

natural gas

proved reserves

	At end 1981 Trillion cubic metres	At end 1991 Trillion cubic metres	At end 2000 Trillion cubic metres	Trillion cubic metres	At end 2001 Trillion cubic feet	Share of total	R/P ratio
USA	5.61	4.79	4.74	5.02	177.4	3.2%	9.2
Canada	2.55	2.74	1.73	1.69	59.7	1.1%	9.8
Mexico	2.13	2.02	0.86	0.84	29.5	0.5%	24.0
Total North America	10.29	9.56	7.33	7.55	266.7	4.9%	10.0
Argentina	0.66	0.58	0.75	0.78	27.5	0.5%	20.3
Bolivia	0.15	0.13	0.52	0.68	24.0	0.4%	*
Brazil	0.05	0.11	0.23	0.22	7.8	0.1%	28.8
Colombia	0.12	0.11	0.20	0.12	4.3	0.1%	20.1
Ecuador	0.12	0.11	0.10	0.10	3.7	0.1%	*
Trinidad & Tobago	0.31	0.25	0.60	0.66	23.5	0.4%	51.4
Venezuela	1.33	3.11	4.16	4.18	147.6	2.7%	*
Other S. & Cent. America	0.11	0.32	0.37	0.42	14.7	0.3%	*
Total S. & Cent. America	2.86	4.73	6.93	7.16	253.0	4.6%	71.6
Denmark	0.06	0.11	0.10	0.08	2.7	♦	9.2
Germany	0.17	0.25	0.33	0.34	12.1	0.2%	20.1
Hungary	n/a	0.11	0.08	0.04	1.3	♦	13.3
Italy	0.10	0.32	0.23	0.23	8.1	0.1%	14.8
Netherlands	1.58	1.97	1.77	1.77	62.5	1.1%	25.1
Norway	1.40	1.72	1.25	1.25	44.0	0.8%	21.7
Romania	n/a	0.10	0.37	0.10	3.6	0.1%	8.0
United Kingdom	0.74	0.55	0.76	0.73	26.0	0.5%	6.9
Other Europe	0.53	0.39	0.33	0.32	11.4	0.2%	27.8
Total Europe	4.57	5.52	5.21	4.86	171.7	3.1%	16.1
Azerbaijan	n/a	n/a	0.85	0.85	30.0	0.5%	*
Kazakhstan	n/a	n/a	1.84	1.84	65.0	1.2%	*
Russian Federation	n/a	n/a	48.14	47.57	1680.0	30.7%	83.1
Turkmenistan	n/a	n/a	2.86	2.86	101.0	1.8%	56.6
Ukraine	n/a	n/a	1.12	1.12	39.6	0.7%	62.2
Uzbekistan	n/a	n/a	1.87	1.87	66.2	1.2%	33.2
Other Former Soviet Union	n/a	n/a	0.02	0.02	0.8	♦	55.8
Total Former Soviet Union	32.85	49.55	56.71	56.14	1982.6	36.2%	78.5
Bahrain	0.24	0.17	0.11	0.09	3.2	0.1%	10.3
Iran	13.71	17.00	23.00	23.00	812.3	14.8%	*
Iraq	0.77	2.69	3.11	3.11	109.8	2.0%	*
Kuwait	0.98	1.37	1.49	1.49	52.7	1.0%	*
Oman	0.08	0.28	0.83	0.83	29.3	0.5%	61.9
Qatar	1.70	4.59	11.15	14.40	508.5	9.3%	*
Saudi Arabia	3.35	5.23	6.05	6.22	219.5	4.0%	*
United Arab Emirates	0.66	5.64	6.01	6.01	212.1	3.9%	*
Yemen	–	0.20	0.48	0.48	16.9	0.3%	*
Other Middle East	0.09	0.18	0.29	0.29	10.2	0.2%	56.7
Total Middle East	21.58	37.35	52.52	55.91	1974.6	36.1%	*
Algeria	3.71	3.30	4.52	4.52	159.7	2.9%	57.8
Egypt	0.08	0.35	1.00	1.00	35.2	0.6%	47.5
Libya	0.66	1.22	1.31	1.31	46.4	0.8%	*
Nigeria	1.15	2.97	3.51	3.51	124.0	2.3%	*
Other Africa	0.40	0.95	0.82	0.84	29.5	0.5%	*
Total Africa	5.99	8.78	11.16	11.18	394.8	7.2%	90.2
Australia	0.53	0.43	1.26	2.55	90.0	1.6%	77.9
Bangladesh	0.20	0.72	0.30	0.30	10.6	0.2%	27.8
Brunei	0.20	0.32	0.39	0.39	13.8	0.3%	34.3
China	0.69	1.00	1.37	1.37	48.3	0.9%	45.1
India	0.35	0.73	0.65	0.65	22.9	0.4%	24.5
Indonesia	0.78	1.84	2.05	2.62	92.5	1.7%	41.6
Malaysia	0.54	1.67	2.31	2.12	75.0	1.4%	44.8
Pakistan	0.46	0.64	0.61	0.71	25.1	0.5%	35.6
Papua New Guinea	–	0.23	0.22	0.35	12.2	0.2%	*
Thailand	0.34	0.39	0.33	0.36	12.7	0.2%	19.9
Vietnam	–	†	0.19	0.19	6.8	0.1%	96.3
Other Asia Pacific	0.21	0.51	0.65	0.66	23.4	0.4%	36.9
Total Asia Pacific	4.30	8.47	10.34	12.27	433.3	7.9%	43.8
TOTAL WORLD	82.44	123.97	150.19	155.08	5476.7	100.0%	61.9
of which: European Union 15	2.87	3.32	3.24	3.21	113.4	2.1%	14.5
OECD#	15.29	15.42	13.45	14.87	525.0	9.6%	13.7

*Over 100 years.

†Less than 0.05.

♦Less than 0.05%.

#1981 excludes Central European members.

n/a not available.

Notes:

Proved reserves of natural gas – Generally taken to be those quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known reservoirs under existing economic and operating conditions.

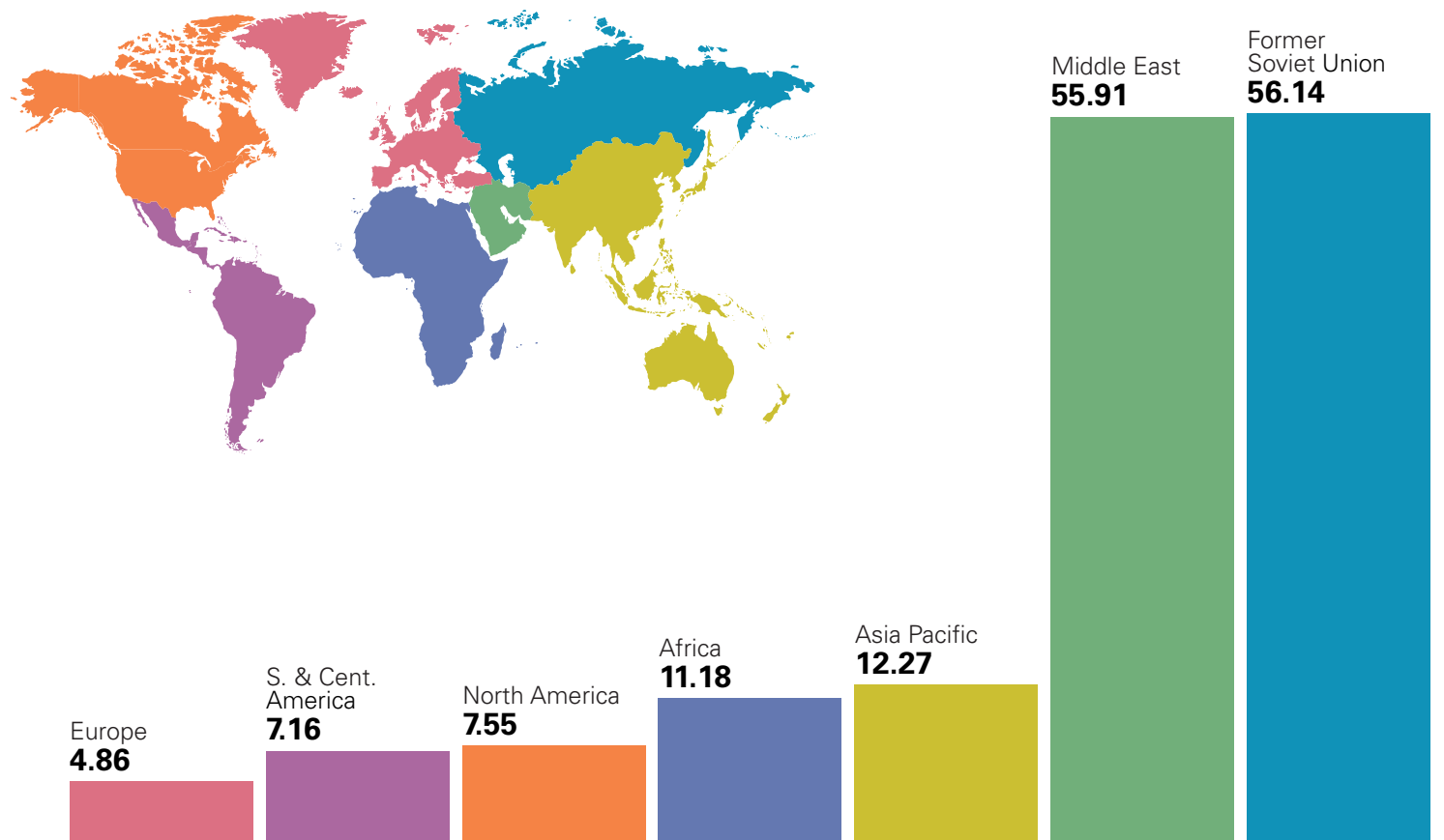
Reserves/Production (R/P) ratio – If the reserves remaining at the end of any year are divided by the production in that year, the result is the length of time that those remaining reserves would last if production were to continue at that level.

Source of data – With the exception of Azerbaijan, the estimates contained in this table are those published by the Oil and Gas Journal.

Trillion equals one million million (10¹²). 1 trillion cubic feet of natural gas = 26 million tonnes of oil (approximately).

