



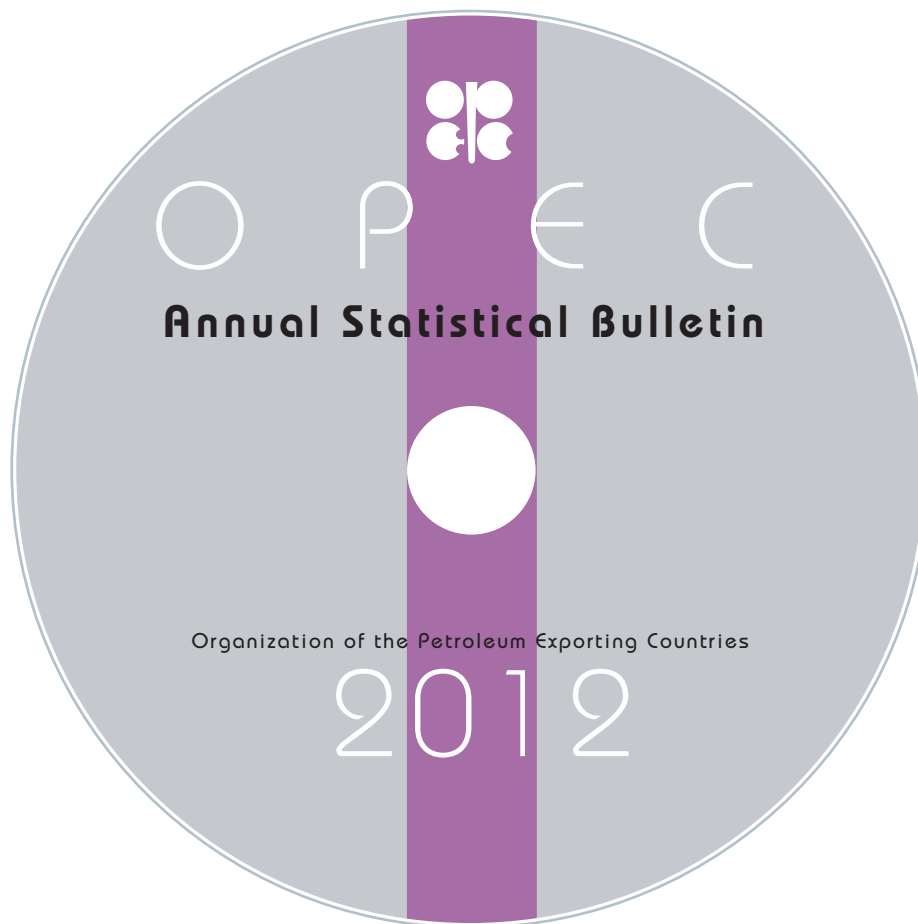
Annual Statistical Bulletin

2012



OPEC

Organization of the Petroleum Exporting Countries



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HE Abdalla Salem El-Badri, OPEC Secretary General

I am pleased to present the 47th edition of OPEC's Annual Statistical Bulletin (ASB), one of the oil industry's most important sources of data.

The aim of the ASB is to provide accurate, reliable and timely historical data on various aspects of the global oil and gas industry. I am pleased to note that since its first publication in 1965, it has fulfilled this role and has become a useful reference tool for people around the world.

The main focus of the ASB is on OPEC's 12 Member Countries: Algeria, Angola, Ecuador, the Islamic Republic of Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates and Venezuela. However, as in previous years, it also includes data about non-OPEC oil producing countries, as well as regional imports and exports, oil and gas pipelines, and the global petroleum industry in general.

For more than 50 years, OPEC has made efforts to collect data about all aspects of the oil industry — from exploration and production, to transportation and refining. By ensuring the availability of such data, OPEC has increasingly enhanced its role in the stabilization of the world oil market. The continuing publication of the ASB thus underscores our ongoing commitment to data transparency as a key element of oil market stability.

In order to ensure that the ASB is widely accessible, the 2012 ASB is again available in a variety of formats, including a book edition and a CD-ROM (attached to the inside front cover), an electronic PDF file (which can also be downloaded from the OPEC Website) and an interactive electronic version (also available on the OPEC Website).

The 2012 ASB would not have been possible without the valuable input of many people at the OPEC Secretariat and in our Member Countries. I would like to thank them for their diligence and commitment. Their continuing hard work has made the existence and availability of publications like the ASB possible — and has helped to ensure the fulfillment of the Organization's commitment to data transparency and market stability.

A handwritten signature in black ink, consisting of a large, sweeping loop followed by a vertical line and some smaller, less distinct characters.

Abdalla Salem El-Badri
Secretary General

Section 1 Summary



Table 1.1

Summary

OPEC crude oil production allocations (1,000 b/d)

	Apr 82– Mar 83	Apr 83– Oct 84	Nov 84– Aug 86	Sep 86– Oct 86	Nov 86	Dec 86	Jan 87– Jun 87	Jul 87– Dec 87	Jan 88– Dec 88	Jan 89– Jun 89	Jul 89– Sep 89
	1/	2/	3/	4/	5/	6/	7/	8/	9/	10/	11/
Algeria	650	725	663	663	669	669	635	667	667	695	733
Ecuador	200	200	183	183	221	221	210	221	221	230	242
IR Iran	1,200	2,400	2,300	2,300	2,317	2,317	2,255	2,369	2,369	2,640	2,783
Iraq	1,200	1,200	1,200	1,200	–	–	1,466	1,540	–	2,640	2,783
Kuwait	800	1,050	900	900	921	999	948	996	996	1,037	1,093
Libya	750	1,100	990	990	999	999	948	996	996	1,037	1,093
Nigeria	1,300	1,300	1,300	1,300	1,304	1,304	1,238	1,301	1,301	1,355	1,428
Qatar	300	300	280	280	300	300	285	299	299	312	329
Saudi Arabia	7,150	5,000	4,353	4,353	4,353	4,353	4,133	4,343	4,343	4,524	4,769
United Arab Emirates	1,000	1,100	950	950	950	950	902	948	948	988	1,041
Venezuela	1,500	1,675	1,555	1,555	1,574	1,574	1,495	1,571	1,571	1,636	1,724
OPEC	16,050	16,050	14,674	14,674			14,515	15,251		17,094	18,018
OPEC excl Iraq					13,608	13,686			13,711		

	Oct 89– Dec 89	Jan 90– Jul 90	Aug 90	Apr 91– Sep 91	Oct 91– Jan 92	Feb 92– Sep 92	Oct 92– Dec 92	Jan 93– Feb 93	Mar 93– Sep 93	Oct 93– Jun 96	Jul 96– Dec 97
	12/	13/	14/	15/	16/	17/	18/	19/	20/	21/	22/
Algeria	771	827	827	827	na	760	na	764	732	750	750
Ecuador	254	273	273	273	na	273	na	–	–	–	–
IR Iran	2,926	3,140	3,140	3,217	na	3,184	na	3,490	3,340	3,600	3,600
Iraq	2,926	3,140	3,140	–	na	505	na	500	400	400	1,200
Kuwait	1,149	1,500	1,500	–	na	812	na	1,500	1,600	2,000	2,000
Libya	1,149	1,233	1,233	1,425	na	1,395	na	1,409	1,350	1,390	1,390
Nigeria	1,501	1,611	1,611	1,840	na	1,751	na	1,857	1,780	1,865	1,865
Qatar	346	371	371	399	na	377	na	380	364	378	378
Saudi Arabia	5,014	5,380	5,380	8,034	na	7,887	na	8,395	8,000	8,000	8,000
United Arab Emirates	1,094	1,095	1,500	2,320	na	2,244	na	2,260	2,161	2,161	2,161
Venezuela	1,812	1,945	1,945	2,235	na	2,147	na	2,360	2,257	2,359	2,359
OPEC	18,942	20,515	20,920	20,570*	23,650*	21,335	24,200*	22,915	21,984	22,903	23,703

Notes: Totals may not add up due to independent rounding. Angola joined OPEC in January 2007; Ecuador suspended its membership from December 1992 to October 2007.

– No production level allocated.

na No distribution made.

OPEC excluding Kuwait and Iraq.

OPEC excluding IR Iran and Iraq.

* Includes Indonesia and Gabon.

** Includes Indonesia.

Agreed at the:

- 1/ 63rd (Extraordinary) Meeting of the OPEC Conference, March 19–20, 1982.
- 2/ 67th (Extraordinary) Meeting of the OPEC Conference, March 14, 1983. No production level allocated to Saudi Arabia which acted as the swing producer. Venezuela: 1.7m b/d including condensates. Nigeria: At the 70th Meeting of the OPEC Conference, July 10–11, 1984, a temporary production rise to 1.4m b/d and 1.45m b/d in August 1984 and September 1984, respectively, was decided.
- 3/ 71st (Extraordinary) Meeting of the OPEC Conference, October 29–31, 1984. Retained at the 75th (Extraordinary) Meeting of the OPEC Conference, October 4, 1985.
- 4/ 78th Meeting of the OPEC Conference, June 25–30, 1986, and July 28–August 5, 1986, with the exception of Iraq.
- 5/ 79th (Extraordinary) Meeting of the OPEC Conference, October 6–22, 1986, with the exception of Iraq.
- 6/ 79th (Extraordinary) Meeting of the OPEC Conference, October 6–22, 1986, with the exception of Iraq.
- 7/ 80th Meeting of the OPEC Conference, December 11–20, 1986.
- 8/ 81st Meeting of the OPEC Conference, June 25–27, 1987.
- 9/ 82nd Meeting of the OPEC Conference, December 9–14, 1987, with the exception of Iraq. Extended at the 83rd Meeting of the OPEC Conference, June 11–14, 1988, with the exception of Iraq.
- 10/ 84th Meeting of the OPEC Conference, November 21–28, 1988.
- 11/ 85th Meeting of the OPEC Conference, June 5–7, 1989.
- 12/ 3rd Meeting of the Eight-Minister Monitoring Committee, September 23–27, 1989.
- 13/ 86th Meeting of the OPEC Conference, November 25–28, 1989.
- 14/ 87th Meeting of the OPEC Conference, July 26–27, 1990. September 2000–March 2001: Oil Ministers' informal consultations and 1st Ministerial Monitoring Committee, August 26–29, 1990 (interim course of action: OPEC shall consequently increase production in accordance with need). Retained August 1990 agreement at the 88th Meeting of the OPEC Conference, December 12–13, 1990.
- 15/ 3rd Meeting of the Ministerial Monitoring Committee, March 11–12, 1991. Reservations were made by Algeria and IR Iran as to the total OPEC production level. Reiterated without reservations at the 89th Meeting of the OPEC Conference, June 4, 1991.
- 16/ 4th Meeting of the Ministerial Monitoring Committee, September 24–25, 1991. Retained at the 90th Meeting of the Conference, November 26–27, 1991.
- 17/ 6th Meeting of the Ministerial Monitoring Committee, February 12–15, 1992. Reservations were made by IR Iran as to the total OPEC production level and by Saudi Arabia as to their allocated production level. Rollover (inclusive of reservations) at the 91st Meeting of the OPEC Conference, May 21–22, 1992. The Conference also decided to allow any additional production from Kuwait.
- 18/ 9th Meeting of the Ministerial Monitoring Committee, September 16–17, 1992. Reaffirmed to allow for any additional production from Kuwait.
- 19/ 92nd Meeting of the OPEC Conference, November 25–27, 1992, with full support of Member Countries, except Iraq and the allowance of additional volumes to Kuwait as they become available during the 1Q93.
- 20/ 10th Meeting of the Ministerial Monitoring Committee, February 13–16, 1993 with full support of Member Countries, except Iraq. Rollover of this agreement at the 93rd Meeting of the OPEC Conference, June 8–10, 1993, with full support of Member Countries, except Iraq and Kuwait.

