

ENERGY RESOURCES 2009



Reserves, Resources, Availability

TABLES

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Table A 3-1: Conventional Oil: Development of Estimated Ultimate Recovery (EUR) 1940 – 2007

No.	Year	Author	Reference year	EUR		EUR Variance Gt	Remarks
				Gb	Gt		
1	1942	Pratt, Weeks Stabinger		600	82		
2	1946	Duke		400	55		
3	1946	Pogue		555	76		
4	1948	Weeks		610	183		
5	1950	Levorsen		1 500	205		
6	1949	Weeks		1 010	138		
7	1953	Mac Naughton		1 000	136		
8	1956	Hubbert		1 250	171		
9	1958	Weeks		1 500	205		
10	1959	Weeks		2 000	273		
11	1965	Hendricks (USGS)		1 480	338		
12	1967	Ryman (Esso)		2 090	285		
13	1968	Shell		1 800	245		
14	1969	Weeks		2 200	300		
15	1969	Hubbert		2 100	235	184-286	
16	1970	Moody (Mobil)		1 800	246		
17	1971	Warman (BP)		1 200-2 000	218	164-273	
18	1971	Weeks		2 290	312		
19	1971	US National Petroleum Council		2 670	364		
20	1972	Linden		2 950	402		
21	1972	Weeks			498		
22	1972	Moody, Emerick (Mobil)		1 800-1 900	253	246-259	
23	1972	Richard		1 952	266		
24	1972	Warman (BP)		1 800	245		
25	1974	WEC (USGS)				184-1840	
26	1973	Wim Vermeer (Shell)		1 930	263		
27	1973	Warman (BP)		1 915	261		
28	1974	Hubbert (USGS)		2 000	272		
29	1975	Adams and Kirby			273		
30	1975	Moody & Esser (Mobil) - 9. WPC	1973	2 000	277	180-442	
31	1975	Exxon		1 945	265		
32	1976	Grossling (USGS)		2 600-6 500		354-884	
33	1976	BGR			336		
34	1975	Odell		3 575-4 233		486-576	
35	1976	Klemme (Weeks)			259		
36	1977	Hubbert		2 000	272		
37	1978	WEC		1 900	350	127-950	
38	1978	Nehring		1 700-2 300		231-313	
39	1979	Halbouty (Moody) - 10. WPC	1975		304	203-460	
40	1979	Meyerhoff		2 230	300		
41	1979	Roorda			330		
42	1980	WEC			354		
43	1981	Colitti (Agip)		2 082	283		
44	1982	Exxon		1 800-3 000		245-408	
45	1984	Masters et al. - 11. WPC	1981		246	213-369	

Table continued →

No.	Year	Author	Reference year	EUR		EUR Variance Gt	Remarks
				Gb	Gt		
46	1983	Odell and Rosing		3 000	408		
47	1987	Masters et al. (USGS) - 12. WPC	1984		239	217-308	
48	1987	Keller (Chevron)			236		
49	1988	German BP			400		
50	1988	BGR			350		
51	1989	Campbell			224		
52	1989	Bookout		2 000	272		
53	1991	Masters et al. - 13. WPC	1989	2 171	295	270-371	
54	1991	Tedeschi			340		
55	1992	Montardet and Alazard	1991	2 200	318		
56	1993	Townes		3 000	408		
57	1994	Masters et al. - 14. WPC	1992		309	285-382	
58	1994	Laherrere		1 800	245		
59	1994	Petroconsultants			291		
60	1994	Gutierrez			374		
61	1995	Campbell	1994	1 650	224		
62	1995	BGR	1993		313		
63	1997	Edwards	1994	2 836	386		
64	1996	Mackenzie	1995	2 600	354		
65	1996	Mabro	1995	1 800	245		
66	1996	Shell			325		
67	1998	Schollnberger	1996		370		corrected by 78 bn t heavy oil
68	1997	Campbell	1996	1 800	245		
69	1997	Rogner (IIASS)	1994		431		incl. NGL (33 Gt)
70	1998	Odell (reference to Shell)	1996		400		
71	1998	BGR	1997		341		
72	1999	Harper (BPAmoco)	1998		374		
73	2000	USGS (Ahlbrand et al.) - 16. WPC	1995		450		incl. NGL
74	2001	Edwards	1999		370		without non-conv.
75	2002	Campbell	2001		265		without NGL, polar and deep water oil
76	2003	BGR	2001		364		
77	2003	Bauquis		3 000	408		
78	2003	Energyfiles Ltd		2 338	318		
79	2005	BGR	2004		381		
80	2005	Campbell	2004	1 850	252		without NGL, polar and deep water oil
81	2006	Schollnberger	2004		455		including oil sands and extra heavy oils
82	2008	Campbell	2007	1 875	255		without NGL, polar and deep water oil
83	2009	BGR	2007		400		
84	2008	IEA	2007	3 577	487		

Table A 3-2: Estimated Ultimate Recovery (EUR) of Conventional Oil by Year-End 2007 [Mt]

Country/Region	Production in 2007	Cum. production in 2007	Reserves	Resources	EUR	Rem. potential
1	2	3	4	5	6=3+4+5	7=4+5
Albania	0.3	51.3	27	20	98	47
Austria	0.9	116.8	12	10	139	22
Bulgaria	0.1	8.9	2	5	16	7
Croatia	0.8	98.4	11	20	129	31
Czech Republic	0.1	9.2	2	10	21	12
Denmark	15.6	269.5	184	50	504	234
France	1.0	119.9	16	70	206	86
Germany	3.4	283.2	37	40	360	77
Greece	0.1	16.1	1	20	37	21
Hungary	0.9	95.3	3	20	118	23
Ireland	-	-	-	10	10	10
Italy	5.5	154.6	109	120	383	229
Lithuania	0.2	3.5	2	20	25	22
Malta	-	-	-	5	5	5
Netherlands	2.7	136.3	32	60	228	92
Norway	124.7	2 933.9	1 012	2 200	6 146	3 212
Poland	1.2	59.1	49	40	148	89
Romania	5.0	741.7	120	160	1 022	280
Serbia & Montenegro	0.8	39.6	11	20	70	31
Slovakia	0.2	1.7	1	5	8	6
Spain	0.2	36.9	20	20	77	40
Turkey	2.1	128.5	41	70	239	111
United Kingdom	71.2	3 232.9	700	1 100	5 033	1 800
Azerbaijan	41.7	1 527.3	1 330	1 200	4 057	2 530
Belarus	1.8	127.3	27	30	184	57
Georgia	0.1	23.4	5	50	78	55
Kazakhstan	67.5	1 148.1	4 780	4 000	9 928	8 780
Kyrgyzstan	0.1	11.1	5	10	27	15
Moldova	-	n. a.	-	10	10	10
Russia	490.8	19 181.8	10 297	16 400	45 879	26 697
Tajikistan	< 0.05	7.6	2	30	39	32
Turkmenistan	9.8	468.1	245	1 700	2 413	1 945
Ukraine	4.4	342.4	108	150	600	258
Uzbekistan	4.9	173.4	170	400	743	570
Algeria	86.1	2 476.8	1 660	1 200	5 337	2 860
Angola	84.1	928	1 229	2 000	4 157	3 229
Benin		4.2	1	10	15	11
Cameroon	4.2	163	27	200	390	227
Chad	7.5	33.4	204	100	337	304
Congo, DR (former Zaire)	1.0	37.7	24	50	112	74
Congo, Rep.	11.5	267.9	260	600	1 128	860
Côte d'Ivoire	1.6	21.2	40	120	181	160
Egypt	34.1	1 381.7	540	500	2 422	1 040
Equatorial Guinea	18.0	119.8	270	350	740	620

Table continued →

Country/Region	Production in 2007	Cum. production in 2007	Reserves	Resources	EUR	Rem. potential
1	2	3	4	5	6=3+4+5	7=4+5
Eritrea	-	-	-	50	50	50
Ethiopia	-	-	-	10	10	10
Gabon	11.5	463.7	272	700	1 436	972
Ghana	0.3	4.2	2	40	46	42
Libya	86.0	3 450.5	5 641	1 000	10 092	6 641
Madagascar	-	-	-	20	20	20
Mauritania	0.9	2.9	14	10	27	24
Morocco	< 0.05	1.6	< 0.5	30	32	30
Mozambique	-	-	-	20	20	20
Namibia	-	-	-	20	20	20
Nigeria	114.2	3 674.3	4 925	2 200	10 799	7 125
Senegal	-	-	-	10	10	10
Seychelles	-	-	-	5	5	5
Somalia	-	-	-	20	20	20
South Africa, Rep.	1	12.7	2	20	35	22
Sudan	22.5	116.8	871	250	1 238	1 121
Tanzania	-	-	-	20	20	20
Tunisia	4.6	181.6	82	300	563	382
Zimbabwe	-	-	-	10	10	10
Africa others	-	-	-	13	13	13
Bahrain	8.6	185.7	17	200	403	217
Iran	201.5	8 378.5	18 830	3 900	31 108	22 730
Iraq	109.0	4 183.0	15 646	3 800	23 629	19 446
Israel	< 0.05	2	< 0.5	5	7	5
Jordan	-	-	-	5	5	5
Kuwait	129.6	5 322.0	13 810	700	19 832	14 510
Oman	35.5	1 147.0	758	700	2 605	1 458
Qatar	53.6	1 165.7	2 069	700	3 935	2 769
Saudi Arabia	493.1	16 202.1	35 946	8 700	60 848	44 646
Syria	19.6	657.7	340	300	1 298	640
United Arab Emirates	135.0	3 647.0	13 306	1 000	17 953	14 306
Yemen	15.8	324.8	381	500	1 206	881
Afghanistan	n.a.	< 0.05	< 0.5	140	140	140
Australia	23.8	888.7	571	1 000	2 460	1 571
Bangladesh	0.2	2	4	30	36	34
Brunei	9.5	466.5	150	200	816	350
Cambodia	-	-	-	20	20	20
China, PR	186.6	4 880.6	2 109	2 200	9 189	4 309
India	37.3	1 035.6	765	400	2 201	1 165
Indonesia	47.4	3 073.1	595	1 100	4 768	1 695
Japan	0.9	46.9	6	10	63	16
Malaysia	34.2	872.6	735	600	2 207	1 335
Mongolia	0.1	0.7	2	50	53	52
Myanmar (Burma)	0.7	50.2	7	150	207	157
New Zealand	1.3	44.6	7	50	102	57
Pakistan	3.4	79.3	39	150	269	189
Papua New Guinea	2.6	56.9	12	50	119	62
Philippines	0.6	10.5	19	40	69	59

Table continued →

Country/Region	Production in 2007	Cum. production in 2007	Reserves	Resources	EUR	Rem. potential
1	2	3	4	5	6=3+4+5	7=4+5
Taiwan	0.1	4.5	< 0.5	5	10	5
Thailand	12.7	107.5	63	100	270	163
Vietnam	16.5	221.5	463	200	884	663
Canada	158.9	4 452.4	707	3 000	8 159	3 707
Greenland	-	-	-	1 000	1 000	1 000
Mexico	154	5 451.1	1 660	2 900	10 011	4 560
USA	311.5	29 121.8	4 000	10 000	43 122	14 000
Argentina	34.9	1 347.9	352	500	2 200	852
Barbados	0.1	2	< 0.5	100	102	100
Belize	0.1	0.2	1	n.a.	1	1
Bolivia	2.3	66	63	200	329	263
Brazil	90.4	1 403.8	1 714	3 900	7 018	5 614
Chile	0.1	60.7	20	75	156	95
Colombia	26.6	944.1	205	700	1 849	905
Cuba	3.3	44.9	17	60	122	77
Ecuador	26.5	577.1	585	150	1 312	735
Guatemala	0.8	17	11	10	38	21
Guyana	-	-	-	100	100	100
Paraguay	-	-	-	100	100	100
Peru	5.1	338.6	150	500	988	650
Suriname	0.6	9.1	12	50	71	62
Trinidad & Tobago	7.3	480.1	109	200	789	309
Uruguay	-	-	-	20	20	20
Venezuela	133.9	8 604.8	5 630	3 000	17 235	8 630
Latin America others	-	-	-	3	3	3
WORLD	3 882.0	150 867.3	157 312	91 526	399 706	248 838
Europe	236.5	8 536.8	2 392	4 095	15 024	6 487
CIS	621.0	23 010.6	16 969	23 980	63 960	40 949
Africa	489.1	13 341.9	16 068	9 878	39 288	25 946
Middle East	1 201.3	41 215.4	101 103	20 510	162 828	121 613
Austral-Asia	377.8	11 841.7	5 544	6 495	23 881	12 039
North America	624.4	39 025.3	6 367	16 900	62 292	23 267
Latin America	331.8	13 896.1	8 870	9 668	32 434	18 538
OPEC-13	1 700.0	60 288.3	119 872	29 450	209 610	149 322
OPEC-Gulf	1 121.8	38 898.2	99 606	18 800	157 305	118 406
OECD	894.8	47 598.9	9 759	21 810	79 168	31 569
EU-27	107.9	5 285.1	1 291	1 765	8 341	3 056

n.a. not available

- no production, reserves, resources

Table A 3-3: Estimated Ultimate Recovery (EUR) of Conventional Oil in 2007: Main Countries with an EUR >500 Mt and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	Saudi Arabia	60 848	15.2	15.2
2	Russia	45 879	11.5	26.7
3	USA	43 122	10.8	37.5
4	Iran	31 108	7.8	45.3
5	Iraq	23 629	5.9	51.2
6	Kuwait	19 832	5.0	56.1
7	United Arab Emirates	17 953	4.5	60.6
8	Venezuela	17 235	4.3	65.0
9	Nigeria	10 799	2.7	67.7
10	Libya	10 092	2.5	70.2
11	Mexico	10 011	2.5	72.7
12	Kazakhstan	9 928	2.5	75.2
13	China, PR	9 189	2.3	77.5
14	Canada	8 159	2.0	79.5
15	Norway	6 146	1.5	81.0
16	Algeria	5 337	1.3	82.4
17	United Kingdom	5 033	1.3	83.6
18	Indonesia	4 768	1.2	84.8
19	Brazil	7 018	1.8	86.6
20	Angola	4 157	1.0	87.6
21	Azerbaijan	4 057	1.0	88.6
22	Qatar	3 935	1.0	89.6
23	Oman	2 605	0.7	90.3
24	Australia	2 460	0.6	90.9
25	Egypt	2 422	0.6	91.5
26	Turkmenistan	2 413	0.6	92.1
27	Malaysia	2 207	0.6	92.7
28	India	2 201	0.6	93.2
29	Argentina	2 200	0.6	93.8
30	Colombia	1 849	0.5	94.2
31	Gabon	1 436	0.4	94.6
32	Ecuador	1 312	0.3	94.9
33	Syria	1 298	0.3	95.2
34	Sudan	1 238	0.3	95.5
35	Yemen	1 206	0.3	95.8
36	Congo, Rep.	1 128	0.3	96.1
37	Romania	1 022	0.3	96.4
38	Greenland	1 000	0.3	96.6
39	Peru	988	0.2	96.9
40	Vietnam	884	0.2	97.1
41	Brunei	816	0.2	97.3
42	Trinidad & Tobago	789	0.2	97.5
43	Uzbekistan	743	0.2	97.7
44	Equatorial Guinea	740	0.2	97.9
45	Ukraine	600	0.2	98.0
46	Tunisia	563	0.1	98.2

Table continued →

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
47	Denmark	504	0.1	98.3
	...			
51	Germany	360	0.1	
	...			
	<i>WORLD</i>	<i>399 706</i>	<i>100.0</i>	
	Europe	15 024	3.8	
	CIS	63 960	16.0	
	Africa	39 288	9.8	
	Middle East	162 828	40.7	
	Austral-Asia	23 881	6.0	
	North America	62 292	15.6	
	Latin America	32 434	8.1	
	OPEC-13	209 610	52.4	
	OPEC-Gulf	157 305	39.4	
	OECD	79 168	19.8	
	EU-27	8 341	2.0	

Table A 3-4: Remaining Potential of Conventional Oil by Year-End 2007: Main Countries (>500 Mt) and Distribution by Regions and Economic Groups [in Mt]

Rank	Country/Region	Percentage				
		Reserves	Resources	Rem. potential	Country	Cumulative
1	Saudi Arabia	35 946	8 700	44 646	17.9	17.9
2	Russia	10 297	16 400	26 697	10.7	28.7
3	Iran	18 830	3 900	22 730	9.1	37.8
4	Iraq	15 646	3 800	19 446	7.8	45.6
5	Kuwait	13 810	700	14 510	5.8	51.5
6	United Arab Emirates	13 306	1 000	14 306	5.7	57.2
7	USA	4 000	10 000	14 000	5.6	62.8
8	Kazakhstan	4 780	4 000	8 780	3.5	66.4
9	Venezuela	5 630	3 000	8 630	3.5	69.8
10	Nigeria	4 925	2 200	7 125	2.9	72.7
11	Libya	5 641	1 000	6 641	2.7	75.4
12	Brazil	1 714	3 900	5 614	2.3	77.6
13	Mexico	1 660	2 900	4 560	1.8	79.4
14	China, PR	2 109	2 200	4 309	1.7	81.2
15	Canada	707	3 000	3 707	1.5	82.7
16	Angola	1 229	2 000	3 229	1.3	84.0
17	Norway	1 012	2 200	3 212	1.3	85.3
18	Algeria	1 660	1 200	2 860	1.1	86.4
19	Qatar	2 069	700	2 769	1.1	87.5
20	Azerbaijan	1 330	1 200	2 530	1.0	88.5
21	Turkmenistan	245	1 700	1 945	0.8	89.3
22	United Kingdom	700	1 100	1 800	0.7	90.0
23	Indonesia	595	1 100	1 695	0.7	90.7
24	Australia	571	1 000	1 571	0.6	91.4
25	Oman	758	700	1 458	0.6	91.9
26	Malaysia	735	600	1 335	0.5	92.5
27	India	765	400	1 165	0.5	92.9
28	Sudan	871	250	1 121	0.5	93.4
29	Egypt	540	500	1 040	0.4	93.8
30	Greenland	-	1 000	1 000	0.4	94.2
31	Gabon	272	700	972	0.4	94.6
32	Colombia	205	700	905	0.4	95.0
33	Yemen	381	500	881	0.4	95.3
34	Congo, Rep.	260	600	860	0.3	95.7
35	Argentina	352	500	852	0.3	96.0
36	Ecuador	585	150	735	0.3	96.3
37	Vietnam	463	200	663	0.3	96.6
38	Peru	150	500	650	0.3	96.8
39	Syria	340	300	640	0.3	97.1
40	Equatorial Guinea	270	350	620	0.2	97.3
41	Uzbekistan	170	400	570	0.2	97.6
...						
73	Germany	37	40	77	< 0.05	
...						
	<i>WORLD</i>	<i>157 312</i>	<i>91 526</i>	<i>248 838</i>	<i>100.0</i>	

Table continued →

Rank	Country/Region				Percentage	
		Reserves	Resources	Rem. potential	Country	Cumulative
	Europe	2 392	4 095	6 487	2.6	
	CIS	16 969	23 980	40 949	16.5	
	Africa	16 068	9 878	25 946	10.4	
	Middle East	101 103	20 510	121 613	48.9	
	Austral-Asia	5 544	6 495	12 039	4.8	
	North America	6 367	16 900	23 267	9.4	
	Latin America	8 870	9 668	18 538	7.5	
	OPEC-13	119 872	29 450	149 322	60.0	
	OPEC-Gulf	99 606	18 800	118 406	47.6	
	OECD	9 759	21 810	31 569	12.7	
	EU-27	1 291	1 765	3 056	1.2	

Table 3-5: Conventional Oil: Development of the Reserves 1980, 1990, 2000, 2005 and 2007 [in Mt]

Country/Region	1980	1990	2000	2005	2007
Albania	42	26	22	27	27
Austria	19	11	12	10	12
Bulgaria	1	2	2	2	2
Croatia	n.a.	22	0	9	11
Czech Republic**)	2	2	2	2	2
Denmark	62	109	251	221	184
France	17	25	20	22	16
Germany	71	63	50	47	37
Greece	5	4	1	1	1
Hungary	25	21	15	14	3
Italy	94	94	91	85	109
Lithuania	n.a.	n.a.	13	2	2
Netherlands	42	21	15	30	32
Norway	739	1 636	1 912	1 209	1 012
Poland	5	4	23	13	49
Romania	190	159	191	130	120
Serbia*)	40	11	11	11	11
Slovakia	n.a.	n.a.	1	1	1
Spain	48	3	3	21	20
Turkey	37	88	41	41	41
United Kingdom	2 033	1 195	1 010	750	700
Azerbaijan	n.a.	157	1 100	1 130	1 330
Belarus	n.a.	26	57	25	27
Georgia	n.a.	5	20	5	5
Kazakhstan	n.a.	724	2 900	4 100	4 780
Kyrgyzstan	n.a.	5	5	5	5
Moldova	n.a.	-	10	0	0
Russia***)	8 568	6 674	9 850	10 148	10 297
Tajikistan	n.a.	2	2	2	2
Turkmenistan	n.a.	73	300	260	245
Ukraine	n.a.	53	150	120	108
Uzbekistan	n.a.	36	200	180	170
Algeria	1 070	1 252	1 800	1 664	1 660
Angola	167	282	850	1 228	1 229
Benin	-	14	1	1	1
Cameroon	27	54	54	54	27
Chad	-	-	120	204	204
Congo, DR (former Zaire)	18	8	25	25	24
Congo, Rep.	90	113	205	246	260
Côte d'Ivoire	7	14	14	40	40
Egypt	401	612	412	490	540
Equatorial Guinea	-	-	40	246	270
Gabon	62	99	340	300	272
Ghana	1	0	2	2	2
Libya	3 020	3 102	3 900	5 323	5 641
Mauritania	-	-	-	20	14
Morocco	-	0	0	0	0

Table continued →

Country/Region	1980	1990	2000	2005	2007
Nigeria	2 254	2 327	3 070	4 881	4 925
South Africa, Rep.	-	< 0.5	4	20	2
Sudan	-	41	60	250	871
Tunisia	220	231	42	95	82
Bahrain	31	13	20	17	17
Iran	7 802	12 633	13 050	18 022	18 830
Iraq	4 080	13 605	15 646	15 646	15 646
Israel	-	< 0.5	1	< 0.5	< 0.5
Jordan	-	3	< 0.5	< 0.5	< 0.5
Kuwait	9 238	13 201	13 100	13 845	13 810
Oman	317	585	765	749	758
Qatar	473	612	1 200	2 069	2 069
Saudi Arabia	22 852	35 375	35 270	36 037	35 946
Syria	280	231	340	340	340
United Arab Emirates	4 204	13 346	13 306	13 306	13 306
Yemen	-	544	544	396	381
Afghanistan	n.a.	n.a.	n.a.	< 0.5	< 0.5
Australia	230	213	390	546	571
Bangladesh	-	-	8	7	4
Brunei	233	184	184	184	150
China, PR	2 789	3 265	3 288	3 100	2 109
India	440	1 088	635	805	765
Indonesia	1 293	1 503	667	585	595
Japan	7	9	8	8	6
Malaysia	389	395	506	573	735
Mongolia	-	-	2	2	2
Myanmar (Burma)	5	7	7	7	7
New Zealand	24	28	14	7	7
Pakistan	27	22	28	39	39
Papua New Guinea	-	27	49	33	12
Philippines	3	5	39	19	19
Taiwan	1	1	1	< 0.5	< 0.5
Thailand	< 0.5	20	67	75	63
Vietnam	-	68	140	423	463
Canada	862	787	650	599	707
Mexico	7 073	6 194	3 845	2 245	1 660
USA	4 904	4 482	4 000	3 997	4 000
Argentina	341	310	418	316	352
Belize	-	-	-	-	1
Bolivia	15	16	54	60	63
Brazil	178	386	1 080	1 610	1 714
Chile	51	41	20	20	20
Colombia	113	272	351	210	205
Cuba	12	14	39	102	17
Ecuador	145	193	288	696	585
Guatemala	3	5	72	72	11
Peru	86	55	42	126	150
Suriname	-	4	10	15	12
Trinidad & Tobago	100	73	93	135	109

Table continued →

Country/Region	1980	1990	2000	2005	2007
Venezuela	2 562	4 700	5 550	5 600	5 630
<i>WORLD</i>	<i>89 660</i>	<i>138 127</i>	<i>150 209</i>	<i>161 600</i>	<i>157 312</i>
Europe	3 471	3496	3 689	2 648	2 392
USSR/CIS	8 568	7755	14 594	15 975	16 969
Africa	7 337	8149	10 940	15 090	16 068
Middle East	49 277	90148	93 243	100 427	101 103
Austral-Asia	5 441	6835	6 032	6 412	5 544
North America	11 960	12342	8 495	6 840	6 367
Latin America	3 606	6 069	8 016	8 961	8 869
OPEC-13	59 160	102 131	107 697	118 901	119 872
OECD	15 349	15 805	12 303	9 821	9 135
EU-27	2 614	1 713	1 703	1 351	1 291

n.a. not available

- no reserves

*) 1980 Yugoslavia

**) 1980 and 1990 CSSR

**) 1980 USSR

Table A 3-6: Reserves of Conventional Oil in 2007: The main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	Saudi Arabia	35 946	22.0	22.0
2	Iran	18 830	11.5	33.5
3	Iraq	15 646	9.6	43.1
4	Kuwait	13 810	8.4	51.5
5	United Arab Emirates	13 306	8.1	59.6
6	Russia	10 297	7.2	66.9
7	Libya	5 641	6.3	73.2
8	Venezuela	5 630	3.4	76.6
9	Nigeria	4 925	3.0	79.6
10	Kazakhstan	4 780	2.9	82.6
11	USA	4 000	2.4	85.0
12	China, PR	2 109	1.3	86.3
13	Mexico	1 660	1.0	87.3
14	Qatar	2 069	1.3	88.6
15	Brazil	1 714	1.0	89.6
16	Algeria	1 660	1.0	90.7
17	Azerbaijan	1 330	0.8	91.5
18	Angola	1 229	0.8	92.2
19	Norway	1 012	0.6	92.8
20	Sudan	871	0.5	93.4
...				
54	Germany	37	< 0.01	
...				
	WORLD	157 312	100.0	
	Europe	2 392	1.5	
	CIS	16 969	10.8	
	Africa	16 068	10.2	
	Middle East	101 103	64.3	
	Austral-Asia	5 544	3.5	
	North America	6 367	4.0	
	Latin America	8 870	5.6	
	OPEC-13	119 872	76.2	
	OPEC-Gulf	99 606	63.3	
	OECD	9 759	6.2	
	EU-27	1 291	0.8	