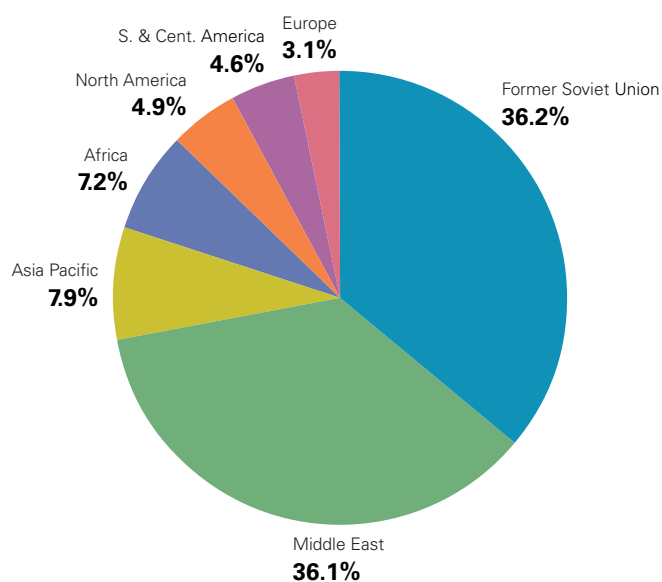
proved reserves at end 2001

Trillion cubic metres



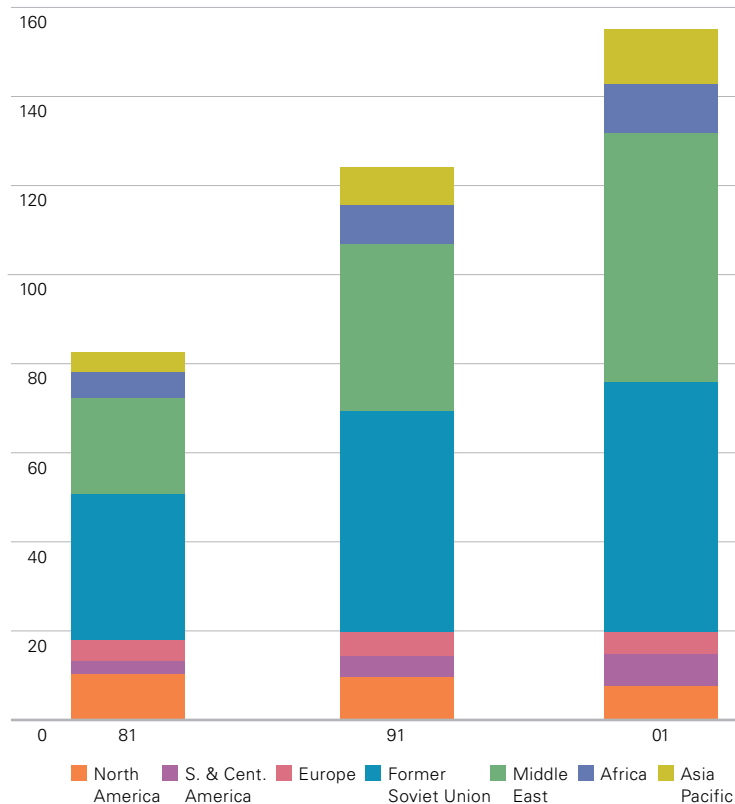
distribution of proved reserves 2001

Trillion cubic metres %



proved reserves

Trillion cubic metres



natural gas

production*

Billion cubic metres	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Change 2001 over 2000	2001 share of total
USA	510.4	514.5	520.4	541.8	534.9	542.2	543.1	549.2	541.6	544.9	555.4	1.9%	22.5%
Canada	105.4	116.1	125.5	135.9	148.2	153.6	156.2	160.5	162.2	167.8	172.0	2.5%	7.0%
Mexico	27.9	27.8	27.8	28.7	28.1	31.2	33.8	36.6	38.5	37.1	34.7	-6.3%	1.4%
Total North America	643.7	658.4	673.7	706.4	711.2	727.0	733.1	746.3	742.3	749.8	762.1	1.6%	30.9%
Argentina	19.9	20.1	21.5	22.3	25.0	26.6	27.4	29.6	34.6	37.4	38.4	2.6%	1.6%
Bolivia	3.0	3.0	3.0	3.3	3.2	3.2	3.3	3.1	2.5	3.4	4.1	20.5%	0.2%
Brazil	3.9	4.0	4.5	4.5	4.8	5.5	6.0	6.3	6.7	6.8	7.7	13.3%	0.3%
Colombia	4.1	4.0	4.2	4.2	4.4	4.7	5.9	6.3	5.2	5.9	6.1	3.0%	0.2%
Trinidad & Tobago	5.7	6.0	5.9	6.2	6.1	7.1	7.4	8.6	10.9	13.0	12.9	-0.5%	0.5%
Venezuela	21.9	21.6	23.3	24.7	27.5	29.7	30.8	32.3	27.4	27.9	28.9	3.3%	1.2%
Other S. & Cent. America	2.0	2.2	2.1	2.2	2.2	2.3	2.4	2.5	2.1	2.1	2.0	-2.6%	0.1%
Total S. & Cent. America	60.5	60.9	64.5	67.4	73.2	79.1	83.2	88.7	89.4	96.5	100.1	3.7%	4.1%
Denmark	4.0	4.1	4.5	4.9	5.3	6.4	7.9	7.6	7.8	8.1	8.4	3.5%	0.3%
Germany	14.7	14.9	14.9	15.6	16.1	17.4	17.1	16.7	17.8	16.9	17.0	0.9%	0.7%
Hungary	4.3	4.0	4.3	4.1	4.2	4.0	3.7	3.3	2.9	2.7	2.7	1.0%	0.1%
Italy	17.4	18.2	19.5	20.6	20.4	20.0	19.3	19.0	17.5	16.2	15.5	-4.6%	0.6%
Netherlands	69.0	69.1	70.0	66.4	67.0	75.8	67.1	63.6	59.3	57.3	61.4	7.1%	2.5%
Norway	27.3	29.4	28.9	30.8	31.2	41.0	46.7	47.8	51.0	54.0	57.5	6.4%	2.3%
Romania	24.5	21.8	20.6	18.7	18.0	17.2	15.0	14.0	14.0	13.8	12.6	-8.5%	0.5%
United Kingdom	50.6	51.5	60.5	64.6	70.8	84.2	85.9	90.2	99.1	108.3	105.8	-2.3%	4.3%
Other Europe	14.3	14.0	15.1	14.5	14.6	13.3	12.8	12.3	11.6	11.8	11.6	-1.4%	0.5%
Total Europe	226.1	227.0	238.3	240.2	247.6	279.3	275.5	274.5	281.0	289.1	292.5	1.2%	11.9%
Azerbaijan	8.0	7.4	6.3	6.0	6.2	5.9	5.6	5.2	5.6	5.3	5.2	-2.0%	0.2%
Kazakhstan	7.4	7.6	6.2	4.2	5.5	6.1	7.6	7.4	9.3	10.8	10.8	0.3%	0.4%
Russian Federation	599.8	597.4	576.5	566.4	555.4	561.1	532.6	551.3	551.0	545.0	542.4	-0.5%	22.0%
Turkmenistan	78.6	56.1	60.9	33.3	30.1	32.8	16.1	12.4	21.3	43.8	47.9	9.1%	1.9%
Ukraine	22.8	19.6	17.9	17.0	17.0	17.2	17.4	16.8	16.9	16.7	17.1	2.3%	0.7%
Uzbekistan	39.1	39.9	42.0	44.0	45.3	45.7	47.8	51.1	51.9	52.6	53.5	1.8%	2.2%
Other Former Soviet Union	0.6	0.6	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	-8.7%	♦
Total Former Soviet Union	756.3	728.6	710.2	671.3	659.9	669.1	627.4	644.6	656.4	674.6	677.3	0.4%	27.5%
Bahrain	5.5	6.5	6.9	7.1	7.2	7.4	8.0	8.4	8.7	8.8	8.9	1.4%	0.4%
Iran	25.8	25.0	27.1	31.8	35.3	39.0	47.0	50.0	57.8	60.2	60.6	0.6%	2.5%
Kuwait	0.5	2.6	5.4	6.0	9.3	9.3	9.3	9.5	8.6	9.6	9.5	-1.0%	0.4%
Oman	2.6	2.9	2.8	2.9	4.1	4.4	5.0	5.2	5.5	8.4	13.4	59.7%	0.5%
Qatar	7.6	12.6	13.5	13.5	13.5	13.7	17.4	19.6	22.1	29.1	32.5	11.7%	1.3%
Saudi Arabia	35.2	38.3	40.0	42.8	42.9	44.4	45.3	46.8	46.2	49.8	53.7	7.8%	2.2%
United Arab Emirates	23.8	22.2	23.0	25.8	31.3	33.8	36.3	37.1	38.5	39.8	41.3	3.8%	1.7%
Other Middle East	3.4	4.0	4.2	4.9	5.3	6.0	7.2	7.5	7.9	7.9	8.1	2.0%	0.3%
Total Middle East	104.4	114.1	122.9	134.8	148.9	158.0	175.5	184.1	195.3	213.6	228.0	6.7%	9.3%
Algeria	53.2	55.3	56.1	51.6	58.7	62.3	71.8	76.6	86.0	84.4	78.2	-7.3%	3.2%
Egypt	7.8	8.4	10.0	10.6	11.0	11.5	11.6	12.2	14.7	18.3	21.0	14.4%	0.9%
Libya	5.9	6.1	5.8	5.8	5.8	5.8	6.0	5.8	5.5	5.4	5.4	-	0.2%
Nigeria	3.9	4.3	4.9	4.4	4.8	5.4	5.1	5.1	6.0	10.8	13.4	23.6%	0.5%
Other Africa	1.1	1.1	2.7	2.9	3.0	4.2	4.9	5.0	5.4	5.6	6.0	5.8%	0.2%
Total Africa	71.9	75.2	79.5	75.3	83.3	89.2	99.4	104.7	117.6	124.5	124.0	-0.5%	5.0%
Australia	21.7	23.5	24.5	28.1	29.8	30.6	30.0	30.4	30.6	31.1	32.7	5.3%	1.3%
Bangladesh	5.3	5.7	6.1	6.6	7.4	7.6	7.6	7.8	8.3	10.0	10.8	8.2%	0.4%
Brunei	9.1	9.8	10.3	10.4	11.8	11.7	11.7	10.8	11.2	11.3	11.4	1.0%	0.5%
China	14.9	15.1	16.2	16.6	17.6	19.9	22.2	22.3	24.3	27.2	30.3	11.5%	1.2%
India	14.2	15.9	16.1	17.3	18.8	20.4	20.7	24.6	24.9	26.1	26.4	1.1%	1.1%
Indonesia	51.5	54.3	56.2	62.9	63.8	67.1	67.6	64.7	71.4	67.3	62.9	-6.4%	2.6%
Malaysia	20.4	22.8	24.9	26.1	28.9	33.6	38.6	38.5	40.8	45.3	47.4	4.7%	1.9%
Pakistan	11.1	11.5	12.2	13.3	14.6	15.4	15.6	16.0	17.3	18.9	19.9	5.2%	0.8%
Thailand	7.0	7.5	8.4	9.5	10.1	11.8	14.1	15.5	16.9	17.9	18.1	1.0%	0.7%
Other Asia Pacific	8.7	9.1	9.5	9.5	9.2	10.2	10.8	10.6	11.6	18.6	20.1	8.3%	0.8%
Total Asia Pacific	163.9	175.2	184.4	200.3	212.0	228.3	238.9	241.2	257.3	273.7	280.0	2.4%	11.4%
TOTAL WORLD	2026.8	2039.4	2073.5	2095.7	2136.1	2230.0	2233.0	2284.1	2339.3	2421.8	2464.0	1.7%	100.0%
of which: European Union 15	163.8	165.7	177.0	179.8	187.0	210.4	203.3	202.3	206.4	211.6	212.9	0.6%	8.6%
OECD	871.0	891.5	919.6	960.0	973.8	1024.3	1028.3	1041.5	1045.1	1061.7	1080.4	1.8%	43.8%
Former Soviet Union	756.3	728.6	710.2	671.3	659.9	669.1	627.4	644.6	656.4	674.6	677.3	0.4%	27.5%
Other EMEs	399.6	419.3	443.6	464.4	502.1	536.6	577.0	597.6	638.0	685.6	706.4	3.0%	28.7%

*Excluding gas flared or recycled.