OPEC crude oil production allocations (1,000 b/d)

	Jan 98– Mar 98	Apr 98– Jun 98	Jul 98– Mar 99	Apr 99– Mar 00	Apr 00– Jun 00	Jul 00– Sep 00	Oct 1, 00– Oct 30, 00	Oct 31, 00 –Jan 01	Feb 01– Mar 01	Apr 01– Aug 01
	23/	24/	25/	26/	27/	28/	29/	30/	31/	32/
Algeria	909	50	788	731	788	811	837	853	805	773
IR Iran	3,942	140	3,318	3,359	–	3,727	3,844	3,917	3,698	3,552
Iraq	1,314	–	–	–	–	–	–	–	–	–
Kuwait	2,190	125	1,980	1,836	1,980	2,037	2,101	2,141	2,021	1,941
Libya	1,522	80	1,323	1,227	1,323	1,361	1,404	1,431	1,350	1,296
Nigeria	2,042	125	2,033	1,885	2,033	2,091	2,157	2,198	2,075	1,993
Qatar	414	30	640	593	640	658	679	692	653	627
Saudi Arabia	8,761	300	8,023	7,438	8,023	8,253	8,512	8,674	8,189	7,865
United Arab Emirates	2,366	125	2,157	2,000	2,157	2,219	2,289	2,333	2,201	2,113
Venezuela	2,583	200	2,845	2,720	2,845	2,926	3,019	3,077	2,902	2,786
OPEC	26,044									
OPEC excl Iraq		1,175	23,107	21,789	19,789##	24,083	24,841	25,315	23,894	22,946
Target		24,432								

	Sep 01– Dec 01	Jan 02– Dec 02	Jan 03	Feb 03– May 03	Jun 03– Oct 03	Nov 03– Mar 04	Apr 04– Jun 04	Jul 04	Aug 04– Oct 04	Nov 1, 04– Mar 16, 05
	33/	34/	35/	36/	37/	38/	39/	40/	41/	42/
Algeria	741	693	735	782	811	782	750	814	830	862
IR Iran	3,406	3,186	3,377	3,597	3,729	3,597	3,450	3,744	3,817	3,964
Iraq	–	–	–	–	–	–	–	–	–	–
Kuwait	1,861	1,741	1,845	1,966	2,038	1,966	1,886	2,046	2,087	2,167
Libya	1,242	1,162	1,232	1,312	1,360	1,312	1,258	1,365	1,392	1,446
Nigeria	1,911	1,787	1,894	2,018	2,092	2,018	1,936	2,101	2,142	2,224
Qatar	601	562	596	635	658	635	609	661	674	700
Saudi Arabia	7,541	7,053	7,476	7,963	8,256	7,963	7,638	8,288	8,450	8,775
United Arab Emirates	2,025	1,894	2,007	2,138	2,217	2,138	2,051	2,225	2,269	2,356
Venezuela	2,670	2,497	2,647	2,819	2,923	2,819	2,704	2,934	2,992	3,107
OPEC excl Iraq	21,998	20,575	21,809	23,230	24,083	23,230	22,282	24,178	24,653	25,601

- 21/ 94th (Extraordinary) Meeting of the OPEC Conference, September 25–29, 1993, with full support of Member Countries, except Iraq. Maintained at the 12th Meeting of the Ministerial Monitoring Committee, March 25–26, 1994, with full support of Member Countries, except Iraq. Maintained at the 97th, 98th and 99th Meeting of the OPEC Conference, November 21–22, 1994, June 19–20, 1995, and November 21–22, 1995, respectively.
- 22/ 100th Meeting of the OPEC Conference, June 5–7, 1996. The remaining volume of 1.2m b/d is to be supplied by Iraq. Rollover of the agreement at the 101st and the 102nd Meeting of the OPEC Conference, November 27–28, 1996, and June 25–26, 1997, respectively.
- 23/ 103rd Meeting of the OPEC Conference, November 26–December 1, 1997. The remaining volume of 1,314,080 b/d is to be supplied by Iraq.
- 24/ 104th Meeting (Extraordinary) of the OPEC Conference, March 30, 1998. Data reflect temporary production cuts from OPEC excluding Iraq production in February 1998 as reported by selected secondary sources. Iraq is not called upon to participate in this agreement.
- 25/ 105th Meeting of the OPEC Conference, June 24, 1998. Iraq is not called upon to participate in this agreement.
- 26/ 107th Meeting of the OPEC Conference, March 23, 1999. Reaffirmed strong commitment to the agreement at the 108th Meeting of the OPEC Conference, September 22, 1999. Iraq is not called upon to participate in this agreement.
- 27/ 109th Meeting of the OPEC Conference, March 27–29, 2000. Agreement of OPEC Member Countries excluding IR Iran and Iraq.
- 28/ 110th (Extraordinary) Meeting of the OPEC Conference, June 21, 2000. Iraq is not called upon to participate in this agreement.
- 29/ 111th Meeting of the OPEC Conference, September 10–11, 2000. Iraq is not called upon to participate in this agreement.
- 30/ 111th Meeting of the OPEC Conference, September 10–11, 2000; including additional 500,000 b/d (price band mechanism) as announced by the OPEC President on October 30, 2000, and effective from October 31, 2000. Iraq is not called upon to participate in this agreement.
- 31/ 113th (Extraordinary) Meeting of the OPEC Conference, January 17, 2001. Iraq is not called upon to participate in this agreement.
- 32/ 114th Meeting of the OPEC Conference, March 16–17, 2001. Retained at the 115th (Extraordinary) and 116th (Extraordinary) Meeting of the OPEC Conference, June 5 and July 3, 2001, respectively. Iraq is not called upon to participate in this agreement.
- 33/ OPEC Conference, July 25, 2001. Retained at the 117th Meeting of the OPEC Conference, September 26–27, 2001. Iraq is not called upon to participate in this agreement.
- 34/ Announced during the 118th (Extraordinary) Meeting of the OPEC Conference, November 14, 2001, and confirmed its implementation during the Consultative Meeting of the OPEC Conference in Cairo, December 28, 2001. Retained at the 119th (Extraordinary), 120th (Extraordinary) and 121st Meeting of the OPEC Conference, March 15, June 26 and September 19, 2002, respectively. Iraq is not called upon to participate in this agreement.
- 35/ 122th (Extraordinary) Meeting of the OPEC Conference, December 12, 2002. Iraq is not called upon to participate in this agreement.
- 36/ 123rd (Extraordinary) Meeting of the OPEC Conference, January 12, 2003. Retained at the 124th Meeting of the OPEC Conference, March 11, 2003. Iraq is not called upon to participate in this agreement.
- 37/ Consultative Meeting of the OPEC Conference, April 24, 2003. Retained at the 125th (Extraordinary) and 126th (Extraordinary) Meeting of the OPEC Conference, June 11 and July 31, 2003, respectively. Iraq is not called upon to participate in this agreement.
- 38/ 127th Meeting of the OPEC Conference, September 24, 2003. Retained at the 128th (Extraordinary) and 129th (Extraordinary) Meeting of the OPEC Conference, December 4, 2003, and February 10, 2004, respectively. Iraq is not called upon to participate in this agreement.
- 39/ 129th (Extraordinary) Meeting of the OPEC Conference, February 10, 2004. Reconfirmed at the 130th Meeting of the OPEC Conference, March 31, 2004. Iraq is not called upon to participate in this agreement.
- 40/ 131st (Extraordinary) Meeting of the OPEC Conference, June 3, 2004. Iraq is not called upon to participate in this agreement.
- 41/ 131st (Extraordinary) Meeting of the OPEC Conference, June 3, 2004. Iraq is not called upon to participate in this agreement.
- 42/ 132nd Meeting of the OPEC Conference, September 15, 2004. Iraq is not called upon to participate in this agreement. During the 133rd (Extraordinary) Meeting of the OPEC Conference, December 10, 2004, Member Countries agreed to collectively reduce the over-production by 1m b/d from their current actual output, effective January 1, 2005. Agreement of 132nd Meeting is retained at the 134th (Extraordinary) Meeting of the OPEC Conference, January 30, 2005.

Table 1.1

S u m m a r y

OPEC crude oil production allocations (1,000 b/d)

	Mar 17, 05– Jun 30, 05	Jul 05– Oct 06	Nov 06– Jan 07	Feb 07– Oct 07	Nov 07– Dec 07	Jan 08– Sep 08	Oct 08	Nov 08– Dec 08	Jan 09– Dec 11	Jan 12–
	43/	44/	45/	46/	47/	48/	49/	50/	51/	52/
Algeria	878	894	59	25	na	na	na	71	na	na
Angola	–	–	–	–	–	na	na	99	na	na
Ecuador	–	–	–	–	–	na	na	27	na	na
IR Iran	4,037	4,110	176	73	na	na	na	199	na	na
Iraq	–	–	–	–	–	–	–	–	–	na
Kuwait	2,207	2,247	100	42	na	na	na	132	na	na
Libya	1,473	1,500	72	30	na	na	na	89	na	na
Nigeria	2,265	2,306	100	42	na	na	na	113	na	na
Qatar	713	726	35	15	na	na	na	43	na	na
Saudi Arabia	8,937	9,099	380	158	na	na	na	466	na	na
United Arab Emirates	2,400	2,444	101	42	na	na	na	134	na	na
Venezuela	3,165	3,223	138	57	na	na	na	129	na	na
OPEC excl Iraq	26,075	26,549								
OPEC excl Angola, Ecuador and Iraq			1,161	484	500**			1,500		
Target OPEC excl Angola, Ecuador and Iraq			26,300**	25,800**	27,253**					
Target OPEC excl Iraq						29,673**	28,808	27,308	24,845	
Target OPEC										30,000

43/ 135th Meeting of the OPEC Conference, March 16, 2005. Iraq is not called upon to participate in this agreement. The President of the Conference is authorized, after consultation with fellow Heads of Delegation, to announce an additional 500,000 b/d increase until its next Meeting, if prices remain at current high levels or continue to further rise.

44/ 136th (Extraordinary) Meeting of the OPEC Conference, June 15, 2005. Iraq is not called upon to participate in this agreement. The President of the Conference is authorized, after consultation with fellow Heads of Delegation, to announce an additional 500,000 b/d increase until its next Meeting, if prices remain at current high levels or continue to further rise. The 137th OPEC Conference, September 20, 2005, agreed to make available to the market the spare capacity of 2m b/d, should it be called for, for a period of three months, starting October 1, 2005. The 138th (December 12, 2005), the 139th (Extraordinary, January 31, 2006), the 140th (March 8, 2006) and the 141st (Extraordinary, June 1, 2006) Conference retained the OPEC production level as agreed on June 15, 2005.

45/ Consultative Meeting of the OPEC Conference, October 19–20, 2006. Data reflect interim production cuts from OPEC excluding Iraq production in September 2006. Iraq is not called upon to participate in this agreement.

46/ 143rd (Extraordinary) Meeting of the OPEC Conference, December 14, 2006. Data reflect a further production cut to the decision taken in Doha, October 19–20 2006. Iraq is not called upon to participate in this agreement.

47/ 145th Meeting of the OPEC Conference, September 11, 2007. Angola and Iraq are not called upon to participate in this agreement. Data reflect production increase of 500,000 b/d for OPEC (excluding Angola and Iraq) to achieve 27.253m b/d.

48/ 146th (Extraordinary) Meeting of the OPEC Conference, December 5, 2007. Iraq is not called upon to participate in the agreement.

49/ 149th Meeting of the OPEC Conference, September 9–10, 2008: The Conference agreed to abide to September 2007 production allocations (adjusted to include new Members Angola and Ecuador and excluding Indonesia and Iraq), totalling to 28.8m b/d. Indonesia suspended its full Membership in the Organization.

50/ 150th (Extraordinary) Meeting of the OPEC Conference, October 24, 2008: Data reflect a production cut of 1.5m b/d to achieve 27.31m b/d. Iraq is not called upon to participate in the agreement.

51/ The 151th (Extraordinary) Meeting of the Conference, December 17, 2008, agreed to reduce OPEC excluding Iraq production by total of 4.2m b/d from September levels of the actual production based on secondary sources. Iraq is not called upon to participate in the agreement.

52/ The 160th Meeting of the Conference, December 14, 2011, decided to maintain the total OPEC's production level of 30.0m b/d.