**Table A 3-7: Oil Reserves 2007:
The Most Important Companies (Top 20)**

Rank	Company	Reserves Mt	Percentage	
			Company	Cumulative
1	Saudi Arabian Oil Company	35 361	21.6	21.6
2	National Iranian Oil Company	18 830	11.5	33.1
3	Iraq National Oil Company	15 646	9.6	42.7
4	Kuwait Petroleum Corporation	13 810	8.4	51.2
5	Petroleos de Venezuela	13 521	8.3	59.4
6	Abu Dhabi National Oil Company	12 544	7.7	67.1
7	National Oil Corporation (Lybia)	5 641	3.4	70.5
8	Nigerian National Petroleum Corporation	4 928	3.0	73.6
9	Rosneft	2 399	1.5	75.0
10	Lukoil	2 138	1.3	76.3
11	Qatar General Petr. Corporation	2 069	1.3	77.6
12	Sonatrach	1 660	1.0	78.6
13	China National Petroleum Company	1 600	1.0	79.6
14	Petroleos Mexicanos	1 503	0.9	80.5
15	Petrolero Brasileiro SA	1 308	0.8	81.3
16	Soc. National des Combustiveis de Angola	1 229	0.8	82.1
17	ExxonMobil	1 054	0.6	82.7
18	Chevron	964	0.6	83.3
19	Surgutneftegaz	834	0.5	83.8
20	ConocoPhillips	860	0.5	84.3
WORLD		163 524	100.0	
NOC		136 042	83.2	
IOC (Top 5)*)		4 065	2.5	

Private oil companies in red lettering

*) ExxonMobil, Chevron, BP, Shell and Total

Table A 3-8: Resources of Conventional Oil 1993, 1997, 2001 and 2007 [in Mt]

Country/Region	Resources in Mt			
	1993	1997	2001	2007
Albania	n.a.	20	20	20
Austria	n.a.	15	10	10
Bulgaria	n.a.	5	5	5
Croatia	n.a.	10	20	20
Czech Republic	n.a.	10	10	10
Denmark	n.a.	50	50	50
France	n.a.	20	70	70
Germany	n.a.	30	20	40
Greece	n.a.	20	20	20
Hungary	n.a.	20	20	20
Ireland	n.a.	50	10	10
Italy	225	185	120	120
Lithuania	n.a.	5	20	20
Malta	n.a.	-	5	5
Netherlands	12	15	60	60
Norway	1 116	1 800	1 750	2 200
Poland	n.a.	40	40	40
Romania	119	100	160	160
Serbia	n.a.	20	20	20
Slovakia	n.a.	5	5	5
Spain	n.a.	20	20	20
Turkey	n.a.	50	70	70
United Kingdom	798	1 700	1 100	1 100
Others Europe	505	-	-	-
Azerbaijan	n.a.	4 000	1 200	1 200
Belarus	n.a.	50	30	30
Georgia	n.a.	100	50	50
Kazakhstan	n.a.	6 000	4 200	4 000
Kyrgyzstan	n.a.	20	10	10
Moldova	n.a.	20	10	10
Russia	n.a.	12 500	13 500	16 400
Tajikistan	n.a.	50	30	30
Turkmenistan	n.a.	2 000	1 700	1 700
Ukraine	n.a.	100	150	150
Uzbekistan	n.a.	500	400	400
Others USSR/CIS	17 853	-	-	-
Algeria	211	600	1 200	1 200
Angola	216	750	2 000	2 000
Benin	n.a.	10	10	10
Cameroon	n.a.	100	200	200
Chad	41	100	100	100
Congo, DR (former Zaire)	n.a.	100	50	50
Congo, Rep.	41	200	600	600
Côte d'Ivoire	n.a.	200	120	120
Egypt	252	200	500	500
Equatorial Guinea	n.a.	100	350	350

Table continued →

Country/Region	Resources in Mt			
	1993	1997	2001	2007
Eritrea	n.a.	-	50	50
Ethiopia	n.a.	10	10	10
Gabon	177	295	700	700
Ghana	n.a.	50	40	40
Libya	769	800	1 200	1 000
Madagascar	n.a.	50	20	20
Mauritania	n.a.	-	10	10
Morocco	n.a.	30	30	30
Mozambique	n.a.	50	20	20
Namibia	n.a.	100	20	20
Nigeria	965	1 000	2 500	2 200
Senegal	n.a.	5	10	10
Seychelles	n.a.	30	5	5
Somalia	376	100	20	20
South Africa, Rep.	n.a.	40	20	20
Sudan	264	270	250	250
Tanzania	n.a.	50	20	20
Tunisia	281	300	300	300
Zimbabwe	n.a.	100	10	10
Others Africa	2 008	-	13	13
Bahrain	n.a.	50	200	200
Iran	3 425	2 500	4 500	3 900
Iraq	4 978	3 300	4 000	3 800
Israel	n.a.	10	5	5
Jordan	n.a.	5	5	5
Kuwait	420	1 000	700	700
Oman	148	500	700	700
Qatar	n.a.	500	700	700
Saudi Arabia	7 575	5 500	9 000	8 700
Syria	n.a.	300	300	300
United Arab Emirates	679	1 000	1 000	1 000
Yemen	n.a.	300	500	500
Others Middle East	571	-	-	-
Afghanistan	90	90	40	140
Australia	334	500	1 000	1 000
Bangladesh	63	60	30	30
Brunei	80	100	200	200
Cambodia	n.a.	-	20	20
China, PR	4 558	3 800	2 200	2 200
India	252	300	400	400
Indonesia	974	900	1 100	1 100
Japan	n.a.	10	10	10
Malaysia	599	600	600	600
Mongolia	n.a.	50	50	50
Myanmar	134	100	150	150
New Zealand	14	30	50	50
Pakistan	87	100	150	150
Papua New Guinea	104	100	50	50
Philippines	n.a.	50	40	40

Table continued →

Country/Region	Resources in Mt			
	1993	1997	2001	2007
Taiwan	n.a.	10	5	5
Thailand	184	200	100	100
Vietnam	527	400	200	200
Others Austral-Asia	245	-	-	-
Canada	4 099	3 200	2 000	3 000
Greenland	-	-	500	1 000
Mexico	3 555	3 300	3 200	2 900
USA	6 952	5 800	8 000	10 000
Argentina	403	350	500	500
Barbados	n.a.	10	100	100
Bolivia	53	50	200	200
Brazil	1 472	1 200	1 500	3 900
Chile	27	50	75	75
Colombia	568	600	700	700
Cuba	n.a.	50	60	60
Ecuador	271	200	150	150
Guatemala	n.a.	20	10	10
Guyana	n.a.	-	100	100
Paraguay	n.a.	-	100	100
Peru	619	550	500	500
Suriname	n.a.	10	50	50
Trinidad & Tobago	148	150	200	200
Uruguay	n.a.	-	20	20
Venezuela	3 163	2 500	3 000	3 000
Others Latin America	313	-	3	3
WORLD	73 913	75 575	84 256	91 526
Europe	2 775	4 190	3 625	4 095
CIS	17 853	25 340	21 280	23 980
Africa	5 601	5 640	10 378	9 878
Middle East	17 796	14 965	21 610	20 510
Austral-Asia	8 245	7 400	6 395	6 395
North America	14 606	12 300	13 700	16 900
Latin America	7 037	5 740	7 268	9 668
OPEC-13	23 646	20 550	31 050	29 450
OPEC- Golf	17 077	13 800	19 900	18 800
OECD	17 105	16 865	18 135	21 810
EU-27	1 407	2 290	1 745	1 765

n.a. not available

- no resources

Table A 3-9: Resources of Conventional Oil in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	Russia	16 400	17.9	17.9
2	USA	10 000	10.9	28.9
3	Saudi Arabia	8 700	9.5	38.4
4	Kazakhstan	4 000	4.4	42.7
5	Iran	3 900	4.3	47.0
6	Brazil	3 900	4.3	51.3
7	Iraq	3 800	4.2	55.4
8	Venezuela	3 000	3.3	58.7
9	Canada	3 000	3.3	62.0
10	Mexico	2 900	3.2	65.1
11	Nigeria	2 200	2.4	67.5
12	China, PR	2 200	2.4	69.9
13	Angola	2 000	2.2	72.1
14	Norway	2 200	2.4	74.5
15	Turkmenistan	1 700	1.9	76.4
16	Azerbaijan	1 200	1.3	77.7
17	Algeria	1 200	1.3	79.0
18	United Kingdom	1 100	1.2	80.2
19	Indonesia	1 100	1.2	81.4
20	Libya	1 000	1.1	82.5
...				
81	Germany	40	< 0.5	
...				
	<i>WORLD</i>	<i>91 506</i>	<i>100.0</i>	
	Europe	4 075	4.5	
	CIS	23 980	26.2	
	Africa	9 878	10.8	
	Middle East	20 510	22.4	
	Austral-Asia	6 495	7.1	
	North America	16 900	18.5	
	Latin America	9 668	10.6	
	OPEC-13	29 450	32.2	
	OPEC-Gulf	18 800	20.5	
	OECD	21 810	23.8	
	EU-27	1 765	1.9	

Table A 3-10: Oil Production in 1980, 1990, 2000, 2005 and 2007 [in Mt]

Country/Region	1980	1990	2000	2005	2007
Albanien	1.4	1	0.3	0.3	0.3
Austria	1.5	1.2	1.1	0.9	0.9
Bulgaria	0.4	0.1	0.1	0.1	0.1
Croatia	3.1	2.2	1.2	0.9	0.8
Czech Republic *)	0.1	0.1	0.2	0.3	0.1
Denmark	0.3	6	17.7	18.8	15.6
France	1.4	3	1.4	1.1	1
Germany	4.7	3.7	3.1	3.6	3.4
Greece	-	0.8	0.3	0.1	0.1
Hungary	2	1.9	1.4	1	0.9
Italy	1.8	4.8	4.6	6.1	5.5
Lithuania	n.a.	0	0.3	0.2	0.2
Netherlands	1.6	4	2.4	2	2.7
Norway	24.4	81.8	159.4	139.4	124.7
Poland	0.3	0.2	0.7	0.9	1.2
Romania	11.5	7.9	6.3	5.4	5
Serbia	1.1	0.9	0.9	0.8	0.8
Slovakia	n.a.	0.1	0.1	0.1	0.2
Spain	1.6	0.8	0.3	0.2	0.2
Turkey	2.7	3.8	2.9	2.1	2.1
United Kingdom	80.5	91.6	126.2	84.7	71.2
Azerbaijan	14.6	12.5	14.9	22.2	41.7
Belarus	2.6	2.1	1.8	1.8	1.8
Georgia	3.3	0.2	0.1	0.1	0.1
Kazakhstan	18.7	25.8	35.3	61.5	67.5
Kyrgyzstan	0.2	0.2	0.1	0.1	0.1
Russia	546.7	516.3	323.1	469.6	490.8
Tajikistan	0.4	0.1	0.1	< 0.05	< 0.05
Turkmenistan	8.0	5.7	7.1	9.7	9.8
Ukraine	7.2	5.3	3.7	4.4	4.4
Uzbekistan	1.3	3.0	7.5	5.4	4.9
Algeria	51.9	59.3	58.2	86.5	86.1
Angola	7.4	23.6	36.4	61.2	84.1
Benin	-	0.2	0.1	-	-
Cameroon	2.8	8.3	4.5	3	4.2
Chad	-	-	-	9.1	7.5
Congo, DR (former Zaire)	1	1.4	1.3	1	1
Congo, Rep.	2.6	8.1	13.7	13.1	11.5
Côte d'Ivoire	-	0.2	0.4	1.5	1.6
Egypt	30.1	44.9	39.5	33.9	34.1
Equatorial Guinea	-	-	6.3	17.6	18
Gabon	8.8	13.8	16.4	11.7	11.5
Ghana	0	0	0.3	0.3	0.3
Libya	85.9	66	70.6	80.1	86
Mauritania	-	-	-	-	0.9
Morocco	< 0.05	0.1	< 0.05	< 0.05	< 0.05
Nigeria	102.2	90.7	103.9	125.4	114.2

Table continued →

Country/Region	1980	1990	2000	2005	2007
South Africa, Rep.	-	< 0.05	1.3	1.2	1
Sudan	-	-	5	18.7	22.5
Tunisia	5.6	4.5	3.7	3.5	4.6
Bahrain	2.4	2.1	2	8.8	8.6
Iran	76.6	157.1	186.6	200.4	201.5
Iraq	130	100.7	128.1	89.5	109
Israel	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Kuwait	88	45.2	105.6	130.1	129.6
Oman	14	32.8	42	38	35.5
Qatar	14	32.8	42	48.8	53.6
Saudi Arabia	509.7	333.6	421.6	526.2	493.1
Syria	8.5	22.9	28.1	23.3	19.6
United Arab Emirates	82.9	93.7	114.7	130	135
Yemen	-	9.9	20.8	20.1	15.8
Afghanistan	n.a.	n.a.	n.a.	< 0.05	n.a.
Australia	18.0	26.8	35.5	23.3	23.8
Bangladesh	< 0.05	< 0.05	< 0.05	0.2	0.2
Brunei	12.5	6.5	9.5	10.1	9.5
China, PR	105.9	137.6	162.6	181.4	186.6
India	9.4	33.3	36.5	36.2	37.3
Indonesia	78.5	70.1	67.8	55.0	47.4
Japan	0.5	0.5	0.6	0.8	0.9
Malaysia	13.2	30.0	34.6	36.8	34.2
Mongolia	-	-	< 0.05	< 0.05	0.1
Myanmar (Burma)	1.4	0.8	0.5	0.7	0.7
New Zealand	0.3	1.7	1.6	0.8	1.3
Pakistan	0.5	2.9	2.7	3.2	3.4
Papua New Guinea	-	-	3.3	2.3	2.6
Philippines	0.5	0.2	0.1	0.8	0.6
Taiwan	0.2	0.1	< 0.05	0.1	0.1
Thailand	0.0	1.8	5.3	11.2	12.7
Vietnam	-	2.7	16.2	19.1	16.5
Canada	83.0	92.2	126.3	145.2	158.9
Mexico	106.8	147.7	172.1	187.1	154.0
USA	482.2	414.5	366.3	310.2	311.5
Argentina	25.2	25	41.2	36.2	34.9
Barbados	-	0.1	0.1	< 0.05	0.1
Belize	-	-	-	-	0.1
Bolivia	1.1	1	1.5	2.1	2.3
Brazil	9.4	32.1	66	84.7	90.4
Chile	1.6	1.2	0.5	0.2	0.1
Colombia	6.5	22.2	36.1	27.1	26.6
Cuba	0.3	0.7	2.3	3	3.3
Ecuador	10.8	14.5	20.7	27.6	26.5
Guatemala	0.3	0.2	1.1	0.9	0.8
Peru	9.6	6.9	5.3	4.9	5.1
Suriname	-	0.2	0.6	0.6	0.6
Trinidad & Tobago	11	7.8	8.1	8.3	7.3

Table continued →

Country/Region	1980	1990	2000	2005	2007
Venezuela	112.9	110.6	166.6	154.7	133.9
<i>WORLD</i>	<i>3 069.3</i>	<i>3 130.8</i>	<i>3 569.1</i>	<i>3 901.1</i>	<i>3 882.0</i>
Europe	140.3	215.8	330.8	268.9	236.5
USSR/CIS	603.0	571.2	393.5	574.7	621.0
Africa	298.3	321.1	361.6	467.8	489.1
Middle East	926.1	830.8	1 091.5	1 215.2	1 201.3
Austral-Asia	240.9	315.0	376.8	381.9	377.8
North America	672.0	654.4	664.7	642.5	624.4
Latin America	188.7	222.5	350.1	350.2	331.8
OPEC-13	1 350.8	1 197.9	1 522.8	1 715.5	1 700.0
OPEC-Gulf	901.2	763.1	998.6	1 125.0	1 121.8
OECD	813.6	887.1	1 024.1	928.6	879.7
EU-27	107.6	126.1	166.1	125.5	107.9

n.a. not available

- no production

*) 1980 CSSR

Table A 3-11: Oil Production in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	Saudi Arabia	493.1	12.7	12.7
2	Russia	490.8	12.6	25.3
3	USA	311.5	8.0	33.4
4	Iran	201.5	5.2	38.6
5	China, PR	186.6	4.8	43.4
6	Mexico	154.0	4.0	47.3
7	Canada	158.9	4.1	51.4
8	United Arab Emirates	135.0	3.5	54.9
9	Venezuela	133.9	3.4	58.4
10	Kuwait	129.6	3.3	61.7
11	Norway	124.7	3.2	64.9
12	Nigeria	114.2	2.9	67.8
13	Iraq	109.0	2.8	70.7
14	Brazil	90.4	2.3	73.0
15	Algeria	86.1	2.2	75.2
16	Libya	86.0	2.2	77.4
17	Angola	84.1	2.2	79.6
18	United Kingdom	71.2	1.8	81.4
19	Kazakhstan	67.5	1.7	83.2
20	Qatar	53.6	1.4	84.5
...				
64	Germany	3.4	0.1	
...				
	WORLD	3 882.0	100.0	
	Europe	236.5	6.1	
	CIS	621.0	16.0	
	Africa	489.1	12.6	
	Middle East	1 201.3	30.9	
	Austral-Asia	377.8	9.7	
	North America	624.4	16.1	
	Latin America	331.8	8.5	
	OPEC-13	1 700.0	43.8	
	OPEC-Gulf	1 121.8	28.9	
	OECD	879.3	23.1	
	EU-27	107.4	2.8	

Table A 3-12: Oil Production 1980 - 2007: The Top Three Producing Countries

Year	1.		2.		3.		Total 1.-3.	Annual prod. World	Share in global prod. 1.-3.
	Country	Mt	Country	Mt	Country	Mt			
1980	USSR	603	Saudi Arabia	510	USA	482	1 595	3 079	51.8%
1981	USSR	609	Saudi Arabia	498	USA	478	1 585	2 892	54.8%
1982	USSR	615	USA	486	Saudi Arabia	342	1 443	2 790	51.7%
1983	USSR	617	USA	480	Saudi Arabia	241	1 338	2 732	49.0%
1984	USSR	613	USA	489	Saudi Arabia	219	1 320	2 805	47.1%
1985	USSR	595	USA	491	Saudi Arabia	172	1 259	2 758	45.6%
1986	USSR	615	USA	477	Saudi Arabia	252	1 344	2 882	46.6%
1987	USSR	624	USA	461	Saudi Arabia	213	1 299	2 873	45.2%
1988	USSR	624	USA	455	Saudi Arabia	272	1 352	3 013	44.9%
1989	USSR	610	USA	426	Saudi Arabia	271	1 307	3 051	42.8%
1990	USSR	571	USA	415	Saudi Arabia	334	1 319	3 119	42.3%
1991	USSR	515	Saudi Arabia	430	USA	422	1 368	3 114	43.9%
1992	Saudi Arabia	441	USA	413	Russia	398	1 251	3 166	39.5%
1993	Saudi Arabia	428	USA	402	Russia	341	1 171	3 166	37.0%
1994	Saudi Arabia	431	USA	393	Russia	311	1 135	3 209	35.4%
1995	Saudi Arabia	430	USA	398	Russia	305	1 133	3 282	34.5%
1996	Saudi Arabia	437	USA	400	Russia	301	1 139	3 403	33.5%
1997	Saudi Arabia	440	USA	395	Russia	306	1 141	3 494	32.6%
1998	Saudi Arabia	443	USA	371	Russia	303	1 117	3 533	31.6%
1999	Saudi Arabia	412	USA	373	Russia	305	1 090	3 462	31.5%
2000	Saudi Arabia	422	USA	366	Russia	323	1 111	3 563	31.2%
2001	Saudi Arabia	423	USA	352	Russia	342	1 117	3 524	31.7%
2002	Saudi Arabia	418	Russia	380	USA	350	1 148	3 487	32.9%
2003	Saudi Arabia	437	Russia	422	USA	348	1 206	3 655	33.0%
2004	Saudi Arabia	488	Russia	459	USA	330	1 277	3 847	33.2%
2005	Saudi Arabia	526	Russia	470	USA	310	1 306	3 901	33.5%
2006	Saudi Arabia	515	Russia	480	USA	312	1 306	3 923	33.3%
2007	Saudi Arabia	493	Russia	491	USA	312	1 295	3 882	33.4%

Table A 3-13: Oil Production in 2007: The Most Important Companies (Top 20)

Rank	Company	Production	Percentage	
		Mt	Company	Cumulative
1	Saudi Arabian Oil Company	422.1	10.9	10.9
2	National Iranian Oil Company	194.3	5.0	15.9
3	Petroleos Mexicanos	153.0	3.9	19.8
4	Petroleos de Venezuela	144.2	3.7	23.5
5	ExxonMobil	130.8	3.4	26.9
6	BP	120.7	3.1	30.0
7	Abu Dhabi National Oil Company	115.2	3.0	33.0
8	China National Petroleum Company	114.1	2.9	35.9
9	Nigerian National Petroleum Corporation	107.6	2.8	38.7
10	Kuwait Petroleum Corporation	107.3	2.8	41.5
11	Iraq National Oil Company	103.3	2.7	44.1
12	Rosneft	101.7	2.6	46.7
13	Egyptian General Petroleum Corporation	99.7	2.6	49.3
14	Lukoil	96.6	2.5	51.8
15	Petrolero Brasileiro SA	95.3	2.5	54.2
16	Shell	90.3	2.3	56.6
17	Chevron	87.8	2.3	58.8
18	National Oil Corporation (Libya)	84.4	2.2	61.0
19	Soc. National des Combustiveis de Angola	84.2	2.2	63.2
20	Total	75.5	1.9	65.1
	WORLD	3 882.0	100.0	
	NOC	2 204.0	56.8	
	IOC (Top 5)*)	505.0	13.0	

Private Oil Companies in red lettering

*) ExxonMobil, Chevron, BP, Shell and Total

Table A 3-14: Oil Production in 1997, 2001 and 2007: Producing Wells and Production Capacity

Country/Region	Number of wells			Share 2007	Production capacity per well in t/a		
	1997	2001	2007		1997	2001	2007
Albania	2 275	2 275	2 042	0.3%	198	132	147
Austria	1 048	950	905	0.1%	919	1 105	944
Bulgaria	100	100	100	< 0.05%	500	500	1 000
Croatia	890	723	846	0.1%	1 742	1 553	946
Czech Republic	200	200	200	< 0.05%	850	890	500
Denmark	154	193	221	< 0.05%	73 296	88 912	70 368
France	479	407	462	0.1%	4 885	3 877	2 056
Germany	1 379	1 153	1 122	0.1%	2 045	2 987	3 044
Hungary	987	1 099	875	0.1%	3 040	1 001	47 609
Italy	209	210	210	< 0.05%	25 598	17 619	25 952
Lithuania	n.a.	22	22	< 0.05%	n.a.	18 182	7 064
Netherlands	190	196	203	< 0.05%	11 295	11 837	13 166
Norway	539	742	801	0.1%	290 574	218 464	155 625
Poland	2 007	1 404	512	0.2%	164	550	2 344
Romania	6 000	6 000	6 000	0.7%	1 133	1 000	833
Serbia	646	646	646	0.1%	1 393	1 316	1 238
Slovakia	200	200	200	< 0.05%	500	250	1 000
Spain	45	18	18	< 0.05%	8 573	19 444	8 333
Turkey	776	846	855	0.1%	4 199	3 310	2 398
United Kingdom	1 591	1 430	1 360	0.2%	78 567	82 448	52 382
Azerbaijan	2 101	2 102	2 102	0.3%	4 294	7 041	19 818
Kazakhstan	11 715	11 601	11 601	1.4%	2 199	3 445	5 816
Russia	104 150	41 192	99 337	4.9%	2 935	8 303	4 941
Turkmenistan	2 460	2 460	2 460	0.3%	1 919	3 260	3 963
Ukraine	1 353	1 353	1 353	0.2%	2 069	2 809	3 273
Uzbekistan	2 190	2 190	2 190	0.3%	3 603	3 311	2 250
Algeria	1 273	1 284	1 285	0.2%	48 625	51 246	67 004
Angola	509	561	1 064	0.1%	70 645	62 032	79 041
Cameroon	255	175	255	< 0.05%	24 314	22 857	16 471
Chad	-	-	250	< 0.05%	-	-	30 000
Congo, DR (former Zaire)	136	150	150	< 0.05%	7 553	8 333	6 667
Congo, Rep.	400	400	460	< 0.05%	30 500	33 125	25 000
Côte d'Ivoire	7	7	9	< 0.05%	214 286	71 429	177 778
Egypt	1 200	1 329	1 266	0.2%	35 910	26 712	26 935
Equatorial Guinea	2	38	38	< 0.05%	1 200 000	223 684	473 684
Gabon	371	375	395	< 0.05%	50 389	40 133	29 114
Ghana	3	3	3	< 0.05%	83 333	100 000	100 000
Libya	1 869	1 470	1 472	0.2%	38 256	46 429	58 424
Nigeria	2 020	2 374	2 378	0.3%	55 842	46 462	48 024
South Africa, Rep.	9	22	28	< 0.05%	-	59 091	35 714
Sudan	9	52	52	< 0.05%	11 111	192 308	432 692
Tunisia	213	210	237	< 0.05%	18 202	16 290	19 409
Bahrain	511	496	496	0.1%	3 914	10 484	17 339
Iraq	1 685	1 685	1 685	0.2%	36 320	69 881	64 688

