21.88	3667.62
Taiwan	no data	no data	no data	no data	no data	0.00	no data
The Bahamas	9408.20	0.00	0.00	0.00	0.00	0.00	9408.20
Turks & Caicos Is.	no data	0.00	0.00	0.00	0.00	0.00	no data
United Arab Emirates	no data	no data	0.00	0.00	0.00	0.00	no data
United Kingdom**	2481.21	2384.70	776.46	12.21	197.30	12.17	5864.06
United States**	4085.38	2384.27	1899.48	102.79	261.71	29.75	8763.38
Virgin Is.	no data	0.00	no data	0.00	0.00	0.00	no data
Wake I.	no data	0.00	0.00	0.00	0.00	0.00	no data