OPEC Members' facts and figures, 2011

	Algeria	Angola	Ecuador	IR Iran	Iraq	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia	UAE	Venezuela	OPEC
Population <i>million inhabitants</i>	36.70	17.99	14.48	75.86	33.33	3.70	6.48	163.32	1.77	28.17	4.85	29.07	415.73
Land area <i>1,000 sq km</i>	2,382	1,247	281	1,648	438	18	1,760	924	11	2,150	84	916	11,859
GDP per capita <i>dollars</i>	5,196	5,611	4,553	6,360	5,675	47,787	5,691	1,443	98,144	20,505	74,235	10,864	6,989
GDP at market prices <i>billion \$</i>	190.71	100.95	65.95	482.45	189.15	176.67	36.87	235.69	173.52	577.60	360.14	315.84	2,905.52
Value of exports <i>billion \$</i>	73.39	65.69	22.29	130.54	85.64	103.49	16.46	108.30	107.10	360.09	252.56	92.60	1,418.14
Value of imports <i>billion \$</i>	46.45	21.74	22.95	68.32	50.58	25.27	10.10	63.95	25.67	129.02	210.94	46.44	721.43
Current account balance <i>billion \$</i>	21.08	8.18	-0.70	51.43	21.76	73.87	5.06	17.85	53.57	141.09	33.31	27.21	453.71
Value of petroleum exports <i>billion \$</i>	51.40	64.43	14.02	114.75	83.01	96.72	11.82	86.20	44.75	318.48	104.54	88.13	1,078.27
Proven crude oil reserves <i>billion barrels</i>	12.20	10.47	8.24	154.58	141.35	101.50	48.01	37.20	25.38	265.41	97.80	297.57	1,199.71
Natural gas reserves <i>billion cu m</i>	4,504.00	366.00	7.00	33,620.00	3,158.00	1,784.00	1,547.00	5,154.00	25,110.00	8,151.00	6,091.00	5,528.00	95,020.00
Crude oil production <i>1,000 b/d</i>	1,162	1,618	500	3,576	2,653	2,659	489	1,975	734	9,311	2,565	2,881	30,122
Natural gas marketed production <i>billion cu m</i>	82.77	0.75	0.24	188.75	0.88	13.53	7.86	41.32	116.70	92.26	52.31	20.77	618.14
Refinery capacity <i>1,000 b/cd</i>	652	38	188	1,772	800	936	380	445	80	2,107	466	1,016	8,881
Oil consumption <i>1,000 b/d</i>	329	90	256	1,777	752	361	231	267	125	2,714	618	742	8,261
Crude oil exports <i>1,000 b/d</i>	698	1,543	334	2,537	2,166	1,816	300	2,377	588	7,218	2,330	1,553	23,457
Exports of petroleum products <i>1,000 b/d</i>	492.2	26.4	28.8	441.3	163.8	629.2	20.6	23.6	508.8	902.2	226.9	786.3	4,250.2
Natural gas exports <i>billion cu m</i>	52.02	-	-	9.11	-	-	3.67	25.94	113.70	-	5.18	-	209.618
Exchange rate <i>national currency/\$</i>	72.9	93.7	1.0	10,616.0	1,170.0	0.3	1.2	153.9	3.6	3.8	3.7	4.3	

Notes: Totals may not add up due to independent rounding.

Section 2

Macro-economics



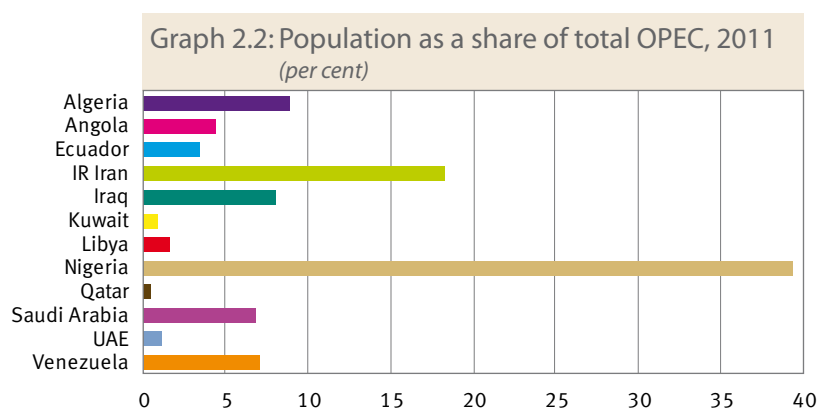
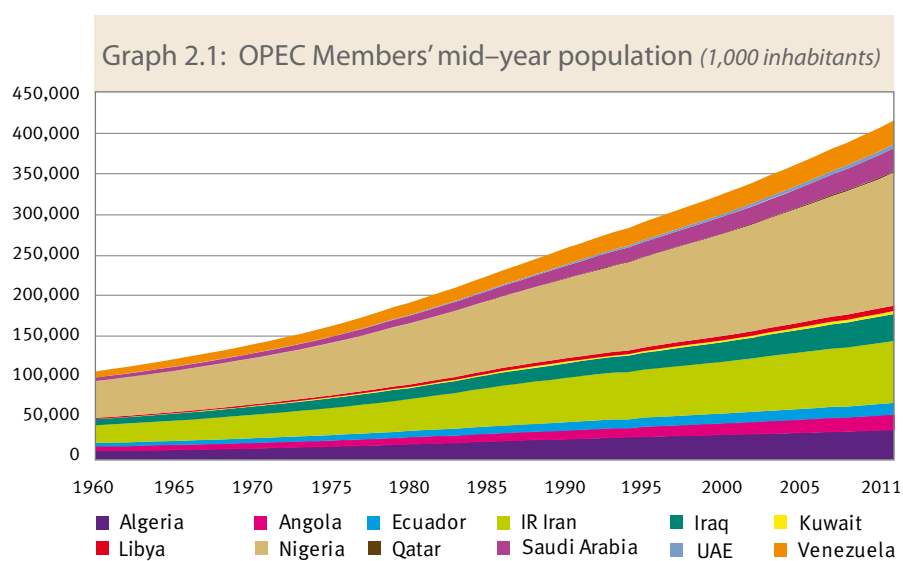
Table 2.1

Macro-economics

OPEC Members' mid-year population (1,000 inhabitants)

	2007	2008	2009	2010	2011
Algeria	34,096	34,591	35,268	35,978	36,700
Angola	16,541	16,368	16,889	17,430	17,992
Ecuador	13,605	13,805	14,005	14,307	14,483
IR Iran	71,532	72,584	73,651	74,733	75,859
Iraq	29,682	30,578	31,664	32,482	33,331
Kuwait	3,400	3,442	3,485	3,582	3,697
Libya	6,169	6,294	6,420	6,548	6,479
Nigeria	147,722	151,212	154,729	158,260	163,324
Qatar	1,226	1,448	1,639	1,700	1,768
Saudi Arabia	24,941	25,787	26,661	27,563	28,169
United Arab Emirates	4,364	4,485	4,599	4,710	4,851
Venezuela	27,286	27,732	28,181	28,629	29,072
OPEC	380,564	388,326	397,191	405,922	415,726

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.



OPEC Members' GDP at current market prices (*m \$*)

	2007	2008	2009	2010	2011
Algeria	135,012	171,718	138,147	161,976	190,709
Angola	60,449	84,178	75,508	82,471	100,948
Ecuador	45,789	54,686	52,022	56,998	65,945
IR Iran	307,355	350,588	360,625	419,118	482,445
Iraq	86,125	130,204	110,968	134,463	189,151
Kuwait	114,569	147,544	105,933	124,247	176,667
Libya	68,567	97,681	62,959	80,442	36,874
Nigeria	175,110	183,282	165,758	225,573	235,695
Qatar	79,712	115,270	97,798	127,332	173,519
Saudi Arabia	384,686	476,305	376,692	447,762	577,595
United Arab Emirates	258,150	314,845	270,335	297,648	360,136
Venezuela	230,622	315,953	329,788	304,487	315,841
OPEC	1,946,145	2,442,253	2,146,533	2,462,516	2,905,525

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

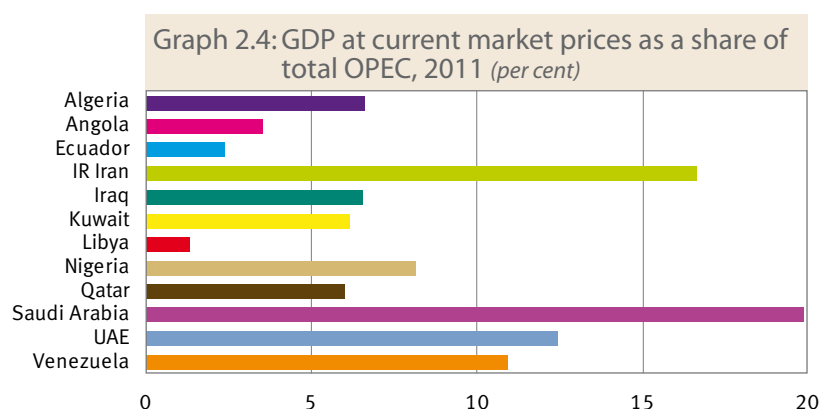
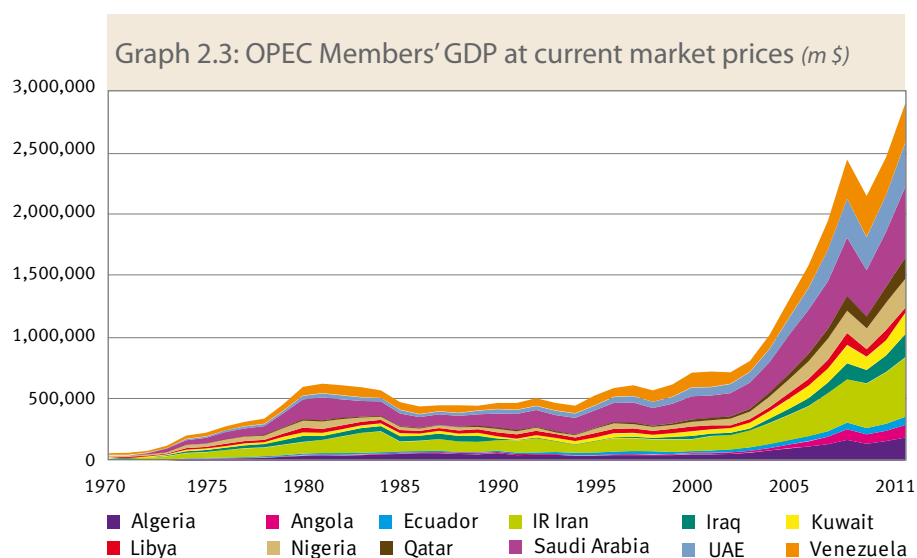


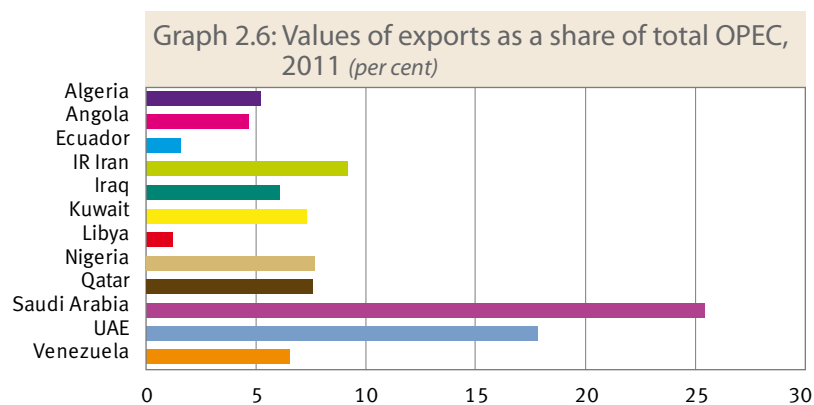
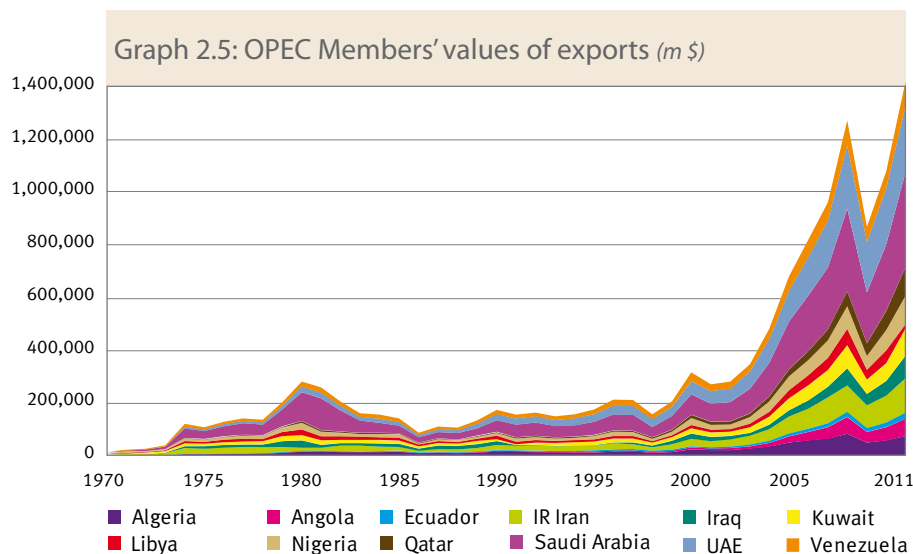
Table 2.3

Macro-economics

OPEC Members' values of exports (*m \$*)

	2007	2008	2009	2010	2011
Algeria	63,455	82,035	48,522	57,090	73,390
Angola	44,396	63,914	40,828	50,595	65,689
Ecuador	14,321	18,511	13,799	17,369	22,292
IR Iran	97,668	101,289	87,534	101,950	130,544
Iraq	40,448	63,726	42,405	54,599	85,635
Kuwait	62,498	87,446	53,974	67,036	103,490
Libya	46,970	61,950	37,055	48,935	16,463
Nigeria	66,969	86,967	52,657	77,844	108,296
Qatar	41,491	55,727	48,306	72,790	107,095
Saudi Arabia	233,174	313,462	192,296	251,143	360,092
United Arab Emirates	178,606	239,180	191,776	212,262	252,556
Venezuela	69,980	95,021	57,603	65,745	92,602
OPEC	959,977	1,269,228	866,757	1,077,358	1,418,145

Notes: Revisions have been made throughout the time series. Totals may not add up due to independent rounding.