Table continued →

Country/Region	Number of wells			Share 2007	Production capacity per well in t/a		
	1997	2001	2007		1997	2001	2007
Iran	1 090	1 120	1 128	0.1 %	168 991	163 304	178 666
Kuwait	1 024	1 079	790	0.1 %	58 069	96 571	164 051
Oman	2 334	2 298	2 298	0.3 %	21 578	20 794	15 448
Qatar	280	417	421	< 0.05 %	121 429	86 331	127 316
Saudi Arabia	1 400	1 849	1 560	0.2 %	314 500	228 718	316 090
Syria	964	132	132	< 0.05 %	29 253	196 212	148 485
United Arab Emira- tes	1 468	1 456	1 456	0.2 %	79 905	74 451	92 720
Yemen	299	302	1 658	< 0.05 %	62 542	74 503	9 530
Australia	1 205	1 392	1 317	0.2 %	24 639	22 737	14 634
Bangladesh	36	37	41	< 0.05 %	1 389	4 459	4 878
Brunei	865	779	779	0.1 %	9 249	11 553	12 195
China, PR	72 255	72 255	71 542	8.7 %	2 206	2 284	2 608
India	3 437	3 386	3 686	0.4 %	10 848	10 662	10 119
Indonesia	8 257	8 535	8 331	1.0 %	8 865	8 037	5 690
Japan	218	172	145	< 0.05 %	4 552	3 779	5 862
Malaysia	804	788	788	0.1 %	44 154	47 208	43 401
Myanmar (Burma)	450	450	450	0.1 %	2 000	889	1 556
New Zealand	76	73	72	< 0.05 %	45 921	23 288	18 056
Pakistan	258	225	204	< 0.05 %	11 434	13 111	16 422
Papua New Guinea	37	39	46	< 0.05 %	108 108	73 077	56 522
Philippines	8	8	11	< 0.05 %	18 750	6 250	54 545
Taiwan	74	73	71	< 0.05 %	1 351	479	704
Thailand	412	706	1 180	0.1 %	9 587	7 649	10 763
Vietnam	28	28	28	< 0.05 %	323 214	610 714	589 286
Canada	47 093	53 302	60 944	6.4 %	2 650	2 422	2 607
Mexico	3 701	2 991	2 912	0.4 %	46 096	52 273	52 885
USA	572 440	539 754	499 621	64.7 %	695	652	623
Argentina	12 564	14 238	20 872	1.7 %	3 550	2 683	1 672
Barbados	74	117	77	< 0.05 %	676	556	649
Bolivia	300	328	346	< 0.05 %	4 500	4 726	6 503
Brazil	7 349	6 888	11 995	0.8 %	6 940	9 625	7 536
Chile	315	315	315	< 0.05 %	2 381	837	383
Colombia	2 905	2 492	2 600	0.3 %	11 890	12 540	10 212
Cuba	243	245	251	< 0.05 %	5 556	10 612	12 948
Ecuador	982	1 041	1 044	0.1 %	19 348	19 549	25 383
Guatemala	20	20	20	< 0.05 %	52 500	50 000	40 000
Peru	4 812	4 744	4 660	0.6 %	1 372	1 023	1 094
Suriname	317	317	975	< 0.05 %	1 262	1 972	615
Trinidad & Tobago	3 428	3 975	3 823	0.1 %	1 940	1 421	1 909
Venezuela	14 694	15 277	15 669	1.8 %	11 808	9 609	8 546
WORLD	922 713	834 012	872 913	100.0 %	3 786	4 224	4 447

Table continued →

Country/Region	Number of wells			Share 2007	Production capacity per well in t/a		
	1997	2001	2007		1997	2001	2007
Europe	19 727	18 814	17 486	0 %	49 774	51 725	13 528
CIS	123 969	60 898	119 043	7.3 %	2 886	6 861	5 217
Africa	8 293	8 466	9 357	1.0 %	44 885	43 976	52 272
Middle East	11 067	9 388	10 756	1.1 %	93 719	107 459	111 690
SE-Asia	88 420	88 946	88 691	10.7 %	4 174	4 260	4 259
North America	623 234	596 047	563 477	71.5 %	1 107	1 069	1 108
Latin America	48 003	49 997	62 647	6.0 %	7 100	6 392	5 297
OPEC-13	36 551	38 148	38 861	4.6 %	40 270	36 204	43 776
OPEC-Gulf	6 947	7 606	7 618	0.9 %	135 742	127 794	147 256
OECD	634 549	606 732	572 841	72.7 %	1 640	1 625	1 535
EU-27	14 601	13 582	12 296	1.6 %	11 225	11 508	8 735

n.a. not available

- no wells

Table A 3-15: Oil Consumption in 1978, 1990, 2000, 2005 and 2007 [in Mt]

Country/Region	1978	1990	2000	2005	2007
Albania	n.a.	n.a.	n.a.	0.3	0.4
Austria	11.5	10.4	11.9	14.2	13.8
Belgium	27.6	22.6	28.5	29.8	31.1
Bosnia-Herzegovina	n.a.	n.a.	n.a.	0.3	0.3
Bulgaria	13.3	9.4	4	4.3	5.4
Croatia	n.a.	4.7	3.9	4.5	4.6
Cyprus	0.8	1.5	2.5	2.4	2.7
Czech Republic	11.2	9	7.9	9.8	9.7
Denmark	16.2	8.9	10.3	8.9	9.4
Estonia	n.a.	n.a.	n.a.	1	1.2
Finland	12.7	11	9.9	9	10.9
France	117.3	86	94.6	94.7	92.3
Germany	158.1	126.1	129.7	111	101.8
Greece	11.9	15.6	19.8	20.6	21.8
Hungary	12.3	7.9	6.8	6.6	7.5
Iceland	0.6	0.7	0.9	1	1.1
Ireland	6	4.5	8.3	9	9.6
Italy	97.2	92.6	90.4	93.5	82.4
Latvia	n.a.	4	1.3	1.6	1.7
Lithuania	n.a.	6.9	2.3	2.5	2.9
Luxemburg	1.4	1.6	2.2	3.1	2.9
Macedonia	n.a.	n.a.	n.a.	1.8	1.8
Malta	n.a.	n.a.	n.a.	0.9	1.4
Netherlands	38.5	34.4	40.7	46.8	47.2
Norway	9.1	9	9.5	9.1	10.2
Poland	16.3	13.6	19.2	21.3	23.9
Portugal	7.3	12	16	16.5	14.3
Romania	18.7	17.6	10	10.3	10.8
Serbia & Montenegro	14.4	15.7	1.4	4.4	4.6
Slovakia	5.6	5.4	3.4	3.5	3.8
Slovenia	n.a.	n.a.	2.4	2.2	2.6
Spain	47.5	48.3	69.7	78.6	79.2
Sweden	26.3	15.1	16.3	16.1	16.3
Switzerland	13.4	12.6	12.8	12	11.4
Turkey	16.9	22.7	30.6	30.5	31.5
United Kingdom	93.4	82.6	80	82.3	80.9
Others Europe	1.7	2.3	4.9	-	-
Armenia	n.a.	n.a.	n.a.	0.5	0.5
Azerbaijan	n.a.	10.7	6.3	4.8	4.1
Belarus	n.a.	26.5	6.9	6.7	7.0
Georgia	n.a.	n.a.	n.a.	1.0	1.0
Kazakhstan	n.a.	20.0	7.5	10.0	10.6
Kyrgyzstan	n.a.	n.a.	n.a.	0.6	0.6
Moldova	n.a.	n.a.	n.a.	0.6	0.6
Russia	n.a.	231.9	125.3	130.0	125.9
Tajikistan	n.a.	n.a.	n.a.	0.3	0.3

Table continued →

Country/Region	1978	1990	2000	2005	2007
Turkmenistan	n.a.	5.5	3.6	4.7	4.7
Ukraine	n.a.	68.9	11.6	17.2	15.3
Uzbekistan	n.a.	10.0	6.7	7.4	5.8
Others USSR/CIS	410.8	22.7	3.9	-	-
Algeria	4.5	9.7	9.7	10.5	12.6
Angola	1.1	1.3	1.8	2.3	2.7
Cameroon	n.a.	n.a.	n.a.	1.8	1.8
Congo, DR (former Zaire)	n.a.	n.a.	n.a.	0.2	0.3
Congo, Rep.	n.a.	n.a.	n.a.	0.6	0.6
Côte d'Ivoire	1.4	1	1.2	1.2	1.3
Egypt	10.5	22.6	26.9	28.5	30.6
Gabon	n.a.	n.a.	n.a.	0.7	0.7
Ghana	0.9	0.9	1.8	2.3	2.3
Kenya	1.9	2.1	2.9	3	3
Libya	3.4	6.8	11.3	11.6	12.1
Morocco	3.7	5.4	7	7.5	7.6
Mozambique	n.a.	n.a.	n.a.	1.1	1.1
Nigeria	6.6	7.6	11.1	12.6	12.3
Sambia	n.a.	n.a.	n.a.	0.6	0.6
Senegal	1.2	0.9	1.5	1.6	1.6
South Africa, Rep.	13.7	17.6	20.4	24.9	25.8
Sudan	1.1	1.8	1.9	3	3.2
Tunisia	2	3.1	3.9	3.7	3.9
Others Africa	9.2	12.1	17.3	17.0	14.0
Bahrain	n.a.	n.a.	n.a.	0.8	0.8
Iran	29.3	46.6	62.4	78.4	77.2
Iraq	7.4	17.4	23.7	25.4	27.1
Israel	7	8.8	12.1	12.7	12.1
Jordan	1.3	3.3	4.9	5.7	5.8
Kuwait	6.4	4.9	11.5	14.4	14
Lebanon	2.1	2.1	4.5	5	4.5
Oman	1.1	2	3	4.7	4.7
Qatar	n.a.	n.a.	n.a.	3.8	4.1
Saudi Arabia	21.9	44.5	68.1	85.3	99.3
Syria	4.5	9.3	11.6	15	15.2
United Arab Emirates	1.5	15.2	17.1	13.5	22
Yemen	1.5	2.5	4.5	4	4
Others Middle East	1.8	2.4	3.5	5.8	29.4
Australia	32.1	33.1	39.5	39.7	42.2
Bangladesh	1.3	1.8	3.2	4.3	5.0
Brunei	n.a.	n.a.	n.a.	0.7	0.7
China, PR	91.9	109.2	213.3	327.3	368.0
Hongkong	6.2	6.5	11.9	13.8	16.9
India	28.9	58.7	108.9	117.1	128.5
Indonesia	16.3	32.8	52.6	55.3	54.4
Japan	265.3	248.5	256.8	244.2	228.9
Korea, DPR (North Korea)	2.1	2.5	1.0	1.0	0.8
Korea, Rep. (South Korea)	24.0	50.2	99.4	105.5	102.0
Malaysia	6.5	12.8	20.4	22.0	23.6

Table continued →

Country/Region	1978	1990	2000	2005	2007
Mongolia	n.a.	n.a.	0.4	0.5	0.5
Myanmar (Burma)	n.a.	n.a.	n.a.	1.1	1.2
New Zealand	4.3	4.8	6.1	7.0	7.0
Pakistan	4.3	10.3	18.8	17.4	17.9
Philippines	11.3	11.0	16.7	14.7	13.9
Singapur	9.9	23.8	35.1	42.2	47.7
Sri Lanka	1.4	1.6	3.6	4.3	4.4
Taiwan	18.3	27.8	40.3	41.6	52.5
Thailand	10.5	19.9	34.0	45.6	43.0
Vietnam	0.9	2.7	7.9	11.2	11.7
Others Austral-Asia	3.3	5.2	6.1	5.1	10.0
Canada	89.3	78.5	91.0	105.1	102.3
Mexico	46.0	79.5	91.0	87.8	89.2
USA	900.0	774.8	888.4	950.0	943.1
Argentina	24.9	19.8	23.3	20.1	23.5
Bolivia	1.2	1.3	1.7	2.7	2.9
Brazil	53.5	68.7	101.7	100.8	96.5
Chile	5	6.4	10.4	11.9	12
Colombia	6.9	9.4	12.2	10.4	10.3
Costa Rica	n.a.	n.a.	n.a.	0.5	0.5
Cuba	9.3	9.9	8.7	9	8.5
Dominican Republic	1.9	2.5	5.6	6.5	6.6
Ecuador	3.1	4.7	6.2	6.6	8.1
El Salvador	0.7	0.7	1.8	2	2
Guatemala	1.4	1.2	2.9	3.5	3.6
Jamaica	2.4	2.5	3.3	3.8	3.8
Martinique	n.a.	n.a.	n.a.	1	1
Netherlands Antilles	5.3	2.6	2.8	3	3
Nicaragua	n.a.	n.a.	n.a.	1.3	1.3
Panama	1	0.7	1.5	1.9	1.9
Paraguay	n.a.	n.a.	n.a.	0.2	0.2
Peru	5.8	5.9	7.8	7.9	6.6
Suriname	n.a.	n.a.	n.a.	0.6	0.6
Trinidad & Tobago	n.a.	n.a.	n.a.	7.7	7.9
Uruguay	2	1.3	2	1.9	2
Venezuela	15.9	18.8	22.9	25.4	26.8
Others Latin America	9.7	8.2	11.8	1.3	22.0
WORLD	3 089.1	3 115.8	3 542.2	3 851.5	3 955.4
Europe	805.5	696.8	747.3	764.4	753.4
CIS	410.8	404.2	171.8	183.8	176.4
Africa	61.2	92.9	118.7	134.7	138.1
Middle East	85.8	159.0	226.9	274.5	320.3
Austral-Asia	538.8	663.2	975.6	1 121.1	1 180.0
North America	1 035.3	932.8	1 070.4	1 142.9	1 134.6
Latin America	150.0	164.6	226.6	230.0	251.6
OPEC-13	117.4	210.3	298.4	345.1	372.8
OECD	2 119.4	1 922.7	2 190.9	2 267.2	2 231.8
EU-27	751.1	636.1	688.2	701.4	687.5

n.a. not available

Source: IEA (2008b) for 1978 and 1990

Table A 3-16: Oil Consumption in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	USA	943.1	23.9	23.9
2	China, PR	368.0	9.3	33.2
3	Japan	228.9	5.8	39.0
4	India	128.5	3.2	42.2
5	Russia	125.9	3.3	45.4
6	Canada	102.3	2.6	48.0
7	Korea, Rep. (South Korea)	102.0	2.6	50.6
8	Germany	101.8	2.6	53.2
9	Saudi Arabia	99.3	2.5	55.7
10	Brazil	96.5	2.4	58.1
11	France	92.3	2.3	60.4
12	Mexico	89.2	2.3	62.7
13	Italy	82.4	2.1	64.8
14	United Kingdom	80.9	2.0	66.8
15	Spain	79.2	2.0	68.8
16	Iran	77.2	2.0	70.8
17	Indonesia	54.4	1.4	72.2
18	Taiwan	52.5	1.3	73.5
19	Singapur	47.7	1.2	74.7
20	Netherlands	47.2	1.2	75.9
	WORLD	3 955.4	100.0	
	Europe	753.4	19.0	
	CIS	176.4	4.5	
	Africa	138.1	3.5	
	Middle East	320.3	8.1	
	Austral-Asia	1 180.0	29.8	
	North America	1 134.6	28.7	
	Latin America	251.6	6.4	
	OPEC-13	372.8	9.4	
	OPEC Golf	243.8	6.2	
	OECD	2 231.8	56.4	
	EU-27	687.5	17.4	

Table A 3-17: Per Capita Oil Consumption in 2007 [in t]

Country/Region	Mineral oil consumption	Population	Per capita consumption
	Mt	Mio.	t
Singapur	47.7	4.8	9.94
Trinidad & Tobago	7.9	1.3	6.08
Luxemburg	2.9	0.5	5.76
Kuwait	14.0	2.7	5.19
United Arab Emirates	22.0	4.5	4.89
Qatar	4.1	0.9	4.56
Saudi Arabia	99.3	28.1	3.53
Iceland	1.1	0.3	3.52
Malta	1.4	0.4	3.50
USA	943.1	304.5	3.10
Canada	102.3	33.3	3.07
Belgium	31.1	10.7	2.91
Netherlands	47.2	16.4	2.88
Cyprus	2.7	1.1	2.45
Taiwan	52.5	23.0	2.28
Ireland	9.6	4.5	2.14
Norway	10.2	4.8	2.13
Korea, Rep. (South Korea)	102.0	48.6	2.10
Finland	10.9	5.3	2.05
Australia	42.2	21.3	1.98
Greece	21.8	11.2	1.95
Libya	12.1	6.3	1.92
Japan	228.9	127.7	1.79
Sweden	16.3	9.2	1.77
Brunei	0.7	0.4	1.75
Oman	4.7	2.7	1.74
Denmark	9.4	5.5	1.72
Spain	79.2	46.5	1.70
Austria	13.8	8.4	1.64
New Zealand	7.0	4.3	1.63
Israel	12.1	7.5	1.61
Switzerland	11.4	7.6	1.50
France	92.3	62.0	1.49
Jamaika	3.8	2.7	1.41
Italy	82.4	59.9	1.38
Portugal	14.3	10.6	1.35
United Kingdom	80.9	61.3	1.32
Slovenia	2.6	2.0	1.30
Germany	101.8	82.2	1.24
Suriname	0.6	0.5	1.20
Lebanon	4.5	4.0	1.13
Iran	77.2	72.2	1.07
Croatia	4.6	4.4	1.05
Bahrain	0.8	0.8	1.00
Jordan	5.8	5.8	1.00

Table continued →

Country/Region	Mineral oil consumption	Population	Per capita consumption
	Mt	Mio.	t
Venezuela	26.8	27.9	0.96
Czech Republic	9.7	10.4	0.93
Estonia	1.2	1.3	0.92
Iraq	27.1	29.5	0.92
Turkmenistan	4.7	5.2	0.90
Macedonia	1.8	2.0	0.90
Russia	125.9	141.9	0.89
Lithuania	2.9	3.4	0.85
Malaysia	23.6	27.7	0.85
Mexico	89.2	107.7	0.83
Syria	15.2	19.9	0.76
Cuba	8.5	11.2	0.76
Hungary	7.5	10.0	0.75
Latvia	1.7	2.3	0.74
Belarus	7.0	9.7	0.72
Chile	12.0	16.8	0.71
Slovakia	3.8	5.4	0.71
Bulgaria	5.4	7.6	0.71
Kazakhstan	10.6	15.7	0.68
Dominican Republic	6.6	9.9	0.67
Thailand	43.0	66.1	0.65
Poland	23.9	38.1	0.63
Serbia & Montenegro	4.6	7.4	0.62
Uruguay	2.0	3.3	0.61
Argentina	23.5	39.7	0.59
Ecuador	8.1	13.8	0.59
Panama	1.9	3.4	0.56
South Africa, Rep.	25.8	48.3	0.53
Romania	10.8	21.5	0.50
Gabon	0.7	1.4	0.50
Brazil	96.5	195.1	0.49
Azerbaijan	4.1	8.7	0.47
Turkey	31.5	74.8	0.42
Egypt	30.6	74.9	0.41
Tunisia	3.9	10.3	0.38
Algeria	12.6	34.7	0.36
Ukraine	15.3	46.2	0.33
China, PR	368.0	1 324.7	0.28
El Salvador	2.0	7.2	0.28
Guatemala	3.6	13.7	0.26
Morocco	7.6	31.2	0.24
Peru	6.6	27.9	0.24
Colombia	10.3	44.4	0.23
Nicaragua	1.3	5.7	0.23
Indonesia	54.4	239.9	0.23
Georgia	1.0	4.6	0.22
Sri Lanka	4.4	20.3	0.22
Uzbekistan	5.8	27.2	0.21

Table continued →

Country/Region	Mineral oil consumption	Population	Per capita consumption
	Mt	Mio.	t
Mongolia	0.5	2.7	0.19
Yemen	4.0	22.2	0.18
Angola	2.7	16.8	0.16
Armenia	0.5	3.1	0.16
Congo, Rep.	0.6	3.8	0.16
Philippines	13.9	90.5	0.15
Moldova	0.6	4.1	0.15
Vietnam	11.7	86.2	0.14
Senegal	1.6	12.7	0.13
Albania	0.4	3.2	0.13
Kyrgyzstan	0.6	5.2	0.12
India	128.5	1 149.3	0.11
Costa Rica	0.5	4.5	0.11
Pakistan	17.9	172.8	0.10
Cameroon	1.8	18.5	0.10
Ghana	2.3	23.9	0.10
Nigeria	12.3	148.1	0.08
Sudan	3.2	39.4	0.08
Bosnia-Herzegovina	0.3	3.8	0.08
Kenya	3.0	38.0	0.08
Côte d'Ivoire	1.3	20.7	0.06
Mozambique	1.1	20.4	0.05
Sambia	0.6	12.2	0.05
Tajikistan	0.3	7.3	0.04
Bangladesh	5.0	147.3	0.03
Paraguay	0.2	6.2	0.03
Myanmar (Burma)	1.2	49.2	0.02
Congo, DR (former Zaire)	0.3	66.5	0.00
WORLD	3 952.5	6 705.0	0.59
Europe	753.4	604.4	1.25
CIS	176.4	278.9	0.63
Africa	139.1	935.8	0.15
Middle East	320.3	201.5	1.59
Austral-Asia	1 180.0	3 707.2	0.32
North America	1 134.6	445.5	2.55
Latin America	248.7	446.8	0.56
OPEC-13	372.8	625.4	0.60
OECD	2 231.8	1 252.1	1.78
EU-27	687.5	497.7	1.38

Table A 3-18: Crude Oil Exports in 2007: The Main Countries (>5 Mt) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	Saudi Arabia	362.0	16.5	16.5
2	Russia	259.0	11.8	28.3
3	Iran	123.3	5.6	34.0
4	Nigeria	107.2	4.9	38.9
5	Venezuela	105.8	4.8	43.7
6	United Arab Emirates	105.0	4.8	48.5
7	Norway	98.1	4.5	53.0
8	Canada	94.7	4.3	57.3
9	Mexico	89.6	4.1	61.4
10	Iraq	82.2	3.8	65.1
11	Kuwait	80.6	3.7	68.8
12	Libya	68.9	3.1	72.0
13	Algeria	62.7	2.9	74.8
14	Kazakhstan	60.8	2.8	77.6
15	Angola	57.9	2.6	80.2
16	United Kingdom	50.8	2.3	82.6
17	Oman	39.2	1.8	84.3
18	Azerbaijan	35.7	1.6	86.0
19	Qatar	30.8	1.4	87.4
20	Sudan	21.0	1.0	88.3
21	Malaysia	20.0	0.9	89.2
22	Vietnam	19.3	0.9	90.1
23	Brazil	19.0	0.9	91.0
24	Equatorial Guinea	17.5	0.8	91.8
25	Ecuador	17.1	0.8	92.6
26	Indonesia	16.0	0.7	93.3
27	Australia	14.2	0.6	94.0
28	Congo, Rep.	12.0	0.5	94.5
29	Gabon	10.4	0.5	95.0
30	Brunei	10.2	0.5	95.4
31	Yemen	10.0	0.5	95.9
32	Denmark	9.5	0.4	96.3
33	Colombia	8.8	0.4	96.7
34	Chad	7.0	0.3	97.0
35	Syria	7.0	0.3	97.4
36	USA	6.8	0.3	97.7
	WORLD	2 190.7	100.0	
	Europe	172.2	7.9	
	CIS	358.2	16.3	
	Africa	376.0	17.2	
	Middle East	840.1	38.3	
	Austral-Asia	91.8	4.2	
	North America	191.0	8.7	
	Latin America	161.3	7.4	
	OPEC-13	1 219.4	55.7	
	OECD	374.1	17.1	
	EU-27	69.4	3.2	

Table A 3-19: Crude Oil Imports in 2007: The Main Countries (>5 Mt) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	USA	501.6	22.5	22.5
2	Japan	209.9	9.4	31.9
3	China, PR	163.2	7.3	39.2
4	India	119.8	5.4	44.6
5	Korea, Rep. (South Korea)	118.7	5.3	49.9
6	Germany	106.7	4.8	54.7
7	Italy	95.9	4.3	59.0
8	France	80.8	3.6	62.7
9	Singapur	63.4	2.8	65.5
10	Netherlands	61.9	2.8	68.3
11	Spain	59.0	2.6	70.9
12	United Kingdom	57.0	2.6	73.5
13	Taiwan	48.2	2.2	75.7
14	Canada	42.7	1.9	77.6
15	Thailand	40.1	1.8	79.4
16	Belgium	36.6	1.6	81.0
17	Turkey	23.4	1.1	82.1
18	Greece	22.8	1.0	83.1
19	South Africa, Rep.	22.5	1.0	84.1
20	Poland	21.9	1.0	85.1
21	Brazil	21.7	1.0	86.1
22	Belarus	21.5	1.0	87.0
23	Australia	21.4	1.0	88.0
24	Sweden	18.4	0.8	88.8
25	Indonesia	14.9	0.7	89.5
26	Portugal	12.6	0.6	90.0
27	Finland	12.5	0.6	90.6
28	Israel	11.8	0.5	91.1
29	Netherlands Antilles	11.5	0.5	91.6
30	Ukraine	11.0	0.5	92.1
31	Philippines	10.2	0.5	92.6
32	Chile	9.5	0.4	93.0
33	Romania	8.8	0.4	93.4
34	Lithuania	8.5	0.4	93.8
35	Pakistan	8.5	0.4	94.2
36	Austria	7.9	0.4	94.5
37	Morocco	7.4	0.3	94.9
38	Czech Republic	7.3	0.3	95.2
39	Hungary	7.2	0.3	95.5
40	Bulgaria	7.1	0.3	95.8
41	Malaysia	7.0	0.3	96.1
42	Kazakhstan	6.5	0.3	96.4
43	Slovakia	6.2	0.3	96.7
44	Peru	5.0	0.2	96.9
	<i>WORLD</i>	2 228.6	100.0	

Table continued →

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
	Europe	681.1	30.6	
	CIS	41.5	1.9	
	Africa	42.5	1.9	
	Austral-Asia	834.1	37.4	
	Middle East	20.2	0.9	
	North America	544.8	24.4	
	Latin America	64.4	2.9	
	OPEC-13	14.9	0.7	
	OECD	1 548.1	69.5	
	EU-27	649.2	29.1	