♦Less than 0.05%.

Notes: As far as possible, the data above represents standard cubic metres (measured at 15°C and 1013 mbar); as it is derived directly from tonnes of oil equivalent using an average conversion factor, it does not necessarily equate with gas volumes expressed in specific national terms.

Because of rounding some totals may not agree exactly with the sum of their component parts.

Natural gas production data expressed in billion cubic feet per day is available at www.bp.com/centres/energy/

production*

Million tonnes oil equivalent	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Change 2001 over 2000	2001 share of total
USA	459.4	463.1	468.3	487.6	481.4	488.0	488.8	494.3	487.4	490.4	499.9	1.9%	22.5%
Canada	94.8	104.5	112.9	122.3	133.4	138.2	140.6	144.5	146.0	151.0	154.8	2.5%	7.0%
Mexico	25.1	25.0	25.0	25.8	25.3	28.1	30.4	32.9	34.6	33.4	31.3	-6.3%	1.4%
Total North America	579.3	592.6	606.2	635.7	640.1	654.3	659.8	671.7	668.0	674.8	686.0	1.6%	30.9%
Argentina	17.9	18.1	19.4	20.0	22.5	23.9	24.6	26.6	31.1	33.7	34.5	2.6%	1.6%
Bolivia	2.7	2.7	2.7	3.0	2.8	2.9	2.9	2.8	2.3	3.1	3.7	20.5%	0.2%
Brazil	3.5	3.6	4.0	4.1	4.3	5.0	5.4	5.6	6.1	6.1	6.9	13.3%	0.3%
Colombia	3.7	3.6	3.8	3.7	4.0	4.2	5.3	5.6	4.7	5.3	5.5	3.0%	0.2%
Trinidad & Tobago	5.1	5.4	5.3	5.6	5.5	6.4	6.7	7.8	9.8	11.7	11.6	-0.5%	0.5%
Venezuela	19.7	19.5	21.0	22.2	24.8	26.8	27.7	29.1	24.7	25.1	26.0	3.3%	1.2%
Other S. & Cent. America	1.8	2.0	1.9	2.0	2.0	2.0	2.1	2.3	1.9	1.9	1.8	-2.6%	0.1%
Total S. & Cent. America	54.4	54.9	58.1	60.6	65.9	71.2	74.7	79.8	80.6	86.9	90.0	3.7%	4.1%
Denmark	3.6	3.7	4.1	4.4	4.8	5.8	7.1	6.8	7.0	7.3	7.5	3.5%	0.3%
Germany	13.2	13.4	13.4	14.0	14.5	15.7	15.4	15.0	16.1	15.2	15.3	0.9%	0.7%
Hungary	3.8	3.6	3.9	3.7	3.7	3.6	3.3	3.0	2.6	2.4	2.5	1.0%	0.1%
Italy	15.7	16.3	17.5	18.6	18.3	18.0	17.3	17.1	15.7	14.6	13.9	-4.6%	0.6%
Netherlands	62.1	62.2	63.0	59.7	60.3	68.2	60.4	57.2	53.3	51.6	55.2	7.1%	2.5%
Norway	24.6	26.5	26.0	27.7	28.0	36.9	42.0	43.0	45.9	48.6	51.7	6.4%	2.3%
Romania	22.0	19.6	18.5	16.8	16.2	15.5	13.5	12.6	12.6	12.4	11.3	-8.5%	0.5%
United Kingdom	45.6	46.3	54.5	58.2	63.7	75.8	77.3	81.2	89.2	97.4	95.2	-2.3%	4.3%
Other Europe	12.9	12.6	13.6	13.0	13.2	12.0	11.5	11.0	10.5	10.6	10.5	-1.4%	0.5%
Total Europe	203.5	204.2	214.5	216.1	222.7	251.5	247.8	246.9	252.9	260.1	263.1	1.2%	11.9%
Azerbaijan	7.2	6.6	5.7	5.4	5.5	5.3	5.0	4.7	5.0	4.7	4.7	-2.0%	0.2%
Kazakhstan	6.6	6.8	5.6	3.8	5.0	5.5	6.8	6.7	8.4	9.7	9.7	0.3%	0.4%
Russian Federation	539.8	537.6	518.8	509.8	499.9	505.0	479.3	496.2	495.9	490.5	488.2	-0.5%	22.0%
Turkmenistan	70.8	50.5	54.8	30.0	27.1	29.6	14.5	11.2	19.1	39.5	43.1	9.1%	1.9%
Ukraine	20.5	17.6	16.1	15.3	15.3	15.4	15.7	15.1	15.2	15.0	15.4	2.3%	0.7%
Uzbekistan	35.2	35.9	37.8	39.6	40.8	41.1	43.0	46.0	46.7	47.4	48.2	1.8%	2.2%
Other Former Soviet Union	0.5	0.5	0.4	0.3	0.3	0.2	0.3	0.4	0.3	0.4	0.3	-8.7%	*
Total Former Soviet Union	680.6	655.5	639.2	604.2	593.9	602.1	564.6	580.3	590.6	607.2	609.6	0.4%	27.5%
Bahrain	5.0	5.8	6.2	6.4	6.5	6.7	7.2	7.5	7.8	7.9	8.0	1.4%	0.4%
Iran	23.2	22.5	24.4	28.6	31.8	35.1	42.3	45.0	52.0	54.2	54.5	0.6%	2.5%
Kuwait	0.5	2.4	4.9	5.4	8.4	8.4	8.3	8.5	7.8	8.6	8.6	-1.0%	0.4%
Oman	2.4	2.6	2.5	2.6	3.6	3.9	4.5	4.7	4.9	7.6	12.1	59.7%	0.5%
Qatar	6.9	11.4	12.2	12.2	12.2	12.3	15.7	17.6	19.8	26.2	29.3	11.7%	1.3%
Saudi Arabia	31.7	34.4	36.0	38.5	38.6	40.0	40.8	42.1	41.6	44.8	48.3	7.8%	2.2%
United Arab Emirates	21.4	20.0	20.7	23.2	28.2	30.4	32.7	33.4	34.6	35.9	37.2	3.8%	1.7%
Other Middle East	3.1	3.6	3.8	4.4	4.8	5.4	6.5	6.7	7.1	7.1	7.3	2.0%	0.3%
Total Middle East	94.2	102.7	110.7	121.3	134.1	142.2	158.0	165.5	175.6	192.3	205.3	6.7%	9.3%
Algeria	47.9	49.8	50.5	46.5	52.8	56.1	64.6	68.9	77.4	76.0	70.4	-7.3%	3.2%
Egypt	7.0	7.6	9.0	9.5	9.9	10.4	10.5	11.0	13.2	16.5	18.9	14.4%	0.9%
Libya	5.3	5.5	5.2	5.2	5.2	5.2	5.4	5.2	5.0	4.9	4.9	-	0.2%
Nigeria	3.5	3.8	4.4	4.0	4.4	4.9	4.6	4.6	5.4	9.8	12.1	23.6%	0.5%
Other Africa	1.0	1.0	2.4	2.6	2.7	3.8	4.4	4.5	4.9	5.1	5.4	5.8%	0.2%
Total Africa	64.7	67.7	71.5	67.8	75.0	80.4	89.5	94.2	105.9	112.3	111.7	-0.5%	5.0%
Australia	19.5	21.1	22.0	25.3	26.8	27.5	27.0	27.3	27.5	28.0	29.4	5.3%	1.3%
Bangladesh	4.8	5.2	5.5	6.0	6.6	6.8	6.8	7.0	7.5	9.0	9.7	8.2%	0.4%
Brunei	8.2	8.8	9.3	9.4	10.6	10.5	10.5	9.7	10.1	10.2	10.3	1.0%	0.5%
China	13.4	13.6	14.6	14.9	15.8	17.9	20.0	20.1	21.9	24.5	27.3	11.5%	1.2%
India	12.8	14.3	14.5	15.6	16.9	18.4	18.6	22.2	22.4	23.5	23.7	1.1%	1.1%
Indonesia	46.4	48.9	50.6	56.6	57.4	60.4	60.8	58.2	64.3	60.5	56.6	-6.4%	2.6%
Malaysia	18.3	20.5	22.4	23.5	26.0	30.3	34.8	34.6	36.8	40.7	42.7	4.7%	1.9%
Pakistan	10.0	10.3	10.9	12.0	13.1	13.8	14.0	14.4	15.6	17.0	17.9	5.2%	0.8%
Thailand	6.3	6.8	7.6	8.6	9.1	10.6	12.7	13.9	15.3	16.1	16.3	1.0%	0.7%
Other Asia Pacific	7.9	8.2	8.5	8.5	8.3	9.2	9.7	9.5	10.4	16.7	18.1	8.3%	0.8%
Total Asia Pacific	147.6	157.7	165.9	180.4	190.6	205.4	214.9	216.9	231.8	246.2	252.0	2.4%	11.4%
TOTAL WORLD	1824.3	1835.3	1866.1	1886.1	1922.3	2007.1	2009.3	2055.3	2105.4	2179.8	2217.7	1.7%	100.0%
of which: European Union 15	147.4	149.2	159.3	161.8	168.3	189.3	183.0	182.1	185.7	190.4	191.6	0.6%	8.6%
OECD	783.9	802.4	827.6	864.0	876.4	921.8	925.5	937.3	940.5	955.5	972.3	1.8%	43.8%
Former Soviet Union	680.6	655.5	639.2	604.2	593.9	602.1	564.6	580.3	590.6	607.2	609.6	0.4%	27.5%
Other EMEs	359.7	377.4	399.2	418.0	451.9	483.0	519.3	537.9	574.2	617.1	635.8	3.0%	28.7%

*Excluding gas flared or recycled.