OPEC Members' values of petroleum exports (m \$)

	2007	2008	2009	2010	2011
Algeria	44,481	53,706	30,584	38,209	51,405
Angola	43,004	62,457	39,803	49,352	64,434
Ecuador	8,329	11,643	6,965	9,649	14,023
IR Iran	69,248	89,855	55,746	72,228	114,751
Iraq	39,433	61,111	41,668	52,290	83,006
Kuwait	59,006	82,672	48,914	61,754	96,724
Libya	42,852	60,199	36,966	46,115	11,823
Nigeria	51,170	74,305	44,732	65,674	86,204
Qatar	22,817	28,156	19,134	31,474	44,751
Saudi Arabia	205,452	280,998	161,914	215,385	318,480
United Arab Emirates	73,816	102,073	52,871	66,864	104,543
Venezuela	62,652	89,034	54,201	62,317	88,131
OPEC	722,258	996,209	593,497	771,310	1,078,275

Notes: Totals may not add up due to independent rounding. Where applicable, petroleum product exports are included. Data for some countries may include condensates as well as other NGLs. Iraq data excludes border trades. Some countries import substantial amounts of crude and products, resulting in lower net revenue from petroleum operations.

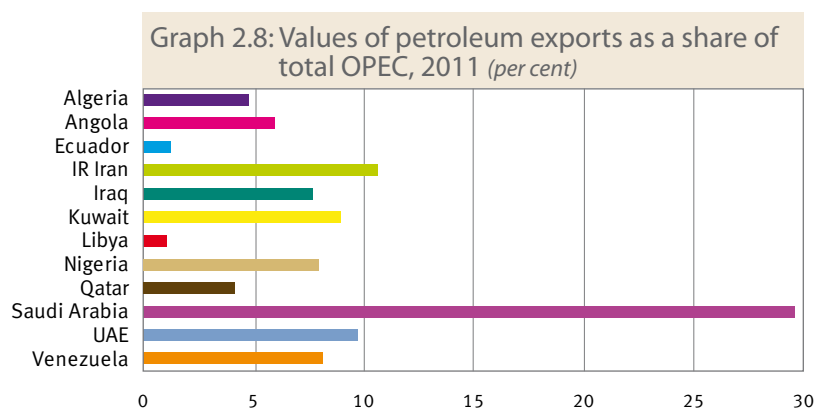
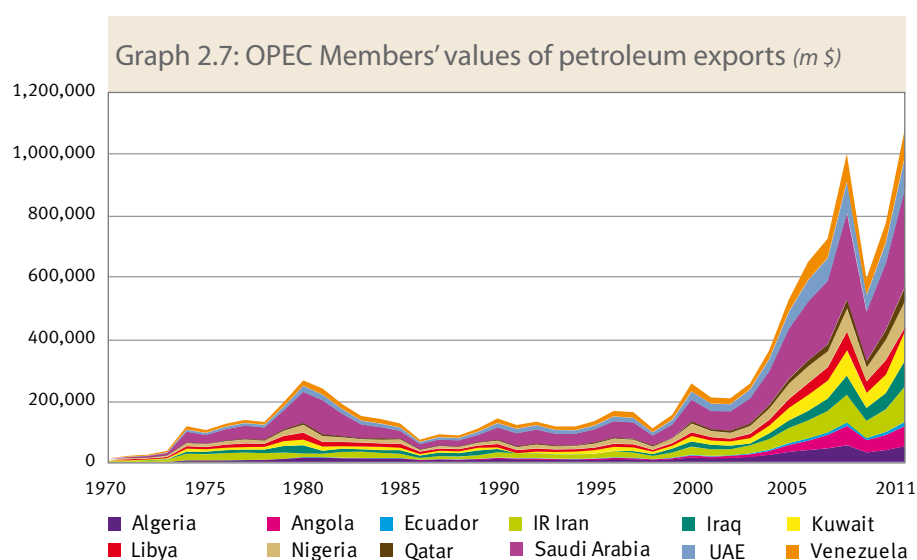


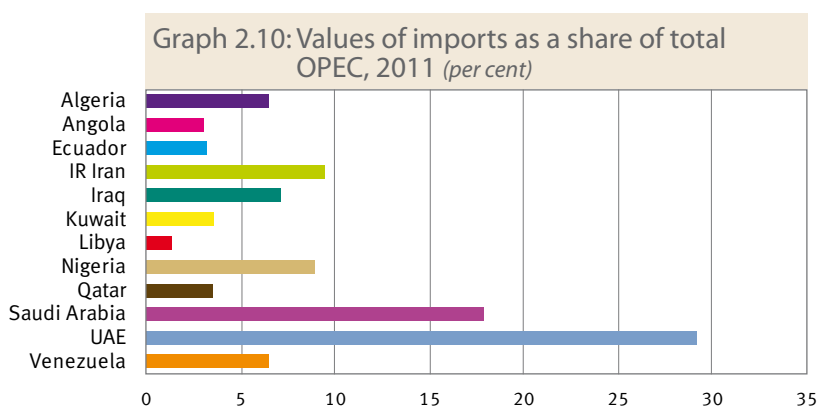
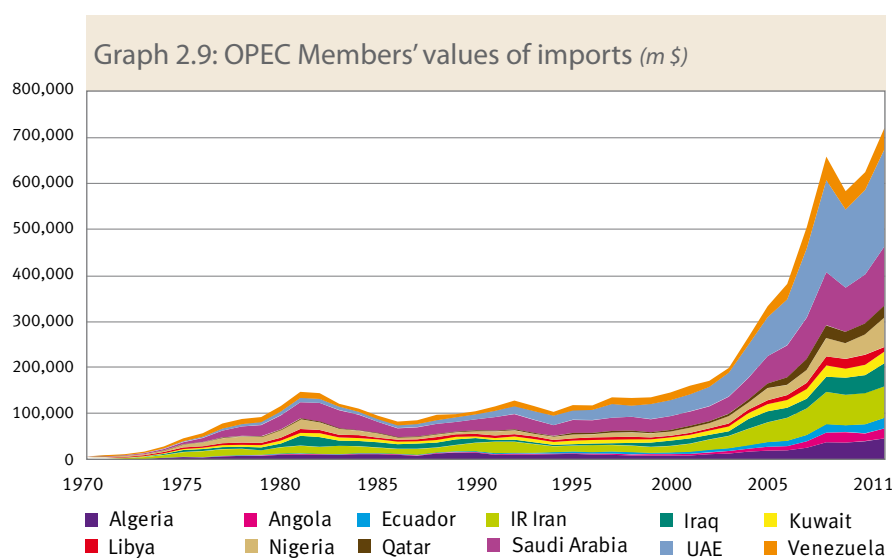
Table 2.5

Macro-economics

OPEC Members' values of imports (*m \$*)

	2007	2008	2009	2010	2011
Algeria	26,350	37,990	37,400	40,472	46,453
Angola	13,662	20,982	22,660	16,667	21,736
Ecuador	13,893	18,685	15,093	19,961	22,946
IR Iran	58,240	70,199	66,598	65,769	68,319
Iraq	21,332	32,888	36,858	39,275	50,581
Kuwait	21,313	24,872	20,340	22,413	25,267
Libya	12,954	19,644	21,165	21,940	10,104
Nigeria	28,291	39,844	33,747	44,129	63,949
Qatar	23,430	27,900	24,922	23,240	25,672
Saudi Arabia	90,157	115,134	95,544	106,863	129,017
United Arab Emirates	150,103	200,300	170,127	183,430	210,945
Venezuela	46,660	50,971	39,646	38,613	46,441
OPEC	506,385	659,410	584,100	622,772	721,430

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series. All figures cif.



Estimated current account balances in OPEC Members (*m \$*)

	2007	2008	2009	2010	2011
Algeria	30,540	34,450	410	12,160	21,080
Angola	10,581	7,194	-7,572	7,421	8,183
Ecuador	1,650	1,120	-306	-1,036	-701
IR Iran	32,597	22,837	9,473	25,275	51,427
Iraq	19,992	32,344	-1,143	6,430	21,758
Kuwait	41,307	60,310	25,783	36,796	73,870
Libya	28,510	35,702	9,381	16,801	5,063
Nigeria	27,881	28,257	13,299	7,429	17,853
Qatar	9,021	15,880	6,688	21,041	53,573
Saudi Arabia	93,329	132,322	20,955	66,752	141,094
United Arab Emirates	17,737	24,766	9,073	9,135	33,308
Venezuela	17,345	34,275	6,035	12,071	27,205
OPEC	330,490	429,458	92,075	220,276	453,713

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

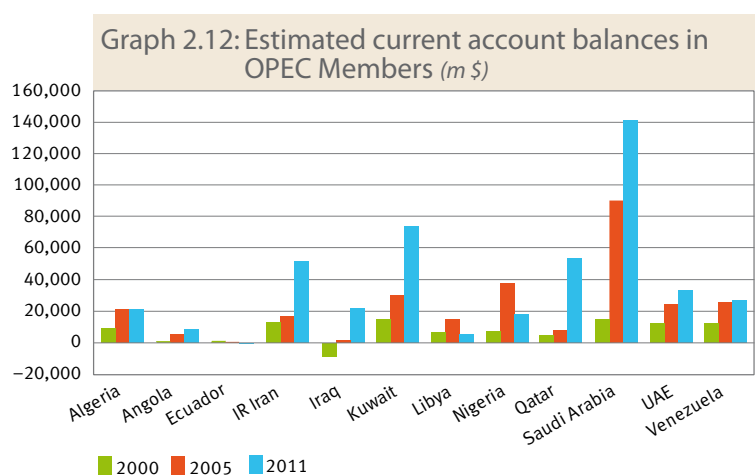
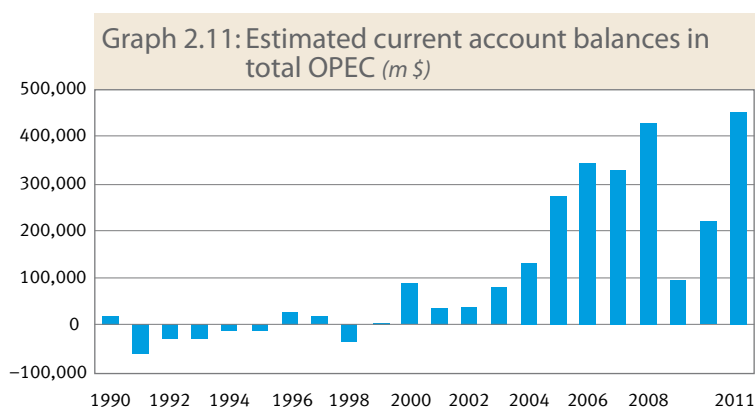


Table 2.7

Macro-economics

Annual average exchange rates for OPEC Members (*units of national currency/\$*)

	2007	2008	2009	2010	2011	% change 11/10
Algeria	69.292	64.583	72.647	74.386	72.938	-1.9
Angola	76.706	75.033	79.328	91.906	93.741	2.0
Ecuador	1.000	1.000	1.000	1.000	1.000	-
IR Iran	9,281.150	9,428.530	9,864.300	10,254.200	10,616.000	3.5
Iraq	1,254.570	1,193.080	1,170.000	1,170.000	1,170.000	-
Kuwait	0.284	0.269	0.288	0.287	0.276	-3.7
Libya	1.263	1.224	1.254	1.267	1.212	-4.3
Nigeria	125.808	118.546	148.902	150.298	153.903	2.4
Qatar	3.640	3.640	3.640	3.640	3.640	-
Saudi Arabia	3.748	3.750	3.750	3.750	3.750	-
United Arab Emirates	3.673	3.673	3.673	3.673	3.673	-
Venezuela	2.166	2.166	2.148	2.586	4.289	65.9

Notes: Conversions to the US dollar are based on average annual market exchange rates; otherwise, official rates are applied. On January 1, 2008, the new Venezuelan bolivar (VEF), equivalent to 1,000 old bolivares (VEB), was introduced. In January 2010, a fixed dual exchange rate system for the bolivar was announced. The system offers a 2.6 bolivar per US dollar rate for imports of essential items such as food, medicine, and industrial machinery, and a 4.3 bolivar per US dollar rate for imports of other products, including cars and telephones.