Table A 3-20: Development of the Crude Oil Price (nominal) 1970 - 2007

Year	Crude Oil Price in \$/b			
	Arabian Light	Brent	OPEC Basket	WTI
1970	1.67			
1971	2.04			
1972	2.30			
1973	2.83			
1974	10.41			
1975	10.70			
1976	11.63	12.80		12.23
1977	12.38	13.92		14.22
1978	13.03	14.02		14.55
1979	29.75	31.61		25.08
1980	35.69	36.83		37.96
1981	34.32	35.93		36.08
1982	31.80	32.97		33.65
1983	28.78	29.55		30.30
1984	28.07	28.66		29.34
1985	27.53	27.51		27.99
1986	12.97	14.38		15.05
1987	16.92	18.43		19.19
1988	13.22	14.96		15.98
1989	15.69	18.20		19.68
1990	20.50	23.81		24.52
1991	16.56	20.05		21.54
1992	17.21	19.37	18.44	20.57
1993	14.90	17.07	16.33	18.45
1994	14.76	15.81	15.53	17.21
1995	16.86	17.04	16.08	18.42
1996	19.86	20.56	20.29	22.11
1997	18.14	19.12	18.68	20.62
1998	12.31	12.76	12.28	14.40
1999	17.45	17.91	17.47	19.30
2000	26.81	28.92	27.60	30.37
2001	23.10	24.44	23.12	25.96
2002	22.82	24.98	24.36	26.11
2003	25.62	28.89	28.10	31.12
2004	34.53	38.24	36.05	41.44
2005	50.26	54.42	50.64	56.49
2006	60.23	65.02	61.08	66.05
2007	69.08	72.53	69.10	72.34
2008	95.16	96.94	94.45	99.65

Table A 3-21: The World's Most Important Oil Sand Deposits

Country	Age/type of reservoir rock	Oil-in-place [Mt]	Resources [Mt]	Reserves [Mt]	Cum. production [Mt]
Canada	Mainly Lower Cretaceous sands, carbonates	272 000	81 853	27 450	940
Russia	Paleozoic-Proterozoic/mainly carbonates	113 858	35 933	11 190	2.2
Kazakhstan	Sands	66 886	21 072	6 679	n.a.
Nigeria	Dahomey Basin/Upper Cretaceous	913	288	91	n.a.
Angola	Congo Basin, sands	739	233	74	n.a.
Madagascar	Lower Karroo/sands	352	111	35	n.a.
Indonesia	n.a.	708	222	70	3.8
Italy	n.a.	334	105	33	n.a.
Congo, DR	Congo Basin, sands	48	15	5	n.a.
Congo, Rep.	Congo Basin, sands	10	3	1	n.a.
China, PR	n.a.	253	89	0.2	n.a.
USA	Paleocene-Eocene	5 905	2 065	0	3.8
Colombia	n.a.	150	53	n.a.	n.a.
Trinidad	n.a.	100	35	n.a.	n.a.
Albania	Mio-Pliocene	< 100	< 35	n.a.	n.a.
Venezuela	n.a.	10	4	n.a.	n.a.
Switzerland	n.a.	2	1	n.a.	n.a.
<i>Total</i>		<i>462 268</i>	<i>142 117</i>	<i>45 628</i>	<i>949.8</i>

n.a. not available

Table A 3-22: Global Distribution of Extra Heavy Oil Fields

Country	Fields	Deposit	Oil in-place [Mt]	Resources [Mt]	Reserves [Mt]	Cum. production [Mt]
Venezuela	33	Orinoco Belt, Maracaibo Basin	240 360	46 750	6 400	200
China, PR	12	Bohai-Gulf Basin, Huabei Basin, Tarim Basin	1 411	254	119	22
Azerbaijan	1	South Caspian Basin	1 406	253	20	121
Italy	31	Caltanissetta Basin	428	77	14	28
United Kingdom	2	Shetland Basin, North Sea Graben	1 884	342	12	160
Egypt	1	Gulf of Suez	79	14	8	n.a.
Cuba	1	Florida-Bahamas Basin	76	14	8	n.a.
Ecuador	3	Putamayo Basin	146	26	7	8
Albania	2	Durres Basin	59	11	5	0.5
Colombia	2	Barinas-Apure Basin	60	11	5	1
USA	54	97% of the deposits in California	415	76	3	34
Trinidad & Tobago	2	Southern Basin	48	10	> 1	n.a.
Peru	2	Oriente Basin	40	7	1	3
Russia	6	Volga-Ural, Northern Caucasus Mangyshlak Basin	28	5	1	n.a.
Canada	4	West Canadian Sediment Basin	n.a.	> 2	1	n.a.
Mexico	2	n.a.	10	2	< 1	1
Poland	2	n.a.	2	< 0.5	< 1	n.a.
Israel	2	Dead Sea Province	<1	< 0.05	< 1	n.a.
Total	162		246 453	47 850	6 608	578.5

n.a. not available

Table A 3-23: Global Distribution of Oil Shale

Rank	Country	Age	Oil resources in-place [Mt]	Recoverable resources [Mt]
1	USA	Tertiary, Permian, Carboniferous, Devonian	301 566	109 000
2	Russia	Cretaceous, Jurassic, Ordovician	39 814	n.a.
3	Congo, Rep.	n.a.	14 310	n.a.
4	Brazil	Tertiary, Permian	11 734	445
5	Italy	Tertiary, Cretaceous, Jurassic, Triassic	10 446	n.a.
6	Morocco	Cretaceous	8 167	500
7	Jordan	Cretaceous	5 246	4 000
8	Australia	Tertiary, Cretaceous, Triassic, Permian	4 531	1 725
9	China	Tertiary	2 290	637
10	Canada	Cretaceous, Jurassic, Permian-Carboniferous, Devonian, Ordovician	2 200	n.a.
11	Uzbekistan	n.a.	1 200	n.a.
12	Turkmenistan	n.a.	1 100	n.a.
13	France	Cretaceous, Jurassic, Permian	1 002	n.a.
14	Belarus	n.a.	1 000	n.a.
15	Thailand	Tertiary	916	810
16	Sweden	Cambrian	875	n.a.
17	Egypt	Cretaceous	816	n.a.
18	Ukraine	n.a.	600	300
19	Israel	Cretaceous	550	400
20	Estonia	Ordovician	2 494	513
21	United Kingdom	Jurassic	501	n.a.
22	Kazakhstan	n.a.	400	n.a.
23	Germany	Tertiary, Jurassic	286	150-180
24	Myanmar (Burma)	Tertiary	286	n.a.
25	Turkey	Tertiary	284	269
26	Luxemburg	Jurassic	97	n.a.
27	Argentina	Jurassic	57	n.a.
28	Armenia	Tertiary	44	n.a.
29	Mongolia	n.a.	42	n.a.
30	Spain	Carboniferous	40	9
31	Serbia	n.a.	33	n.a.
32	South Africa, Rep.	n.a.	19	n.a.
33	Bulgaria	n.a.	18	n.a.
34	Hungary	Tertiary	8	6
35	Poland	Tertiary, Devonian	7	n.a.
36	Madagascar	n.a.	5	n.a.
37	Chile	Tertiary	3	n.a.
38	New Zealand	Tertiary, Permian-Carboniferous	3	n.a.
39	Austria	Tertiary, Jurassic, Triassic	1	n.a.
<i>Total</i>			412 979	118 794

n.a. not available

Table A 4-1: Conventional Natural Gas: Development of Estimated Ultimate Recovery 1955 – 2007 [in Tcm]

Nr.	Year	Author	Estimated Ultimate Recovery
1	1958	Weeks	120-150
2	1959	Weeks	150
3	1965	Weeks	180
4	1965	Hendriks/USGS	410
5	1967	Ryman/Esso	320
6	1967	Shell	270
7	1968	Weeks	175
8	1969	Hubbert	205-320
9	1971	Weeks	200
10	1973	Koppack/Shell	190
11	1973	Hubbert	320
12	1973	Linden	275
13	1975	Adams & Kirby	150
14	1976	BGR	235
15	1975	Nat. Acad. Science Washington	200
16	1977	IGU	165
17	1977	LNG 5., Düsseldorf	230
18	1979	Meyerhoff (10. WPC)	220
19	1980	11. WEC	293
20	1985	Masters (12. WPC)	208-369 (250)
21	1985	IGU (16. WGC)	330
22	1986	Ruhr gas	259
23	1988	Ruhr gas	329
24	1988	IGU (17. WGC)	351
25	1989	BGR	385
26	1991	Masters (13. WPC)	251-430 (297)
27	1991	IGU (18. WGC)	370
28	1991	Krylov (13. WPC)	413-423
29	1992	World Energy Council	292
30	1992	Ruhr gas	386
31	1994	Masters (14. WPC)	277-479 (327)
32	1994	Ruhr gas	387
33	1994	IGU (19. WPC)	449
34	1995	BGR	420
35	1995	Ruhr gas	427
36	1995	Cornot-G./Cedigaz	443-539
37	1996	Colitti & Simeoni	351
38	1997	Mobil	360
39	1997	IGU (20. WGC)	460
40	1997	Enron Corp.	492
41	1997	Rogner (IIASS)	552
42	1998	Schollnberger/AMOCO	390
43	1998	BGR	439
44	1999	Harper (BPAmoco)	339

Table continued →

Nr.	Year	Author	Estimated Ultimate Recovery
45	2000	USGS (16. WPC)	365-540 (437)
46	2000	IGU (21. WGC)	569
47	2001	Cedigaz	520-595
48	2001	Edwards	310
49	2003	BGR	447
50	2006	Schollnberger	414
51	2005	BGR	461
52	2008	IEA	443
53	2009	BGR	509

Table A 4-2: Estimated Ultimate Recovery (EUR) of Conventional Natural Gas by Year-End 2007 [in Bcm]

Country/Region	Production 2007	Cum. production 2007	Reserves	Resources	EUR	Remaining potential
1	2	3	4	5	6=3+4+5	7=4+5
Albania	< 0.05	7.7	1	10	19	11
Austria	1.8	87.7	16	50	154	66
Bulgaria	0.4	5.7	6	15	26	21
Croatia	2.4	57.7	29	80	166	109
Czech Republic	0.1	13.9	27	10	51	37
Denmark	8.7	134.3	105	100	339	205
France	1	224.5	7	300	532	307
Germany	18	929.2	218	150	1.298	368
Greece	< 0.05	1.4	2	10	13	12
Hungary	2.5	211.2	55	80	346	135
Ireland	0.5	53.7	10	50	114	60
Italy	9.7	695	94	500	1 289	594
Malta	-	-	-	6	6	6
Netherlands	68.3	2 936.0	1 386	200	4 522	1 586
Norway	89.7	1 228.2	2 313	4 850	8 391	7 163
Poland	4.6	231	139	150	520	289
Portugal	-	-	-	40	40	40
Romania	10.9	1 220.5	625	400	2 246	1 025
Serbia	0.3	30.4	48	40	119	88
Slovakia	0.1	25	14	15	54	29
Spain	0.1	11.2	3	500	514	503
Turkey	0.9	9.3	8	20	38	28
United Kingdom	83.8	2 269.1	647	1 150	4 066	1 797
Azerbaijan	11.0	443.5	1 340	1 900	3 683	3 240
Belarus	0.2	11.5	3	20	34	23
Georgia	< 0.05	2.8	8	100	111	108
Kazakhstan	29.2	310.6	3 380	2 500	6 191	5 880
Kyrgyzstan	< 0.05	7.2	6	20	33	26
Moldova	-	n.a.	-	20	20	20
Russia	650.8	17 357.9	47 693	106 000	171 051	153 693
Tajikistan	0.0	8.4	6	100	114	106
Turkmenistan	72.3	2 162.7	3 000	6 000	11 163	9 000
Ukraine	20.6	1 865.8	1 026	900	3 792	1 926
Uzbekistan	65.3	1 822.1	1 841	1 500	5 163	3 341
Algeria	84.8	1 736.4	4 515	1 500	7 751	6 015
Angola	0.8	17.3	270	1 200	1 487	1 470
Benin	-	-	1	20	21	21
Cameroon	-	-	135	150	285	285
Chad	-	-	-	50	50	50
Congo, DR (former Zaire)	-	-	1	10	11	11
Congo, Rep.	-	-	91	300	391	391
Côte d'Ivoire	1.5	16.6	28	170	215	198
Egypt	46.5	424.8	2 048	1 000	3 472	3 048
Equatorial Guinea	0.5	1.6	37	200	238	237

Table continued →

Country/Region	Production 2007	Cum. production 2007	Reserves	Resources	EUR	Remaining potential
1	2	3	4	5	6=3+4+5	7=4+5
Eritrea	-	-	-	150	150	150
Ethiopia	-	-	25	20	45	45
Gabon	0.1	3.8	28	400	432	428
Ghana	-	-	23	30	53	53
Guinea-Bissau	-	-	-	6	6	6
Libya	15.3	219.2	1 495	600	2 314	2 095
Madagascar	-	-	-	5	5	5
Mauritania	-	-	28	8	36	36
Morocco	0.1	2.2	2	5	9	7
Mozambique	2.6	8.3	103	200	311	303
Namibia	-	-	62	300	362	362
Nigeria	34.1	249.4	5 296	3 500	9 045	8 796
Ruanda	-	-	57	20	77	77
Senegal	< 0.05	0.1	11	10	21	21
Seychelles	-	-	-	20	20	20
Somalia	-	-	6	400	406	406
South Africa, Rep.	1.6	29.7	20	50	100	70
Sudan	-	-	85	450	535	535
Tanzania	-	-	7	100	107	107
Togo	-	-	-	10	10	10
Tunisia	2.2	31.8	65	300	397	365
Western Sahara	-	-	-	2	2	2
Zimbabwe	-	-	-	10	10	10
Bahrain	11.5	186.9	85	200	472	285
Iran	106.7	1 352.2	27 803	11 000	40 155	38 803
Iraq	1.5	97.4	3 170	4 000	7 268	7 170
Israel	0.2	4.3	44	100	148	144
Jordan	0.2	3.9	6	100	110	106
Kuwait	12.1	240.3	1 784	500	2 524	2 284
Oman	24.1	210.7	850	900	1 960	1 750
Palestine	-	-	30	40	70	70
Qatar	59.8	522.7	25 600	2 500	28 623	28 100
Saudi Arabia	74.4	1 153.1	7 188	11 000	19 341	18 188
Syria	6.3	91.4	284	200	575	484
United Arab Emirates	49.2	836.7	6 072	1 500	8 408	7 572
Yemen	0.2	2.2	488	500	990	988
Afghanistan	n.a.	55.9	100	500	656	600
Australia	43.6	742	2 510	2 000	5 252	4 510
Bangladesh	15.8	203.3	390	900	1 493	1 290
Brunei	12.3	324.9	343	300	968	643
Cambodia	-	-	-	50	50	50
China, PR	67.7	798.2	2 500	10 000	13 298	12 500
India	32.4	481.9	1 075	800	2 357	1 875
Indonesia	69.7	1 544.1	3 000	3 500	8 044	6 500
Japan	3.7	112.4	38	5	155	43
Korea, Rep. (South Korea)	-	-	20	50	70	70
Laos	-	-	-	30	30	30

Table continued →

Country/Region	Production 2007	Cum. production 2007	Reserves	Resources	EUR	Remaining potential
1	2	3	4	5	6=3+4+5	7=4+5
Malaysia	60.5	818.3	2 475	1 400	4 693	3 875
Myanmar (Burma)	14.7	97.9	600	700	1 398	1 300
New Zealand	4.0	129.3	30	100	259	130
Pakistan	30.8	563.8	850	800	2 214	1 650
Papua New Guinea	0.2	1.9	435	350	787	785
Philippines	3.1	16.0	99	200	315	299
Taiwan	0.6	49.4	6	5	61	11
Thailand	25.9	315.6	330	500	1 146	830
Vietnam	7.7	37.8	295	500	833	795
Canada	183.4	4 873.3	1 648	10 500	17 021	12 148
Greenland	-	-	-	2 800	2 800	2 800
Mexico	50.5	1 268.8	368	2 000	3 637	2 368
USA	546.1	29 749.4	5 978	20 000	55 727	25 978
Argentina	44.7	863.8	446	1 500	2 810	1 946
Barbados	-	-	2	200	202	202
Bolivia	14.3	144.9	750	700	1 595	1 450
Brazil	11.3	171.7	354	2 000	2 526	2 354
Chile	2	98.9	44	180	323	224
Colombia	7.5	177.1	125	400	702	525
Cuba	1.3	7.6	71	20	98	91
Ecuador	0.3	3.7	8	50	62	58
Grenada	-	-	-	23	23	23
Guatemala	-	-	3	5	8	8
Guyana	-	-	-	150	150	150
Paraguay	-	-	-	100	100	100
Peru	2.2	52.4	453	500	1 005	953
Suriname	-	-	-	100	100	100
Trinidad & Tobago	39	337.3	480	900	1 717	1 380
Uruguay	-	-	-	30	30	30
Venezuela	28.5	913.8	5 098	3 000	9 011	8 098
WORLD	3 013.6	86 776.2	182 821	239 370	508 968	422 192
Europe	303.9	10 383.1	5 753	8 726	24 863	14 480
CIS	849.5	23 992.6	58 303	119 060	201 355	177 363
Africa	190.2	2 737.9	14 437	11 196	28 371	25 633
Middle East	346.1	4 701.8	73 404	32 540	110 645	105 944
Austral-Asia	392.8	6 292.9	15 096	22 690	44 079	37 786
North America	780.0	35 891.5	7 995	35 300	79 186	43 295
Latin America	151.2	2 771.1	7 834	9 858	20 463	17 692
OPEC-13	537.2	8 878.0	91 298	43 850	144 035	135 148
OECD	1121.2	45 936.1	15 637	45 636	107 204	61 274
EU-27	210.5	9 049.8	3 354	3 726	16 131	7 081
European Market	1302.2	36 790.2	72 209	131 191	240 191	203 401
Asian Market	738.9	10 994.7	88 469	55 230	154 694	143 699
North American Market	780.0	35 891.5	7 995	35 300	79 186	43 295
South American Market	74.6	1 331.6	2 048	5 010	8 389	7 058

n.a. not available

- no production, reserves, resources

Table A 4-3: Estimated Ultimate Recovery of Conventional Natural Gas by Year End 2007: The 20 Main Countries Ordered by Remaining Potential [in Bcm]

Rank	Country/Region	Cum. production 2007	Reserves	Resources	EUR	Rem. potential	Percentage
1	Russia	17 357.9	47 693	106 000	171 051	153 693	36.4
2	Iran	1 352.2	27 803	11 000	40 155	38 803	9.2
3	Qatar	522.7	25 600	2 500	28 623	28 100	6.7
4	USA	29 749.4	5 978	20 000	55 727	25 978	6.2
5	Saudi Arabia	1 153.1	7 188	11 000	19 341	18 188	4.3
6	China, PR	798.2	2 500	10 000	13 298	12 500	3.0
7	Canada	4 873.3	1 648	10 500	17 021	12 148	2.9
8	Turkmenistan	2 162.7	3 000	6 000	11 163	9 000	2.1
9	Nigeria	249.4	5 296	3 500	9 045	8 796	2.1
10	Venezuela	913.8	5 098	3 000	9 011	8 098	1.9
11	United Arab Emirates	836.7	6 072	1 500	8 408	7 572	1.8
12	Iraq	97.4	3 170	4 000	7 268	7 170	1.7
13	Norway	1 138.9	2 313	4 850	8 302	7 163	1.7
14	Indonesia	1 544.1	3 000	3 500	8 044	6 500	1.5
15	Algeria	1 736.4	4 515	1 500	7 751	6 015	1.4
16	Kazakhstan	310.6	3 380	2 500	6 191	5 880	1.4
17	Australia	742.0	2 510	2 000	5 252	4 510	1.1
18	Malaysia	818.3	2 475	1 400	4 693	3 875	0.9
19	Uzbekistan	1 822.1	1 841	1 500	5 163	3 341	0.8
20	Netherlands	2 951.5	1 386	200	4 538	1 586	0.4
...							
40	Germany	929.2	218	150	1 298	368	0.1
...							
	WORLD	86 776.2	182 821	239 370	508 968	422 192	100.0
	Europe	10 383.1	5 753	8 726	24 863	14 480	3.4
	CIS	23 992.6	58 303	119 060	201 355	177 363	42.0
	Africa	2 737.9	14 437	11 196	28 371	25 633	6.1
	Middle East	4 701.8	73 404	32 540	110 645	5 455	1.3
	Austral-Asia	6 292.9	15 096	22 690	44 079	105 914	25.1
	North America	35 891.5	7 995	35 300	79 186	32 361	7.7
	Latin America	2 771.1	7 834	9 858	20 463	37 786	8.9
	OPEC-13	8 878.0	91 298	43 850	144 035	135 148	32.0
	OECD	45 936.1	15 637	45 636	107 204	61 274	12.2
	EU-27	9 049.8	3 354	3 726	16 131	7 081	1.7
	Europ. Market	36 790.2	72 209	131 191	240 191	203 401	48.2
	Asian Market	10 994.7	88 469	55 230	154 694	143 699	34.0
	N-American Market	35 891.5	7 995	35 300	79 186	43 295	10.3
	S-American Market	1 331.6	2 048	5 010	8 389	7 058	1.7

Table A 4-4: Development of the Estimated Ultimate Recovery 1997, 2001 and 2007 [in Bcm]

Country/Region	1997	2001	2007
Albania	18	20	19
Austria	113	142	154
Bulgaria	19	22	26
Croatia	192	161	166
Czech Republic	21	27	51
Denmark	308	323	339
France	270	528	532
Germany	1 298	1 371	1 298
Greece	15	12	13
Hungary	366	354	346
Ireland	74	122	114
Italy	1 343	1 348	1 289
Malta	-	6	6
Netherlands	4 154	4 444	4 522
Norway	6 205	6 307	8 391
Poland	440	517	520
Portugal	-	-	40
Romania	1 914	1 895	2 246
Serbia	158	116	119
Slovakia	47	54	54
Spain	52	511	514
Turkey	35	34	38
United Kingdom	4 123	4 008	4 066
Azerbaijan	2 183	3 305	3 683
Belarus	64	34	34
Georgia	109	111	111
Kazakhstan	6 956	4 534	6 191
Kyrgyzstan	33	33	33
Moldova	75	20	20
Russia	143 345	144 169	171 051
Tajikistan	214	114	114
Turkmenistan	10 565	10 649	11 163
Ukraine	4 673	3 768	3 792
Uzbekistan	5 100	4 834	5 163
Algeria	6 199	7 244	7 751
Angola	758	1 259	1 487
Benin	6	21	21
Cameroon	250	260	285
Chad	63	53	50
Congo, Rep.	200	391	391
Congo, DR (former Zaire)	1	10	2
Côte d'Ivoire	190	206	215
Egypt	2 130	2 770	3 472
Equatorial Guinea	59	237	238
Eritrea	50	150	150
Ethiopia	100	45	45

Table continued →

Country/Region	1997	2001	2007
Gabon	86	437	432
Ghana	34	54	53
Guinea-Bissau	-	6	6
Libya	1 846	2 071	2 314
Madagascar	7	7	5
Mauritania	-	8	36
Morocco	8	8	9
Mozambique	176	327	311
Namibia	447	450	362
Nigeria	7 010	7 106	9 045
Rep. South Africa	83	87	100
Ruanda	55	45	77
Senegal	16	10	21
Seychelles	50	20	20
Somalia	406	406	406
Sudan	585	535	535
Tanzania	178	128	107
Togo	-	10	10
Tunisia	438	396	397
Western Sahara	-	3	11
Zimbabwe	100	10	10
Bahrain	285	426	472
Iran	35 691	37 829	40 155
Iraq	7 516	7 199	7 268
Israel	2	145	148
Jordan	36	109	110
Kuwait	1 984	2 170	2 524
Oman	1 115	1 814	1 960
Palestine	-	40	70
Qatar	14 128	27 170	28 623
Saudi Arabia	16 273	17 955	19 341
Syria	587	491	575
United Arab Emirates	8 124	8 052	8 408
Yemen	581	980	990
Afghanistan	1 043	656	656
Australia	3 613	5 064	5 252
Bangladesh	748	1 449	1 493
Brunei	703	946	968
Cambodia	470	50	50
China, PR	35 238	11 871	13 298
India	1 192	1 751	2 357
Indonesia	8 114	7 214	8 044
Japan	120	139	155
Korea, Rep. (South Korea)	-	70	70
Laos	50	30	30
Malaysia	3 530	4 003	4 693
Myanmar (Burma)	449	1 010	1 398
New Zealand	266	259	259
Pakistan	1 701	1 908	2 214
Papua New Guinea	949	697	787

Table continued →

Country/Region	1997	2001	2007
Philippines	160	345	315
Taiwan	122	127	61
Thailand	843	1 033	1 146
Vietnam	623	701	833
Canada	13 773	13 461	17 021
Greenland	2 800	2 300	2 800
Mexico	5 793	3 836	3 637
USA	38 100	46 534	55 727
Argentina	2 455	2 871	2 810
Barbados	5	200	202
Bolivia	449	1 460	1 595
Brazil	1 419	2 321	2 526
Chile	270	364	323
Colombia	739	652	702
Cuba	5	42	98
Ecuador	277	157	62
Grenada	-	23	23
Guatemala	2	8	8
Guyana	-	150	150
Paraguay	5	100	100
Peru	930	790	1 005
Suriname	-	100	100
Trinidad & Tobago	866	1 730	1 717
Uruguay	-	30	30
Venezuela	8 606	7 882	9 011
WORLD	438 763	447 379	508 982
Europe	21 165	22 323	24 863
CIS	173 317	171 572	201 355
Africa	21 531	24 771	28 371
Middle East	86 322	104 378	110 645
Austral-Asia	59 934	39 324	44 079
North America	60 466	66 131	79 186
Latin America	16 028	18 881	20 463
OPEC-13	115 491	131 891	144 035
OECD	83 208	91 717	107 204
EU-27	14 557	15 684	16 131
Europ. Market	205 103	206 384	240 191
Asian Market	146 256	143 702	154 694
N-American Market	60 466	66 131	79 186
S-American Market	5 805	7 936	8 389

