

primary energy

consumption*

Million tonnes oil equivalent	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Change 2001 over 2000	2001 share of total
USA	1949.6	1976.6	2020.9	2059.9	2101.8	2172.7	2187.6	2196.0	2239.9	2287.4	2237.3	-2.2%	24.5%
Canada	246.5	253.0	256.5	265.3	266.8	275.9	277.4	269.4	274.8	284.8	274.6	-3.6%	3.0%
Mexico	104.6	106.3	107.3	114.4	111.3	116.4	120.0	125.6	126.9	131.0	127.7	-2.5%	1.4%
Total North America	2300.7	2335.9	2384.7	2439.6	2479.9	2565.0	2585.0	2591.0	2641.6	2703.2	2639.6	-2.4%	28.9%
Argentina	45.5	46.5	48.7	50.6	52.4	53.9	55.9	57.9	57.3	58.8	59.2	0.7%	0.6%
Brazil	122.3	126.5	130.4	135.0	142.3	151.0	160.5	166.8	171.1	177.3	173.6	-2.1%	1.9%
Chile	13.1	14.4	15.1	16.4	17.7	19.1	22.3	21.6	22.4	24.6	25.8	4.8%	0.3%
Colombia	23.3	23.0	24.7	25.7	26.4	27.7	27.9	27.3	25.0	24.9	24.8	-0.3%	0.3%
Ecuador	6.0	5.8	6.2	6.8	6.4	7.2	8.1	8.2	7.7	7.7	7.6	-0.3%	0.1%
Peru	8.5	8.4	9.1	9.9	10.7	11.0	10.8	11.3	11.4	11.7	11.7	0.3%	0.1%
Venezuela	48.4	49.8	51.1	53.4	56.4	58.0	61.1	63.8	59.8	61.9	61.9	0.0%	0.7%
Other S. & Cent. America	62.7	64.0	66.5	70.5	74.0	78.1	80.9	83.2	84.7	86.3	87.2	1.0%	1.0%
Total S. & Cent. America	329.8	338.4	351.8	368.3	386.3	406.0	427.5	440.1	439.4	453.2	451.8	-0.3%	5.0%
Austria	28.1	27.7	28.2	27.9	28.5	29.1	30.3	30.9	31.6	31.5	31.6	0.4%	0.3%
Belgium & Luxembourg	56.3	56.6	54.8	54.7	56.7	59.1	60.3	63.0	64.1	66.4	63.9	-3.6%	0.7%
Bulgaria	21.5	20.3	21.7	20.8	22.3	23.3	20.7	20.7	18.0	18.9	18.2	-3.3%	0.2%
Czech Republic	45.9	40.5	39.1	39.3	41.3	43.0	41.7	39.9	38.5	39.8	41.6	4.6%	0.5%
Denmark	19.5	17.9	19.2	20.7	20.2	24.1	21.7	20.6	19.9	18.8	18.9	0.5%	0.2%
Finland	23.9	23.3	23.1	24.3	23.1	24.5	25.1	25.6	25.7	26.0	26.3	1.1%	0.3%
France	231.1	233.7	233.5	229.5	235.7	244.7	241.0	247.2	251.4	254.8	256.4	0.6%	2.8%
Germany	340.6	336.2	333.6	331.1	333.1	344.0	337.8	334.5	328.5	330.5	335.2	1.4%	3.7%
Greece	24.4	25.1	25.2	25.9	26.7	27.0	27.2	28.6	30.1	31.8	31.1	-2.1%	0.3%
Hungary	25.6	23.3	22.9	23.4	23.6	24.2	23.8	23.8	23.7	23.0	23.9	3.8%	0.3%
Iceland	1.6	1.7	1.8	1.8	1.9	1.9	2.1	2.2	2.3	2.4	2.5	3.0%	0.0%
Republic of Ireland	9.2	9.2	9.5	10.0	10.2	10.8	11.6	12.4	13.2	13.9	14.6	5.1%	0.2%
Italy	158.0	158.3	154.9	154.7	162.4	162.4	163.9	168.5	173.7	176.4	177.2	0.4%	1.9%
Netherlands	79.1	78.1	79.6	79.5	82.7	85.2	84.7	84.5	83.2	86.5	88.6	2.5%	1.0%