Section 3

Oil and gas data



Table 3.1

Oil and gas data

World proven crude oil reserves by country (*m b*)

	2007	2008	2009	2010	2011	% change 11/10
North America	25,872	26,217	24,021	24,021	25,582	6.5
Canada ¹	4,900	4,900	4,900	4,900	4,900	–
United States	20,972	21,317	19,121	19,121	20,682	8.2
Latin America	137,422	210,210	248,820	334,881	340,782	1.8
Argentina	2,587	2,616	2,520	2,505	2,504	–
Brazil	12,624	12,624	12,802	12,857	13,986	8.8
Colombia	1,510	1,510	1,362	1,360	1,990	46.3
Ecuador	6,368	6,511	6,511	7,206	8,235	14.3
Mexico	12,187	11,866	11,692	11,692	13,800	18.0
Venezuela	99,377	172,323	211,173	296,501	297,571	0.4
Others	2,768	2,760	2,760	2,760	2,696	–2.3
Eastern Europe and Eurasia	122,519	125,503	126,177	126,930	126,994	0.1
Azerbaijan	7,000	7,000	7,000	7,000	7,000	–
Belarus	198	198	198	198	198	–
Kazakhstan	39,828	39,828	39,800	39,800	39,800	–
Russia	72,970	75,954	76,650	77,403	77,403	–
Turkmenistan	600	600	600	600	600	–
Ukraine	395	395	395	395	395	–
Uzbekistan	594	594	594	594	594	–
Others	934	934	940	940	1,004	6.8
Western Europe	15,006	14,318	13,282	12,940	12,648	–2.3
Denmark	1,113	1,113	1,060	812	900	10.8
Norway	8,168	7,491	7,078	7,078	6,700	–5.3
United Kingdom	3,593	3,590	3,100	2,800	2,800	–
Others	2,132	2,124	2,044	2,250	2,248	–0.1
Middle East	750,619	752,258	752,079	794,265	796,845	0.3
IR Iran	136,150	137,620	137,010	151,170	154,580	2.3
Iraq	115,000	115,000	115,000	143,100	141,350	–1.2
Kuwait	101,500	101,500	101,500	101,500	101,500	–
Oman	5,572	5,572	5,500	5,500	5,500	–
Qatar	25,090	25,405	25,382	25,382	25,382	–
Saudi Arabia	264,209	264,063	264,590	264,516	265,405	0.3
Syrian Arab Republic	2,500	2,500	2,500	2,500	2,500	–
United Arab Emirates	97,800	97,800	97,800	97,800	97,800	–
Others	2,798	2,798	2,798	2,798	2,828	1.1
Africa	121,349	122,207	124,171	130,139	128,578	–1.2
Algeria	12,200	12,200	12,200	12,200	12,200	–
Angola	9,500	9,500	9,500	13,048	10,470	–19.8
Egypt	4,070	4,340	4,300	4,400	4,500	2.3
Gabon	1,995	1,995	2,000	2,000	2,000	–
Libya	43,663	44,271	46,422	47,097	48,014	1.9
Nigeria	37,200	37,200	37,200	37,200	37,200	–
Sudan	6,700	6,700	6,700	6,700	6,700	–
Others	6,020	6,001	5,849	7,494	7,494	–
Asia and Pacific	40,223	41,568	44,226	44,187	50,097	13.4
Brunei	1,200	1,200	1,100	1,100	1,100	–
China	15,493	15,493	18,000	18,000	20,350	13.1
India	5,459	5,459	5,800	5,820	9,043	55.4
Indonesia	3,990	3,990	3,990	3,990	3,990	–
Malaysia	5,357	5,357	5,500	5,500	5,800	5.5
Vietnam	3,410	4,700	4,500	4,400	4,400	–
Australia	4,158	4,158	4,158	4,158	4,158	–
Others	1,156	1,211	1,178	1,219	1,256	3.0
Total world	1,213,008	1,292,280	1,332,776	1,467,363	1,481,526	1.0
<i>of which</i>						
OPEC	948,058	1,023,393	1,064,288	1,196,720	1,199,707	0.2
<i>OPEC percentage</i>	<i>78.2</i>	<i>79.2</i>	<i>79.9</i>	<i>81.6</i>	<i>81</i>	<i>–0.7</i>
OECD	57,457	56,799	53,405	53,126	56,542	6.4
FSU	121,684	124,668	125,336	126,089	126,089	–

Notes: Figures as at year–end. Totals may not add up due to independent rounding. Revisions have been made throughout the time series. For some countries condensates are included.

1. Data refers to conventional crude oil.

Table 3.2

Oil and gas data

World proven natural gas reserves by country (*billion standard cu m*)

	2007	2008	2009	2010	2011	% change 11/10
North America	8,360	9,168	9,168	8,760	9,900	13.0
Canada	1,630	1,700	1,700	1,685	1,700	0.9
United States	6,730	7,468	7,468	7,075	8,200	15.9
Latin America	7,768	8,017	8,065	8,341	7,903	-5.3
Argentina	440	428	399	379	359	-5.3
Bolivia	740	750	750	695	281	-59.6
Brazil	365	380	365	358	417	16.5
Chile	44	46	46	45	43	-4.4
Colombia	106	114	124	134	153	14.2
Ecuador	8	8	8	8	7	-12.5
Mexico	373	359	359	339	349	2.9
Peru	355	415	415	345	353	2.3
Trinidad & Tobago	480	500	500	480	381	-20.6
Venezuela	4,838	4,983	5,065	5,525	5,528	0.1
Others	19	34	34	33	32	-3.0
Eastern Europe and Eurasia	54,650	55,006	60,487	61,279	62,860	2.6
Armenia	165	164	164	164	180	9.8
Azerbaijan	1,285	1,325	1,359	1,310	1,317	0.5
Kazakhstan	1,900	1,910	1,950	1,950	1,913	-1.9
Poland	97	93	93	98	93	-5.1
Romania	628	629	629	606	595	-1.8
Russia	44,900	44,900	44,900	46,000	46,000	-
Turkmenistan	2,680	3,000	8,400	8,340	10,000	19.9
Ukraine	1,030	1,020	1,020	990	969	-2.1
Uzbekistan	1,755	1,745	1,745	1,682	1,661	-1.2
Others	210	220	227	139	132	-5.0
Western Europe	5,344	5,292	5,246	5,019	4,817	-4.0
Denmark	116	113	118	105	101	-3.8
Germany	137	119	119	98	87	-11.2
Italy	84	82	69	64	66	3.1
Netherlands	1,266	1,236	1,222	1,247	1,161	-6.9
Norway	2,961	2,985	2,985	2,819	2,762	-2.0
United Kingdom	647	625	601	564	520	-7.8
Others	133	132	132	122	120	-1.6
Middle East	73,643	75,289	75,540	78,890	79,575	1.0
IR Iran	28,080	29,610	29,610	33,090	33,620	1.6
Iraq	3,170	3,170	3,170	3,158	3,158	-
Kuwait	1,784	1,784	1,784	1,784	1,784	-
Oman	690	690	690	610	610	-
Qatar	25,636	25,466	25,366	25,201	25,110	-0.4
Saudi Arabia	7,305	7,570	7,920	8,016	8,151	1.7
United Arab Emirates	6,072	6,091	6,091	6,091	6,091	-
Others	906	908	908	939	1,050	11.8
Africa	14,608	14,735	14,782	14,497	14,715	1.5
Algeria	4,504	4,504	4,504	4,504	4,504	-
Angola	270	272	310	310	366	18.1
Cameroon	235	235	235	157	155	-1.3
Congo	130	130	130	130	127	-2.3
Egypt	2,060	2,170	2,170	2,185	2,210	1.1
Libya	1,540	1,540	1,549	1,495	1,547	3.5
Nigeria	5,292	5,292	5,292	5,110	5,154	0.9
Others	578	593	593	607	652	7.4
Asia and Pacific	15,180	15,394	16,425	15,763	16,394	4.0
Bangladesh	374	370	344	364	366	0.5
Brunei	343	350	350	309	301	-2.6
China	2,630	2,660	3,090	2,751	2,853	3.7
India	1,055	1,065	1,065	1,085	1,085	-
Indonesia	3,002	3,100	3,280	2,960	3,068	3.6
Malaysia	2,475	2,475	2,350	2,362	2,328	-1.4
Myanmar	600	590	590	510	522	2.4
Pakistan	850	852	843	818	810	-1.0
Thailand	317	304	340	360	300	-16.7
Vietnam	220	217	217	215	288	34.0
Australia	2,510	2,600	3,145	3,225	3,701	14.8
Others	804	811	811	804	772	-4.0
Total world	179,554	182,901	189,712	192,549	196,163	1.9
<i>of which</i>						
OPEC	88,500	90,290	90,669	94,292	95,020	0.8
OPEC share	49.3	49.4	47.8	49	48.4	-1.2
OECD	16,915	17,746	18,250	17,641	19,171	8.7
FSU	53,814	54,169	59,642	60,540	62,139	2.6

Notes: Figures as at year-end. Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