- no Estimated Ultimate Recovery

Table 4-5: Remaining Potential of Conventional Natural Gas in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Reserves	Resources	Rem. potential	Percentage	
		G. m ³	G. m ³	G. m ³	Country	Cumulative
1	Russia	47 693	106 000	153 693	26.1	26.1
2	Iran	27 803	11 000	38 803	15.2	41.3
3	Qatar	25 600	2 500	28 100	14.0	55.3
4	USA	5 978	20 000	25 978	3.9	59.2
5	Saudi Arabia	7 188	11 000	18 188	3.3	62.6
6	China, PR	2 500	10 000	12 500	3.3	65.8
7	Canada	1 648	10 500	12 148	2.9	68.7
8	Turkmenistan	3 000	6 000	9 000	2.8	71.5
9	Nigeria	5 296	3 500	8 796	2.5	74.0
10	Venezuela	5 098	3 000	8 098	1.8	75.8
11	United Arab Emirates	6 072	1 500	7 572	1.7	77.6
12	Iraq	3 170	4 000	7 170	1.6	79.2
13	Norway	2 313	4 850	7 163	1.6	80.8
14	Indonesia	3 000	3 500	6 500	1.4	82.2
15	Algeria	4 515	1 500	6 015	1.4	83.6
16	Kazakhstan	3 380	2 500	5 880	1.4	84.9
17	Australia	2 510	2 000	4 510	1.3	86.2
18	Malaysia	2 475	1 400	3 875	1.1	87.3
19	Uzbekistan	1 841	1 500	3 341	1.0	88.3
20	Azerbaijan	1 340	1 900	3 240	1.0	89.3
...						
54	Germany	218	150	368	0.1	
...						
	<i>WORLD</i>	<i>182 821</i>	<i>239 370</i>	<i>422 192</i>	<i>100.0</i>	
	Europe	5 753	8 726	14 480	3.2	
	CIS	58 303	119 060	177 363	31.9	
	Africa	14 437	11 196	25 633	7.9	
	Middle East	73 404	32 540	5 425	40.1	
	Austral-Asia	15 096	22 690	105 914	8.3	
	North America	7 995	35 300	32 361	4.4	
	Latin America	2 771	9 858	37 786	4.3	
	OPEC-13	91 298	43 850	135 148	49.9	
	OECD	15 676	45 636	61 274	8.6	
	EU-27	3 354	3 726	7 081	1.9	
	Europ. Market	72 209	131 191	203 401	39.5	
	Asian Market	88 469	55 230	143 699	48.4	
	N-American Market	7 995	35 300	43 295	4.4	
	S-American Market	2 048	5 010	7 058	4.3	

Table A 4-6: Conventional Natural Gas Reserves in 1980, 1990, 2000, 2005 and 2007 [in Bcm]

Country/Region	1980	1990	2000	2005	2007
Albania	10	12	3	1	1
Austria	10	17	26	20	16
Bulgaria	5	7	6	6	6
Croatia	n.a.	n.a.	35	28	29
Czech Republic**)	12	14	4	4	27
Denmark	110	109	144	122	105
France	170	37	14	11	7
Germany	493	347	377	255	218
Greece	11	5	1	1	2
Hungary	85	118	83	61	55
Ireland	27	40	20	10	10
Italy	100	329	229	227	94
Netherlands	1 756	2 113	1 771	1 510	1 386
Norway	1 210	2 757	2 195	2 358	2 313
Poland	172	160	150	165	165
Romania	150	550	374	628	625
Serbia*)	60	82	48	40	48
Slovakia	n.a.	n.a.	15	15	14
Spain	42	550	1	3	3
Turkey	14	28	9	8	8
United Kingdom	700	1 420	1 195	728	660
Azerbaijan	n.a.	70	1 000	1 371	1 340
Belarus	n.a.	7	5	3	3
Georgia	n.a.	< 0.5	8	8	8
Kazakhstan	n.a.	1 830	1 810	2 999	3 380
Kyrgyzstan	n.a.	6	6	6	6
Moldova	n.a.	-	5	-	-
Russia***)	26 050	47 000	48 100	47 680	47 693
Tajikistan	n.a.	7	6	6	6
Turkmenistan	n.a.	2 720	2 860	2 800	3 000
Ukraine	n.a.	1 070	1 121	1 010	1 026
Uzbekistan	n.a.	1 820	1 875	1 620	1 841
Algeria	3 730	3 300	4 523	4 581	4 515
Angola	30	51	46	113	270
Benin	-	-	1	1	1
Cameroon	1	110	110	110	135
Chad	-	-	3	-	-
Congo, DR (former Zaire)	2	1	1	1	1
Congo, Rep.	57	77	91	91	91
Côte d'Ivoire	-	99	30	28	28
Egypt	84	353	1 444	1 912	2 048
Equatorial Guinea	-	24	37	70	37
Ethiopia	-	25	25	25	25
Gabon	14	12	34	34	28
Ghana	-	-	24	24	23
Libya	675	1 208	1 314	1 491	1 495

Table continued →

Country/Region	1980	1990	2000	2005	2007
Madagascar	-	2	2	-	-
Mauritania	-	-	-	50	28
Morocco	3	3	1	2	2
Mozambique	-	65	57	127	103
Namibia	-	57	150	70	62
Nigeria	1 160	2 808	3 512	5 230	5 296
Rep. South Africa	-	51	22	20	20
Ruanda	-	57	25	57	57
Senegal	-	-	6	11	11
Somalia	-	6	6	6	6
Sudan	3	86	85	85	85
Tanzania	1	118	28	23	7
Tunisia	159	86	78	78	65
Bahrain	255	177	110	92	85
Iran	13 735	17 010	26 000	27 580	27 803
Iraq	777	3 107	3 110	3 170	3 170
Israel	-	1	42	46	44
Jordan	-	15	7	6	6
Kuwait	940	1 508	1 850	1 586	1 784
Oman	71	290	859	995	850
Palestine	-	-	-	30	30
Qatar	1 699	4 613	14 440	25 786	25 600
Saudi Arabia	3 183	5 184	6 200	6 849	7 188
Syria	43	182	241	310	284
United Arab Emirates	700	5 623	6 200	5 622	6 072
Yemen	-	198	479	479	488
Afghanistan	70	100	100	100	100
Australia	850	2 015	2 300	2 520	2 510
Bangladesh	283	360	301	436	390
Brunei	210	336	391	340	343
China, PR	700	1 000	1 368	2 351	2 500
India	270	709	647	1 101	1 075
Indonesia	670	2 590	3 100	2 769	3 000
Japan	15	35	40	40	38
Korea, Rep. (South Korea)	-	-	20	20	20
Malaysia	425	1 640	2 314	2 413	2 475
Myanmar (Burma)	5	265	283	500	600
New Zealand	173	137	63	30	30
Pakistan	430	642	650	807	850
Papua New Guinea	-	241	400	388	435
Philippines	-	17	150	100	99
Taiwan	25	19	76	71	6
Thailand	292	224	360	354	330
Vietnam	-	15	193	235	295
Canada	2 470	2 765	1 728	1 640	1 648
Mexico	1 827	2 060	861	566	368
USA	5 410	4 796	4 741	5 579	5 978
Argentina	623	579	748	534	446
Barbados	-	-	-	-	2
Bolivia	119	118	518	750	750

Table continued →

Country/Region	1980	1990	2000	2005	2007
Brazil	52	115	233	306	354
Chile	71	119	98	43	44
Colombia	170	127	196	114	125
Cuba	-	3	18	30	71
Ecuador	113	112	104	10	8
Guatemala	-	-	3	3	3
Peru	31	200	246	247	453
Trinidad & Tobago	280	252	605	545	480
Venezuela	1 189	3 429	4 157	4 288	5 098
WORLD	75 317	134 222	161 696	180 174	182 830
Europe	5 172	8 165	6 699	6 200	5 792
USSR/CIS	26 050	54 530	56 796	57 503	58 303
Africa	5 919	8 599	11 653	14 238	14 437
Middle East	21 403	37 908	59 535	73 001	73 374
Austral-Asia	4 418	10 345	12 755	14 575	15 096
North America	9 707	9 621	7 329	7 785	7 995
Latin America	2 648	5 054	6 927	6 871	7 834
OPEC-13	28 601	50 543	74 555	89 074	91 298
OECD	14 795	17 823	13 686	13 372	13 166
EU-27	3 903	5 898	4 409	3 765	3 393
Europ. Market	35 714	67 559	70 778	71 688	72 209
Asian Market	25 821	48 253	72 291	87 577	88 469
N-American Market	9 707	9 621	7 329	7 785	7 995
S-American Market	896	1 131	1 844	1 881	2 048

n.a. not available

- no reserves

*) 1980 and 1990 Yugoslavia

**) 1980 and 1990 CSSR

***) 1980 and 1990 USSR

Table A 4-7: Conventional Natural Gas Reserves in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Bcm	Percentage	
			Country	Cumulative
1	Russia	47 693	26.1	26.1
2	Iran	27 803	15.2	41.3
3	Qatar	25 600	14.0	55.3
4	Saudi Arabia	7 188	3.9	59.2
5	United Arab Emirates	6 072	3.3	62.6
6	USA	5 978	3.3	65.8
7	Nigeria	5 296	2.9	68.7
8	Venezuela	5 098	2.8	71.5
9	Algeria	4 515	2.5	74.0
10	Kazakhstan	3 380	1.8	75.8
11	Iraq	3 170	1.7	77.6
12	Turkmenistan	3 000	1.6	79.2
13	Indonesia	3 000	1.6	80.8
14	Australia	2 510	1.4	82.2
15	China, PR	2 500	1.4	83.6
16	Malaysia	2 475	1.4	84.9
17	Norway	2 313	1.3	86.2
18	Egypt	2 048	1.1	87.3
19	Uzbekistan	1 841	1.0	88.3
20	Kuwait	1 784	1.0	89.3
...				
46	Germany	218	0.1	
...				
	WORLD	182 821	100.0	
	Europe	5 753	3.1	
	CIS	58 303	31.9	
	Africa	14 437	7.9	
	Middle East	73 404	40.2	
	Austral-Asia	15 096	8.3	
	North America	7 995	4.4	
	Latin America	7 834	4.3	
	OPEC-13	91 298	49.9	
	OECD	15 637	8.6	
	EU-27	3 354	1.9	
	Europ. Market	72 209	39.5	
	Asiat. Market	88 469	48.4	
	N-American Market	7 995	4.4	
	S-American Market	2 048	1.1	

Table A 4-8: Natural Gas Reserves in 2007: The Most Important Companies (Top 20)

Rank	Company	Reserves	Percentage	
		G. m ³	Company	Cumulative
1	Gazprom	29 785	16.3	16.3
2	National Iranian Oil Company	26 853	14.7	31.0
3	QGPC (Qatar)	25 638	14.0	45.0
4	Saudi Arabian Oil Company	7 188	3.9	48.9
5	Abu Dhabi National Oil Company	5 622	3.1	52.0
6	Nigerian National Petroleum Corporation	5 211	2.8	54.9
7	Petroleos de Venezuela	4 840	2.6	57.5
8	Sonatrach	4 503	2.5	60.0
9	Iraq National Oil Company	3 170	1.7	61.7
10	Turkmengaz	3 000	1.6	63.3
11	Petronas	2 350	1.3	64.6
12	Rosneft	2 000	1.1	65.7
13	Uzbekneftegaz	1 841	1.0	66.7
14	Egyptian General Petr. Corporation	1 657	0.9	67.6
15	China National Petroleum Company	1 617	0.9	68.5
16	Kuwait Petroleum Corporation	1 572	0.9	69.4
17	National Oil Corporation (Libya)	1 491	0.8	70.2
18	BP	1 165	0.6	70.8
19	Shell	1 158	0.6	71.5
20	Itera	1 100	0.6	72.1
	WORLD	182 821	100.0	
	NOC	131 604	72.0	
	IOC (Top 5) ^{*)}	4 602	2.5	

Private Oil Companies in red lettering

^{*)} ExxonMobil, Chevron, BP, Shell and Total

Table A 4-9: Conventional Natural Gas Resources: Comparison 1993, 1997, 2001 and 2007

Country/Region	Resources in Bcm			
	1993	1997	2001	2007
Albania	n.a.	10	10	10
Austria	n.a.	20	40	40
Bulgaria	n.a.	10	15	15
Croatia	n.a.	30	80	80
Czech Republic	n.a.	5	10	10
Denmark	50	76	100	100
France	n.a.	40	300	300
Germany	300	200	200	150
Greece	n.a.	5	10	10
Hungary	n.a.	100	80	80
Ireland	n.a.	15	50	50
Italy	515	510	500	500
Malta	n.a.	-	6	6
Netherlands	187	100	200	200
Norway	2 410	2 750	3 200	4 850
Poland	n.a.	100	150	150
Portugal	n.a.	-	50	50
Romania	470	450	400	400
Serbia	n.a.	40	40	40
Slovakia	n.a.	10	15	15
Spain	n.a.	25	500	500
Turkey	n.a.	20	20	20
United Kingdom	870	1 500	1 150	1 150
Others Europe	408	-	-	-
Azerbaijan	700	1 500	1 900	1 900
Belarus	50	50	20	20
Georgia	100	100	100	100
Kazakhstan	5 000	5 000	2 500	2 500
Kyrgyzstan	50	20	20	20
Moldova	n.a.	50	20	20
Russia	85 000	83 800	83 000	106 000
Tajikistan	200	200	100	100
Turkmenistan	4 900	6 000	6 000	6 000
Ukraine	2 000	1 900	900	900
Uzbekistan	2 000	2 000	1 500	1 500
Algeria	1 600	1 500	1 500	1 500
Angola	700	700	1 200	1 200
Benin	n.a.	5	20	20
Cameroon	100	140	150	150
Chad	60	60	50	50
Congo, DR (former Zaire)	n.a.	1	10	10
Congo, Rep.	n.a.	80	300	300
Côte d'Ivoire	n.a.	160	170	170
Egypt	450	1 100	1 000	1 000
Equatorial Guinea	n.a.	20	200	200
Eritrea	n.a.	50	150	150

Table continued →

Country/Region	Resources in Bcm			
	1993	1997	2001	2007
Ethiopia	n.a.	40	20	20
Gabon	30	50	400	400
Ghana	n.a.	10	30	30
Guinea-Bissau	n.a.	n.a.	6	6
Libya	450	400	600	600
Madagascar	n.a.	5	5	5
Mauritania	n.a.	n.a.	8	8
Morocco	n.a.	5	5	5
Mozambique	n.a.	100	200	200
Namibia	300	300	300	300
Nigeria	3 700	4 000	3 500	3 500
Ruanda	n.a.	30	20	20
Senegal	n.a.	10	10	10
Seychelles	100	50	20	20
Somalia	400	400	400	400
South Africa, Rep.	n.a.	50	50	50
Sudan	700	500	450	450
Tanzania	60	150	100	100
Togo	n.a.	n.a.	10	10
Tunisia	320	350	300	300
Western Sahara	n.a.	n.a.	2	2
Zimbabwe	600	100	10	10
Others Africa	330	-	-	-
Bahrain	n.a.	40	200	200
Iran	13 900	12 000	11 000	11 000
Iraq	1 800	4 100	4 000	4 000
Israel	n.a.	n.a.	100	100
Jordan	n.a.	30	100	100
Kuwait	350	250	500	500
Neutral Zone	57	60	900	900
Oman	n.a.	250	40	40
Qatar	5 000	5 000	12 500	2 500
Saudi Arabia	8 300	9 800	11 000	11 000
Syria	n.a.	300	200	200
United Arab Emirates	1 700	1 500	1 500	1 500
Yemen	n.a.	100	500	500
Others Middle East	493	-	-	-
Afghanistan	400	900	500	500
Australia	400	850	2 000	2 000
Bangladesh	300	350	900	900
Brunei	100	100	300	300
Cambodia	n.a.	300	50	50
China, PR	35 000	32 800	10 000	10 000
India	400	350	800	800
Indonesia	5 700	3 850	3 500	3 500
Japan	n.a.	11	5	5
Korea, Rep. (South Korea)	n.a.	n.a.	50	50
Laos	n.a.	50	30	30
Malaysia	950	1 000	1 400	1 400

Table continued →

Country/Region	Resources in Bcm			
	1993	1997	2001	2007
Myanmar (Burma)	100	150	700	700
New Zealand	50	100	100	100
Pakistan	800	750	800	800
Papua New Guinea	300	400	350	350
Philippines	n.a.	50	200	200
Taiwan	n.a.	15	5	5
Thailand	700	550	500	500
Vietnam	230	450	500	500
Others Austral-Asia	70	-	-	-
Canada	9 900	9 000	8 000	10 500
Greenland	2 800	2 800	2 300	2 800
Mexico	3 300	3 200	2 000	2 000
USA	5 300	9 400	15 000	20 000
Argentina	1 500	1 400	1 500	1 500
Barbados	n.a.	5	200	200
Bolivia	207	250	700	700
Brazil	1 200	1 200	2 000	2 000
Chile	100	100	180	180
Colombia	300	200	400	400
Cuba	n.a.	2	20	20
Ecuador	170	170	50	50
Grenada	n.a.	n.a.	23	23
Guatemala	n.a.	2	5	5
Guyana	n.a.	n.a.	150	150
Paraguay	n.a.	5	100	100
Peru	700	700	500	500
Suriname	n.a.	n.a.	100	100
Trinidad & Tobago	300	250	900	900
Uruguay	n.a.	n.a.	30	30
Venezuela	4 200	4 000	3 000	3 000
Others America	215	-	-	-
WORLD	222 402	226 142	216 771	239 370
Europe	5 210	6 016	7 126	8 726
CIS	100 000	100 620	96 060	119 060
Africa	9 900	10 366	11 196	11 196
Middle East	31 600	33 430	42 540	32 540
Austral-Asia	45 500	43 026	22 690	22 690
North America	21 300	24 400	27 300	35 300
Latin America	8 892	8 284	9 858	9 858
OPEC-13	47 570	47 270	53 850	43 850
OECD	23 282	28 027	36 021	45 636
EU 27	1 922	2 491	3 100	3 726
Europ. Market	108 030	109 991	106 591	131 191
Asian Market	77 100	76 456	65 230	55 230
N-American Market	21 300	24 400	27 300	35 300
S-American Market	3 707	3 655	4 510	5 010

n.a. not available

- no resources

Table A 4-10: Resources of Conventional Natural Gas in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Bcm	Percentage	
			Country	Cumulative
1	Russia	106 000	44.3	44.3
2	USA	20 000	8.4	52.6
3	Iran	11 000	4.6	57.2
4	Saudi Arabia	11 000	4.6	61.8
5	Canada	10 500	4.4	66.2
6	China, PR	10 000	4.2	70.4
7	Turkmenistan	6 000	2.5	72.9
8	Norway	4 850	2.0	74.9
9	Iraq	4 000	1.7	76.6
10	Nigeria	3 500	1.5	78.0
11	Indonesia	3 500	1.5	79.5
12	Venezuela	3 000	1.3	80.8
13	Greenland	2 800	1.2	81.9
14	Kazakhstan	2 500	1.0	83.0
15	Qatar	2 500	1.0	84.0
16	Australia	2 000	0.8	84.9
17	Mexico	2 000	0.8	85.7
18	Brazil	2 000	0.8	86.5
19	Azerbaijan	1 900	0.8	87.3
20	Uzbekistan	1 500	0.6	87.9
20	Algeria	1 500	0.6	88.6
20	United Arab Emirates	1 500	0.6	89.2
...				
66	Germany	150	0.1	97.9
...				
	WORLD	239 370	100.0	
	Europe	8 726	3.6	
	CIS	119 060	49.7	
	Africa	11 196	4.7	
	Middle East	32 540	13.6	
	Austral-Asia	22 690	9.5	
	North America	35 300	14.7	
	Latin America	9 858	4.1	
	OPEC-13	43 850	18.3	
	OECD	45 636	19.1	
	EU-27	3 726	1.6	
	Europ. Market	131 191	54.8	
	Asian Market	55 230	23.1	
	N-American Market	25 300	14.7	

Table A 4-11: Natural Gas Production: Comparison 1980, 1990, 2000, 2005 and 2007
[in Bcm]

Country/Region	1980	1990	2000	2005	2007
Albania	0.7	0.2	< 0.05	< 0.05	< 0.05
Austria	1.8	1.3	1.8	1.6	1.8
Bulgaria	0.2	< 0.05	< 0.05	0.4	0.4
Croatia	1	2	1.7	1.6	2.4
Czech Republic*)	0.6	0.3	0.2	0.4	0.1
Denmark	-	3.1	7.7	9.9	8.7
France	7.5	1.3	1.8	1.1	1
Germany	26.9	22.8	21.7	19.9	18
Greece	-	0.1	< 0.05	< 0.05	< 0.05
Hungary	6.1	5.1	3.3	2.8	2.5
Ireland	0.9	2.3	1.2	0.7	0.5
Italy	12.5	17.1	16.6	11.8	9.7
Netherlands	89	72.4	67.7	73.1	68.3
Norway	26.9	25.4	52.8	85	89.7
Poland	6	3.5	3.7	5	4.6
Romania	33.3	28.1	13.8	12.9	10.9
Serbia	0.8	0.9	0.7	0.3	0.3
Slovakia	n.a.	0.4	0.2	0.2	0.1
Spain	-	1.3	0.2	0.2	0.1
Turkey	0.1	0.2	0.6	0.6	0.9
United Kingdom	37.3	49.5	108.3	93.4	83.8
Azerbaijan	14.0	9.9	5.6	5.7	11.0
Belarus	0.3	0.1	0.3	0.2	0.2
Georgia	0.3	0.1	0.1	< 0.05	< 0.05
Kazakhstan	4.3	7.1	11.5	23.5	29.2
Kyrgyzstan	0.1	0.1	< 0.05	< 0.05	< 0.05
Russia	254.0	640.6	583.1	636.0	650.8
Tajikistan	0.2	0.1	< 0.05	< 0.05	< 0.05
Turkmenistan	70.5	87.7	47.0	63.0	72.3
Ukraine	56.7	28.1	18.0	20.6	20.6
Uzbekistan	34.8	40.8	56.4	59.7	65.3
Algeria	11.7	51.6	83.2	87.7	84.8
Angola	0.3	0.5	0.6	0.8	0.8
Côte d'Ivoire	-	1.5	1.6	1.4	1.5
Egypt	2.2	8.1	20.2	34.7	46.5
Equatorial Guinea	-	-	-	0.4	0.5
Gabon	0.1	0.1	0.1	0.1	0.1
Libya	5.2	6.2	6	11.7	15.3
Morocco	0.1	0.1	< 0.05	< 0.05	0.1
Mozambique	-	-	-	2.1	2.6
Nigeria	1.1	4	12.9	21.8	34.1
Senegal	-	-	-	< 0.05	< 0.05
South Africa, Rep.	-	-	1.7	2.2	1.6
Tunisia	0.4	0.3	2.1	2.4	2.2
Bahrain	2.8	5.8	6.1	8.2	11.5
Iraq	1.8	4.0	5.1	1.7	1.5

Table continued →

Country/Region	1980	1990	2000	2005	2007
Iran	8.3	24.2	63.2	87	106.7
Israel	0.3	-	-	0.3	0.2
Jordan	-	0.1	0.3	0.2	0.2
Kuwait	6.3	4.2	9.7	9.7	12.1
Oman	1.7	4.6	10.8	19.9	24.1
Qatar	3	6.3	28.9	43.5	59.8
Saudi Arabia	10.6	30.5	53.8	69.5	74.4
Syria	0.2	1	6	7.1	6.3
United Arab Emirates	9	24.1	39.1	46.6	49.2
Yemen	-	-	< 0.05	0.2	0.2
Afghanistan	2.7	0.3	0.2	< 0.05	n.a.
Australia	8.9	20.5	32.8	37.1	43.6
Bangladesh	1.3	4.8	9.3	14.2	15.8
Brunei	9.8	9.0	10.1	12.0	12.3
China, PR	14.3	15.3	30.2	50.0	67.7
India	1.7	11.3	27.9	30.4	32.4
Indonesia	17.2	43.6	68.9	76.0	69.7
Japan	2.3	2.0	2.5	3.2	3.7
Malaysia	1.1	18.5	45.4	59.9	60.5
Myanmar (Burma)	0.4	0.9	6.1	13.0	14.7
New Zealand	1.3	4.8	6.1	3.9	4.0
Pakistan	8.1	14.3	22.3	29.9	30.8
Papua New Guinea	-	-	0.1	0.1	0.2
Philippines	-	-	< 0.05	2.8	3.1
Taiwan	1.9	1.1	0.7	0.8	0.6
Thailand	-	5.9	20.2	23.0	25.9
Vietnam	-	-	1.4	5.2	7.7
Canada	74.8	110.0	181.7	185.5	183.4
Mexico	28.9	27.5	37.2	39.5	50.5
USA	549.5	504.4	545.7	525.7	546.1
Argentina	9.5	19.5	40.5	45.6	44.7
Bolivia	2.4	3.2	3.7	11.7	14.3
Brazil	1.2	4	6.8	17.7	11.3
Chile	2.4	1.9	2.1	2.3	2
Colombia	2.8	4	7.3	6.8	7.5
Cuba	0.2	< 0.05	0.6	0.7	1.3
Ecuador	-	0.1	0.3	0.1	0.3
Peru	1.1	1.1	0.6	1	2.2
Trinidad & Tobago	2.4	5	13.2	29	39
Venezuela	16.7	23.6	28.4	28.9	28.5
WORLD	1 514.8	2 085.8	2 529.6	2 844.6	3 013.6