Norway	36.3	38.2	39.5	38.4	40.7	37.1	39.3	40.4	41.5	45.9	41.7	-9.2%	0.5%
Poland	101.2	95.2	97.0	96.2	96.4	100.8	98.6	94.1	91.1	88.4	87.7	-0.9%	1.0%
Portugal	16.5	17.0	17.3	17.9	19.0	19.4	20.4	22.4	24.0	23.6	23.9	1.3%	0.3%
Romania	50.7	48.5	47.3	45.4	48.6	48.2	45.2	41.3	36.9	37.0	38.2	3.1%	0.4%
Slovakia	18.6	18.1	17.1	16.6	17.3	17.5	17.1	17.6	17.5	18.1	19.1	5.2%	0.2%
Spain	92.7	95.1	93.9	96.9	100.5	104.8	111.7	118.1	122.7	129.2	134.6	4.2%	1.5%
Sweden	50.3	50.5	49.9	49.8	50.1	48.8	50.4	51.6	51.6	48.6	52.6	8.4%	0.6%
Switzerland	27.8	28.3	28.1	29.4	27.9	27.1	28.9	29.1	30.1	29.4	31.4	6.9%	0.3%
Turkey	48.0	52.5	57.8	56.2	60.1	67.7	69.6	70.6	68.9	73.7	70.2	-4.7%	0.8%
United Kingdom	215.9	214.5	216.6	213.6	214.4	224.8	219.8	223.1	221.9	222.2	224.0	0.8%	2.5%
Other Europe	47.9	41.7	38.8	35.3	37.0	41.1	41.6	43.4	40.7	41.0	41.1	0.2%	0.5%
Total Europe	1770.7	1751.5	1750.4	1739.3	1780.4	1840.6	1834.5	1854.1	1850.8	1877.8	1894.5	0.9%	20.8%
Azerbaijan	22.3	19.1	16.6	15.8	16.1	12.6	11.4	12.6	12.8	11.4	12.5	9.1%	0.1%
Belarus	38.1	37.1	28.6	25.3	23.6	21.4	23.5	22.2	20.9	21.0	20.7	-1.4%	0.2%
Kazakhstan	73.5	74.1	65.6	58.2	51.2	45.9	40.7	39.1	35.0	40.5	43.1	6.4%	0.5%
Lithuania	17.6	11.0	8.3	7.3	8.2	9.0	8.6	9.2	7.8	7.0	8.1	16.5%	0.1%
Russian Federation	862.2	820.8	770.4	702.8	668.1	647.2	614.3	614.2	626.4	640.3	643.0	0.4%	7.0%
Turkmenistan	14.1	13.6	11.6	12.9	11.1	12.0	12.1	12.0	12.7	13.6	14.0	2.6%	0.2%
Ukraine	248.6	218.3	184.3	157.7	147.8	141.6	138.9	133.7	133.7	132.6	131.1	-1.1%	1.4%
Uzbekistan	49.8	47.0	48.3	47.8	47.6	49.0	50.1	51.8	53.6	50.9	54.8	7.8%	0.6%
Other Former Soviet Union	49.1	38.4	31.1	25.7	23.8	22.3	23.8	23.6	21.7	21.0	22.1	5.1%	0.2%
Total Former Soviet Union	1375.3	1279.4	1164.8	1053.5	997.5	961.0	923.4	918.4	924.6	938.3	949.4	1.2%	10.4%
Iran	72.2	75.7	78.3	85.2	93.3	98.5	103.7	105.2	113.4	115.0	114.3	-0.6%	1.3%
Kuwait	4.1	7.9	9.9	11.6	14.8	14.6	15.3	17.7	18.1	19.0	19.1	0.4%	0.2%
Qatar	7.7	12.2	13.0	13.0	13.1	13.4	14.3	14.5	13.7	14.7	15.7	7.1%	0.2%
Saudi Arabia	87.0	85.8	88.1	92.0	90.1	93.7	96.1	101.0	102.5	107.2	111.0	3.5%	1.2%
United Arab Emirates	34.9	33.8	34.9	37.7	40.3	42.3	42.4	39.2	41.3	43.8	45.2	3.0%	0.5%
Other Middle East	58.4	64.8	69.3	72.9	77.6	80.3	85.2	88.0	88.8	90.6	91.9	1.4%	1.0%
Total Middle East	264.3	280.2	293.5	312.4	329.2	342.8	357.0	365.6	377.8	390.3	397.2	1.8%	4.4%