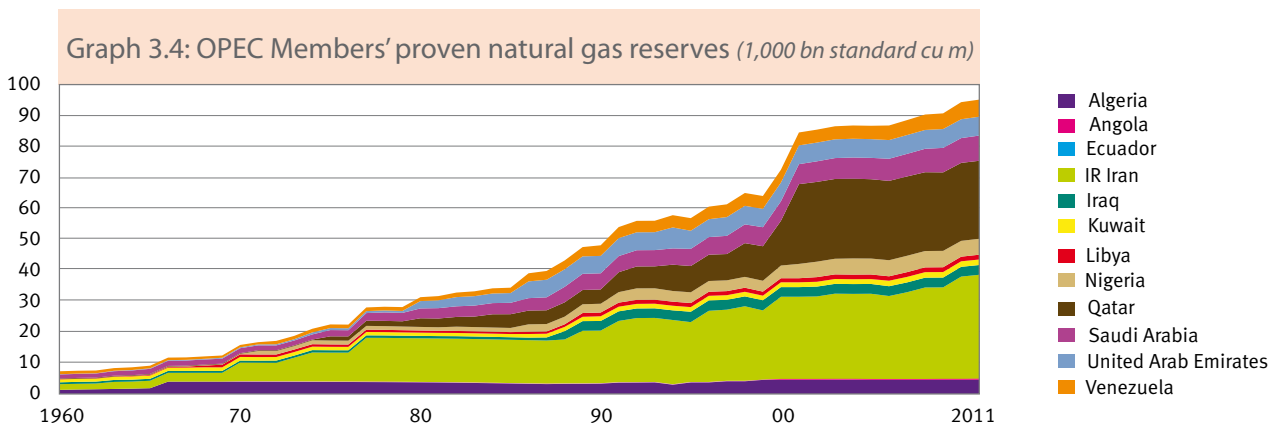
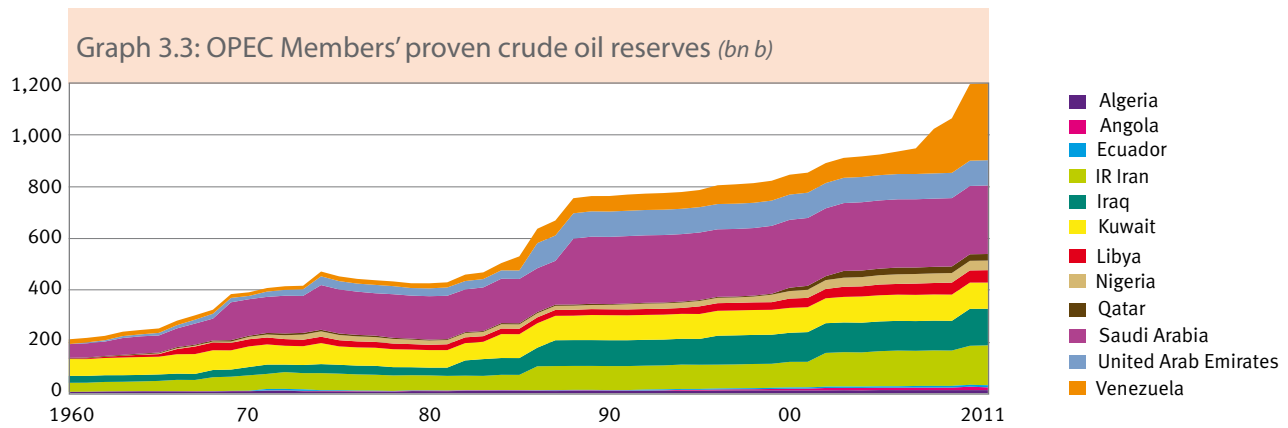
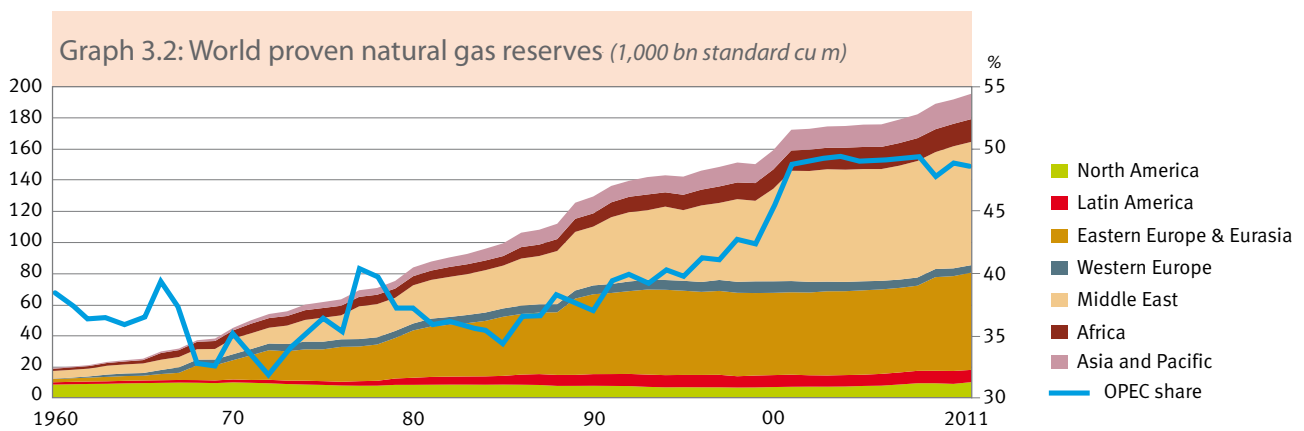
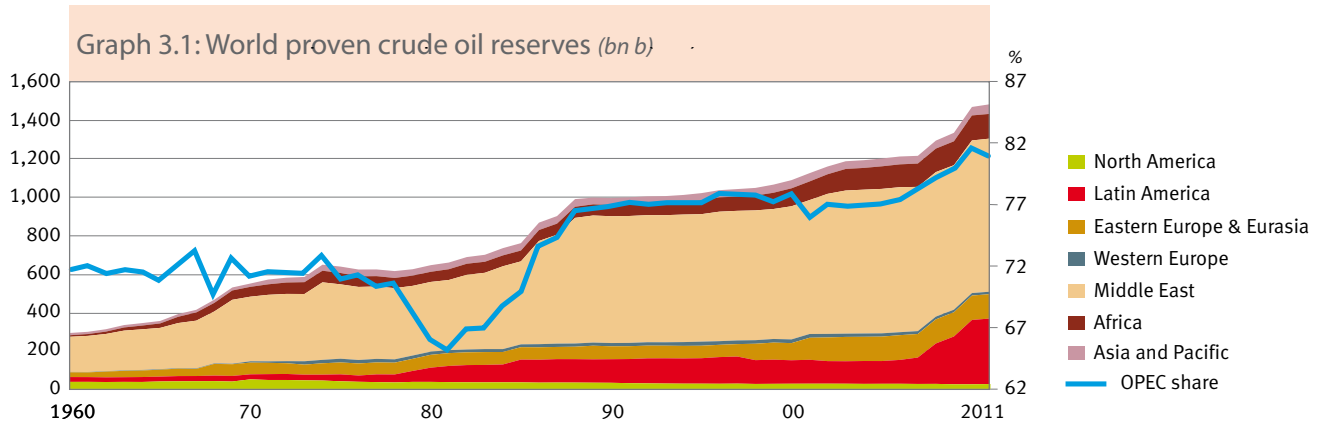


Table 3.3

Oil and gas data

Active rigs in OPEC Members and in world

	2007	2008	2009	2010	2011	change 11/10
North America	2,171	2,143	1,485	2,109	2,432	323
Canada	360	361	313	398	429	31
United States	1,811	1,782	1,172	1,711	2,003	292
Latin America	389	424	426	424	507	83
Argentina	87	70	55	61	64	3
Bolivia	2	3	4	5	5	-
Brazil	46	59	66	75	86	11
Chile	2	1	4	3	4	1
Colombia	40	42	31	54	75	21
Ecuador	9	18	12	11	39	28
Mexico	98	111	122	80	105	25
Trinidad & Tobago	5	4	3	1	4	3
Venezuela	90	108	120	125	116	-9
Others	10	8	9	9	9	-
Eastern Europe and Eurasia	409	509	473	400	404	4
Azerbaijan	12	11	14	15	14	-1
Kazakhstan	76	107	85	58	60	2
Poland	16	14	15	9	11	2
Romania	25	31	28	15	10	-5
Russia	274	335	320	294	300	6
Turkmenistan	6	11	11	9	9	-
Others	-	-	-	-	-	-
Western Europe	120	152	125	149	132	-17
France	1	1	1	-	1	1
Germany	5	10	5	7	5	-2
Italy	5	4	4	4	4	-
Netherlands	2	5	5	7	4	-3
Norway	19	25	22	19	10	-9
United Kingdom	22	22	14	20	16	-4
Others	66	85	74	92	92	0
Middle East	346	413	369	423	501	78
IR Iran	52	52	52	54	98	44
Iraq	30	29	22	36	59	23
Kuwait	11	19	28	56	49	-7
Oman	53	52	48	41	50	9
Qatar	6	2	6	6	6	-
Saudi Arabia	76	127	102	98	121	23
Syrian Arab Republic	19	20	19	31	27	-4
United Arab Emirates	14	14	11	13	13	-
Yemen	16	15	12	12	2	-10
Others	69	83	69	76	76	-
Africa	178	210	192	217	246	29
Algeria	29	27	27	24	24	-
Angola	5	6	5	11	22	11
Egypt	50	60	49	57	71	14
Gabon	4	1	2	4	6	2
Libya	50	63	60	60	55	-5
Nigeria	11	20	18	35	38	3
South Africa	-	1	-	-	-	-
Sudan	27	30	28	20	26	6
Others	2	2	3	6	4	-2
Asia and Pacific	269	272	313	325	299	-26
Australia	21	26	17	16	14	-2
China	28	30	47	43	40	-3
Brunei	1	1	1	-	3	3
India	84	82	104	112	117	5
Indonesia	66	61	58	60	53	-7
Malaysia	11	19	13	8	8	-
New Zealand	5	4	5	5	4	-1
Pakistan	19	21	18	15	12	-3
Others	34	28	50	66	48	-18
Total world	3,882	4,123	3,383	4,047	4,521	474
<i>of which</i>						
OPEC	383	485	463	529	640	111
<i>OPEC percentage</i>	<i>10</i>	<i>12</i>	<i>14</i>	<i>13</i>	<i>14</i>	<i>1</i>
OECD	2,410	2,432	1,749	2,354	2,968	614
FSU	368	464	430	376	413	37

Notes: Geographic area totals include all countries in the region, some of which may not have been mentioned in the breakdown. Totals may not add up due to independent rounding. Revisions have been made throughout the time series. Number of workover rigs for Venezuela is estimated to stand at 77 in 2010 and 64 in 2009.

Table 3.4

Oil and gas data

Wells completed in OPEC Members

	2007	2008	2009	2010	2011	change 11/10
Algeria	260	249	265	258	249	-9
Angola	75	99	60	118	112	-6
Ecuador	106	128	160	176	207	31
IR Iran	144	294	160	186	204	18
Iraq	na	19	55	71	76	5
Kuwait	73	88	83	230	295	65
Libya	197	254	247	200	76	-124
Nigeria	183	105	140	94	124	30
Qatar	88	89	94	35	29	-6
Saudi Arabia	483	592	450	386	405	19
Saudi-Kuwait Neutral Zone	20	7	70	75	136	61
United Arab Emirates	112	124	173	182	266	84
Venezuela	1,560	1,350	775	890	1,050	160
OPEC	3,301	3,398	2,732	2,820	3,229	409
Total world¹	105,831	107,685	88,206	94,596	104,422	9,826

Notes: Figures include development and exploration wells.

1. Excluding Eastern Europe and Eurasia.

Table 3.5
Oil and gas data

Producing wells in OPEC Members

	2007	2008	2009	2010	2011	change 11/10
Algeria	1,790	1,285	2,028	2,014	2,010	-4
Angola	1,250	1,064	1,321	1,321	1,476	155
Ecuador	3,134	2,699	2,817	3,025	3,079	54
IR Iran	1,737	1,128	2,074	2,074	2,026	-48
Iraq	1,508	1,685	1,526	1,526	1,695	169
Kuwait	1,103	790	1,286	1,286	1,417	131
Libya	1,875	1,543	2,060	2,060	609	-1,451
Nigeria	2,984	2,524	3,152	2,068	2,116	48
Qatar	413	421	513	513	517	4
Saudi Arabia	2,310	1,560	2,811	2,895	3,245	350
Saudi-Kuwait Neutral Zone	719	578	761	761	761	-
United Arab Emirates	1,719	1,456	1,456	1,458	1,592	134
Venezuela	14,540	15,669	14,651	14,651	14,915	264
OPEC	35,082	32,402	36,456	35,652	35,458	-194
Total world¹	1,482,727	1,509,416	913,978	1,005,375	995,321	-10,054

Notes: Excluding shut-in wells. Figures as at year-end.
1. Including Eastern Europe and Eurasia.

Table 3.6

Oil and gas data

Daily and cumulative crude oil production in OPEC Members (1,000 b)

Daily crude oil production (average)

	1960	1970	1980	1990	2000	2011
Algeria	181.1	1,029.1	1,019.9	783.5	796.0	1,161.6
Angola	1.1	83.9	150.0	473.8	736.1	1,618.0
Ecuador	7.5	4.1	204.1	286.1	392.2	500.3
IR Iran	1,067.7	3,829.0	1,467.4	3,135.3	3,661.3	3,576.0
Iraq	972.2	1,548.6	2,646.4	2,112.6	2,810.0	2,652.6
Kuwait ¹	1,691.8	2,989.6	1,663.7	858.6	1,996.1	2,658.7
Libya	–	3,318.0	1,831.6	1,389.1	1,347.2	489.5
Nigeria	17.4	1,083.1	2,058.0	1,726.7	2,053.6	1,974.8
Qatar	174.6	362.4	471.4	405.6	648.2	733.5
Saudi Arabia ¹	1,313.5	3,799.1	9,900.5	6,412.5	8,094.5	9,311.0
United Arab Emirates	–	779.6	1,701.9	1,762.6	2,174.7	2,564.6
Venezuela	2,846.1	3,708.0	2,165.0	2,135.2	2,891.0	2,880.9
OPEC	8,273.0	22,534.5	25,279.9	21,481.6	27,600.8	30,121.6

1. Figures include share of production from Neutral Zone.

Cumulative crude oil production up to and including year

	1960	1970	1980	1990	2000	2011
Algeria	81,372	2,569,469	6,404,548	8,974,340	11,837,030	16,503,002
Angola	1,127	76,423	623,359	1,681,478	3,972,081	9,408,940
Ecuador	2,745	26,191	617,927	1,526,131	2,843,162	4,730,076
IR Iran	4,167,717	12,357,977	29,969,896	38,410,483	51,367,070	66,457,984
Iraq	2,750,439	7,476,078	15,826,156	22,246,208	26,918,241	35,565,137
Kuwait ¹	4,333,049	13,028,906	21,993,164	25,857,094	32,092,887	41,518,527
Libya	–	5,476,384	12,810,843	16,929,582	21,993,272	27,773,330
Nigeria	12,318	1,138,896	8,389,456	13,656,562	20,572,881	28,919,160
Qatar	451,617	1,428,583	3,199,374	4,334,808	6,032,088	8,986,510
Saudi Arabia ¹	4,345,242	13,283,848	42,306,785	61,814,608	91,266,532	125,786,288
United Arab Emirates	–	1,160,471	7,164,231	11,921,927	19,785,670	29,201,893
Venezuela	13,865,487	26,301,976	36,046,663	42,528,079	51,772,971	63,415,418
OPEC	30,011,111	84,325,201	185,352,402	249,881,299	340,453,882	458,266,265

1. Figures include share of production from Neutral Zone.

Table 3.7

Oil and gas data

World crude oil production by country (1,000 b/d)