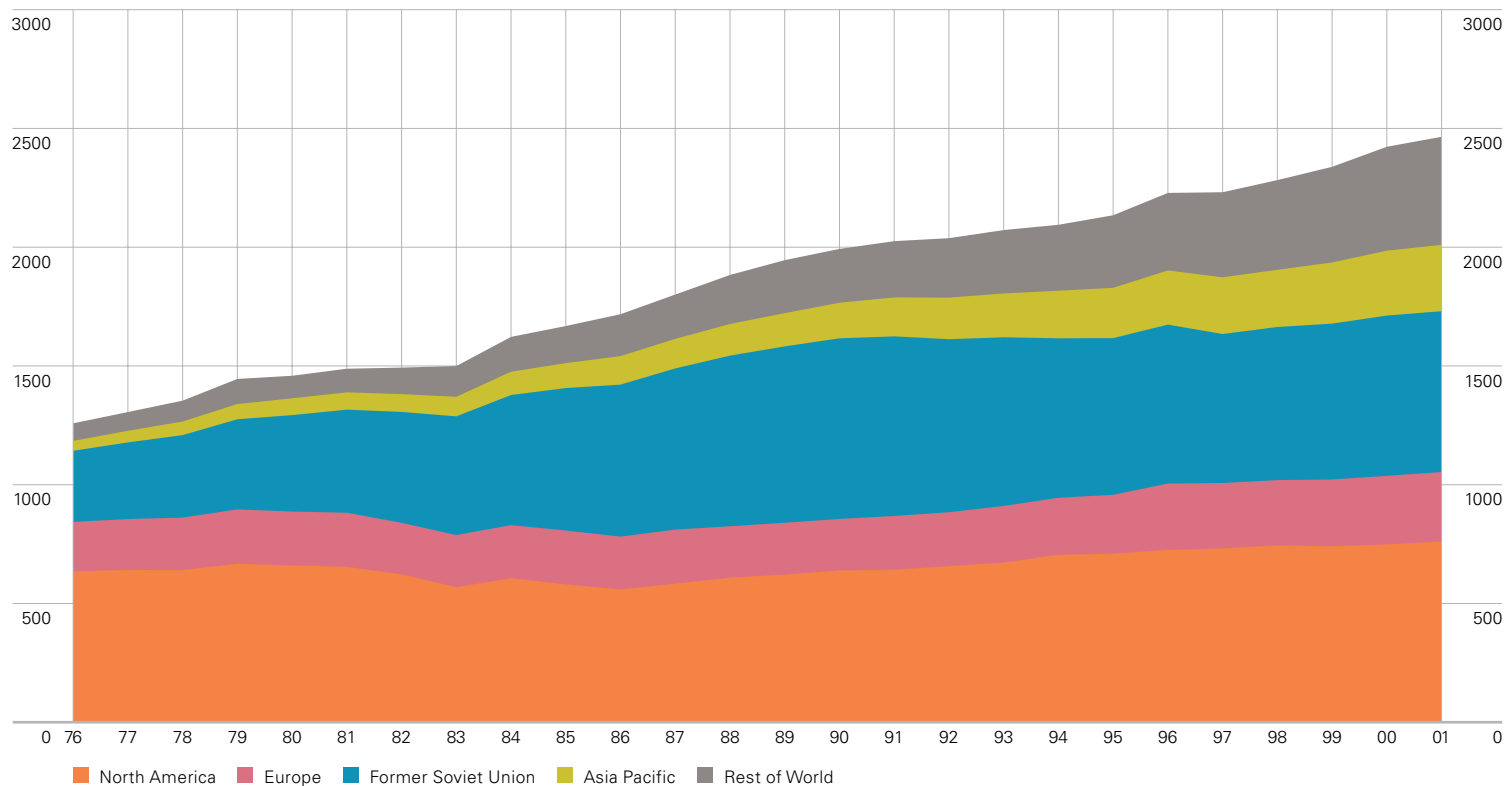
*Less than 0.05%.

Note: Because of rounding some totals may not agree exactly with the sum of their component parts.

natural gas

production by area

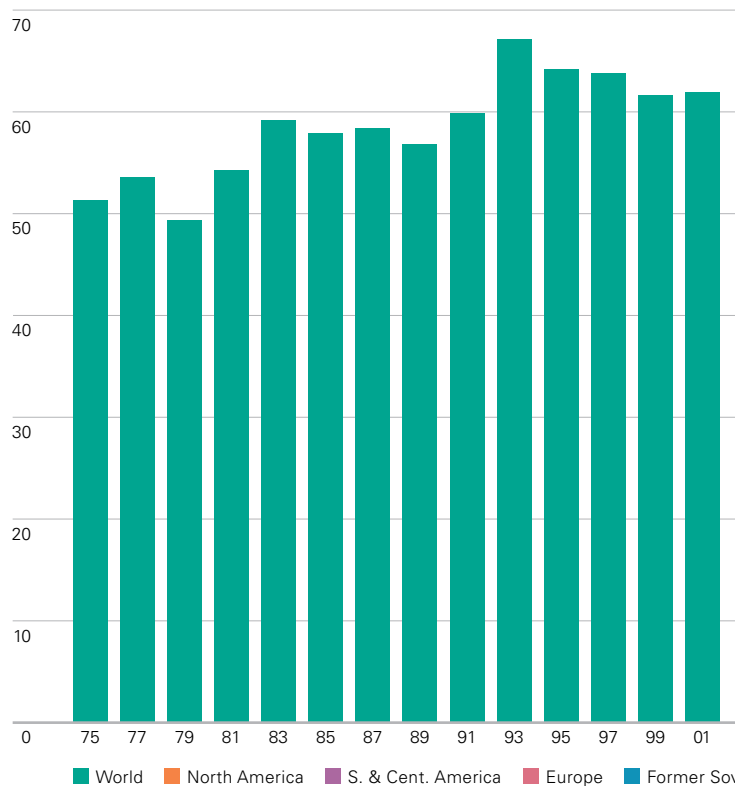
Billion cubic metres



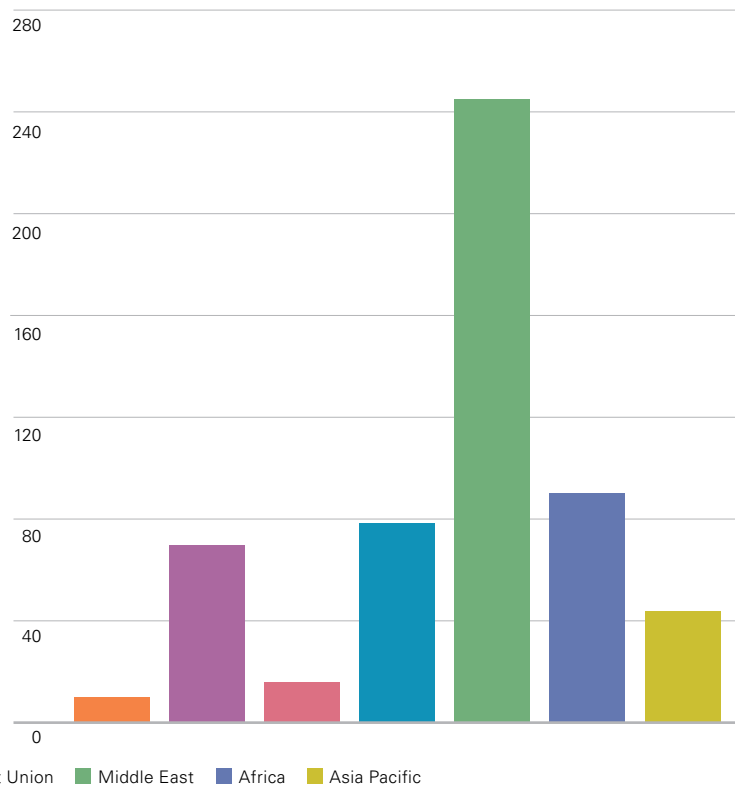
The rate of gas production growth halved in 2001 relative to a very strong 2000. However, the unbroken growth trend of the previous decade was maintained.

R/P ratios

World – Reserves to production ratio



2001 by area – Reserves to production ratio



The world's gas R/P ratio increased to 61.9 at the end of 2001, leaving it two years higher than a decade earlier. Large reserve increases in major LNG exporting countries (Indonesia, Qatar and Australia) outweighed a 1.7% increase in global production.