Algeria	25.3	25.9	26.6	27.0	28.1	27.9	26.5	27.7	27.8	28.0	28.8	3.0%	0.3%
Egypt	33.3	33.3	33.7	34.4	36.4	38.4	40.0	42.1	45.0	47.8	49.0	2.5%	0.5%
South Africa	89.8	87.2	89.8	95.3	100.5	106.0	109.4	108.8	107.9	108.4	107.0	-1.3%	1.2%
Other Africa	71.8	74.9	76.8	79.2	81.2	83.6	85.5	88.2	90.7	92.7	95.8	3.4%	1.1%
Total Africa	220.2	221.3	226.9	235.9	246.2	255.9	261.4	266.8	271.4	276.9	280.6	1.4%	3.1%
Australia	87.2	88.5	88.6	93.9	97.5	101.3	103.6	105.0	105.4	108.1	109.9	1.7%	1.2%
Bangladesh	6.7	7.2	7.8	8.4	9.9	10.0	10.6	11.0	11.1	12.6	13.4	6.2%	0.1%
China	694.5	722.2	758.4	811.8	857.4	912.7	898.0	872.8	786.6	804.7	839.7	4.3%	9.2%
China Hong Kong SAR	12.2	14.4	15.6	14.1	15.1	15.0	15.1	15.4	15.6	15.6	16.6	6.6%	0.2%
India	205.8	216.9	222.8	236.2	252.4	269.8	280.8	290.0	297.1	313.3	314.7	0.5%	3.4%
Indonesia	57.1	61.4	64.9	67.9	73.5	79.4	84.0	80.0	89.1	93.8	97.9	4.4%	1.1%
Japan	451.1	455.2	461.8	479.8	493.8	503.6	507.4	502.2	508.7	515.9	514.5	-0.3%	5.6%
Malaysia	24.2	25.9	29.6	32.3	33.1	36.0	37.7	37.4	40.5	42.3	42.1	-0.4%	0.5%
New Zealand	15.3	15.6	16.0	16.5	16.9	17.2	17.3	16.8	17.4	17.8	17.6	-1.0%	0.2%
Pakistan	27.7	29.5	31.7	33.7	36.4	38.3	37.4	39.6	40.8	42.1	43.4	3.2%	0.5%
Philippines	13.6	15.8	16.5	17.5	19.6	21.1	22.6	22.9	22.7	22.6	22.7	0.5%	0.2%
Singapore	23.7	25.7	28.1	32.0	33.3	31.6	33.8	34.7	32.9	35.0	39.1	11.7%	0.4%
South Korea	101.8	114.4	125.4	135.5	148.6	163.8	179.6	165.5	180.5	191.1	195.9	2.5%	2.1%
Taiwan	51.7	55.1	57.9	62.3	65.7	68.9	72.9	77.5	81.1	85.6	85.4	-0.1%	0.9%
Thailand	33.2	36.1	40.6	45.5	52.4	58.4	61.2	58.2	59.7	62.4	63.0	1.0%	0.7%
Other Asia Pacific	80.4	80.9	84.3	84.9	86.4	88.2	90.0	88.0	89.0	93.0	95.8	3.0%	1.0%
Total Asia Pacific	1886.2	1964.8	2050.0	2172.3	2292.0	2415.3	2452.0	2417.0	2378.2	2455.9	2511.7	2.3%	27.5%
TOTAL WORLD	8147.2	8171.5	8222.1	8321.3	8511.5	8786.6	8840.8	8853.0	8883.8	9095.6	9124.8	0.3%	100.0%
of which: European Union 15	1345.6	1343.2	1339.3	1336.5	1363.3	1408.7	1405.9	1431.0	1441.6	1460.2	1478.9	1.3%	16.2%
OECD	4606.7	4650.6	4719.1	4803.1	4909.2	5078.9	5119.9	5129.2	5208.8	5317.0	5274.5	-0.8%	57.8%
Former Soviet Union	1375.3	1279.4	1164.8	1053.5	997.5	961.0	923.4	918.4	924.6	938.3	949.4	1.2%	10.4%
Other EMEs	2165.2	2241.5	2338.2	2464.7	2604.8	2746.7	2797.5	2805.4	2750.4	2840.3	2900.9	2.1%	31.8%