Table continued →

Country/Region	1980	1990	2000	2005	2007
Europe	251.6	237.4	304.1	320.8	303.9
CIS	435.2	814.6	722.0	808.6	849.5
Africa	21.1	72.4	128.4	165.4	190.2
Middle East	44.0	104.8	222.9	293.9	346.1
Austral-Asia	71.0	152.3	284.2	361.5	392.8
North America	653.2	641.9	764.6	750.7	780.0
Latin America	38.7	62.4	103.4	143.8	151.2
OPEC-13	91.2	222.9	400.1	485.0	537.2
OECD	881.3	875.3	1 093.8	1 100.3	1 121.2
EU-27	222.1	208.7	248.3	233.2	210.5
Europ. Market	706.4	1 118.3	1 137.6	1 266.0	1 302.2
Asian Market	115.0	257.1	507.1	655.4	738.9
N-American Market	653.2	641.9	764.6	750.7	780.9
S-American Market	16.6	29.7	53.7	78.3	74.6

n.a. not available

- no production

*) 1980 CSSR

Table A 4-12: Natural Gas Production in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Bcm	Percentage	
			Country	Cumulative
1	Russia	650.8	21.6	21.6
2	USA	546.1	18.1	39.7
3	Canada	183.4	6.1	45.8
4	Iran	106.7	3.5	49.4
5	Norway	89.7	3.0	52.3
6	Algeria	84.8	2.8	55.2
7	United Kingdom	83.8	2.8	57.9
8	Saudi Arabia	74.4	2.5	60.4
9	Turkmenistan	72.3	2.4	62.8
10	Indonesia	69.7	2.3	65.1
11	Netherlands	68.3	2.3	67.4
12	China, PR	67.7	2.2	69.6
13	Uzbekistan	65.3	2.2	71.8
14	Malaysia	60.5	2.0	73.8
15	Qatar	59.8	2.0	75.8
16	Mexico	50.5	1.7	77.5
17	United Arab Emirates	49.2	1.6	79.1
18	Egypt	46.5	1.5	80.7
19	Argentina	44.7	1.5	82.1
20	Australia	43.6	1.4	83.6
...				
30	Germany	18.0	0.6	
...				
	WORLD	3 013.6	100.0	
	Europe	303.9	10.1	
	CIS	849.5	28.2	
	Africa	190.2	6.3	
	Middle East	346.1	11.5	
	Austral-Asia	392.8	13.0	
	North America	780.0	25.9	
	Latin America	151.2	5.0	
	OPEC-13	537.2	17.8	
	OECD	1 121.2	37.2	
	EU-27	210.5	7.0	
	Europ. Market	1 302.2	43.2	
	Asian Market	738.9	24.5	
	N-American Market	780.0	25.9	
	S-American Market	74.6	2.5	

Table A 4-13: Natural Gas Production 1980 - 2007: The Top Three Producing Countries

Year	1.		2.		3.		Total 1.-3.	Annual production World	Share 1.-3.
	Country	Bcm	Country	Bcm	Country	Bcm			
1980	USA	550	USSR	435	Netherlands	89.0	1 074	1 516	70.8%
1981	USA	543	USSR	465	Netherlands	81.6	1 090	1 554	70.2%
1982	USA	505	USSR	501	Canada	75.9	1 081	1 544	70.0%
1983	USSR	536	USA	456	Netherlands	73.0	1 065	1 557	68.4%
1984	USSR	587	USA	495	Canada	78.2	1 160	1 698	68.3%
1985	USSR	643	USA	466	Canada	84.1	1 193	1 756	67.9%
1986	USSR	686	USA	455	Canada	79.6	1 221	1 811	67.4%
1987	USSR	727	USA	471	Canada	85.0	1 283	1 899	67.6%
1988	USSR	770	USA	484	Canada	98.2	1 353	1 975	68.5%
1989	USSR	796	USA	490	Canada	104.1	1 390	2 038	68.2%
1990	USSR	815	USA	504	Canada	110.0	1 429	2 085	68.5%
1991	USSR	811	USA	503	Canada	117.5	1 431	2 117	67.6%
1992	Russia	640	USA	504	Canada	128.7	1 273	2 123	60.0%
1993	Russia	617	USA	523	Canada	141.0	1 281	2 164	59.2%
1994	Russia	608	USA	518	Canada	138.9	1 265	2 157	58.6%
1995	Russia	595	USA	530	Canada	148.4	1 273	2 207	57.7%
1996	Russia	602	USA	547	Canada	153.0	1 301	2 318	56.1%
1997	Russia	571	USA	565	Canada	152.6	1 289	2 324	55.5%
1998	Russia	591	USA	536	Canada	170.0	1 297	2 359	55.0%
1999	Russia	587	USA	527	Canada	175.8	1 290	2 405	53.7%
2000	Russia	583	USA	544	Canada	183.5	1 311	2 479	52.9%
2001	Russia	590	USA	548	Canada	189.7	1 328	2 531	52.5%
2002	Russia	595	USA	557	Canada	187.6	1 340	2 633	50.9%
2003	Russia	617	USA	541	Canada	183.4	1 341	2 715	49.4%
2004	Russia	634	USA	532	Canada	182.6	1 349	2 783	48.4%
2005	Russia	636	USA	526	Canada	185.5	1 347	2 845	47.4%
2006	Russia	656	USA	524	Canada	188.4	1 368	2 944	46.5%
2007	Russia	651	USA	546	Canada	183.4	1 380	3 014	45.8%

Table A 4-14: Natural Gas Production in 2007: The Most Important Companies (Top 20)

Rank	Company	Production	Percentage	
		Bcm	Company	Cumulative
1	Gazprom	549.6	18.2	18.2
2	Sonatrach	93.7	3.1	21.4
3	BP	84.2	2.8	24.1
4	National Iranian Oil Company	84.1	2.8	26.9
5	Saudi Arabian Oil Company	82.7	2.7	29.7
6	ExxonMobil	76.0	2.5	32.2
7	Turkmengaz	72.3	2.4	34.6
8	Uzbekneftgaz	65.3	2.2	36.8
9	Shell	63.7	2.1	38.9
10	Petroleos Mexicanos	62.6	2.1	41.0
11	Petronas	55.0	1.8	42.8
12	ConocoPhillips	52.5	1.7	44.5
13	Chevron	51.8	1.7	46.3
14	Qatar Petroleum Corp.	51.7	1.7	48.0
15	Total	50.0	1.7	49.6
16	China National Petroleum Company	46.1	1.5	51.2
17	ENI (Italy)	42.5	1.4	52.6
18	Statoil	38.3	1.3	53.8
19	EnCana Corp.	36.9	1.2	55.1
20	Repsol YPF	32.3	1.1	56.1
	<i>WORLD</i>	<i>3 013.6</i>	<i>100.0</i>	
	NOC	1 352.6	44.9	
	IOC (Top 5)*)	325.8	10.8	

Private oil companies in red lettering

*) ExxonMobil, Chevron, BP, Shell and Total

Table A 4-15: Natural Gas Consumption: 1978, 1990, 2000, 2005 and 2007 [in Bcm]

Country/Region	1978	1990	2000	2005	2007
Albania	0.4	0.2	< 0.05	< 0.05	< 0.05
Austria	4.9	6.1	7.7	10	7.9
Belgium	10	9.6	16.8	16.8	17.4
Bosnia-Herzegovina	n.a.	0.5	0.3	0.6	0.4
Bulgaria	2.9	6.8	3.2	3.2	3.6
Croatia	n.a.	2.5	2.8	2.7	3.2
Czech Republic	2.5	6.6	9.2	8.5	8.6
Denmark	-	2.1	4.9	4.7	4.6
Estonia	n.a.	n.a.	0.8	0.7	0.8
Finland	1	2.7	4.2	4	4.6
France	24.4	28.2	40.5	48.1	42.7
Germany	64.4	69.7	90.8	100.4	96.3
Greece	-	0.1	2.1	2.5	4.1
Hungary	8.7	11.2	12	13.4	13.4
Ireland	-	2.3	4	3.9	5
Italy	27	47.4	70.4	79	84.9
Latvia	n.a.	n.a.	1.2	1.7	1.7
Lithuania	n.a.	n.a.	2.6	3.2	3.6
Luxemburg	0.3	0.5	0.8	1.4	1.3
Macedonia	n.a.	n.a.	< 0.05	0.1	0.1
Netherlands	46.4	43.5	48.8	49.5	46.4
Norway	0.8	2.3	3.9	4.5	5.4
Poland	11.2	12.1	12.8	13.6	16.3
Portugal	-	-	2.4	3	4.1
Romania	40	35.7	16.2	17.3	16
Serbia*)	2.2	3.2	1.8	2.2	2.5
Slovakia	3.9	6.4	7.1	5.9	6.2
Slovenia	n.a.	0.9	1	1.2	1
Spain	1.3	5.4	15.6	32.3	34.4
Sweden	-	0.6	0.9	0.8	1
Switzerland	0.8	2	3	3.1	3.2
Turkey	-	3.5	14.7	27.4	36.6
United Kingdom	44.3	58.3	101.5	100.4	96.1
Armenia	n.a.	n.a.	1.5	1.5	2.1
Azerbaijan	n.a.	n.a.	5.9	8.8	9.9
Belarus	n.a.	n.a.	17.9	18.9	21.1
Georgia	n.a.	n.a.	1.1	0.7	1.7
Kazakhstan	n.a.	n.a.	9.0	17.8	21.5
Kyrgyzstan	n.a.	n.a.	0.7	0.7	1.1
Moldova	n.a.	n.a.	3.5	3.3	2.6
Russia**)	341.5	717.3	404.4	435.0	451.1
Tajikistan	n.a.	n.a.	0.8	0.6	0.6
Turkmenistan	n.a.	n.a.	14.3	16.6	15.0
Ukraine	n.a.	n.a.	73.4	76.4	69.9
Uzbekistan	n.a.	n.a.	50.2	50.1	55.1
Algeria	5	15	23.8	24.1	27.3

Table continued →

Country/Region	1978	1990	2000	2005	2007
Angola	0.1	0.5	0.6	0.8	0.8
Côte d'Ivoire	-	-	0.9	1.4	1.7
Egypt	0.7	8.2	16.6	25.5	36.5
Equatorial Guinea	-	-	-	-	0.5
Gabon	-	0.1	0.1	0.1	0.1
Libya	1.2	5	5.4	6.3	6.6
Morocco	0.1	0.1	< 0.05	0.5	0.6
Mozambique	-	-	< 0.05	< 0.05	< 0.05
Nigeria	1	4	7.3	9.8	12.6
Senegal	-	< 0.05	< 0.05	< 0.05	< 0.05
South Africa, Rep.	-	1.8	1.9	2.4	5.1
Tunisia	0.3	1.3	2.9	3.7	3.8
Bahrain	2.7	5	6.1	8.2	8.4
Iran	3.6	20.7	62.9	88.5	107
Iraq	1.7	2	5.1	1.7	4.3
Israel	0.1	< 0.05	< 0.05	0.3	2.5
Jordan	-	0.1	0.3	1.1	3
Kuwait	6.3	6.2	9.7	9.7	12
Oman	0.2	3	7	9.3	13
Qatar	1.5	6.8	16.4	15.9	19.5
Saudi Arabia	5.4	33.5	52.8	69.5	67.5
Syria	< 0.05	1.7	5.4	7.1	6.3
United Arab Emirates	3.9	16.6	32.6	40.4	42.3
Yemen	-	-	-	0.2	0.2
Afghanistan	n.a.	n.a.	0.2	< 0.05	n.a.
Australia	7.1	17.7	21.4	25.7	29.4
Bangladesh	0.9	4.8	9.4	14.2	15.8
Brunei	1.1	1.8	2.2	2.5	2.6
China, PR	12.3	17.0	28.1	48.0	67.3
Honkong	-	-	2.6	2.2	2.9
India	1.6	11.9	22.4	34.2	44.0
Indonesia	3.0	22.2	32.1	39.4	36.2
Japan	19.1	58.6	78.0	81.1	100.3
Korea, Rep. (South Korea)		3.0	19.0	30.6	34.8
Malaysia	2.2	7.4	23.9	34.9	34.7
Myanmar (Burma)	0.3	1.0	1.5	2.5	2.0
New Zealand	2.2	4.7	6.2	3.6	4.6
Pakistan	5.4	13.5	20.7	30.5	34.2
Papua New Guinea	-	-	-	-	0.1
Philippines	-	-	-	3.0	3.7
Singapur	-	-	1.7	6.5	8.1
Taiwan	2.0	2.1	7.2	10.4	11.3
Thailand	-	6.5	20.3	32.6	35.9
Vietnam	-	< 0.05	1.3	5.2	6.1
Others Austral-Asia	0.2	0.3	0.3	-	-
Canada	50.0	67.0	83.4	91.4	96.1
Mexico	17.3	26.0	37.5	49.6	68.3
USA	555.5	530.2	639.8	629.0	652.9
Argentina	9.6	22.5	33.2	40.6	44.0
Bolivia	0.2	0.8	2.2	1.3	2.8

Table continued →

Country/Region	1978	1990	2000	2005	2007
Brazil	0.8	3.8	8.8	20.2	23.2
Chile	0.7	1.8	7	7.6	4.3
Colombia	2.8	4.3	6	6.8	8.7
Cuba	< 0.05	< 0.05	< 0.05	0.7	1.1
Dominican Republic	-	-	-	0.3	0.4
Ecuador	n.a.	n.a.	n.a.	0.2	0.3
Peru	0.5	0.6	0.5	1.6	3.1
Puerto Rico	-	-	-	0.7	0.7
Trinidad & Tobago	2.5	5.6	9.9	13.3	15.2
Uruguay	n.a.	n.a.	n.a.	0.1	0.2
Venezuela	12.4	20.8	27.2	28	25
Others Latin America	0.1	0.2	0.6	-	-
WORLD	1 382.5	2 075.3	2 498.9	2 821.6	3 026.8
Europe	297.4	370.3	504.0	566.1	573.5
CIS	341.5	717.3	582.7	630.4	651.7
Africa	8.4	36.1	59.6	74.7	95.6
Middle East	25.3	95.7	198.3	251.9	285.9
Austral-Asia	57.3	172.4	298.4	407.1	473.8
North America	622.9	623.2	760.7	770.0	817.2
Latin America	29.7	60.5	95.3	121.4	129.0
OPEC-13	45.0	152.7	275.4	333.3	361.3
OECD	835.9	953.3	1 258.0	1 328.6	1 519.4
EU-27	294.1	358.1	480.5	528.6	525.3
Europ. Market	646.3	1 117.1	1 135.5	1 256.6	1 300.0
Asian Market	91.8	290.5	524.2	688.3	759.8
N-American Market	622.9	623.2	760.7	770.0	817.2
S-American Market	11.9	29.5	51.7	71.3	77.4

n.a. not available

- no consumption

*) 1978 Yugoslavia

**) 1978 and 1990 USSR

Sources: IEA (2004) für 1978
IEA (2006) für 1990

Table A 4-16 Natural Gas Consumption in 2007: Main Countries [> 10 Bcm] and Distribution by Regions and Economic Groups

Rank	Country/Region	G. m ³	Percentage	
			Country	Cumulative
1	USA	652.9	21.6	21.6
2	Russia	451.1	14.9	36.5
3	Iran	107.0	3.5	40.0
4	Japan	100.3	3.3	43.3
5	Germany	96.3	3.2	46.5
6	Canada	96.1	3.2	49.7
7	United Kingdom	96.1	3.2	52.8
8	Italy	84.9	2.8	55.6
9	Ukraine	69.9	2.3	58.0
10	Mexico	68.3	2.3	60.2
11	Saudi Arabia	67.5	2.2	62.4
12	China, PR	67.3	2.2	64.7
13	Uzbekistan	55.1	1.8	66.5
14	Netherlands	46.4	1.5	68.0
15	Argentina	44.0	1.5	69.5
16	India	44.0	1.5	70.9
17	France	42.7	1.4	72.3
18	United Arab Emirates	42.3	1.4	73.7
19	Turkey	36.6	1.2	74.9
20	Egypt	36.5	1.2	76.2
21	Indonesia	36.2	1.2	77.3
22	Thailand	35.9	1.2	78.5
23	Korea, Rep. (South Korea)	34.8	1.2	79.7
24	Malaysia	34.7	1.1	80.8
25	Spain	34.4	1.1	82.0
26	Pakistan	34.2	1.1	83.1
27	Australia	29.4	1.0	84.1
28	Algeria	27.3	0.9	85.0
29	Venezuela	25.0	0.8	85.8
30	Brazil	23.2	0.8	86.6
31	Kazakhstan	21.5	0.7	87.3
32	Belarus	21.1	0.7	88.0
33	Qatar	19.5	0.6	88.6
34	Belgium	17.4	0.6	89.2
35	Poland	16.3	0.5	89.7
36	Romania	16.0	0.5	90.3
37	Bangladesh	15.8	0.5	90.8
38	Trinidad & Tobago	15.2	0.5	91.3
39	Turkmenistan	15.0	0.5	91.8
40	Hungary	13.4	0.4	92.2
41	Oman	13.0	0.4	92.6
42	Nigeria	12.6	0.4	93.1
43	Kuwait	12.0	0.4	93.5
44	Taiwan	11.3	0.4	93.8

Table continued →

Rank	Country/Region	G. m ³	Percentage	
			Country	Cumulative
45	Oman	11.0	0.4	94.2
	<i>WORLD</i>	<i>3026.8</i>	<i>100.0</i>	
	Europe	573.5	19.0	
	CIS	651.7	21.5	
	Africa	95.6	3.2	
	Middle East	285.9	9.4	
	Austral-Asia	473.8	15.7	
	North America	817.2	27.0	
	Latin America	129.0	4.3	
	OPEC-13	361.3	11.9	
	OECD	1.519.9	50.2	
	EU-27	525.3	17.3	
	Europ. Market	1.300.0	43.0	
	Asian Market	759.8	25.1	
	N-American Market	817.2	27.0	
	S-American Market	77.4	2.6	

Table A 4-17 Natural Gas Exports in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Bcm	Percentage	
			Country	Cumulative
1	Russia	205.2	22.5	22.5
2	Canada	107.3	11.7	34.2
3	Norway	86.2	9.4	43.6
4	Algeria	58.7	6.4	50.1
5	Netherlands	50.1	5.5	55.5
6	Turkmenistan	50.0	5.5	61.0
7	Qatar	39.3	4.3	65.3
8	Indonesia	33.1	3.6	68.9
9	Malaysia	31.6	3.5	72.4
10	USA	23.2	2.5	74.9
11	Nigeria	21.2	2.3	77.3
12	Australia	20.2	2.2	79.5
13	Trinidad & Tobago	18.2	2.0	81.5
14	Germany	16.4	1.8	83.2
15	Egypt	16.0	1.7	85.0
16	Kazakhstan	15.2	1.7	86.7
17	Uzbekistan	14.7	1.6	88.3
18	Oman	13.1	1.4	89.7
19	Bolivia	11.7	1.3	91.0
20	United Kingdom	10.4	1.1	92.1
WORLD		913.5	100.0	
	Europe	175.8	19.2	
	CIS	291.1	31.9	
	Africa	107.2	11.7	
	Middle East	66.1	7.2	
	Austral-Asia	104.2	11.4	
	North America	132.1	14.5	
	Latin America	32.6	3.6	
	OPEC-13	175.9	19.3	
	OECD	228.6	25.0	
	EU-27	85.4	9.3	
	Europ. Market	551.5	60.4	
	Asian Market	170.3	18.6	
	N-American Market	132.1	14.5	
	S-American Market	14.4	1.6	

Table A 4-18 LNG Exports in 2007: Export Countries and Distribution by Regions and Economic Groups

Rank	Country/Region	Bcm	Percentage	
			Country	Cumulative
1	Qatar	38.5	17.0	17.0
2	Malaysia	29.8	13.2	30.2
3	Indonesia	27.7	12.3	42.4
4	Algeria	24.7	10.9	53.3
5	Nigeria	21.2	9.3	62.6
6	Australia	20.2	8.9	71.6
7	Trinidad & Tobago	18.2	8.0	79.6
8	Egypt	13.6	6.0	85.6
9	Oman	12.2	5.4	91.0
10	Brunei	9.4	4.1	95.1
11	United Arab Emirates	7.6	3.3	98.5
12	Equatorial Guinea	1.4	0.6	99.1
13	USA	1.2	0.5	99.6
14	Libya	0.8	0.3	99.9
15	Norway	0.1	0.1	100.0
	WORLD	226.4	100.0	
	Europe	0.1	0.1	
	CIS	-	-	
	Africa	61.6	27.2	
	Middle East	58.2	25.7	
	Austral-Asia	87.1	38.5	
	North America	1.2	0.5	
	Latin America	18.2	8.0	
	OPEC-13	120.4	53.2	
	OECD	38.5	17.0	
	EU-27	-	-	
	Europ. Market	39.2	17.3	
	Asian Market	145.3	64.2	
	N-American Market	1.2	0.5	
	S-American Market	-	-	
	others	40.7	18.0	

- no exports

Table A 4-19 Natural Gas Imports in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Bcm	Percentage	
			Country	Cumulative
1	USA	130.7	14.2	14.2
2	Japan	88.8	9.6	23.8
3	Germany	88.1	9.5	33.3
4	Italy	74.9	8.1	41.4
5	Ukraine	50.0	5.4	46.9
6	France	46.7	5.1	51.9
7	Russia	46.0	5.0	56.9
8	Turkey	36.6	4.0	60.9
9	Spain	35.1	3.8	64.7
10	Korea, Rep. (South Korea)	34.4	3.7	68.4
11	United Kingdom	29.5	3.2	71.6
12	Belgium	22.5	2.4	74.0
13	Belarus	20.6	2.2	76.3
14	Netherlands	18.9	2.0	78.3
15	Canada	13.2	1.4	79.8
16	Mexico	11.0	1.2	80.9
17	Taiwan	10.9	1.2	82.1
18	Hungary	10.5	1.1	83.3
19	Brazil	10.0	1.1	84.3
20	India	10.0	1.1	85.4
	WORLD	922.9	100.0	
	Europe	435.1	47.1	
	CIS	131.7	14.3	
	Africa	4.8	0.5	
	Middle East	10.2	1.1	
	Austral-Asia	165.0	17.9	
	North America	154.9	16.8	
	Latin America	15.5	1.7	
	OPEC-13	7.9	0.9	
	OECD	699.2	75.8	
	EU-27	390.7	42.3	
	Europ. Market	568.6	61.6	
	Asian Market	180.9	19.6	
	N-American Market	154.9	16.8	

Table A 4-20 LNG Imports in 2007: Importing Countries and Distribution by Regions and Economic Groups

Rank	Country/Region	Bcm	Percentage	
			Country	Cumulative
1	Japan	88.8	39.2	39.2
2	Korea, Rep. (South Korea)	34.4	15.2	54.4
3	Spain	24.2	10.7	65.1
4	USA	21.8	9.6	74.7
5	France	13.0	5.7	80.5
6	Taiwan	10.9	4.8	85.3
7	India	10.0	4.4	89.7
8	Turkey	6.0	2.7	92.4
9	China, PR	3.9	1.7	94.1
10	Belgium	3.2	1.4	95.5
11	Italy	2.4	1.1	96.5
12	Portugal	2.3	1.0	97.6
13	Mexico	2.2	1.0	98.5
14	United Kingdom	1.5	0.6	99.2
15	Greece	0.8	0.4	99.5
16	Puerto Rico	0.7	0.3	99.8
17	Dominican Republic	0.4	0.2	100.0
	WORLD	226.4	100.0	
	Europe	53.3	23.6	
	CIS	-	-	
	Africa	-	-	
	Middle East	-	-	
	Austral-Asia	148.0	65.4	
	North America	24.0	10.6	
	Latin America	1.1	0.5	
	OPEC-13	0.0	0.0	
	OECD	200.5	88.6	
	EU-27	47.3	20.9	
	Europ. Market	53.3	23.6	
	Asian Market	148.0	65.4	
	N-American Market	24.0	10.6	
	S-American Market	-	-	

- no imports

Table A 4-21 Development of the Natural Gas Price 1975 - 2007
[Annual Mean Value in USD / MMBtu]

Year	Japan (LNG)	EU	UK	USA			Canada
	cif	cif		well head	import	Henry Hub	
1975	1.7	1		0.4	1.2		
1976	1.8	1.4		0.6	1.7		
1977	2.1	1.7		0.8	1.9		
1978	2.4	1.9		0.9	2.2		
1979	2.8	2.1		1.2	2.6		
1980	5.1	3		1.6	4.3		
1981	5.8	3.6		2	4.8		
1982	5.7	4		2.5	4.9		
1983	5.4	3.6		2.7	4.3		
1984	5.1	3.8		2.7	4		
1985	5.23	3.83		2.4	3.1		
1986	4.1	3.65		1.9	2.5		
1987	3.35	2.59		1.6	2.1		
1988	3.34	2.36		1.6	2		
1989	3.28	2.09		1.6	2	1.7	
1990	3.64	2.82		1.71	2	1.64	1.05
1991	3.99	3.18		1.64	2	1.49	0.89
1992	3.62	2.76		1.74	1.9	1.77	0.97
1993	3.52	2.53		2.04	1.98	2.12	1.69
1994	3.18	2.24		1.85	1.82	1.92	1.5
1995	3.46	2.37		1.55	1.45	1.69	0.89
1996	3.66	2.43	1.87	2.17	1.92	2.76	1.12
1997	3.91	2.65	1.96	2.32	2.12	2.53	1.36
1998	3.05	2.27	1.86	1.94	1.91	2.08	1.42
1999	3.14	1.73	1.58	2.17	2.22	2.27	2
2000	4.72	3.25	2.71	3.68	3.9	4.23	3.75
2001	4.64	4.15	3.17	4.1		4.07	3.61
2002	4.27	3.46	2.37			3.33	2.57
2003	4.77	4.40	3.33			5.63	4.83
2004	5.18	4.56	4.46			5.85	5.03
2005	6.05	5.95	7.38			8.79	7.25
2006	7.14	8.69	7.87			6.76	5.83
2007	7.73	8.93	6.01			6.95	6.17

Source: BP (2008)

Table A 4-22 Worldwide Production, Reserves and Resources of Coalbed Methane in 2007 [Bcm]