consumption

Billion cubic metres	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Change 2001 over 2000	2001 share of total
USA	549.0	563.7	583.2	596.1	620.6	631.7	630.9	614.3	621.7	647.1	616.2	-4.8%	25.6%
Canada	63.0	66.8	68.4	70.8	70.9	74.3	74.8	70.3	72.7	77.5	72.6	-6.4%	3.0%
Mexico	27.7	27.7	28.2	29.4	29.7	31.0	31.7	34.4	33.8	34.9	33.7	-3.3%	1.4%
Total North America	639.7	658.2	679.8	696.3	721.2	737.0	737.4	719.0	728.2	759.5	722.5	-4.9%	30.0%
Argentina	22.1	22.3	23.6	24.3	27.0	28.6	28.5	30.5	32.4	33.2	33.2	♦	1.4%
Brazil	3.9	4.0	4.5	4.5	4.8	5.5	6.0	6.3	7.1	9.1	10.9	19.3%	0.5%
Chile	1.5	1.7	1.6	1.7	1.6	1.7	2.8	3.3	4.6	5.2	5.6	6.5%	0.2%
Colombia	4.1	4.0	4.2	4.2	4.4	4.7	5.9	6.2	5.2	5.9	6.1	2.6%	0.3%
Ecuador	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	♦
Peru	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.4	0.3	0.4	7.1%	♦
Venezuela	21.9	21.6	23.3	24.7	27.5	29.7	30.8	32.3	27.4	27.9	28.9	3.3%	1.2%
Other S. & Cent. America	6.5	6.8	6.8	7.3	7.3	8.2	8.9	9.7	10.3	11.2	11.8	5.2%	0.5%
Total S. & Cent. America	60.5	60.9	64.5	67.2	73.1	78.9	83.2	88.8	87.5	92.9	97.0	4.1%	4.0%
Austria	6.1	6.0	6.4	6.5	6.8	7.3	7.7	7.6	7.7	7.3	7.4	0.6%	0.3%
Belgium & Luxembourg	10.0	10.0	11.0	10.8	11.8	13.1	12.5	13.8	14.7	14.9	14.7	-1.4%	0.6%
Bulgaria	5.0	4.3	4.1	4.1	5.0	5.2	4.1	3.4	3.0	2.9	2.6	-9.3%	0.1%
Czech Republic	5.9	5.8	5.9	6.3	7.3	8.4	8.5	8.5	8.6	8.3	8.9	7.0%	0.4%
Denmark	2.3	2.4	2.8	3.0	3.5	4.1	4.4	4.8	5.0	4.9	5.1	4.4%	0.2%
Finland	2.6	2.7	2.8	3.1	3.2	3.3	3.2	3.7	3.7	3.7	4.1	8.5%	0.2%
France	30.6	31.4	32.3	30.9	32.9	36.1	34.6	37.0	37.7	39.7	40.7	2.5%	1.7%
Germany	62.9	63.0	66.4	67.9	74.4	83.6	79.2	79.7	80.2	79.5	82.9	4.3%	3.4%
Greece	0.1	0.1	0.1	†	†	†	0.2	0.8	1.4	1.9	1.9	1.1%	0.1%
Hungary	9.6	8.2	9.0	9.4	10.2	11.4	10.8	10.9	11.0	10.7	11.9	11.1%	0.5%
Iceland	-	-	-	-	-	-	-	-	-	-	-	-	-
Republic of Ireland	2.1	2.1	2.4	2.4	2.6	3.0	3.1	3.1	3.3	3.8	4.0	4.3%	0.2%
Italy	46.2	45.7	46.8	45.3	49.9	51.5	53.2	57.2	62.2	64.9	64.5	-0.6%	2.7%
Netherlands	38.1	36.7	37.9	36.9	37.8	41.7	39.1	38.7	37.9	39.2	39.3	0.2%	1.6%
Norway	2.4	2.6	2.7	2.9	2.9	3.2	3.7	3.8	3.6	4.0	4.5	10.6%	0.2%
Poland	8.8	8.7	9.0	9.2	9.9	10.6	10.5	10.6	10.3	11.1	11.4	2.7%	0.5%
Portugal	-	-	-	-	-	-	0.1	0.8	2.3	2.4	2.5	7.6%	0.1%
Romania	24.7	25.4	25.2	24.2	24.0	24.2	20.0	18.7	17.2	17.1	17.5	2.3%	0.7%
Slovakia	5.4	5.5	5.2	5.0	5.7	6.2	6.3	6.4	6.4	6.5	7.4	14.3%	0.3%
Spain	6.1	6.5	6.5	7.2	8.3	9.3	12.3	13.1	15.0	16.9	18.2	7.7%	0.8%
Sweden	0.7	0.7	0.8	0.8	0.8	0.9	0.8	0.9	0.8	0.7	0.8	4.8%	♦
Switzerland	2.0	2.1	2.2	2.2	2.4	2.6	2.5	2.6	2.7	2.7	2.8	4.2%	0.1%
Turkey	4.4	4.5	5.0	6.5	6.8	9.0	9.4	9.9	12.0	14.1	15.5	9.7%	0.6%
United Kingdom	56.6	56.4	64.2	66.1	70.5	82.1	83.8	87.2	92.5	96.0	95.4	-0.6%	4.0%
Other Europe	6.7	6.0	5.0	4.0	4.2	6.0	6.1	5.9	5.3	5.6	6.1	7.8%	0.3%
Total Europe	339.3	336.8	353.7	354.7	380.9	422.8	416.1	429.1	444.5	458.8	470.1	2.4%	19.5%
Azerbaijan	15.1	11.8	8.7	8.1	8.0	5.9	5.6	5.2	5.6	5.4	8.4	55.2%	0.3%
Belarus	14.5	16.8	15.6	13.6	12.3	13.0	14.8	15.0	15.3	16.2	16.1	-0.6%	0.7%
Kazakhstan	13.2	13.5	13.0	10.3	10.8	9.0	7.1	7.3	7.9	9.7	10.1	3.8%	0.4%
Lithuania	5.4	3.0	1.7	2.0	2.3	2.5	2.6	2.3	2.4	2.7	2.8	3.8%	0.1%
Russian Federation	431.1	417.3	416.0	390.9	377.8	379.9	350.4	364.7	363.6	377.2	372.7	-1.2%	15.5%
Turkmenistan	9.6	9.3	9.3	10.2	8.0	10.0	10.1	10.3	11.3	12.6	12.9	2.2%	0.5%
Ukraine	121.5	103.5	92.9	81.3	76.2	82.5	74.3	68.8	70.6	68.5	65.8	-4.0%	2.7%
Uzbekistan	37.1	37.3	40.7	41.3	42.4	43.3	45.4	47.0	49.3	47.1	51.1	8.5%	2.1%
Other Former Soviet Union	18.2	15.7	11.1	9.3	9.1	7.9	8.8	9.2	7.9	7.6	8.6	13.4%	0.4%
Total Former Soviet Union	665.7	628.2	609.0	567.0	546.9	554.0	519.1	529.8	533.9	547.0	548.5	0.3%	22.8%
Iran	22.7	25.0	26.6	31.8	35.2	38.9	47.1	51.8	59.8	63.0	65.0	3.2%	2.7%
Kuwait	0.5	2.6	5.4	6.0	9.3	9.3	9.3	9.5	8.6	9.6	9.5	-1.0%	0.4%
Qatar	7.6	12.6	13.5	13.5	13.5	13.7	14.6	14.8	14.0	15.1	16.0	6.0%	0.7%
Saudi Arabia	35.2	38.3	40.0	42.8	42.9	44.4	45.3	46.8	46.2	49.8	53.7	7.8%	2.2%
United Arab Emirates	20.4	18.8	19.6	21.7	24.8	27.2	29.0	30.4	31.4	32.9	34.3	4.2%	1.4%
Other Middle East	11.6	13.3	13.9	14.9	16.1	17.3	19.6	20.5	21.5	22.3	23.0	2.9%	1.0%
Total Middle East	98.0	110.6	119.0	130.7	141.8	150.8	164.9	173.8	181.5	192.7	201.5	4.5%	8.4%
Algeria	17.0	17.8	18.6	19.6	21.0	21.4	20.2	20.9	21.2	21.0	21.6	2.7%	0.9%
Egypt	7.7	8.4	9.7	10.4	11.0	11.3	11.6	12.0	14.3	18.3	21.0	14.4%	0.9%
South Africa	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Africa	10.5	11.2	11.6	11.9	12.8	14.3	14.4	14.9	14.6	16.2	17.6	8.4%	0.7%
Total Africa	35.2	37.4	39.9	41.9	44.8	47.0	46.2	47.8	50.1	55.5	60.2	8.2%	2.5%
Australia	17.0	16.9	17.4	19.4	19.5	19.9	19.6	20.3	19.8	21.3	22.5	6.0%	0.9%
Bangladesh	5.3	5.7	6.1	6.6	7.4	7.6	7.6	7.8	8.3	10.0	10.8	8.2%	0.4%
China	14.9	15.1	16.2	16.6	17.7	17.7	19.3	19.3	21.4	24.5	27.7	12.9%	1.2%
China Hong Kong SAR	-	-	-	-	†	1.7	2.6	2.5	2.7	2.5	2.5	0.9%	0.1%
India	14.1	15.8	16.3	17.4	19.6	20.6	21.3	24.2	24.8	26.0	26.3	1.3%	1.1%
Indonesia	21.7	22.6	23.9	27.3	30.1	31.4	31.9	27.8	31.8	30.6	29.7	-2.9%	1.2%
Japan	54.7	56.0	56.3	60.3	61.2	66.1	65.1	69.5	74.6	76.2	79.0	3.7%	3.3%
Malaysia	9.0	10.6	13.0	13.6	13.7	15.9	16.7	17.4	18.5	20.3	21.6	6.2%	0.9%
New Zealand	4.6	4.9	4.7	4.4	4.2	4.7	5.1	4.5	5.2	5.5	5.7	5.1%	0.2%
Pakistan	11.1	11.5	12.2	13.3	14.6	15.4	15.6	16.0	17.3	18.9	20.1	6.1%	0.8%
Philippines	-	-	-	†	†	†	†	†	†	†	0.1	>100.0%	♦
Singapore	-	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.7	2.5	43.3%	0.1%
South Korea	3.9	5.1	6.4	8.5	10.2	13.5	16.4	15.4	18.7	21.0	23.1	9.8%	1.0%
Taiwan	3.0	3.2	3.1	4.0	4.3	4.5	5.1	6.4	6.2	6.9	7.5	9.7%	0.3%
Thailand	7.0	7.5	8.4	9.5	10.0	11.8	14.6	15.9	17.4	20.5	21.1	3.0%	0.9%
Other Asia Pacific	2.5	2.7	3.1	3.3	3.4	3.7	4.2	4.5	4.8	4.9	4.9	0.2%	0.2%
Total Asia Pacific	168.8	178.7	188.6	205.7	217.4	236.0	246.6	253.0	273.0	290.8	305.1	5.0%	12.7%
TOTAL WORLD	2007.2	2010.8	2054.5	2063.5	2126.1	2226.5	2213.5	2241.3	2298.7	2397.2	2404.9	0.3%	100.0%
of which: European Union 15	264.4	263.7	280.4	280.9	302.5	336.0	334.2	348.4	364.4	375.8	381.5	1.5%	15.9%
OECD	1022.8	1042.2	1084.0	1111.3	1164.0	1228.6	1229.5	1229.8	1265.5	1316.7	1296.7	-1.5%	53.9%
Former Soviet Union	665.7	628.2	609.0	567.0	546.9	554.0	519.1	529.8	533.9	547.0	548.5	0.3%	22.8%
Other EMEs	318.7	340.4	361.5	385.2	415.2	443.9	464.9	481.7	499.3	533.5	559.7	4.8%	23.3%

† Less than 0.05.

♦ Less than 0.05%.

Notes: The difference between these world consumption figures and the world production statistics on page 22 is due to variations in stocks at storage facilities and liquefaction plants, together with unavoidable disparities in the definition, measurement or conversion of gas supply and demand data.