*In this Review, primary energy comprises commercially traded fuels only. Excluded, therefore, are fuels such as wood, peat and animal waste which, though important in many countries, are unreliably documented in terms of consumption statistics.

•Less than 0.05%.

primary energy

consumption by fuel*

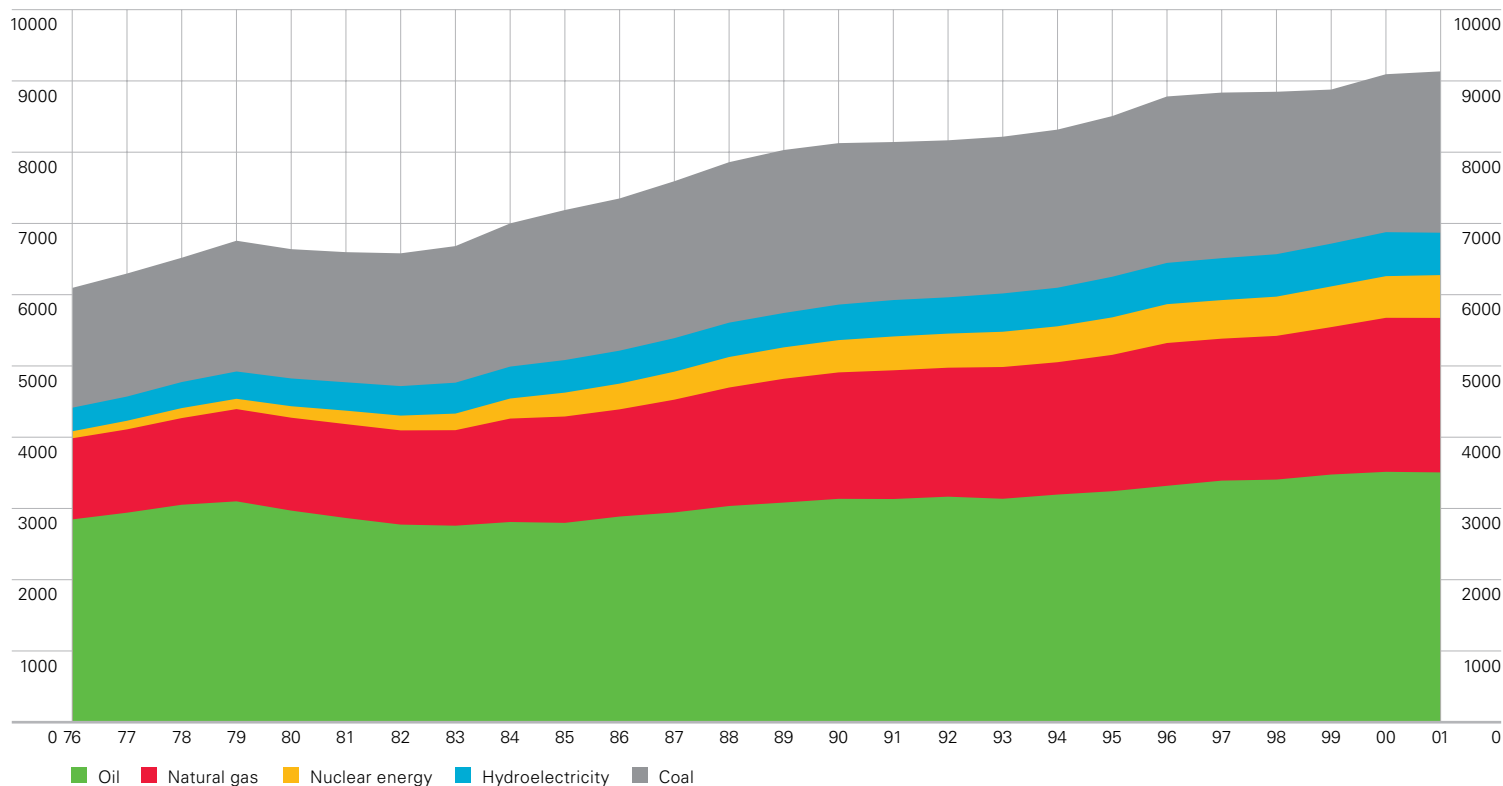
Million tonnes oil equivalent	2000						2001					
	Oil	Natural gas	Coal	Nuclear energy	Hydro-electricity	Total	Oil	Natural gas	Coal	Nuclear energy	Hydro-electricity	Total
USA	897.6	582.4	565.3	179.6	62.4	2287.4	895.6	554.6	555.7	183.2	48.3	2237.3
Canada	88.1	69.8	29.4	16.5	81.0	284.8	88.0	65.4	28.9	17.4	75.0	274.6
Mexico	84.1	31.4	6.2	1.9	7.5	131.0	82.7	30.4	6.3	2.0	6.4	127.7
Total North America	1069.8	683.6	600.9	198.0	150.9	2703.2	1066.3	650.4	590.9	202.6	129.7	2639.6
Argentina	20.3	29.9	0.7	1.4	6.5	58.8	19.0	29.9	0.7	1.6	8.0	59.2
Brazil	85.4	8.2	12.8	1.3	69.6	177.3	85.1	9.8	14.0	3.2	61.4	173.6
Chile	11.8	4.7	3.9	–	4.3	24.6	12.0	5.0	4.0	–	4.8	25.8
Colombia	10.5	5.3	2.2	–	6.9	24.9	9.9	5.5	2.4	–	7.1	24.8
Ecuador	5.8	0.1	–	–	1.7	7.7	5.9	0.1	–	–	1.6	7.6
Peru	7.3	0.3	0.5	–	3.7	11.7	6.8	0.3	0.6	–	4.0	11.7
Venezuela	22.5	25.1	†	–	14.2	61.9	22.2	26.0	†	–	13.7	61.9
Other S. & Cent. America	57.4	10.1	0.6	–	18.2	86.3	57.5	10.6	0.7	–	18.3	87.2
Total S. & Cent. America	221.0	83.7	20.7	2.7	125.1	453.2	218.4	87.2	22.4	4.8	118.9	451.8
Austria	11.8	6.6	3.2	–	9.9	31.5	12.4	6.6	2.7	–	9.8	31.6
Belgium & Luxembourg	33.9	13.4	7.6	10.9	0.6	66.4	32.3	13.2	7.1	10.7	0.6	63.9
Bulgaria	4.5	2.6	6.6	4.5	0.7	18.9	4.6	2.3	6.1	4.5	0.8	18.2
Czech Republic	7.9	7.5	20.7	3.1	0.5	39.8	8.3	8.0	21.3	3.3	0.6	41.6
Denmark	10.4	4.4	4.0	–	†	18.8	10.1	4.6	4.2	–	†	18.9
Finland	10.7	3.4	3.5	5.1	3.3	26.0	10.5	3.7	3.9	5.2	3.0	26.3
France	94.9	35.7	13.8	94.0	16.4	254.8	95.8	36.6	10.9	94.9	18.1	256.4
Germany	129.8	71.5	84.9	38.4	5.9	330.5	131.6	74.6	84.4	38.7	5.8	335.2
Greece	19.9	1.7	9.2	–	0.9	31.8	19.4	1.8	9.5	–	0.5	31.1
Hungary	6.8	9.6	3.2	3.2	†	23.0	6.8	10.7	3.1	3.2	†	23.9