Country/Region	Production	Percentage of global production [%]	Reserves	Resources
Bulgaria	-	-	3	162
Czech Republic	0.1	0.2	n.a.	50 - 370
Germany	0.5	0.8	n.a.	500 - 3 000
Hungary	-	-	-	152 - 159
Netherlands	-	-	-	800
Poland	0.5	0.8	99	254 - 3 000
Turkey	-	-	-	3 000
United Kingdom	0.1	0.1	30	1 700 - 2 900
Kazakhstan	< 0.05	0.1	n.a.	1 200 - 1 700
Russia	0.5	0.8	n.a.	50 900 - 79 000
Ukraine	0.6	0.9	n.a.	1 700 - 76 500
South Africa, Rep.	-	-	-	140 - 850
Australia	2.5	3.9	327	8 000 - 16 000
Bangladesh	-	-	-	5
China, PR	1.4	2.2	102	34 000 - 36 800
India	-	-	-	396 - 2 000
Indonesia	-	-	-	9 544 - 12 829
Mongolia	-	-	-	17 - 34
New Zealand	-	-	1	12
Philippines	-	-	-	10 - 16
USA	49.7	78.5	620	4 704 - 48 144
Canada	7.3	11.6	510 - 1 416	18 125 - 85 000
Mexico	-	-	-	122 - 220
WORLD	63.3	100.0	1 692 - 2 598	135 493 - 372 502
Europe	1.2	2.0	132	6 618 - 13 391
CIS	1.1	1.8	n.a.	53 800 - 157 200
Africa	-	-	-	140 - 850
Middle East	-	-	-	-
Austral-Asia	3.9	6.2	430	51 984 - 67 696
North America	57.0	90.1	1 129 - 2 036	22 951 - 133 364
Latin America	-	-	-	n.a.
OPEC-13	-	-	-	9 544 - 12 829
OECD	60.7	96.0	1 586 - 2 492	37 419 - 162 605
EU-27	1.2	2.0	132	3 618 - 10 391

n.a. not available despite production

- no production, reserves, resources

Table A 5-1: Hard Coal in 2007: Production, Reserves, Resources and Remaining Potential [in Mt]; for country related specifications see following tables

Country/Region	Production 2007	Reserves	Resources	Rem. potential
1	2	3	4	5=3+4
Belgium	-	-	2 115	2 115
Bosnia-Herzegovina	-	484	146	630
Bulgaria	3	68	1 320	1 388
Czech Republic	13.1	3 112	21 106	24 219
France	0.4	-	160	160
Germany	24.2	118	82 947	83 065
Hungary	-	276	5 075	5 351
Ireland	-	14	26	40
Italy	0.3	10	600	610
Montenegro	-	142	195	337
Netherlands	-	497	2 750	3 247
Norway	4	24	68	92
Poland	87.8	12 650	164 659	177 309
Portugal	-	3	n.a.	3
Romania	2.5	14	2 373	2 387
Serbia & Montenegro	0.1	154	420	574
Slovakia	-	97	386	483
Slovenia	-	56	39	95
Spain	11	868	3 363	4 231
Sweden	-	1	4	5
Turkey	2.5	413	793	1 206
United Kingdom	16.8	432	186 700	187 132
Armenia	-	163	154	317
Georgia	< 0.05	201	700	901
Kazakhstan	90.4	18 947	124 737	143 684
Kyrgyzstan	0.1	971	27 528	28 499
Russia	241.3	69 946	2 662 155	2 732 101
Tajikistan	0.1	375	3 700	4 075
Turkmenistan	-	-	800	800
Ukraine	75.2	32 039	49 006	81 045
Uzbekistan	0.1	1 050	9 910	10 960
Algeria	-	59	164	223
Botswana	0.9	40	21 200	21 240
Congo, DR (former Zaire)	0.1	88	900	988
Egypt	< 0.05	16	166	182
Madagascar	-	-	150	150
Malawi	0.1	2	800	802
Morocco	-	14	82	96
Mozambique	< 0.05	212	11 280	11 492
Namibia	-	-	350	350
Niger	0.2	n.a..	90	90
Nigeria	< 0.05	292	2 065	2 357
South Africa, Rep.	243.6	31 022	n.a.	31 022

Table continued →

Country/Region	Production 2007	Reserves	Resources	Rem. potential
1	2	3	4	5=3+4
Swasiland	0.4	144	4 500	4 644
Tanzania	< 0.05	269	1 141	1 410
Uganda	-	-	800	800
Zambia	0.2	45	900	945
Zimbabwe	3.7	502	10 000	10 502
Iran	2.0	419	45 000	45 419
Afghanistan	0.2	66	n.a.	66
Australia	323.0	39 600	108 600	148 200
Bangladesh	0.2	293	4 900	5 193
Bhutan	0.1	n.a..	n.a..	n.a..
China, PR	2 479.2	180 600	5 010 000	5 190 600
India	451.6	76 372	162 706	239 078
Indonesia	231.2	2 798	53 760	56 558
Japan	1.4	355	12 234	12 589
Korea, DPR (North Korea)	28.6	600	10 000	10 600
Korea, Rep. (South Korea)	2.9	331	1 036	1 367
Laos	-	4	58	62
Malaysia	0.9	141	1 068	1 209
Mongolia	4.0	1 170	39 854	41 024
Myanmar (Burma)	1.0	3	248	252
Nepal	< 0.05	1	7	8
New Caledonia	-	2	n.a.	2
New Zealand	4.6	825	2 350	3 175
Pakistan	4.0	89	443	532
Philippines	3.8	211	1 012	1 223
Taiwan	-	1	101	102
Vietnam	44.6	3 116	3 519	6 635
Canada	58.9	4 342	140 988	145 330
Greenland	-	183	200	383
Mexico	11.0	1 160	3 000	4 160
USA	967.9	231 922	6 487 760	6 719 682
Argentina	0.2	424	273	697
Bolivia	-	1	n.a.	1
Brazil	0.7	1 547	4 665	6 212
Chile	0.2	1 181	4 135	5 316
Colombia	69.9	5 298	9 929	15 227
Costa Rica	-	-	17	17
Peru	0.3	102	1 465	1 567
Venezuela	8.4	479	6 955	7 434
WORLD	5 522.7	729 464	15 674 808	16 404 272

Table continued →

Country/Region	Production 2007	Reserves	Resources	Rem. potential
Europe	165.8	19 434	475 246	494 680
CIS	407.2	123 691	2 878 690	3 002 381
Africa	249.3	32 704	54 588	87 292
Middle East	2.0	419	45 000	45 419
Austral-Asia	3 581.1	306 578	5 411 896	5 718 474
North America	1 037.8	237 607	6 631 948	6 869 555
Latin America	79.6	9 032	27 439	36 471
Antarctica	-	-	150 000	150 000
OPEC-13	241.6	4 047	107 944	111 991
OECD	1 529.8	297 051	7 226 720	7 523 771
EU-27	159.1	18 217	473 623	491 841

n.a. not available

- no production, reserves

Table A 5-2: Hard Coal Resources in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	USA	6 487 760	41.4	41.4
2	China, PR	5 010 000	32.0	73.4
3	Russia*	2 662 155	17.0	90.3
4	United Kingdom	186 700	1.2	91.5
5	Poland	164 659	1.1	92.6
6	India	162 706	1.0	93.6
7	Canada	140 988	0.9	94.5
8	Kazakhstan	124 737	0.8	95.3
9	Australia	108 600	0.7	96.0
10	Germany	82 947	0.5	96.5
11	Indonesia	53 760	0.3	96.9
12	Ukraine*	49 006	0.3	97.2
13	Iran	45 000	0.3	97.5
14	Mongolia*	39 854	0.3	97.7
15	Kyrgyzstan	27 528	0.2	97.9
16	Botswana	21 200	0.1	98.0
17	Czech Republic	21 106	0.1	98.2
18	Japan	12 234	0.1	98.3
19	Mozambique	11 280	0.1	98.3
20	Zimbabwe	10 000	0.1	98.4
WORLD		15 674 808	100.0	
	Europe	475 246	3.0	
	CIS	2 878 690	18.4	
	Africa	54 588	0.3	
	Middle East	45 000	0.3	
	Austral-Asia	5 411 896	34.5	
	North America	6 631 948	42.3	
	Latin America	27 439	0.2	
	Antarctica	150 000	1.0	
	OPEC-13	107 944	0.7	
	OECD	7 226 720	46.1	
	EU-27	473 623	3.0	

* Hard coal resources contain only bituminous coal and anthracite according to national classification

Table 5-3: Hard Coal Reserves in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	USA	231 922	31.8	31.8
2	China, PR	180 600	24.8	56.6
3	India	76 372	10.5	67.0
4	Russia*	69 946	9.6	76.6
5	Australia	39 600	5.4	82.0
6	Ukraine*	32 039	4.4	86.4
7	South Africa, Rep.	31 022	4.3	90.7
8	Kazakhstan	18 947	2.6	93.3
9	Poland	12 650	1.7	95.0
10	Colombia	5 298	0.7	95.7
11	Canada	4 342	0.6	96.3
12	Vietnam	3 116	0.4	96.8
13	Czech Republic	3 112	0.4	97.2
14	Indonesia	2 798	0.4	97.6
15	Brazil	1 547	0.2	97.8
16	Chile	1 181	0.2	97.9
17	Mongolia*	1 170	0.2	98.1
18	Mexico	1 160	0.2	98.3
19	Uzbekistan	1 050	0.1	98.4
20	Kyrgyzstan	971	0.1	98.5
...				
48	Germany	118	< 0.05	
...				
	<i>WORLD</i>	<i>729 464</i>	<i>100.0</i>	
	Europe	19 434	2.7	
	CIS	123 691	17.0	
	Africa	32 704	4.5	
	Middle East	419	0.1	
	Austral-Asia	306 578	42.0	
	North America	237 607	32.6	
	Latin America	9 032	1.2	
	OPEC-13	4 047	0.6	
	OECD	297 051	40.7	
	EU-27	18 217	2.5	

* Hard coal reserves contain only bituminous coal and anthracite according to national classification

Table 5-4: Hard Coal Production in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	China, PR	2 479.2	44.9	44.9
2	USA	967.9	17.5	62.4
3	India	451.6	8.2	70.6
4	Australia	323.0	5.8	76.4
5	South Africa, Rep.	243.6	4.4	80.9
6	Russia*	241.3	4.4	85.2
7	Indonesia	231.2	4.2	89.4
8	Kazakhstan	90.4	1.6	91.0
9	Poland	87.8	1.6	92.6
10	Ukraine*	75.2	1.4	94.0
11	Colombia	69.9	1.3	95.3
12	Canada	58.9	1.1	96.3
13	Vietnam	44.6	0.8	97.1
14	Korea, DPR (North Korea)	28.6	0.5	97.7
15	Germany	24.2	0.4	98.1
16	United Kingdom	16.8	0.3	98.4
17	Czech Republic*	13.1	0.2	98.6
18	Mexico	11.0	0.2	98.8
19	Spain	11.0	0.2	99.0
20	Venezuela	8.4	0.2	99.2
	WORLD	5 522.7	100.0	
	Europe	165.8	3.0	
	CIS	407.2	7.4	
	Africa	249.3	4.5	
	Middle East	2.0	< 0.05	
	Austral-Asia	3 581.1	64.8	
	North America	1 037.8	18.8	
	Latin America	79.6	1.4	
	OPEC-13	241.6	4.4	
	OECD	1 529.8	27.7	
	EU-27	159.1	2.9	

* Hard coal production contains only bituminous coal and anthracite according to national classification

Table 5-5: Hard Coal Consumption in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	China, PR	2 477.0	44.9	44.9
2	USA	950.0	17.2	62.1
3	India	504.4	9.1	71.2
4	Japan	182.3	3.3	74.5
5	South Africa, Rep.	178.5	3.2	77.8
6	Russia*	166.1	3.0	80.8
7	Korea, Rep. (South Korea)	92.1	1.7	82.4
8	Poland	87.4	1.6	84.0
9	Ukraine*	81.2	1.5	85.5
10	Australia	75.5	1.4	86.9
11	Germany	71.3	1.3	88.2
12	Taiwan	68.9	1.2	89.4
13	Kazakhstan	67.3	1.2	90.6
14	United Kingdom	62.7	1.1	91.8
15	Canada	49.2	0.9	92.6
16	Indonesia	36.2	0.7	93.3
17	Spain	33.1	0.6	93.9
18	Turkey	25.1	0.5	94.4
19	Korea, DPR (North Korea)	25.0	0.5	94.8
20	Italy	25.0	0.5	95.3
	WORLD	5 519.8	100.0	
	Europe	407.4	7.4	
	CIS	316.1	5.7	
	Africa	193.3	3.5	
	Middle East	15.1	0.3	
	Austral-Asia	3 540.3	64.1	
	North America	1 016.1	18.4	
	Latin America	31.7	0.6	
	OPEC-13	39.4	0.7	
	OECD	1 762.0	31.9	
	EU-27	377.4	6.8	

* Hard coal consumption contains only bituminous coal and anthracite according to national classification

Table 5-6: Hard Coal Exports in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	Australia	250.0	27.4	27.4
2	Indonesia	195.0	21.3	48.7
3	Russia	98.6	10.8	59.5
4	South Africa, Rep.	67.7	7.4	66.9
5	Colombia	64.7	7.1	74.0
6	USA	53.2	5.8	79.8
7	China, PR	53.2	5.8	85.6
8	Canada	30.6	3.4	89.0
9	Vietnam	29.6	3.2	92.2
10	Kazakhstan	26.0	2.8	95.1
11	Poland	11.8	1.3	96.4
12	Venezuela	8.3	0.9	97.3
13	Czech Republic	7.0	0.8	98.0
14	Korea, DPR (North Korea)	3.7	0.4	98.4
15	Norway	3.4	0.4	98.8
16	Ukraine	3.4	0.4	99.2
17	Mongolia	3.2	0.4	99.5
18	New Zealand	2.0	0.2	99.8
19	India	1.2	0.1	99.9
20	United Kingdom	0.3	< 0.05	99.9
...				
21	Germany	0.3	< 0.05	100.0
...				
	<i>WORLD</i>	<i>913.7</i>	<i>100.0</i>	
	Europe	23.0	2.5	
	CIS	128.0	14.0	
	Africa	67.8	7.4	
	Middle East	-	-	
	Austral-Asia	538.0	58.9	
	North America	83.9	9.2	
	Latin America	73.0	8.0	
	OPEC-13	203.3	22.3	
	OECD	358.9	39.3	
	EU-27	19.6	2.1	

- no exports

Table 5-7: Hard Coal Imports in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	Japan	186.1	20.3	20.3
2	Korea, Rep. (South Korea)	88.3	9.7	30.0
3	Taiwan	68.9	7.5	37.5
4	India	54.1	5.9	43.4
5	China, PR	51.0	5.6	49.0
6	United Kingdom	50.3	5.5	54.5
7	Germany	47.5	5.2	59.7
8	USA	32.9	3.6	63.3
9	Italy	25.0	2.7	66.0
10	Spain	24.4	2.7	68.7
11	Russia	23.4	2.6	71.3
12	Turkey	22.5	2.5	73.7
13	Canada	21.0	2.3	76.0
14	France	20.4	2.2	78.3
15	Brazil	15.1	1.7	79.9
16	Thailand	14.2	1.6	81.5
17	Netherlands	13.0	1.4	82.9
18	Israel	12.6	1.4	84.3
19	Hongkong	12.3	1.3	85.6
20	Malaysia	9.9	1.1	86.7
<i>WORLD</i>		<i>914.8</i>	<i>100.0</i>	
	Europe	267.0	29.2	
	CIS	36.8	4.0	
	Africa	11.9	1.3	
	Middle East	13.4	1.5	
	Austral-Asia	500.4	54.7	
	North America	59.3	6.5	
	Latin America	26.1	2.9	
	OPEC-13	1.4	0.2	
	OECD	595.0	65.0	
	EU-27	239.8	26.2	

Table 5-8: Lignite in 2007: Production, Reserves, Resources and Remaining Potential [in Mt]; for country related specifications see following tables

Country/Region	Production 2007	Reserves	Resources	Remaining potential
1	2	3	4	5=3+4
Albania	0.1	794	n.a.	794
Austria	-	-	333	333
Bosnia-Herzegovina	9.5	2 369	1 814	4 182
Bulgaria	25.4	1 928	4 194	6 122
Croatia	< 0.05	n.a.	300	300
Czech Republic	54.5	185	772	956
Finland	2.8	n.a.	n.a.	n.a.
France	< 0.05	n.a.	114	114
Germany	180.4	40 818	36 760	77 578
Greece	64.4	2 876	3 554	6 430
Hungary	9.8	2 633	2 704	5 337
Italy	-	7	22	29
Macedonia	5	332	300	632
Montenegro	1.5	n.a.	n.a.	n.a.
Poland	57.5	3 791	219 651	223 442
Portugal	-	33	33	66
Romania	35.5	408	7 947	8 355
Serbia	36.5	7 523	3 750	11 273
Slovakia	2.1	83	525	609
Slovenia	4.6	315	341	656
Spain	6.2	319	n.a.	319
Turkey	70	1 814	7 176	8 990
United Kingdom	-	-	1 000	1 000
Belarus	-	-	1 500	1 500
Kazakhstan	4.0	n.a.	n.a.	n.a.
Kyrgyzstan	0.3	n.a.	n.a.	n.a.
Russia	71.3	91 607	1 279 680	1 371 287
Tajikistan	< 0.05	n.a.	n.a.	n.a.
Ukraine	0.2	2 336	5 381	7 717
Uzbekistan	3.2	n.a.	n.a.	n.a.
Central African Republic	-	3	n.a.	3
Madagascar	-	-	37	37
Mali	-	-	3	3
Morocco	-	-	40	40
Niger	-	6	n.a.	6
Nigeria	-	-	250	250
Sierra Leone	-	-	2	2
Israel	0.6	n.a.	n.a.	n.a.
Australia	72.3	37 300	173 500	210 800
Bangladesh	-	-	3	3
China, PR	70.0	11 000	307 000	318 000
India	32.8	4 342	34 105	38 447
Indonesia	28.0	3 961	31 506	35 467
Japan	-	-	1 186	1 186
Korea, DPR (North Korea)	9.0	n.a.	n.a.	n.a.

Table continued →

Country/Region	Production 2007	Reserves	Resources	Remaining potential
1	2	3	4	5=3+4
Laos	0.2	499	22	521
Malaysia	-	39	412	451
Mongolia	4.7	1 350	119 426	120 776
Myanmar (Burma)	0.3	3	2	5
New Zealand	0.3	6 750	4 600	11 350
Pakistan	1.0	2 870	181 434	184 304
Philippines	-	105	912	1 017
Thailand	18.2	1 873	2 857	4 730
Vietnam	-	244	199 876	200 120
Canada	10.5	2 236	51 034	53 270
Mexico	8.0	51	n.a.	51
USA	71.2	31 049	1 369 714	1 400 763
Argentina	-	-	7 350	7 350
Brazil	5.7	5 049	12 587	17 636
Chile	0.1	n.a.	7	7
Dominican Republic	-	-	84	84
Ecuador	-	24	n.a.	24
Haiti	-	-	40	40
Peru	-	-	100	100
WORLD	978.0	268 923	4 075 940	4 344 863
Europe	566.1	66 227	291 289	357 517
CIS	79.0	93 943	1 286 561	1 380 504
Africa	-	9	332	341
Middle East	0.6	n.a.	n.a.	n.a.
Austral-Asia	236.8	70 335	1 056 842	1 127 177
North America	89.7	33 336	1 420 748	1 454 084
Latin America	5.8	5 073	20 168	25 241
OPEC-13	28.0	3 985	31 756	35 741
OECD	610.1	129 945	1 872 678	2 002 623
EU-27	443.3	53 396	277 950	331 346

n.a. not available

- no production, reserves

Table 5-9: Lignite Resources in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	USA	1 369 714	33.6	33.6
2	Russia*	1 279 680	31.4	65.0
3	China, PR	307 000	7.5	72.5
4	Poland	219 651	5.4	77.9
5	Vietnam	199 876	4.9	82.8
6	Pakistan	181 434	4.5	87.3
7	Australia	173 500	4.3	91.5
8	Mongolia	119 426	2.9	94.5
9	Canada	51 034	1.3	95.7
10	Germany	36 760	0.9	96.6
11	India	34 105	0.8	97.5
12	Indonesia	31 506	0.8	98.2
13	Brazil	12 587	0.3	98.5
14	Romania	7 947	0.2	98.7
15	Argentina	7 350	0.2	98.9
16	Turkey	7 176	0.2	99.1
17	Ukraine*	5 381	0.1	99.2
18	New Zealand	4 600	0.1	99.3
19	Bulgaria*	4 194	0.1	99.4
20	Serbia	3 750	0.1	99.5
	WORLD	4 075 940	100.0	
	Europe	291 289	7.1	
	CIS	1 286 561	31.6	
	Africa	332	< 0.05	
	Middle East	n.a.	n.b.	
	Austral-Asia	1 056 842	25.9	
	North America	1 420 748	34.9	
	Latin America	20 168	0.5	
	OPEC-13	31 756	0.8	
	OECD	1 872 678	45.9	
	EU-27	277 950	6.8	

* Lignite resources contain subbituminous coal

n.a. not available despite production

Table 5-10: Lignite Reserves in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	Russia	91 607	34.1	34.1
2	Germany	40 818	15.2	49.2
3	Australia	37 300	13.9	63.1
4	USA	31 049	11.5	74.7
5	China, PR	11 000	4.1	78.7
6	Serbia	7 523	2.8	81.5
7	New Zealand	6 750	2.5	84.1
8	Brazil	5 049	1.9	85.9
9	India	4 342	1.6	87.5
10	Indonesia	3 961	1.5	89.0
11	Poland	3 791	1.4	90.4
12	Greece	2 876	1.1	91.5
13	Pakistan	2 870	1.1	92.6
14	Hungary	2 633	1.0	93.5
15	Bosnia-Herzegovina	2 369	0.9	94.4
16	Ukraine	2 336	0.9	95.3
17	Canada	2 236	0.8	96.1
18	Bulgaria	1 928	0.7	96.8
19	Thailand	1 873	0.7	97.5
20	Turkey	1 814	0.7	98.2
	<i>WORLD</i>	<i>268 923</i>	<i>100.0</i>	
	Europe	66 227	24.6	
	CIS	93 943	34.9	
	Africa	9	< 0.05	
	Middle East	n.a.	n.a.	
	Austral-Asia	70 335	26.2	
	North America	33 336	12.4	
	Latin America	5 073	1.9	
	OPEC-13	3 985	1.5	
	OECD	129 945	48.3	
	EU-27	53 396	19.9	

* Lignite reserves contain subbituminous coal

n.a.. not available despite production

Table 5-11: Lignite Production in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	Germany	180.4	18.4	18.4
2	Australia	72.3	7.4	25.8
3	Russia*	71.3	7.3	33.1
4	USA	71.2	7.3	40.4
5	Turkey	70.0	7.2	47.6
6	China, PR	70.0	7.2	54.7
7	Greece	64.4	6.6	61.3
8	Poland	57.5	5.9	67.2
9	Czech Republic*	54.5	5.6	72.8
10	Serbia	36.5	3.7	76.5
11	Romania	35.5	3.6	80.1
12	India	32.8	3.4	83.5
13	Indonesia	28.0	2.9	86.4
14	Bulgaria	25.4	2.6	88.9
15	Thailand	18.2	1.9	90.8
16	Canada	10.5	1.1	91.9
17	Hungary*	9.8	1.0	92.9
18	Bosnia-Herzegovina	9.5	1.0	93.9
19	Korea, DPR (North Korea)	9.0	0.9	94.8
20	Mexico	8.0	0.8	95.6
	WORLD	978.0	100.0	
	Europe	566.1	57.9	
	CIS	79.0	8.1	
	Africa	-	-	
	Middle East	0.6	0.1	
	Austral-Asia	236.8	24.2	
	North America	89.7	9.2	
	Latin America	5.8	0.6	
	OPEC-13	28.0	2.9	
	OECD	610.1	62.4	
	EU-27	443.3	45.3	

* Lignite production contains subbituminous coal

- no production

Table 5-12: Lignite Consumption in 2007: The Main Countries (Top 20) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mt	Percentage	
			Country	Cumulative
1	Germany	180.0	18.4	18.4
2	Australia	72.5	7.4	25.8
3	USA	71.3	7.3	33.1
4	Russia*	71.0	7.3	40.4
5	China, PR	70.0	7.2	47.6
6	Turkey	70.0	7.2	54.7
7	Greece	64.4	6.6	61.3
8	Poland	57.5	5.9	67.2
9	Czech Republic*	53.9	5.5	72.7
10	Romania	36.7	3.8	76.5
11	Serbia	35.8	3.7	80.2
12	India	32.8	3.4	83.5
13	Indonesia	28.0	2.9	86.4
14	Bulgaria	27.9	2.9	89.3
15	Thailand	18.1	1.9	91.1
16	Canada	10.4	1.1	92.2
17	Hungary*	10.1	1.0	93.2
18	Bosnia-Herzegovina	9.5	1.0	94.2
19	Korea, DPR (North Korea)	9.0	0.9	95.1
20	Mexico	8.0	0.8	95.9
	<i>WORLD</i>	<i>976.8</i>	<i>100.0</i>	
	Europe	565.1	57.9	
	CIS	78.6	8.0	
	Africa	-	-	
	Middle East	0.6	0.1	
	Austral-Asia	236.9	24.3	
	North America	89.7	9.2	
	Latin America	5.8	0.6	
	OPEC-13	28.0	2.9	
	OECD	610.7	62.5	
	EU-27	442.8	45.3	

* Lignite consumption contains subbituminous coal

- no consumption

Table A 6-1: Estimated Ultimate Recovery (EUR) of Uranium by Year-end 2007 [in kt U]