As far as possible, the data above represents standard cubic metres (measured at 15°C and 1013 mbar); as it is derived directly from tonnes of oil equivalent using an average conversion factor, it does not necessarily equate with gas volumes expressed in specific national terms.

Natural gas consumption data expressed in billion cubic feet per day is available at www.bp.com/centres/energy/

natural gas

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	494.1	507.3	524.9	536.5	558.5	568.5	567.8	552.8	559.6	582.4	554.6	-4.8%	25.6%
Canada	56.7	60.2	61.6	63.8	63.8	66.9	67.3	63.3	65.4	69.8	65.4	-6.4%	3.0%
Mexico	24.9	24.9	25.4	26.5	26.7	27.9	28.5	30.9	30.4	31.4	30.4	-3.3%	1.4%
Total North America	575.7	592.4	611.9	626.8	649.0	663.3	663.6	647.0	655.4	683.6	650.4	-4.9%	30.0%
Argentina	19.9	20.1	21.2	21.9	24.3	25.7	25.7	27.5	29.1	29.9	29.9	♦	1.4%
Brazil	3.5	3.6	4.0	4.1	4.3	5.0	5.4	5.6	6.4	8.2	9.8	19.3%	0.5%
Chile	1.3	1.5	1.4	1.5	1.5	1.5	2.5	2.9	4.1	4.7	5.0	6.5%	0.2%
Colombia	3.7	3.6	3.8	3.7	4.0	4.2	5.3	5.6	4.7	5.3	5.5	2.6%	0.3%
Ecuador	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	♦
Peru	0.4	0.3	0.4	0.4	0.4	0.4	0.2	0.4	0.4	0.3	0.3	7.1%	♦
Venezuela	19.7	19.5	21.0	22.2	24.8	26.8	27.7	29.1	24.7	25.1	26.0	3.3%	1.2%
Other S. & Cent. America	5.8	6.1	6.1	6.5	6.5	7.4	8.0	8.8	9.3	10.1	10.6	5.2%	0.5%
Total S. & Cent. America	54.4	54.8	58.0	60.4	65.9	71.1	74.9	80.0	78.8	83.7	87.2	4.1%	4.0%
Austria	5.4	5.4	5.7	5.8	6.1	6.6	6.9	6.8	6.9	6.6	6.6	0.6%	0.3%
Belgium & Luxembourg	9.0	9.0	9.9	9.7	10.6	11.8	11.3	12.4	13.3	13.4	13.2	-1.4%	0.6%
Bulgaria	4.5	3.9	3.7	3.7	4.5	4.6	3.7	3.1	2.7	2.6	2.3	-9.3%	0.1%
Czech Republic	5.3	5.2	5.3	5.7	6.5	7.6	7.7	7.7	7.7	7.5	8.0	7.0%	0.4%
Denmark	2.1	2.2	2.5	2.7	3.1	3.7	3.9	4.3	4.5	4.4	4.6	4.4%	0.2%
Finland	2.4	2.5	2.6	2.8	2.9	3.0	2.9	3.3	3.3	3.4	3.7	8.5%	0.2%
France	27.5	28.3	29.0	27.8	29.6	32.5	31.2	33.3	33.9	35.7	36.6	2.5%	1.7%
Germany	56.6	56.7	59.8	61.1	67.0	75.2	71.3	71.7	72.1	71.5	74.6	4.3%	3.4%
Greece	0.1	0.1	0.1	†	†	†	0.2	0.7	1.2	1.7	1.8	1.1%	0.1%
Hungary	8.6	7.4	8.1	8.4	9.2	10.2	9.7	9.8	9.9	9.6	10.7	11.1%	0.5%
Iceland	-	-	-	-	-	-	-	-	-	-	-	-	-
Republic of Ireland	1.9	1.9	2.2	2.2	2.3	2.7	2.8	2.8	3.0	3.4	3.6	4.3%	0.2%
Italy	41.5	41.1	42.1	40.8	44.9	46.4	47.9	51.5	56.0	58.4	58.0	-0.6%	2.7%
Netherlands	34.2	33.0	34.1	33.2	34.0	37.5	35.2	34.9	34.1	35.3	35.3	0.2%	1.6%
Norway	2.2	2.3	2.4	2.6	2.7	2.9	3.3	3.4	3.2	3.6	4.0	10.6%	0.2%
Poland	7.9	7.8	8.1	8.2	8.9	9.5	9.4	9.5	9.3	10.0	10.2	2.7%	0.5%
Portugal	-	-	-	-	-	-	0.1	0.7	2.0	2.1	2.3	7.6%	0.1%
Romania	22.3	22.8	22.7	21.8	21.6	21.8	18.0	16.8	15.5	15.4	15.8	2.3%	0.7%
Slovakia	4.9	4.9	4.6	4.5	5.1	5.5	5.6	5.7	5.8	5.8	6.7	14.3%	0.3%
Spain	5.5	5.9	5.8	6.5	7.5	8.4	11.1	11.8	13.5	15.2	16.4	7.7%	0.8%
Sweden	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.8	0.7	0.7	4.8%	♦
Switzerland	1.8	1.9	2.0	2.0	2.2	2.4	2.3	2.4	2.4	2.4	2.5	4.2%	0.1%
Turkey	4.0	4.1	4.5	5.9	6.2	8.1	8.5	8.9	10.8	12.7	14.0	9.7%	0.6%
United Kingdom	51.0	50.7	57.8	59.5	63.5	73.9	75.4	78.5	83.2	86.4	85.9	-0.6%	4.0%
Other Europe	6.0	5.4	4.5	3.6	3.8	5.4	5.5	5.3	4.8	5.1	5.5	7.8%	0.3%
Total Europe	305.3	303.2	318.2	319.2	342.9	380.5	374.6	386.1	399.9	412.9	423.0	2.4%	19.5%
Azerbaijan	13.6	10.6	7.8	7.3	7.2	5.3	5.0	4.7	5.0	4.9	7.6	55.2%	0.3%
Belarus	13.0	15.1	14.0	12.3	11.1	11.7	13.3	13.5	13.8	14.6	14.5	-0.6%	0.7%
Kazakhstan	11.8	12.2	11.7	9.2	9.7	8.1	6.4	6.5	7.1	8.7	9.1	3.8%	0.4%
Lithuania	4.9	2.7	1.5	1.8	2.1	2.3	2.4	2.1	2.2	2.5	2.5	3.8%	0.1%
Russian Federation	388.0	375.5	374.4	351.8	340.0	341.9	315.3	328.3	327.3	339.5	335.4	-1.2%	15.5%
Turkmenistan	8.6	8.4	8.4	9.2	7.2	9.0	9.1	9.2	10.2	11.3	11.6	2.2%	0.5%
Ukraine	109.3	93.2	83.6	73.2	68.6	74.2	66.8	61.9	63.6	61.6	59.2	-4.0%	2.7%
Uzbekistan	33.4	33.6	36.6	37.2	38.1	39.0	40.9	42.3	44.3	42.4	46.0	8.5%	2.1%
Other Former Soviet Union	16.4	14.1	10.0	8.4	8.2	7.1	7.9	8.3	7.1	6.8	7.7	13.4%	0.4%
Total Former Soviet Union	599.0	565.4	548.0	510.4	492.2	498.6	467.1	476.8	480.6	492.3	493.6	0.3%	22.8%
Iran	20.5	22.5	23.9	28.6	31.7	35.0	42.4	46.6	53.8	56.7	58.5	3.2%	2.7%
Kuwait	0.5	2.4	4.9	5.4	8.4	8.4	8.3	8.5	7.8	8.6	8.6	-1.0%	0.4%
Qatar	6.9	11.4	12.2	12.2	12.2	12.3	13.2	13.3	12.6	13.6	14.4	6.0%	0.7%
Saudi Arabia	31.7	34.4	36.0	38.5	38.6	40.0	40.8	42.1	41.6	44.8	48.3	7.8%	2.2%
United Arab Emirates	18.3	16.9	17.7	19.5	22.3	24.4	26.1	27.4	28.3	29.6	30.8	4.2%	1.4%
Other Middle East	10.4	12.0	12.5	13.4	14.5	15.6	17.7	18.5	19.4	20.1	20.7	2.9%	1.0%
Total Middle East	88.3	99.6	107.2	117.6	127.7	135.7	148.5	156.4	163.5	173.4	181.3	4.5%	8.4%
Algeria	15.3	16.0	16.7	17.6	18.9	19.3	18.1	18.8	19.1	18.9	19.4	2.7%	0.9%
Egypt	6.9	7.5	8.7	9.4	9.9	10.2	10.4	10.8	12.9	16.5	18.9	14.4%	0.9%
South Africa	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Africa	9.5	10.1	10.5	10.7	11.5	12.9	12.9	13.4	13.1	14.6	15.8	8.4%	0.7%
Total Africa	31.7	33.6	35.9	37.7	40.3	42.4	41.4	43.0	45.1	50.0	54.1	8.2%	2.5%
Australia	15.3	15.2	15.7	17.5	17.6	17.9	17.6	18.3	17.8	19.1	20.3	6.0%	0.9%
Bangladesh	4.8	5.2	5.5	6.0	6.6	6.8	6.8	7.0	7.5	9.0	9.7	8.2%	0.4%
China	13.4	13.6	14.6	14.9	15.9	15.9	17.4	17.4	19.3	22.1	24.9	12.9%	1.2%
China Hong Kong SAR	-	-	-	-	†	1.5	2.4	2.2	2.4	2.2	2.2	0.9%	0.1%
India	12.7	14.3	14.7	15.7	17.7	18.5	19.1	21.8	22.3	23.4	23.7	1.3%	1.1%
Indonesia	19.5	20.3	21.5	24.6	27.0	28.2	28.7	25.0	28.7	27.5	26.7	-2.9%	1.2%
Japan	49.2	50.4	50.7	54.3	55.0	59.5	58.6	62.5	67.1	68.6	71.1	3.7%	3.3%
Malaysia	8.1	9.5	11.7	12.3	12.4	14.3	15.0	15.7	16.7	18.3	19.4	6.2%	0.9%
New Zealand	4.2	4.4	4.3	4.0	3.7	4.3	4.6	4.0	4.7	4.9	5.2	5.1%	0.2%
Pakistan	10.0	10.3	10.9	12.0	13.1	13.8	14.0	14.4	15.6	17.0	18.1	6.1%	0.8%
Philippines	-	-	-	†	†	†	†	†	†	†	0.1	>100.0%	♦
Singapore	-	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.6	2.3	43.3%	0.1%
South Korea	3.5	4.6	5.7	7.6	9.2	12.2	14.8	13.8	16.8	18.9	20.8	9.8%	1.0%
Taiwan	2.7	2.8	2.7	3.6	3.9	4.0	4.6	5.7	5.6	6.2	6.8	9.7%	0.3%
Thailand	6.3	6.8	7.6	8.6	9.0	10.7	13.1	14.3	15.6	18.4	19.0	3.0%	0.9%
Other Asia Pacific	2.3	2.4	2.7	2.9	3.0	3.4	3.8	4.1	4.4	4.4	4.4	0.2%	0.2%
Total Asia Pacific	152.0	160.8	169.7	185.4	195.5	212.4	221.9	227.6	245.9	261.6	274.7	5.0%	12.7%
TOTAL WORLD	1806.4	1809.8	1848.9	1857.5	1913.5	2004.0	1992.0	2016.9	2069.2	2157.5	2164.3	0.3%	100.0%
of which: European Union 15	237.8	237.5	252.3	252.8	272.2	302.5	300.9	313.5	327.8	338.2	343.3	1.5%	15.9%
OECD	920.4	938.1	975.6	1000.3	1047.5	1105.9	1106.6	1106.5	1138.7	1184.9	1167.2	-1.5%	53.9%
Former Soviet Union	599.0	565.4	548.0	510.4	492.2	498.6	467.1	476.8	480.6	492.3	493.6	0.3%	22.8%
Other EMEs	287.0	306.3	325.3	346.8	373.8	399.5	418.3	433.6	449.9	480.3	503.5	4.8%	23.3%