Iceland	0.9	–	0.1	–	1.4	2.4	0.9	–	0.1	–	1.5	2.5
Republic of Ireland	8.2	3.4	2.0	–	0.3	13.9	8.7	3.6	2.1	–	0.2	14.6
Italy	93.5	58.4	13.0	–	11.5	176.4	92.8	58.0	13.9	–	12.5	177.2
Netherlands	41.7	35.3	8.6	0.9	†	86.5	43.9	35.3	8.4	0.9	†	88.6
Norway	9.4	3.6	0.7	–	32.2	45.9	9.7	4.0	0.6	–	27.4	41.7
Poland	20.0	10.0	57.6	–	0.9	88.4	19.0	10.2	57.5	–	1.0	87.7
Portugal	14.9	2.1	3.6	–	2.9	23.6	15.2	2.3	3.6	–	2.9	23.9
Romania	10.0	15.4	7.0	1.2	3.3	37.0	10.1	15.8	7.7	1.2	3.4	38.2
Slovakia	3.4	5.8	4.0	3.7	1.1	18.1	3.4	6.7	4.1	3.9	1.1	19.1
Spain	70.0	15.2	21.6	14.1	8.3	129.2	72.7	16.4	19.5	14.4	11.6	134.6
Sweden	15.2	0.7	1.9	13.0	17.8	48.6	15.6	0.7	2.0	16.4	17.9	52.6
Switzerland	12.2	2.4	0.1	6.0	8.7	29.4	13.1	2.5	0.1	6.1	9.7	31.4
Turkey	31.6	12.7	22.3	–	7.0	73.7	30.4	14.0	20.4	–	5.4	70.2
United Kingdom	77.9	86.4	36.9	19.3	1.8	222.2	76.1	85.9	40.3	20.4	1.5	224.0
Other Europe	16.3	5.1	11.8	1.1	6.8	41.0	16.8	5.5	10.6	1.2	7.1	41.1
Total Europe	755.8	412.9	347.9	218.5	142.2	1877.8	760.2	423.0	344.1	225.0	142.4	1894.5
Azerbaijan	6.2	4.9	–	–	0.3	11.4	4.6	7.6	–	–	0.3	12.5
Belarus	6.1	14.6	0.3	–	†	21.0	5.9	14.5	0.3	–	†	20.7
Kazakhstan	7.0	8.7	23.2	–	1.6	40.5	7.7	9.1	24.7	–	1.7	43.1
Lithuania	2.4	2.5	0.1	1.9	0.1	7.0	2.8	2.5	0.1	2.6	0.2	8.1
Russian Federation	123.5	339.5	110.4	29.5	37.4	640.3	122.3	335.4	114.6	30.9	39.8	643.0
Turkmenistan	2.3	11.3	–	–	–	13.6	2.4	11.6	–	–	–	14.0
Ukraine	12.0	61.6	38.8	17.5	2.7	132.6	12.7	59.2	39.0	17.2	3.0	131.1
Uzbekistan	6.4	42.4	1.0	–	1.0	50.9	6.5	46.0	1.1	–	1.3	54.8
Other Former Soviet Union	4.4	6.8	0.8	0.4	8.6	21.0	4.7	7.7	0.6	0.5	8.6	22.1
Total Former Soviet Union	170.3	492.3	174.6	49.3	51.7	938.3	169.6	493.6	180.4	51.2	54.9	949.4
Iran	56.1	56.7	1.1	–	1.1	115.0	54.2	58.5	0.8	–	0.8	114.3
Kuwait	10.4	8.6	–	–	–	19.0	10.5	8.6	–	–	–	19.1
Qatar	1.2	13.6	–	–	–	14.7	1.4	14.4	–	–	–	15.7
Saudi Arabia	62.4	44.8	–	–	–	107.2	62.7	48.3	–	–	–	111.0
United Arab Emirates	14.2	29.6	–	–	–	43.8	14.3	30.8	–	–	–	45.2