	2007	2008	2009	2010	2011	% change 11/10
North America	6,452.6	6,299.2	6,577.5	6,708.1	6,916.8	3.1
Canada	1,388.4	1,348.7	1,216.9	1,227.1	1,258.2	2.5
United States	5,064.2	4,950.4	5,360.6	5,481.0	5,658.6	3.2
Latin America	9,835.9	9,635.2	9,506.8	9,664.4	9,823.1	1.6
Argentina	641.5	641.6	623.1	608.8	572.6	-5.9
Brazil	1,748.0	1,812.1	1,950.4	2,054.7	2,105.4	2.5
Chile	2.0	2.0	2.8	3.0	4.2	41.5
Colombia	529.5	587.8	670.2	784.8	913.6	16.4
Ecuador	511.4	501.4	464.7	476.4	500.3	5.0
Mexico	3,081.7	2,798.5	2,601.4	2,575.9	2,550.0	-1.0
Peru	77.0	76.6	71.8	72.6	69.6	-4.2
Trinidad & Tobago	120.5	114.3	107.2	98.2	92.0	-6.3
Venezuela	2,981.9	2,957.5	2,878.1	2,853.6	2,880.9	1.0
Others	142.3	143.5	137.1	136.3	134.3	-1.5
Eastern Europe and Eurasia	12,005.7	12,045.5	12,396.3	12,657.0	12,653.3	-
Azerbaijan	855.2	899.7	1,014.4	1,026.7	915.9	-10.8
Kazakhstan	1,079.3	1,142.7	1,256.3	1,333.4	1,325.9	-0.6
Romania	100.2	92.8	88.5	85.7	83.8	-2.2
Russia	9,572.1	9,498.5	9,650.4	9,841.3	9,943.3	1.0
Turkmenistan	180.2	202.1	188.4	180.0	200.2	11.2
Ukraine	69.7	62.2	58.1	51.4	48.7	-5.2
Others	149.0	147.4	140.2	138.3	135.4	-2.1
Western Europe	4,319.8	4,046.6	3,828.8	3,527.7	3,194.8	-9.4
Denmark	304.6	279.8	261.3	246.3	227.7	-7.5
France	19.6	19.6	18.2	18.0	17.8	-1.0
Germany	66.3	61.7	54.6	49.0	51.8	5.7
Italy	107.7	99.5	82.8	96.0	99.2	3.3
Netherlands	40.2	33.6	25.5	19.9	21.4	7.6
Norway	2,210.4	2,107.6	1,989.2	1,799.3	1,680.0	-6.6
Turkey	41.9	41.6	46.2	48.3	45.7	-5.6
United Kingdom	1,477.4	1,352.5	1,301.2	1,202.4	1,006.6	-16.3
Others	51.6	50.8	49.8	48.4	44.6	-7.8
Middle East	22,361.6	23,141.6	20,868.5	21,030.6	23,005.8	9.4
Bahrain	184.7	184.5	182.0	181.8	189.5	4.3
IR Iran	4,030.7	4,055.7	3,557.1	3,544.0	3,576.0	0.9
Iraq	2,035.2	2,280.5	2,336.2	2,358.1	2,652.6	12.5
Kuwait ¹	2,574.5	2,676.0	2,261.6	2,312.1	2,658.7	15.0
Oman	653.0	669.3	712.6	758.3	780.1	2.9
Qatar	845.3	842.8	733.0	733.4	733.5	-
Saudi Arabia ¹	8,816.0	9,198.0	8,184.0	8,165.6	9,311.0	14.0
Syrian Arab Republic	380.0	377.0	377.0	386.0	334.6	-13.3
United Arab Emirates	2,529.0	2,572.2	2,241.6	2,323.8	2,564.6	10.4
Yemen	313.2	285.7	283.4	267.5	205.1	-23.3
Africa	8,997.6	9,191.4	8,461.0	8,655.6	7,418.9	-14.3
Algeria	1,371.6	1,356.0	1,216.0	1,189.8	1,161.6	-2.4
Angola	1,694.6	1,896.3	1,738.9	1,757.6	1,618.0	-7.9
Congo	243.1	259.7	274.9	295.6	296.7	0.4
Egypt	500.7	522.6	523.1	534.1	530.4	-0.7
Equatorial Guinea	287.8	299.8	281.7	256.1	239.9	-6.3
Gabon	250.1	239.6	237.6	245.5	245.3	-0.1
Libya	1,673.9	1,721.5	1,473.9	1,486.6	489.5	-67.1
Nigeria	2,059.3	2,017.4	1,842.0	2,048.3	1,974.8	-3.6
Sudans	483.1	456.8	475.2	462.2	428.0	-7.4
Others	433.5	421.7	397.7	379.8	434.7	14.5
Asia and Pacific	7,313.9	7,414.0	7,345.8	7,596.9	7,424.1	-2.3
Australia	448.7	463.7	463.7	428.7	339.9	-20.7
Brunei	169.7	157.5	148.6	153.1	150.2	-1.9
China	3,736.0	3,802.1	3,794.6	4,076.4	4,079.7	0.1
India	684.1	682.0	666.3	735.6	766.9	4.3
Indonesia	843.8	853.4	826.1	824.4	794.4	-3.6
Malaysia	695.3	694.2	659.9	635.9	573.0	-9.9
New Zealand	41.7	60.1	55.9	54.9	46.8	-14.7
Others	694.7	701.0	730.8	687.9	673.2	-2.1
Total world	71,287.2	71,773.6	68,984.7	69,840.3	70,436.7	0.9
<i>of which</i>						
OPEC	31,123.4	32,075.4	28,927.1	29,249.4	30,121.6	3.0
OPEC percentage	43.7	44.7	41.9	41.9	42.8	2.1
OECD	14,357.4	13,683.1	13,540.0	13,308.2	13,062.3	-1.8
FSU	11,862.6	11,908.6	12,267.6	12,529.7	12,525.4	-

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

1. Figures include share of production from Neutral Zone.

Table 3.8
Oil and gas data

Natural gas production in OPEC Members (*million standard cu m*)

	2007	2008	2009	2010	2011	% change 11/10
Algeria						
Gross production	198,182	201,186	196,917	192,209	190,127	-1.1
Marketed production	84,827	86,505	81,426	83,900	82,767	-1.4
Flaring	4,675	4,953	5,503	4,997	3,604	-38.7
Reinjection	93,045	92,918	95,007	89,080	88,745	-0.4
Shrinkage	15,635	16,810	14,981	13,516	15,011	10.0
Angola						
Gross production	10,810	10,050	10,100	10,320	10,733	3.8
Marketed production	830	680	690	733	752	2.5
Flaring	7,300	6,920	6,907	7,042	7,183	2.0
Reinjection	2,500	2,300	2,290	2,363	2,599	9.1
Shrinkage	180	150	213	181	199	9.1
Ecuador						
Gross production	1,240	1,250	1,400	1,403	1,337	-4.9
Marketed production	275	260	296	330	241	-36.9
Flaring	770	770	570	493	539	8.5
Reinjection	195	220				
Shrinkage			534	580	557	-4.1
IR Iran						
Gross production	174,200	180,423	210,334	220,124	224,121	1.8
Marketed production	111,900	116,300	175,742	187,357	188,753	0.7
Flaring	15,695	16,811	15,874			
Reinjection	28,479	27,412	18,719	32,766	35,369	7.4
Shrinkage	18,126	19,900				
Iraq						
Gross production	13,596	14,781	16,577	16,885	18,692	9.7
Marketed production	1,460	1,880	1,149	1,303	877	-48.6
Flaring	6,621	6,005	6,984	7,573	9,612	21.2
Reinjection	763	900	968	809	968	16.4
Shrinkage	4,752	5,996	7,477		7,235	
Kuwait						
Gross production	13,310	13,870	11,689	11,950	13,750	13.1
Marketed production	12,060	12,700	11,489	11,733	13,533	13.3
Flaring	250	200	200	217	217	-
Reinjection	1,000	970				
Shrinkage	1,000	1,000	970			
Libya						
Gross production	29,219	30,310	29,288	30,257	9,861	-206.8
Marketed production	15,280	15,900	15,900	16,814	7,855	-114.1
Flaring	2,909	3,940	3,261	3,483	1,302	-167.5
Reinjection	3,366	3,526	3,570	3,400	704	-383.0
Shrinkage	7,664	6,944	6,557	6,560		

Table 3.8

Oil and gas data

Natural gas production in OPEC Members (*million standard cu m*)

	2007	2008	2009	2010	2011	% change 11/10
Nigeria						
Gross production	68,400	72,638	56,716	71,758	84,004	14.6
Marketed production	32,500	32,825	23,206	28,099	41,323	32.0
Flaring	22,300	19,073	13,328	15,294	14,270	-7.2
Reinjection	10,000	14,423	14,245	21,286	22,519	5.5
Shrinkage	3,600	6,317	5,937	7,079	5,892	-20.1
Qatar						
Gross production	77,200	90,887	102,800	110,205	130,270	15.4
Marketed production	63,200	76,981	89,300	96,335	116,700	17.5
Flaring	4,200	3,597	3,966	2,800	2,800	-
Reinjection	3,500	4,758	3,886	5,600	5,300	-5.7
Shrinkage	6,300	5,551	5,648	5,470	5,470	-
Saudi Arabia						
Gross production	83,280	86,400	89,610	97,030	102,430	5.3
Marketed production	74,420	80,440	78,450	87,660	92,260	5.0
Flaring	200					
Reinjection	100	160	50	60	30	-100.0
Shrinkage	8,560	5,800	11,110	9,310	10,140	8.2
United Arab Emirates						
Gross production	78,963	80,055	75,840	79,778	82,433	3.2
Marketed production	50,290	50,240	48,840	51,282	52,308	2.0
Flaring	970	980	967	972	982	1.0
Reinjection	22,033	23,135	22,051	22,406	23,974	6.5
Shrinkage	5,670	5,700	3,983	5,118	5,169	1.0
Venezuela						
Gross production	71,622	71,978	72,170	71,075	73,274	3.0
Marketed production	20,729	20,750	18,430	19,728	20,769	5.0
Flaring	7,184	9,173	8,753	6,680	9,284	28.0
Reinjection	30,974	30,200	31,626	31,391	29,827	-5.2
Shrinkage	12,735	11,855	13,362	14,277	13,394	-6.6
OPEC						
Gross production	820,022	853,828	873,441	912,994	941,031	3.0
Marketed production	467,771	495,461	544,918	585,274	618,137	5.3
Flaring	73,074	72,422	66,313	49,551	49,793	0.5
Reinjection	195,955	200,922	192,412	209,161	210,036	0.4
Shrinkage	84,222	86,023	70,772	62,091	63,067	1.5

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

Table 3.9
Oil and gas data

World marketed production of natural gas by country (*million standard cu m*)

	2007	2008	2009	2010	2011	% change 11/10
North America	719,570	745,250	741,940	763,200	805,800	5.6
Canada	179,350	171,190	159,530	152,600	154,900	1.5
United States	540,220	574,060	582,410	610,600	650,900	6.6
Latin America	187,534	193,940	188,366	198,356	216,051	8.9
Argentina	44,830	44,060	41,360	40,100	38,100	-5.0
Bolivia	14,090	14,660	12,620	14,730	14,003	-4.9
Brazil	9,840	12,620	10,280	12,600	13,300	5.6
Chile	1,760	1,870	1,350	1,070	1,430	33.6
Colombia	7,640	9,000	10,490	11,300	10,700	-5.3
Cuba	400	1,160	1,150	1,208	1,173	-2.9
Ecuador	275	260	296	330	241	-27.0
Mexico	46,290	46,610	48,320	47,710	57,710	21.0
Peru	2,670	3,650	3,470	7,200	14,550	102.1
Trinidad & Tobago	39,010	39,300	40,600	42,380	44,075	4.0
Venezuela	20,729	20,750	18,430	19,728	20,769	5.3
Eastern Europe and Eurasia	814,620	832,690	732,950	803,314	845,738	5.3
Azerbaijan	10,800	12,500	16,330	18,220	17,800	-2.3
Hungary	2,600	2,610	3,090	2,490	2,730	9.6
Kazakhstan	27,800	31,400	33,470	34,900	37,169	6.5
Poland	4,300	4,100	4,110	4,240	4,150	-2.1
Romania	11,600	10,700	10,950	10,470	10,707	2.3
Russia	611,500	621,300	546,800	610,090	629,003	3.1
Turkmenistan	64,600	66,100	35,720	41,610	59,700	43.5
Ukraine	19,500	19,800	19,880	19,000	19,560	2.9
Uzbekistan	61,200	63,400	62,270	61,960	64,438	4.0
Others	720	780	330	334	481	44.1
Western Europe	271,700	289,410	272,200	282,369	254,400	-9.9
Austria	1,850	1,530	1,590	1,630	1,583	-2.9
Croatia	1,580	1,580	1,410	1,523	1,504	-1.2
Denmark	9,210	10,090	8,450	8,190	7,000	-14.5
France	1,080	920	880	718	839	16.9
Germany	17,100	15,600	14,590	12,710	12,000	-5.6
Ireland	380	360	320	388	356	-8.2
Italy	9,710	9,140	8,020	8,300	7,500	-9.6
Netherlands	68,300	79,960	73,730	85,900	80,300	-6.5
Norway	89,700	99,200	103,750	106,350	101,200	-4.8
United Kingdom	72,300	69,900	59,100	56,300	41,500	-26.3
Others	490	1,130	360	360	617	71.3
Middle East	356,540	382,581	450,790	486,217	514,622	5.8
Bahrain	11,780	12,640	12,580	12,910	12,710	-1.5
IR Iran	111,900	116,300	175,742	187,357	188,753	0.7