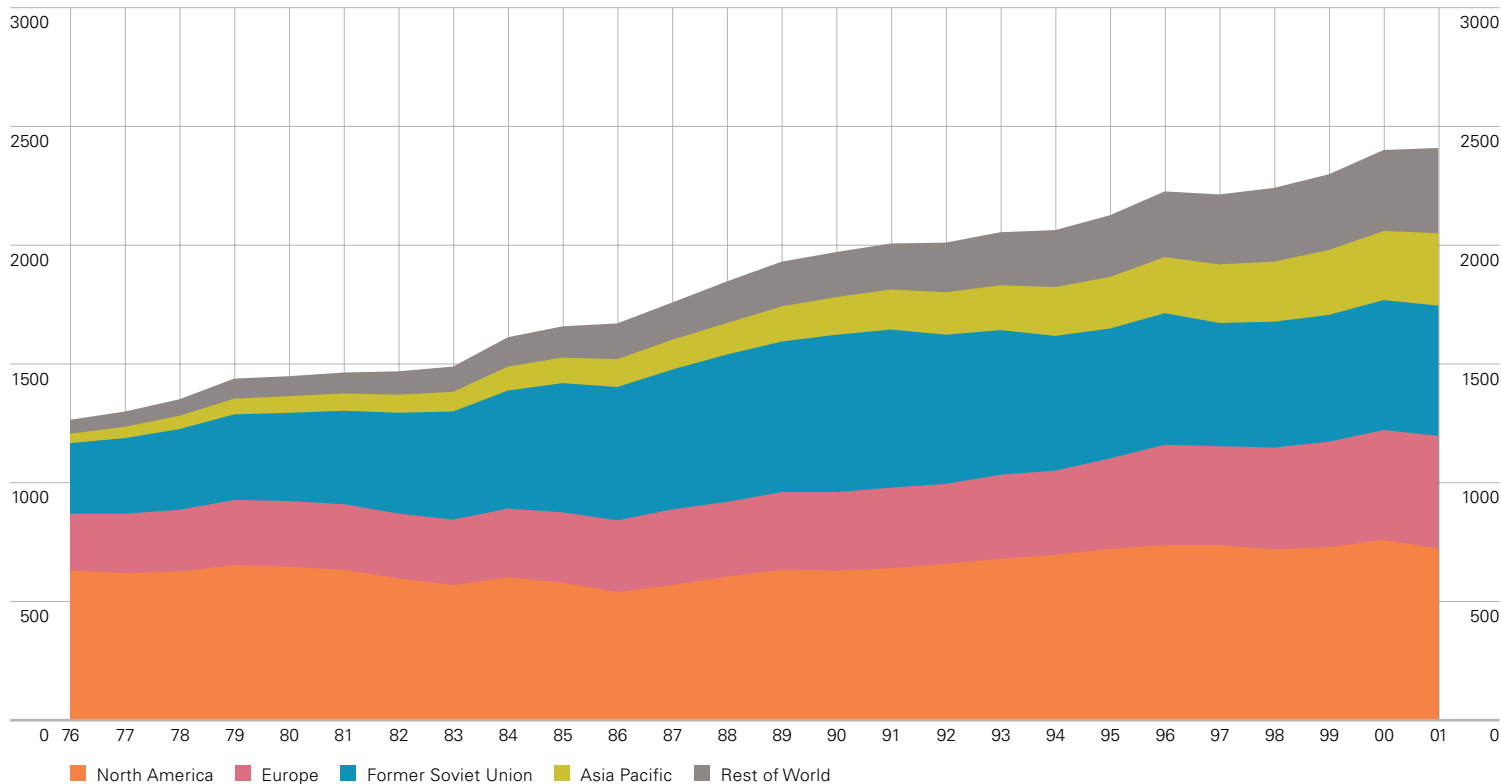
†Less than 0.05.

♦Less than 0.05%.

Note: The difference between these world consumption figures and the world production statistics on page 23 is due to variations in stocks at storage facilities and liquefaction plants, together with unavoidable disparities in the definition, measurement or conversion of gas supply and demand data.

consumption by area

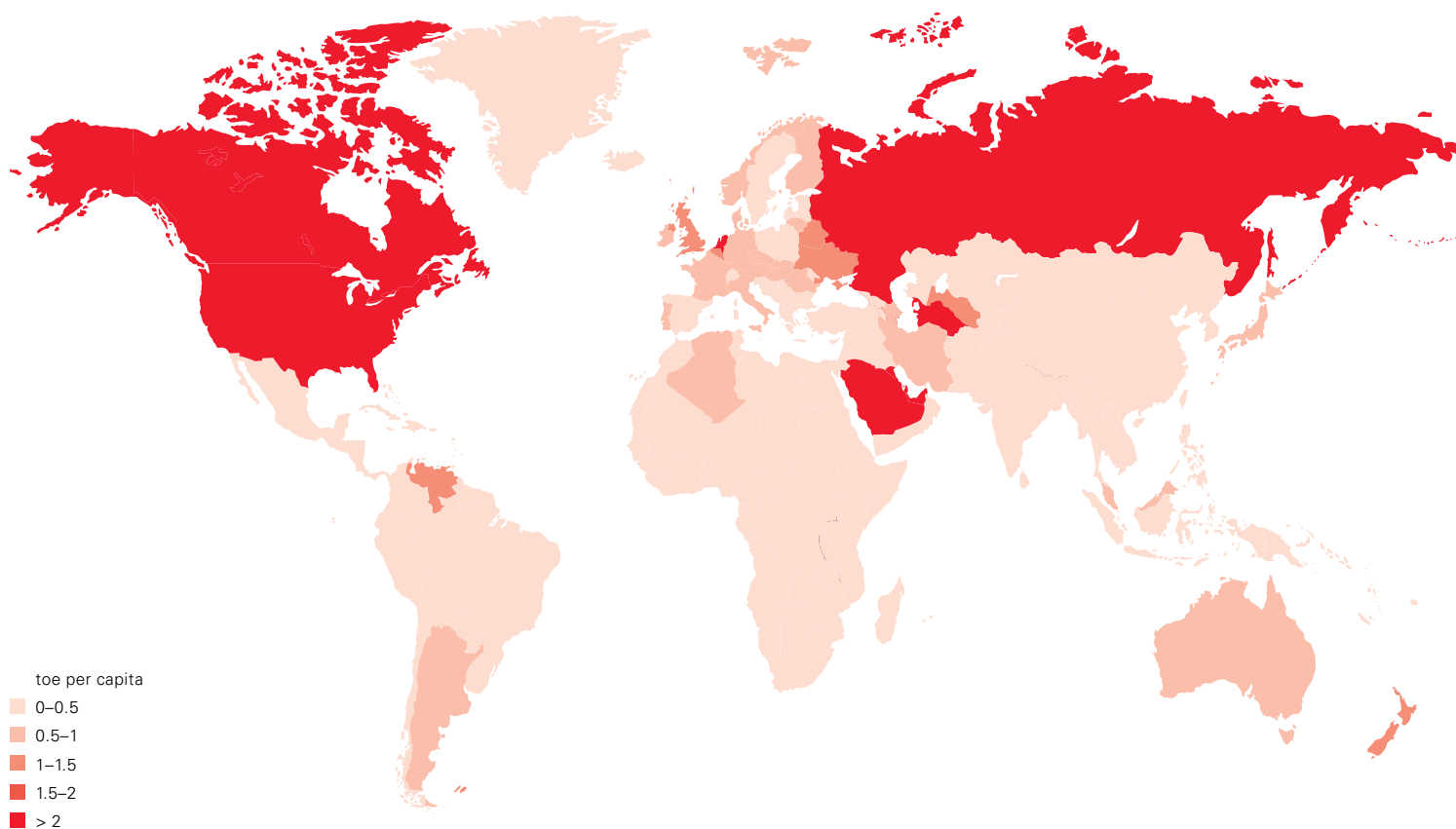
Billion cubic metres



Global gas consumption grew by a weak 0.3% in 2001, following an exceptionally strong 2000 during which consumption grew by well over 4%. Falling US demand was the main factor, with growth in most other regions remaining robust.