Other Middle East	63.5	20.1	6.2	–	0.8	90.6	63.3	20.7	7.2	–	0.7	91.9
Total Middle East	207.8	173.4	7.3	–	1.9	390.3	206.4	181.3	8.0	–	1.5	397.2
Algeria	8.5	18.9	0.6	–	†	28.0	8.8	19.4	0.6	–	†	28.8
Egypt	27.2	16.5	0.9	–	3.2	47.8	26.2	18.9	0.9	–	3.0	49.0
South Africa	22.5	–	81.9	3.1	0.9	108.4	23.0	–	80.6	2.6	0.8	107.0
Other Africa	57.9	14.6	6.1	–	14.1	92.7	59.0	15.8	6.5	–	14.5	95.8
Total Africa	116.1	50.0	89.5	3.1	18.2	276.9	117.0	54.1	88.6	2.6	18.3	280.6
Australia	37.7	19.1	47.5	–	3.7	108.1	38.1	20.3	47.6	–	3.9	109.9
Bangladesh	3.4	9.0	0.1	–	0.2	12.6	3.4	9.7	0.1	–	0.2	13.4
China	230.1	22.1	493.7	3.8	55.0	804.7	231.9	24.9	520.6	4.0	58.3	839.7
China Hong Kong SAR	9.7	2.2	3.7	–	–	15.6	9.5	2.2	4.9	–	–	16.6
India	97.5	23.4	171.4	3.6	17.4	313.3	97.1	23.7	173.5	4.4	16.1	314.7
Indonesia	50.4	27.5	13.7	–	2.1	93.8	52.3	26.7	16.7	–	2.1	97.9
Japan	255.4	68.6	98.9	72.3	20.7	515.9	247.2	71.1	103.0	72.7	20.4	514.5
Malaysia	20.4	18.3	1.9	–	1.7	42.3	18.6	19.4	2.4	–	1.7	42.1
New Zealand	6.3	4.9	1.1	–	5.5	17.8	6.2	5.2	1.3	–	5.0	17.6
Pakistan	18.8	17.0	2.0	0.3	4.0	42.1	18.9	18.1	2.0	0.5	4.0	43.4
Philippines	16.6	†	4.3	–	1.8	22.6	16.5	0.1	4.5	–	1.6	22.7
Singapore	33.5	1.6	–	–	–	35.0	36.9	2.3	–	–	–	39.1
South Korea	103.2	18.9	43.0	24.7	1.3	191.1	103.1	20.8	45.7	25.4	0.9	195.9
Taiwan	39.8	6.2	28.9	8.7	2.0	85.6	37.7	6.8	30.9	8.0	2.1	85.4
Thailand	34.8	18.4	7.8	–	1.4	62.4	33.8	19.0	8.8	–	1.4	63.0
Other Asia Pacific	20.6	4.4	57.9	–	10.1	93.0	21.5	4.4	58.7	–	11.1	95.8
Total Asia Pacific	978.2	261.6	975.9	113.4	126.9	2455.9	972.7	274.7	1020.7	115.0	128.8	2511.7
TOTAL WORLD	3519.0	2157.5	2216.8	585.0	616.9	9095.6	3510.6	2164.3	2255.1	601.2	594.5	9124.8
of which: European Union 15	632.8	338.2	213.8	195.7	79.6	1460.2	637.1	343.3	212.5	201.6	84.4	1478.9
OECD	2197.4	1184.9	1113.9	506.7	313.5	5317.0	2189.6	1167.2	1108.2	518.8	291.0	5274.5
Former Soviet Union	170.3	492.3	174.6	49.3	51.7	938.3	169.6	493.6	180.4	51.2	54.9	949.4
Other EMEs	1151.3	480.3	928.3	29.0	251.7	2840.3	1151.4	503.5	966.5	31.2	248.6	2900.9