Country/Region	Production 2007	Cum. production	Reserves	Resources	EUR	Remaining potential
1	2	3	4	5	6=3+4+5	7=4+5
Algeria	-	-	n.a.	20	20	20
Argentina	-	2.5	5	8	16	13
Australia	8.6	147	709	534	1 390	1 243
Brazil	0.3	2.4	140	939	1 081	1 078
Bulgaria	-	16.4	n.a.	< 0.5	17	< 0.5
Canada	9.5	418	270	1 003	1 691	1 273
Central Africa Rep.	-	-	n.a.	12	12	12
Chile	-	-	n.a.	6	6	6
China, PR	0.7	30.7	32	44	106	76
Colombia	-	-	n.a.	228	228	228
Czech Republic	0.3	110.2	-	180	290	180
Denmark	-	-	-	92	92	92
Finland	-	< 0.05	-	1	1	1
France	< 0.05	76	n.a.	12	88	12
Gabon	-	25.4	-	6	31	6
Germany	< 0.05	219.5	-	81	301	81
Greece	-	-	1	12	13	13
Hungary	-	21.1	n.a.	18	39	18
India	0.3	8.9	n.a.	141	150	141
Indonesia	-	-	-	18	18	18
Iran	-	< 0.05	-	18	18	18
Italy	-	-	n.a.	16	16	16
Japan	-	0.1	-	7	7	7
Jordan	-	-	44	237	281	281
Kazakhstan	6.6	119	236	1 382	1 736	1 617
Kongo, DR	-	25.6	n.a.	3	28	3
Malawi	-	-	n.a.	12	12	12
Mexico	-	< 0.05	-	15	15	15
Mongolia	-	0.5	8	1 444	1 453	1 452
Namibia	2.9	91.8	56	219	367	275
Niger	3.2	107.7	21	277	406	299
Pakistan	< 0.05	1.1	n.a.	n.a.	1	< 0.5
Peru	-	-	-	29	29	29
Portugal	-	3.7	-	9	12	9
Romania	0.1	18.3	-	13	31	13
Russia	3.4	136.2	48	1 489	1 672	1 536
Sambia	-	0.1	n.a.	22	22	22
Slovenia	-	-	-	7	7	7
Somalia	-	-	-	8	8	8
South Africa, Rep.	0.5	156	115	1 543	1 814	1 658
Spain	-	5	-	11	16	11
Sweden	-	0.2	-	10	10	10
Thailand	-	-	n.a.	< 0.5	< 0.5	< 0.5
Turkey	-	-	-	7	7	7
Ukraine	0.8	13.3	27	450	490	477

Table continued →

Country/Region	Production 2007	Cum. production	Reserves	Resources	EUR	Remaining potential
1	2	3	4	5	6=3+4+5	7=4+5
USA	1.7	362.4	n.a.	2 952	3 314	2 952
Uzbekistan	2.3	32.6	55	276	363	331
Venezuela	-	-	n.a.	163	163	163
Vietnam	-	-	n.a.	244	244	244
Zimbabwe	-	-	n.a.	26	26	26
WORLD	41.3	2 151.8	1 766	14 243	18 161	16 009
Europe	0.4	470.4	1	469	941	470
CIS	13.2	301.1	366	3 596	4 262	3 961
Africa	6.6	409.1	192	2 128	2 729	2 320
Middle East	-	< 0.05	44	255	299	299
Austral-Asia	9.6	157.7	749	2 432	3 338	3 181
North America	11.1	780.5	270	3 970	5 020	4 240
Latin America	0.3	4.9	145	1 374	1 523	1 518
OECD	22.4	1 195.2	980	4 953	7 128	5 933
EU-27	0.5	470.4	1	451	922	452
OPEC-13	< 0.05	2.5	n.a.	199	202	199

Source: NEA (2008)

n.a. not available

- no production, reserves

Table A 6-2: Uranium Reserves in 2007 (mineable up to 40 USD/kg U): The Main Countries (Top 10) and Distribution by Regions and Economic Groups

Rank	Country/Region	quantity t U	Percentage	
			Country	Cumulative
1	Australia	709 000	40.1	40.1
2	Canada	270 100	15.3	55.4
3	Kazakhstan	235 500	13.3	68.8
4	Brazil	139 600	7.9	76.7
5	South Africa, Rep.	114 900	6.5	83.2
6	Namibia	56 000	3.2	86.3
7	Uzbekistan	55 200	3.1	89.5
8	Russia	47 500	2.7	92.2
9	Jordan	44 000	2.5	94.6
10	China, PR	31 800	1.8	96.4
	<i>WORLD</i>	<i>1 766 400</i>	<i>100.0</i>	
	Europe	1 000	0.1	
	CIS	365 600	20.7	
	Africa	192 200	10.9	
	Middle East	44 000	2.5	
	Austral-Asia	748 800	42.4	
	North America	270 100	15.3	
	Latin America	144 700	8.2	
	OECD	980 100	55.5	
	EU-27	1 000	0.1	

Table A 6-3: Uranium Resources in 2007: The Main Countries (> 20 kt U) and Distribution by Regions and Economic Groups in kt

Country/Region	Discovered			Undiscovered		Total	Percentage	
	RAR 40-130 \$/kg U	Inferred <130/kg U	Total	Prognosticated	Speculative		Country	Cumulative
1	2	3	4=2+3	5	6	7=4+5+6	8	9
USA	339	< 0.5	339	1 273	1 340	2 952	20.7	20.7
South Africa, Rep.	170	151	320	110	1 113	1 543	10.8	31.6
Russia	125	373	498	277	714	1 489	10.5	42.0
Mongolia	38	16	54	-	1 390	1 444	10.1	52.2
Kazakhstan	143	439	582	300	500	1 382	9.7	61.9
Canada	59	94	153	150	700	1 003	7.0	68.9
Brazil	18	121	139	300	500	939	6.6	75.5
Australia	16	518	534	n.a.	n.a.	534	3.7	79.2
Ukraine	108	65	172	23	255	450	3.2	82.4
Niger	222	31	253	25	< 0.5	277	1.9	84.3
Uzbekistan	17	39	56	85	135	276	1.9	86.3
Vietnam	1	5	6	8	230	244	1.7	88.0
Jordan	< 0.5	68	68	85	85	237	1.7	89.7
Colombia	n.a.	n.a.	n.a.	11	217	228	1.6	91.3
Namibia	120	99	219	-	-	219	1.5	92.8
Czech Republic	1	-	1	< 0.5	179	180	1.3	94.1
Venezuela	n.a.	n.a.	n.a.	n.a.	163	163	1.1	95.2
India	49	24	73	51	17	141	1.0	96.2
Denmark	20	12	32	-	60	92	0.6	96.8
Germany	3	4	7	-	74	81	0.6	97.4
China, PR	17	19	36	4	4	44	0.3	97.7
Peru	1	2	3	7	20	29	0.2	97.9
Zimbabwe	1	-	1	-	25	26	0.2	98.1
Sambia	n.a.	n.a.	n.a.	22	n.a.	22	0.2	98.3
Algeria	20	n.a.	20	-	-	20	0.1	98.4
WORLD	1 572	2 131	3 703	2 769	7 771	14 243	100.0	
Europe	56	57	113	30	326	469	3.3	
CIS	392	916	1 308	684	1 604	3 596	25.2	
Africa	548	285	833	157	1 138	2 128	14.9	
Middle East	1	69	69	89	97	255	1.8	
Austral-Asia	132	584	716	62	1 654	2 432	17.1	
Nord-Amerika	399	95	494	1 426	2 050	3 970	27.9	
Latin America	24	126	150	321	903	1 374	9.6	
OECD	467	661	1 128	1 452	2 373	4 953	34.8	
EU-27	44	50	94	30	326	451	3.2	
OPEC-13	5	2	7	4	188	199	1.4	

n.a. not available

- no resources

Table A 6-4: Natural Uranium Production in 2007: The Main Countries (Top 10) and Distribution by Regions and Economic Groups

Rank	Country/Region	Quantity t U	Percentage	
			Country	Cumulative
1	Canada	9 476	23.0	23.0
2	Australia	8 611	20.9	43.8
3	Kazakhstan	6 637	16.1	59.9
4	Russia	3 413	8.3	68.2
5	Niger	3 153	7.6	75.8
6	Namibia	2 879	7.0	82.8
7	Uzbekistan	2 320	5.6	88.4
8	USA	1 654	4.0	92.4
9	Ukraine	846	2.0	94.5
10	China, PR	712	1.7	96.2
	...			
17	Germany	41	0.1	
	...			
	<i>WORLD</i>	<i>41 279</i>	<i>100.0</i>	
	Europe	425	1.0	
	CIS	13 216	32.0	
	Africa	6 571	15.9	
	Austral-Asia	9 638	23.3	
	North America	11 130	27.0	
	Latin America	299	0.7	
	OECD	20 089	48.7	
	EU-27	425	1.0	

Source: RWE NUKEM Data Feature (2007)

Table A 6-5: Uranium Consumption in 2007: The Main Countries (> 5 Mtoe) and Distribution by Regions and Economic Groups

Rank	Country/Region	Mtoe	Percentage	
			Country	Cumulative
1	USA	187.5	29.5	29.5
2	France	102.1	16.1	45.6
3	Japan	68.6	10.8	56.4
4	Germany	37.9	6.0	62.3
5	Russia	35.4	5.6	67.9
6	Korea, Rep. (South Korea)	33.7	5.3	73.2
7	Canada	22.3	3.5	76.7
8	Ukraine	20.4	3.2	79.9
9	United Kingdom	17.0	2.7	82.6
10	Sweden	15.4	2.4	85.0
11	Spain	13.6	2.1	87.1
12	China, PR	12.3	1.9	89.1
13	Belgium & Luxemburg	11.0	1.7	90.8
14	Taiwan	9.0	1.4	92.2
15	Czech Republic	5.9	0.9	93.2
16	Finland	5.4	0.8	94.0
	<i>WORLD</i>	<i>635.6</i>	<i>100.0</i>	
	Europe	232.1	36.5	
	CIS	55.8	8.8	
	Africa	2.4	0.4	
	Austral-Asia	128.2	20.2	
	North America	212.3	33.4	
	Latin America	4.8	0.8	
	OECD	546.1	85.9	
	EU-25	220.1	34.6	
	EU-27	225.8	35.5	

Source: BP (2008)

Table A 7-1: Worldwide Direct Utilization of Geothermal Energy in Different Usage Categories between 1995 and 2005

Usage	Installed capacity [MWth]		
	1995	2000	2005
Heat pumps	1 854	5 275	15 723
Space heating	2 579	3 263	4 158
Greenhouse heating	1 085	1 246	1 358
Fish farming	1 097	605	616
Drying (agriculture)	67	74	157
Industrial usage	544	474	489
Spa facilities	1 085	3 957	4 911
Cooling and snow melting	115	114	338
Others	238	137	338
<i>Total</i>	<i>8 664</i>	<i>15 145</i>	<i>27 825</i>

Source: Lund. J.W. Boyd. T.L. & Freeston. D.H. (2005)

Table A 7-2: Worldwide Direct Utilization of Geothermal Energy in 2005

Country	Installed capacity [MW _t]	Utilization [GWh/a]	Country	Installed capacity [MW _t]	Utilization [GWh/a]
Albania	9.6	2.4	Japan	413.4	1 433.8
Algeria	152.3	671.4	Jordan	153.3	427.8
Argentina	149.9	169.2	Kenya	10	22
Armenia	1	4.2	Korea, Rep. (South Korea)	16.9	48.7
Australia	109.5	824.5	Lithuania	21.3	127.2
Austria	352	2 229.9	Macedonia	62.3	166.3
Belarus	1	3.7	Mexico	164.7	536.7
Belgium	63.9	119.8	Mongolia	6.8	59.2
Brazil	360.1	1 839.7	Nepal	2.1	14.3
Bulgaria	109.6	464.3	Netherlands	253.5	190.3
Canada	461	707.3	New Zealand	308.1	1 968.5
Caribbean Islands	0.1	0.8	Norway	450	642.8
Chile	8.7	36.4	Papua New Guinea	0.1	0.3
China, PR	3687	12 604.6	Peru	2.4	13.6
Colombia	14.4	79.7	Philippines	3.3	11
Costa Rica	1	5.8	Poland	170.9	232.9
Croatia	114	189.4	Portugal	30.6	107
Czech Republic	204.5	338.9	Romania	145.1	789.2
Denmark	821.2	1 211.2	Russia	308.2	1 706.7
Ecuador	5.2	28.4	Serbia	88.8	659.8
Egypt	1	4.2	Slovakia	187.7	842.8
Ethiopia	1	4.2	Slovenia	48.6	197.9
Finland	260	541.7	Spain	22.3	96.5
France	308	1 443.4	Sweden	3 840.0	10 000.8
Georgia	250	1 752.1	Switzerland	581.6	1 174.9
Germany	504.6	808.3	Thailand	1.7	8
Greece	74.8	157.6	Tunisia	25.4	60.9
Guatemala	2.1	14.6	Turkey	1 177.0	5 451.3
Honduras	0.7	4.7	Ukraine	10.9	33
Hungary	694.2	2 205.7	United Kingdom	10.2	12.7
Iceland	1 791.0	6 615.3	USA	7 817.4	8 678.2
India	203	446.2	Venezuela	0.7	3.9
Indonesia	2.3	11.8	Vietnam	30.7	22.4
Iran	30.1	209	Yemen	1	4.2
Ireland	20	28.9			
Israel	82.4	609.2			
Italy	606.6	2 098.5	<i>Total</i>		

Source: Lund, J.W., Boyd, T.L. & Freeston, D.H. (2005)

Table A 7-3: The Worldwide Installed Capacity of Geothermal Power Generation in 1995, 2000 and 2005 and Projection for 2010

Country	1995 [MW _e]	2000 [MW _e]	2005 [MW _e]	2010 [MW _e]
Australia	0.2	0.2	0.2	0.2
Austria	-	-	1	1
China, PR	29	29	28	28
Costa Rica	55	143	163	197
El Salvador	105	161	151	204
Ethiopia	-	7	7	7
France	4	4	15	35
Germany			0.2	8
Guatemala	-	33	33	53
Iceland	50	170	202	580
Indonesia	310	590	797	1 172
Italy	632	785	790	910
Japan	414	547	535	535
Kenya	45	45	127	164
Mexico	753	755	953	1 178
New Zealand	286	437	435	590
Nicaragua	70	70	77	143
Papua New Guinea	-	-	6	56
Philippines	1 227	1 909	1 931	1 991
Portugal	5	16	16	35
Russia	11	23	79	185
Thailand	0.3	0.3	0.3	0.3
Turkey	20	20	20	83
USA	2 817	2 228	2 544	3 000
Total	6 797	7 974	8 933	11 155
<i>Power production</i>	<i>38 035 (GWh/a)</i>	<i>49 261 (GWh/a)</i>	<i>56 786 (GWh/a)</i>	

- no geothermal power generation

Source: Bertani (2008) for forecast 2010
 Bertani (2006) for power production
 Bertani (2005) for installed capacity
 Hutterer (2001)

Table A 8-1: Germany: Crude Oil Supplies by Countries of Origin in 2006 and 2007

Country/Group	2006		2007		Changes 2007/2006	
	1.000 t	1.000 t	%	1.000 t	%	
Russia	36 883	33 866	31.7	-3 017	-8.2	
Norway	18 564	16 796	15.7	-1 768	-9.5	
United Kingdom	13 241	13 577	12.7	336	2.5	
Libya	12 382	10 892	10.2	-1 490	-12	
Kazakhstan	7 645	7 950	7.5	305	4	
Syria	3 445	3 141	2.9	-304	-8.8	
Azerbaijan	1 853	2 834	2.7	981	52.9	
Algeria	2 337	2 485	2.3	148	6.3	
Saudi Arabia	3 561	2 205	2.2	-1 256	-35.3	
Venezuela	1 434	2 222	2.1	788	55	
Nigeria	3 118	2 051	1.9	-1 067	-34.2	
Denmark	866	1 699	1.6	833	96.2	
Côte d'Ivoire	917	1 308	1.2	391	42.6	
Egypt	978	1 195	1.1	217	22.2	
Brazil	170	975	0.9	805	473.5	
Netherlands	439	768	0.7	329	74.9	
Poland	398	574	0.5	176	44.2	
Angola	150	450	0.4	300	200	
Iran	162	419	0.4	257	158.6	
Tunisia	242	202	0.2	-40	-16.5	
Equatorial Guinea	45	175	0.2	130	288.9	
Yemen	56	161	0.2	105	187.5	
Lithuania	35	156	0.1	121	345.7	
Iraq	60	153	0.1	93	155	
Italy	154	121	0.1	-33	-21.4	
United Arab Emirates	-	65	0.1	65		
Gabon	48	63	0.1	15	31.3	
Kuwait	62	62	0.1	0	0	
Georgia	-	9	0	9		
Mexico	34	-	-	-34	-100	
Cameroon	15	-	-	-15	-100	
Turkmenistan	129	-	-	-129	-100	
Belarus	121	-	-	-121	-100	
<i>total imports</i>	<i>109 544</i>	<i>106 673</i>	<i>100</i>	<i>-2 871</i>	<i>-2.6</i>	
OPEC-13	23 266	21 004	19.7	-2 262	-9.7	
EU-27	15 133	16 895	15.8	1 762	11.6	
CIS	46 631	44 659	41.9	-1 972	-4.2	
Western Europe	33 110	32 691	30.9	-303	-0.9	
Middle East	7 406	6 394	6	-1 012	-13.7	

- no imports

Source: BAFA (2008a, b)

Table A 8-2: Germany: Origin of the Consumed Natural Gas (Crude Gas) 2006 and 2007

Origin	2006		2007	
	G. m ³	%	G. m ³	%
Russia	37.6	39.0	40.0	41.7
Netherlands	22.1	23.0	20.0	20.8
Norway	25.8	26.8	28.2	29.4
Denmark	2.6	2.7	3.6	3.7
Total imports	88.1	91.5	91.7	95.7
Re-export	12.4	12.8	12.9	13.5
Net import	75.8	78.7	78.8	82.2
Indigenous production	18.0	18.7	16.4	17.1
Reservoir balance	2.6	2.7	0.7	0.7
<i>Total consumption</i>	<i>96.3</i>	<i>100.0</i>	<i>95.9</i>	<i>100.0</i>

Source: BAFA (2008a. b). LBEG (2008)

Conversion of thermal units to units of volume according to IEA's conversion coefficient

Table A 8-3: Cross-Border Prices for Oil, Natural Gas and Steam Coal 1970 - 2008 (annual mean values)

Year	Oil €/t	Natural gas €/1 000 m ³	Coal €/tce	Oil	€/tce Natural gas	Coal
1970	30.68	n.a.	n.a.	21.48	n.a.	n.a.
1971	39.37	22.50	n.a.	27.57	20.77	n.a.
1972	36.81	n.a.	n.a.	25.78	n.a.	n.a.
1973	41.93	21.88	30.68	29.36	20.21	30.68
1974	114.53	26.64	41.93	80.20	24.60	41.93
1975	114.02	42.33	41.93	79.84	39.09	41.93
1976	124.76	n.a.	46.02	87.36	n.a.	46.02
1977	124.76	57.62	43.46	87.36	53.21	43.46
1978	107.88	67.70	43.46	75.55	62.51	43.46
1979	142.14	68.00	46.02	99.54	62.79	46.02
1980	233.15	100.32	56.24	163.27	92.63	56.24
1981	316.49	146.23	83.85	221.63	135.02	83.85
1982	314.96	166.73	86.41	220.56	153.95	86.41
1983	296.04	161.06	74.65	207.31	148.71	74.65
1984	318.02	168.62	71.58	222.71	155.70	71.58
1985	318.02	185.45	81.30	222.71	171.23	81.30
1986	130.38	131.66	60.33	91.30	121.57	60.33
1987	128.33	71.84	45.50	89.87	66.33	45.50
1988	105.33	62.58	41.93	73.76	57.79	41.93
1989	131.40	60.54	49.08	92.02	55.90	49.08
1990	142.65	72.55	48.57	99.90	66.99	48.57
1991	128.85	85.39	45.50	90.23	78.84	45.50
1992	115.55	69.32	42.44	80.92	64.01	42.44
1993	106.94	71.28	36.81	74.89	65.82	36.81
1994	98.68	66.22	35.79	69.10	61.14	35.79
1995	94.65	65.91	38.86	66.28	60.85	38.86
1996	119.00	64.46	37.84	83.33	59.52	37.84
1997	127.59	76.66	42.44	89.35	70.79	42.44
1998	86.88	67.79	37.32	60.84	62.59	37.32
1999	122.67	57.84	34.26	85.90	53.40	34.26
2000	227.22	102.68	40.90	159.12	94.81	40.90
2001	201.60	134.08	53.16	141.18	123.81	53.16
2002	191.36	112.05	44.55	134.01	103.46	44.55
2003	190.31	117.68	39.87	133.27	108.66	39.87
2004	221.74	113.21	56.19	155.28	104.53	56.19
2005	314.47	154.97	65.08	220.22	143.09	65.08
2006	379.01	205.06	61.87	265.41	189.35	61.87
2007	389.24	190.08	65.87	272.58	175.51	65.87
2008	484.34	257.79	112.48	339.17	238.03	112.48

n.a. not available

Source: BAFA (2009a, b, c)

Table A 8-4: Cross-Border Prices for Oil and Natural Gas 2000 - 2008 (monthly mean values)

Month/Year	Cross-Border prices		
	Oil €/t	Natural gas €/TJ	€/1 000 m ³
Jan-00	190.20	2 265.45	78.39
Feb-00	210.19	2 329.27	80.60
Mar-00	212.40	2 414.21	83.54
Apr-00	181.79	2 697.70	93.35
May-00	210.60	2 800.63	96.91
Jun-00	229.87	2 946.97	101.97
Jul-00	220.96	3 086.07	106.78
Aug-00	234.77	3 246.99	112.35
Sep-00	266.42	3 271.71	113.21
Oct-00	262.28	3 465.68	119.92
Nov-00	279.21	3 764.06	130.24
Dec-00	227.25	3 799.99	131.49
Jan-01	205.23	4 167.76	144.21
Feb-01	217.97	4 254.10	147.20
Mar-01	199.75	4 213.93	145.81
Apr-01	210.36	4 189.15	144.95
May-01	227.98	4 135.57	143.10
Jun-01	241.60	4 087.07	141.42
Jul-01	213.51	3 709.22	128.35
Aug-01	210.22	3 628.58	125.56
Sep-01	208.01	3 541.51	122.54
Oct-01	178.17	3 603.07	124.67
Nov-01	160.28	3 575.89	123.73
Dec-01	153.28	3 483.19	120.53
Jan-02	157.95	3 360.45	116.28
Feb-02	171.80	3 345.56	115.76
Mar-02	184.00	3 345.14	115.75
Apr-02	206.77	3 227.21	111.67
May-02	197.16	3 194.48	110.54
Jun-02	183.80	3 180.70	110.06
Jul-02	189.07	3 018.92	104.46
Aug-02	199.26	3 015.75	104.35
Sep-02	210.24	3 035.68	105.04
Oct-02	208.46	3 308.39	114.48
Nov-02	182.45	3 321.16	114.92
Dec-02	204.34	3 366.48	116.49
Jan-03	222.87	3 398.00	117.58
Feb-03	223.25	3 441.00	119.07
Mar-03	214.44	3 465.01	119.90
Apr-03	175.93	3 628.00	125.54
May-03	164.22	3 610.20	124.92

Table continued →

Month/Year	Cross-Border prices		
	Oil €/t	Natural gas	
		€/TJ	€/1 000 m ³
Jun-03	170.35	3 377.00	116.85
Jul-03	177.25	3 436.78	118.92
Aug-03	193.72	3 432.00	118.75
Sep-03	187.03	3 361.05	116.30
Oct-03	187.66	3 289.32	113.82
Nov-03	183.41	3 265.72	113.00
Dec-03	183.57	3 208.24	111.01
Jan-04	182.39	3 154.00	109.13
Feb-04	181.11	3 076.00	106.44
Mar-04	194.54	3 048.00	105.47
Apr-04	199.00	3 091.00	106.96
May-04	225.88	3 130.00	108.30
Jun-04	212.44	3 162.00	109.41
Jul-04	222.46	3 247.00	112.35
Aug-04	249.90	3 309.15	114.50
Sep-04	250.13	3 171.49	109.74
Oct-04	276.75	3 486.22	120.63
Nov-04	240.67	3 650.17	126.30
Dec-04	217.69	3 735.46	129.25
Jan-05	236.01	3 922.80	135.74
Feb-05	244.85	4 001.46	138.46
Mar-05	282.63	4 028.87	139.41
Apr-05	284.28	4 105.71	142.07
May-05	273.91	4 107.36	142.12
Jun-05	306.35	4 245.41	146.90
Jul-05	338.19	4 473.24	154.78
Aug-05	378.13	4 441.50	153.69
Sep-05	371.75	4 525.18	156.58
Oct-05	357.69	4 970.51	171.99
Nov-05	339.96	5 219.71	180.61
Dec-05	351.78	5 425.92	187.75
Jan-06	379.66	5 591.00	193.46
Feb-06	366.80	5 787.00	200.24
Mar-06	371.76	5 850.00	202.42
Apr-06	402.52	5 943.00	205.64
May-06	398.72	6 024.00	208.44
Jun-06	388.43	5 919.00	204.81
Jul-06	413.23	5 969.00	206.54
Aug-06	424.25	6 024.00	208.44
Sep-06	367.18	5 942.00	205.61
Oct-06	338.65	5 981.00	206.96
Nov-06	344.71	6 196.00	214.39
Dec-06	344.38	6 060.00	209.69
Jan-07	311.57	5 997.00	207.51

Table continued →

Month/Year	Cross-Border prices		
	Oil €/t	Natural gas €/TJ €/1 000 m ³	
Feb-07	323.68	5 744.00	198.75
Mar-07	343.34	5 592.00	193.49
Apr-07	361.98	5 424.00	187.68
May-07	369.54	5 239.09	181.28
Jun-07	385.79	5 227.00	180.87
Jul-07	416.81	5 310.34	183.75
Aug-07	386.54	5 320.00	184.08
Sep-07	411.22	5 361.77	185.53
Oct-07	431.71	5 477.28	189.53
Nov-07	467.33	5 734.65	198.43
Dec-07	461.32	5 900.00	204.15
Jan-08	471.35	6 245.00	216.09
Feb-08	483.51	6 595.00	228.20
Mar-08	504.26	6 611.00	228.75
Apr-08	511.82	6 806.00	235.50
May-08	571.51	7 080.00	244.98
Jun-08	622.38	7 411.62	256.46
Jul-08	631.49	7 775.42	269.05
Aug-08	561.53	7 981.00	276.16
Sep-08	505.75	8 059.37	278.87
Oct-08	410.19	8 560.00	296.19
Nov-08	322.69	8 748.05	302.70
Dec-08	241.88	8 357.00	289.17

Source: BAFA (2009 a.b.c)

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