consumption per capita

Tonnes oil equivalent



natural gas

trade movements 2001 – by pipeline

Billion cubic metres				From																	Total imports
To	USA	Canada	Mexico	Argentina	Bolivia	Denmark	France	Germany	Netherlands	Norway	UK	Russian Fed.	Turkmenistan	Iran	Algeria	Indonesia	Malaysia	Myanmar			
North America																					
USA	–	109.02	0.65	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	109.67		
Canada	4.87	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4.87		
Mexico	4.28	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4.28		
S. & C. America																					
Brazil	–	–	–	0.50	2.50	–	–	–	–	–	–	–	–	–	–	–	–	–	3.00		
Chile	–	–	–	4.60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4.60		
Uruguay	–	–	–	0.07	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.07		
Europe																					
Austria	–	–	–	–	–	–	–	0.32	–	0.50	–	5.22	–	–	–	–	–	–	6.04		
Belgium	–	–	–	–	–	–	–	0.19	7.60	5.12	0.31	–	–	–	–	–	–	–	13.22		
Bulgaria	–	–	–	–	–	–	–	–	–	–	–	2.90	–	–	–	–	–	–	2.90		
Croatia	–	–	–	–	–	–	–	–	–	–	–	1.08	–	–	–	–	–	–	1.08		
Czech Republic	–	–	–	–	–	–	–	–	–	1.70	–	7.50	–	–	–	–	–	–	9.20		
Finland	–	–	–	–	–	–	–	–	–	–	–	4.54	–	–	–	–	–	–	4.54		
France	–	–	–	–	–	–	–	–	5.80	12.87	1.29	11.18	–	–	–	–	–	–	31.14		
Germany	–	–	–	–	–	2.20	–	–	20.20	19.89	3.26	33.20	–	–	–	–	–	–	78.75		
Greece	–	–	–	–	–	–	–	–	–	–	–	1.48	–	–	–	–	–	–	1.48		
Hungary	–	–	–	–	–	–	0.90	1.12	–	–	–	7.95	–	–	–	–	–	–	9.97		
Ireland	–	–	–	–	–	–	–	–	–	–	3.42	–	–	–	–	–	–	–	3.42		
Italy	–	–	–	–	–	–	–	–	7.10	1.10	–	19.50	–	–	21.85	–	–	–	49.55		
Luxembourg	–	–	–	–	–	–	–	0.40	0.40	–	–	–	–	–	–	–	–	–	0.80		
Netherlands	–	–	–	–	–	–	–	–	–	5.50	7.50	0.13	–	–	–	–	–	–	13.13		
Poland	–	–	–	–	–	–	–	0.50	–	0.40	–	7.50	–	–	–	–	–	–	8.40		
Portugal	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2.20	–	–	–	2.20		
Romania	–	–	–	–	–	–	–	0.20	–	–	–	2.80	–	–	–	–	–	–	3.00		
Slovakia	–	–	–	–	–	–	–	–	–	–	–	7.90	–	–	–	–	–	–	7.90		
Slovenia	–	–	–	–	–	–	–	–	–	–	–	0.68	–	–	0.36	–	–	–	1.04		
Spain	–	–	–	–	–	–	–	–	–	1.22	–	–	–	–	6.54	–	–	–	7.76		
Sweden	–	–	–	–	–	0.90	–	–	–	–	–	–	–	–	–	–	–	–	0.90		
Switzerland	–	–	–	–	–	–	0.30	1.75	0.60	–	–	0.40	–	–	–	–	–	–	3.05		
Turkey	–	–	–	–	–	–	–	–	–	–	–	10.93	–	0.11	–	–	–	–	11.04		
United Kingdom	–	–	–	–	–	–	–	–	0.50	2.20	–	–	–	–	–	–	–	–	2.70		
Others	–	–	–	–	–	–	–	–	–	–	–	1.97	–	–	–	–	–	–	1.97		
Middle East																					
Iran	–	–	–	–	–	–	–	–	–	–	–	–	4.20	–	–	–	–	–	4.20		
Africa																					
Tunisia	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1.20	–	–	–	1.20		
Asia Pacific																					
Singapore	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1.00	1.50	–	2.50		
Thailand	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1.75	1.75		
TOTAL EXPORTS	9.15	109.02	0.65	5.17	2.50	3.10	1.20	4.48	42.20	50.50	15.78	126.86	4.20	0.11	32.15	1.00	1.50	1.75	411.32		

Note: Flows are on a contractual basis and may not correspond to physical gas flows in all cases.

Source: Cedigaz.

trade movements 2001 – LNG*

Billion cubic metres				From											Total
To	USA	Trinidad & Tobago	Oman	Qatar	UAE	Algeria	Libya	Nigeria	Australia	Brunei	Indonesia	Malaysia	Taiwan		imports
North America															
USA	–	2.62	0.34	0.64	–	1.84	–	1.08	0.07	–	–	–	–	–	6.59
S. & C. America															
Puerto Rico	–	0.58	0.05	–	–	–	–	–	–	–	–	–	–	–	0.63
Europe															
Belgium	–	–	–	–	–	2.32	–	0.08	–	–	–	–	–	–	2.40
France	–	–	–	0.15	–	9.80	–	0.50	–	–	–	–	–	–	10.45
Greece	–	–	–	–	–	0.50	–	–	–	–	–	–	–	–	0.50
Italy	–	–	–	–	–	2.25	–	3.00	–	–	–	–	–	–	5.25
Portugal	–	–	–	–	–	–	–	0.26	–	–	–	–	–	–	0.26
Spain	–	0.45	0.91	0.78	0.02	5.20	0.77	1.71	–	–	–	–	–	–	9.84
Turkey	–	–	–	–	–	3.63	–	1.20	–	–	–	–	–	–	4.83
Asia Pacific															
Japan	1.79	–	0.83	8.30	6.89	–	–	–	10.05	8.20	22.74	15.27	–	–	74.07
South Korea	–	–	5.30	6.67	0.17	–	–	–	0.08	0.80	5.36	3.04	0.41	–	21.83
Taiwan	–	–	–	–	–	–	–	–	–	–	3.70	2.60	–	–	6.30
TOTAL EXPORTS	1.79	3.65	7.43	16.54	7.08	25.54	0.77	7.83	10.20	9.00	31.80	20.91	0.41		142.95

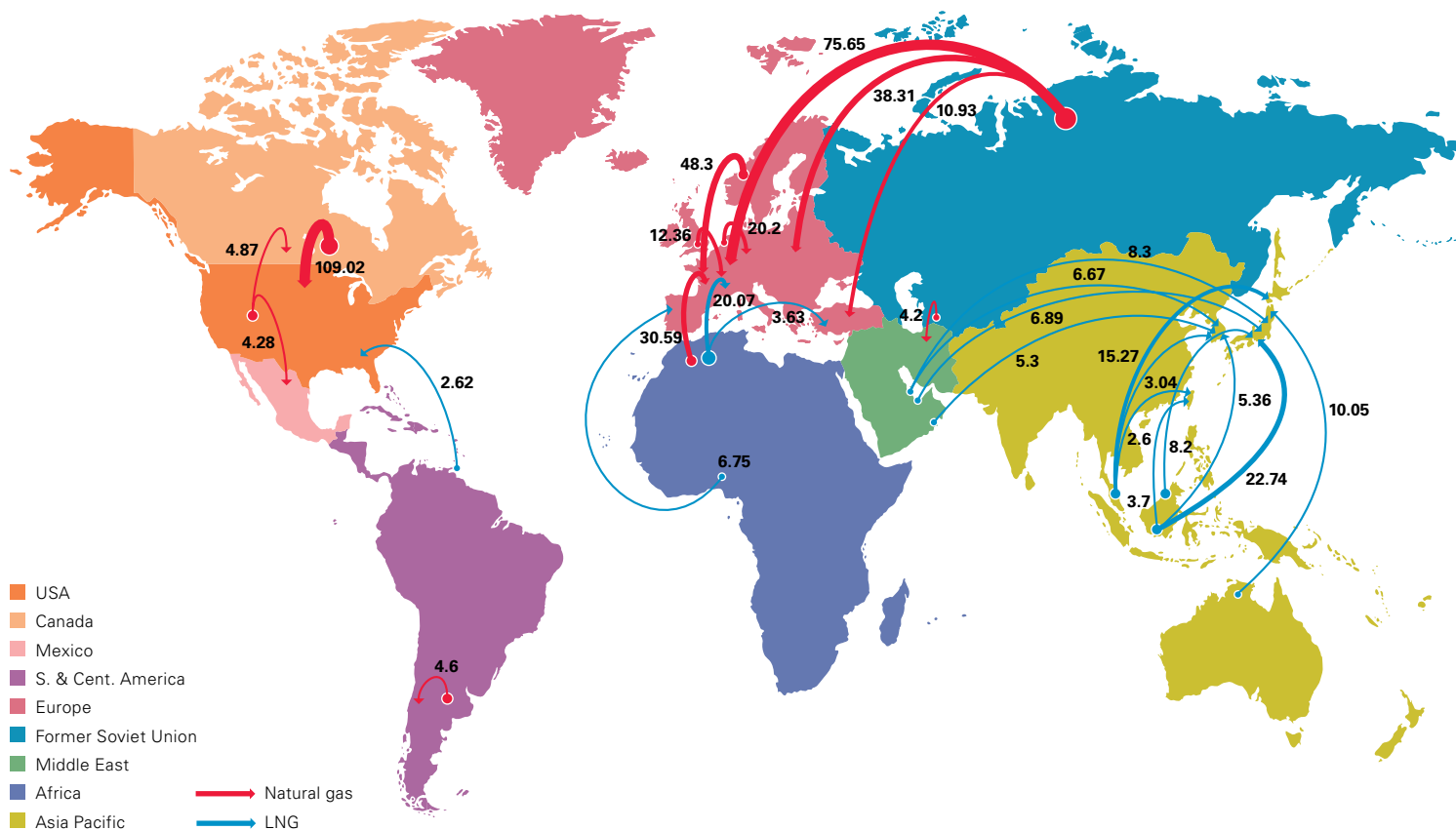
*Liquefied Natural Gas.

Source: Cedigaz.

Note: Flows are on a contractual basis and may not correspond to physical gas flows in all cases.

major trade movements

Trade flows worldwide (billion cubic metres)



prices

US dollars per million Btu	LNG Japan cif	European Union cif	Natural gas UK (Heren NBP index)†	USA Henry Hub‡	Canada (Alberta)‡	Crude oil OECD countries cif
1984	—	3.76	—	—	—	5.00
1985	5.23	3.83	—	—	—	4.75
1986	4.10	3.65	—	—	—	2.57
1987	3.35	2.59	—	—	—	3.09
1988	3.34	2.36	—	—	—	2.56
1989	3.28	2.09	—	1.70	—	3.01
1990	3.64	2.82	—	1.64	1.05	3.82
1991	3.99	3.18	—	1.49	0.89	3.33
1992	3.62	2.76	—	1.77	0.98	3.19
1993	3.52	2.53	—	2.12	1.69	2.82
1994	3.18	2.24	—	1.92	1.45	2.70
1995	3.46	2.37	—	1.69	0.89	2.96
1996	3.66	2.43	1.85	2.76	1.12	3.54
1997	3.91	2.65	2.03	2.53	1.36	3.29
1998	3.05	2.26	1.92	2.08	1.42	2.16
1999	3.14	1.8	1.64	2.27	2.00	2.98
2000	4.72	3.25	2.68	4.23	3.75	4.83
2001	4.64	4.19	3.22	4.07	3.61	4.06

†Source: PH Energy.

‡Source: Natural Gas Week.

Note: cif = cost+insurance+freight (average prices).