*In this Review, primary energy comprises commercially traded fuels only. Excluded, therefore, are fuels such as wood, peat and animal waste which, though important in many countries, are unreliably documented in terms of consumption statistics.

†Less than 0.05.

world consumption

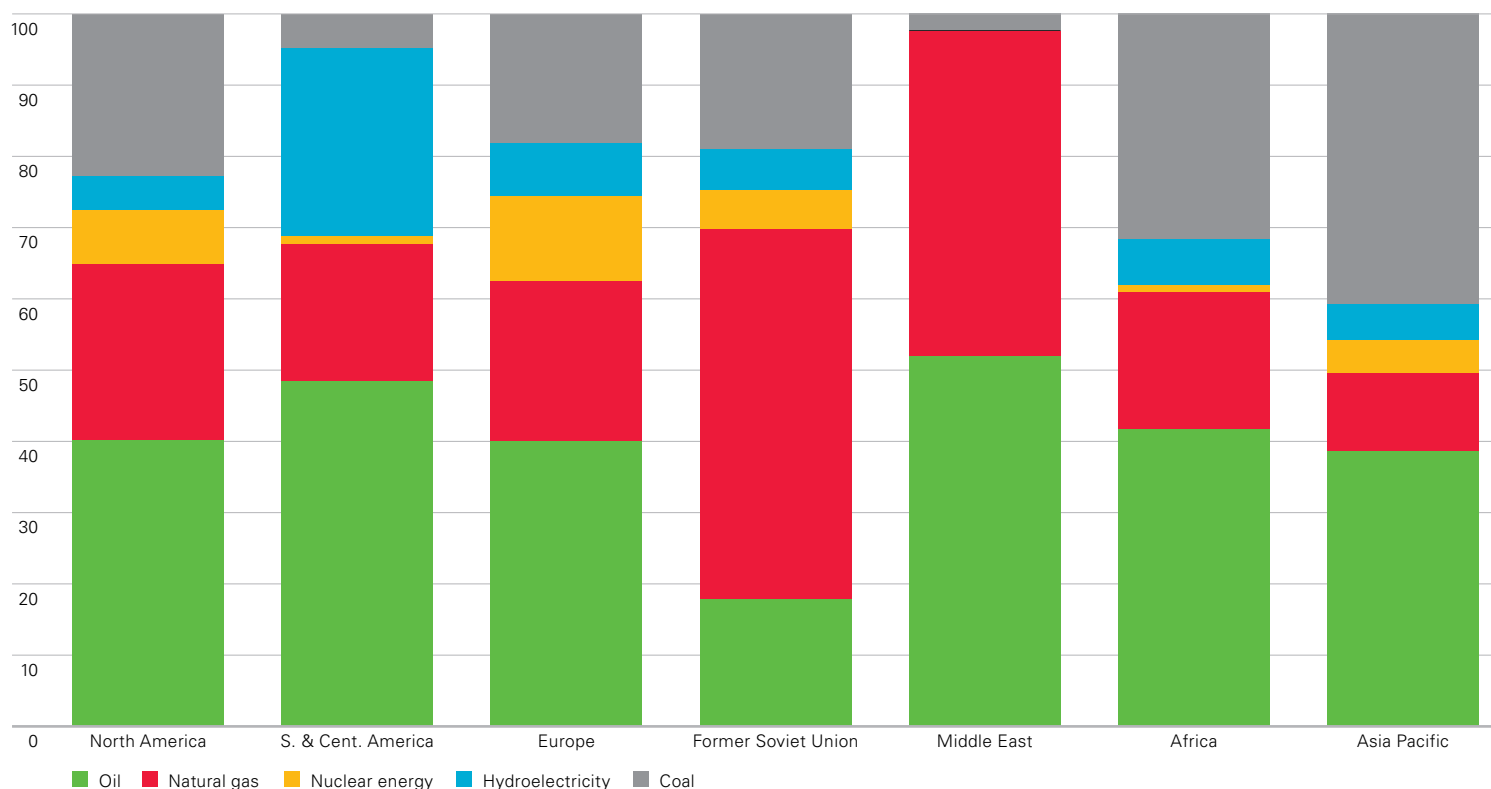
Million tonnes oil equivalent



Primary energy consumption grew by less than 0.5% in 2001, marking the third year of virtually zero growth in the last four. Nuclear and coal were the fastest-growing fuels, with hydroelectricity showing a steep fall. Coal increased its share of the overall energy market for only the second time since 1985.

regional consumption pattern 2001

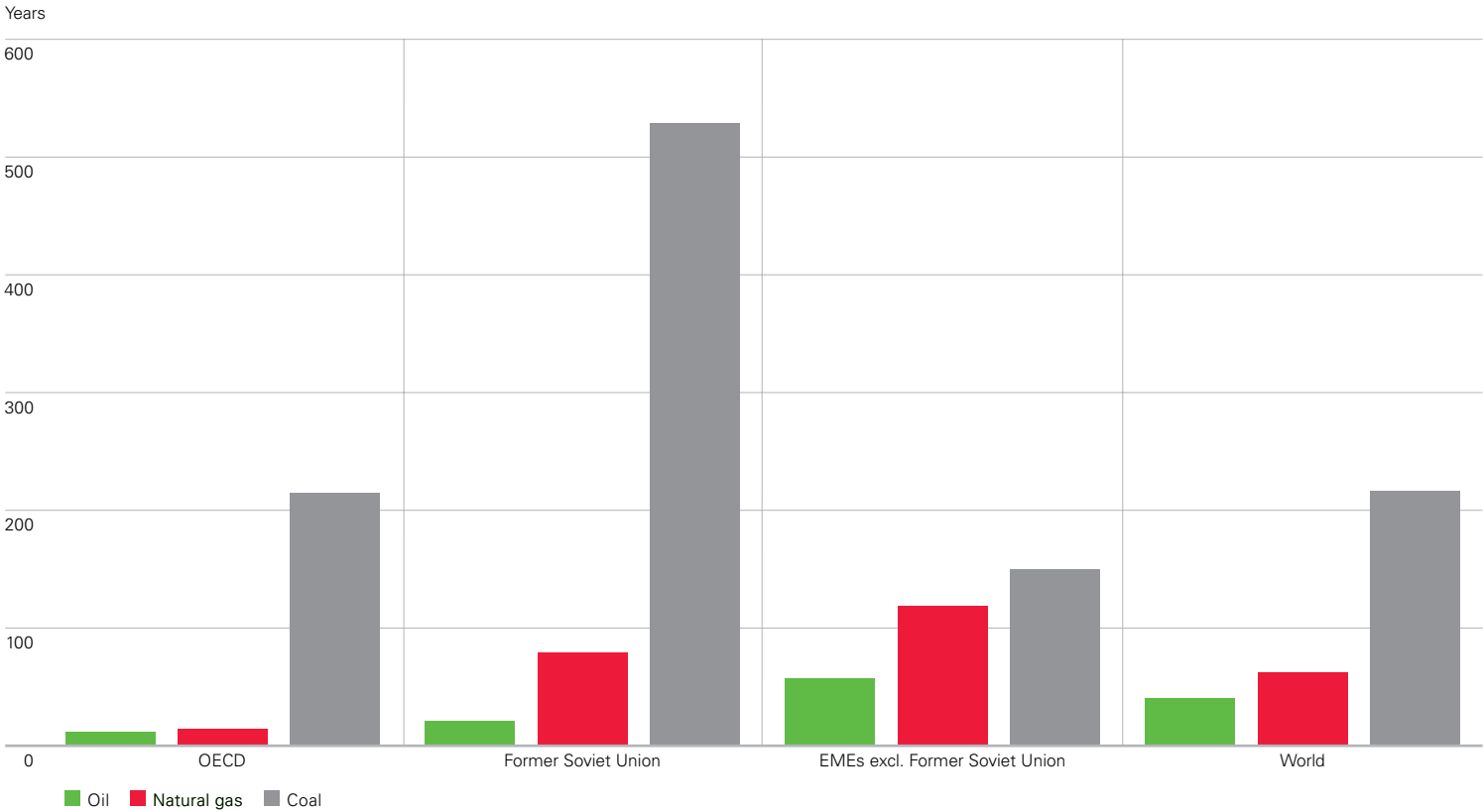
Percentage



Oil remains the largest single source of energy in most parts of the world. The exceptions are the Former Soviet Union, where gas dominates, and Asia Pacific, where coal moved marginally ahead of oil during 2001.

primary energy

fossil fuel R/P ratios at end 2001



The world's reserves-to-production ratio for coal is nearly six times that for oil and four times that for natural gas. Coal's dominance in R/P ratio terms is particularly pronounced in the OECD and the Former Soviet Union.

energy consumption per capita

Tonnes oil equivalent