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

Table 3.9

Oil and gas data

World marketed production of natural gas by country (*million standard cu m*)

	2007	2008	2009	2010	2011	% change 11/10
Iraq	1,460	1,880	1,149	1,303	877	-32.7
Kuwait	12,060	12,700	11,489	11,733	13,533	15.3
Oman	24,040	24,060	24,770	27,100	28,700	5.9
Qatar	63,200	76,981	89,300	96,335	116,700	21.1
Saudi Arabia	74,420	80,440	78,450	87,660	92,260	5.2
Syrian Arab Republic	6,000	5,900	6,510	8,940	7,117	-20.4
United Arab Emirates	50,290	50,240	48,840	51,282	52,308	2.0
Others	1,390	1,440	1,960	1,597	1,666	4.3
Africa	193,257	213,520	202,622	211,076	211,680	0.3
Algeria	84,827	86,505	81,426	83,900	82,767	-1.4
Angola	830	680	690	733	752	2.5
Egypt	46,500	58,970	62,690	61,330	59,800	-2.5
Equatorial Guinea	2,920	6,670	5,900	6,136	6,235	1.6
Côte d'Ivoire	1,300	1,300	1,300	1,352	1,317	-2.6
Libya	15,280	15,900	15,900	16,814	7,855	-53.3
Mozambique	3,000	3,300	3,600	3,744	3,548	-5.2
Nigeria	32,500	32,825	23,206	28,099	41,323	47.1
South Africa	3,000	3,250	3,600	3,744	3,531	-5.7
Tunisia	2,200	2,970	2,970	3,830	3,257	-15.0
Others	900	1,150	1,340	1,394	1,295	-7.1
Asia Pacific	390,740	415,400	436,610	484,793	489,783	1.0
Australia	43,700	47,500	52,580	55,250	56,800	2.8
Bangladesh	16,270	17,900	19,750	20,100	20,400	1.5
Brunei	13,450	13,400	11,500	11,800	12,233	3.7
China	67,900	76,100	81,960	93,020	105,000	12.9
India	31,380	32,200	40,620	52,800	49,104	-7.0
Indonesia	68,590	70,000	72,400	82,600	79,600	-3.6
Japan	3,900	3,950	3,740	3,397	3,696	8.8
Malaysia	55,500	61,200	58,600	61,210	59,210	-3.3
Myanmar	13,520	12,400	11,540	12,100	12,013	-0.7
Pakistan	36,800	37,500	38,410	39,450	38,450	-2.5
Philippines	2,900	2,940	3,090	3,245	3,092	-4.7
Thailand	26,000	28,760	30,880	36,270	37,721	4.0
Vietnam	5,900	6,980	7,090	8,610	7,810	-9.3
New Zealand	4,130	3,880	3,970	4,481	4,110	-8.3
Others	800	690	480	461	544	18.0
Total world	2,933,961	3,072,791	3,025,477	3,229,325	3,338,071	3.4
<i>of which</i>						
OPEC	467,771	495,461	544,918	585,274	618,137	5.6
<i>OPEC percentage</i>	<i>16</i>	<i>16</i>	<i>18</i>	<i>18</i>	<i>19</i>	<i>2.2</i>
OECD	1,094,950	1,142,130	1,120,810	1,143,226	1,154,658	1.0
FSU	795,550	814,650	711,130	782,243	818,226	4.6

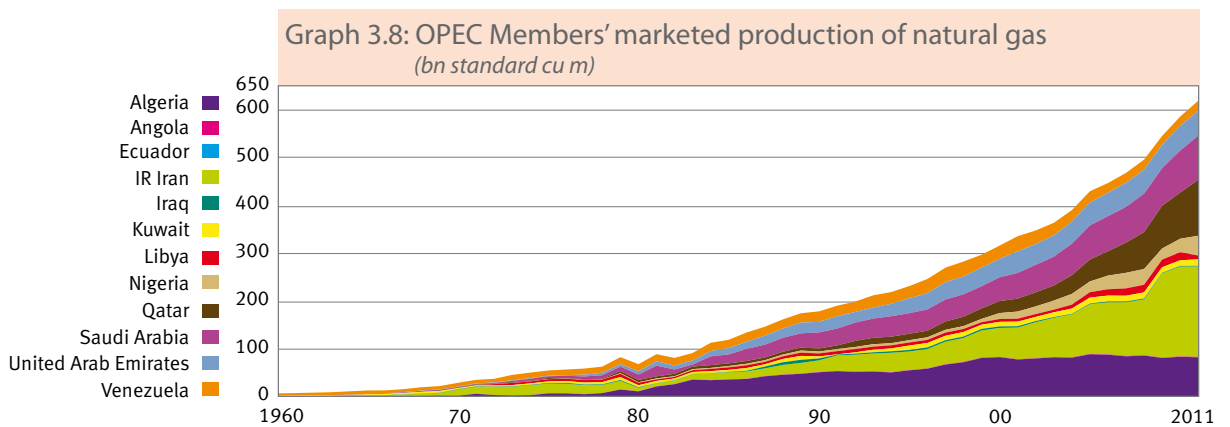
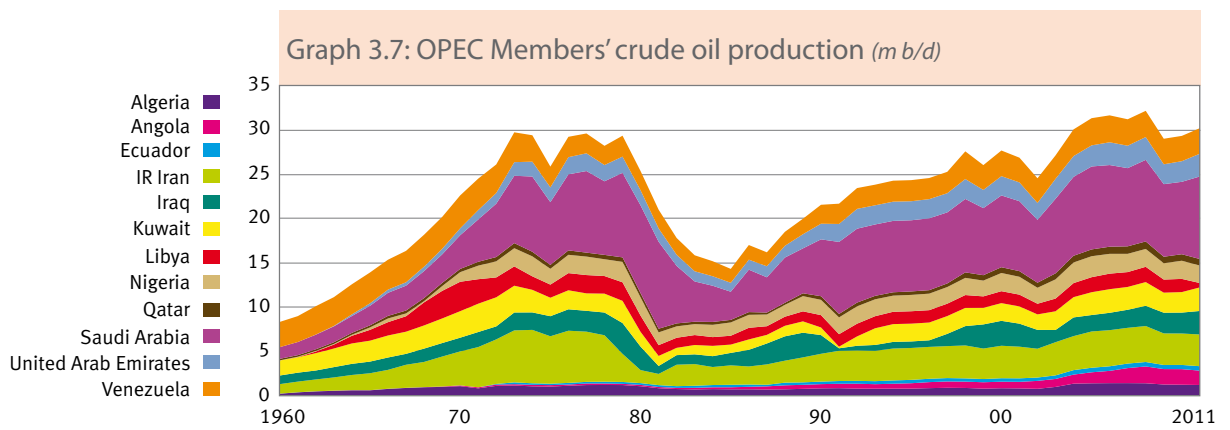
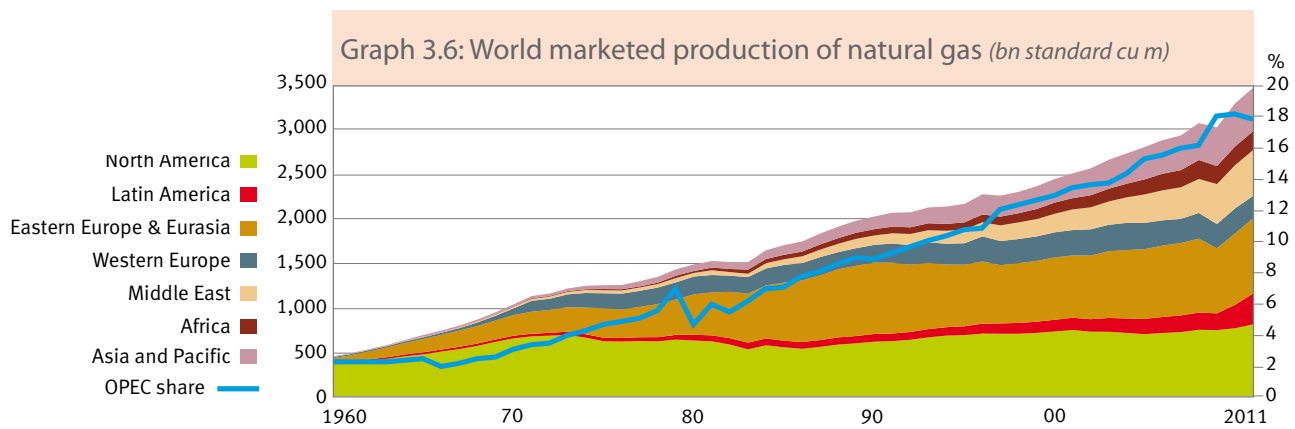
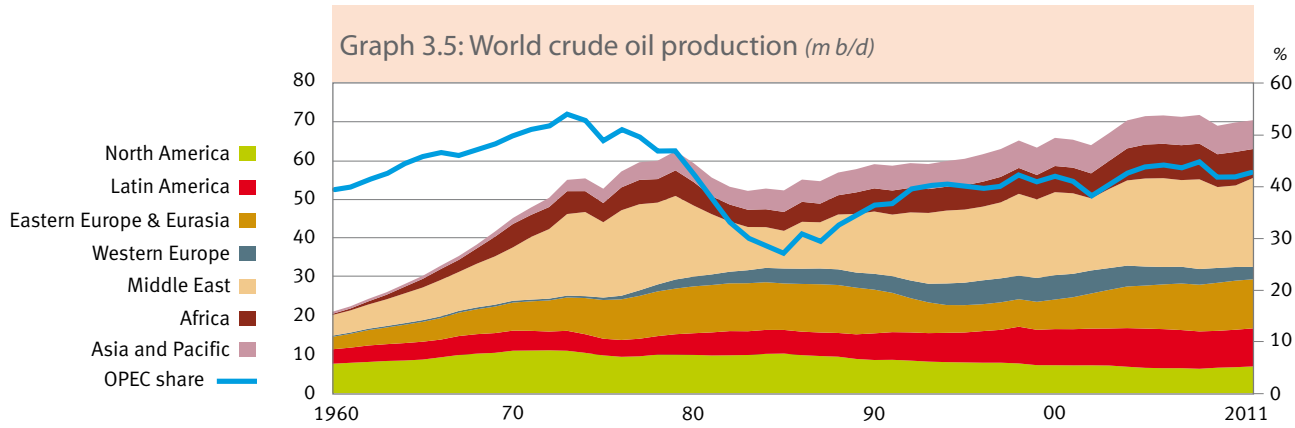


Table 3.10

Oil and gas data

Refinery capacity in OPEC Members by type and location (1,000 b/cd)

	Location	2007	2008	2009	2010	2011
Algeria		475.0	523.1	652.4	652.4	652.4
Sonatrach	Skikda	323.4	359.1	352.7	352.7	352.7
	Arzew	53.9	59.8	58.5	58.5	58.5
	El Harrach	58.2	58.5	63.4	63.4	63.4
	Hassi Messaoud	26.7	31.4	163.5	163.5	163.5
	Adrar (Soralchine)	12.8	14.4	14.4	14.4	14.4
Angola		38.0	38.0	38.0	38.0	37.5
Fina Petroleos de Angola	Luanda	38.0	38.0	38.0	38.0	37.5
Ecuador		188.4	188.4	188.4	188.4	188.4
Petroindustrial	Esmeraldas	110.0	110.0	110.0	110.0	110.0
	Santa Elens	45.0	45.0	45.0	45.0	45.0
	Shushufindi	20.0	20.0	20.0	20.0	20.0
Petroproduccion	Lago Agrio	1.0	1.0	1.0	1.0	1.0
	Sucumbios	1.7	1.7	1.7	1.7	1.7
Andes Petroleum	Sucumbios	3.5	3.5	3.5	3.5	3.5
Repsol YPF	Orellana	7.2	7.2	7.2	7.2	7.2
IR Iran		1,474.0	1,474.0	1,474.0	1,741.0	1772.0
NIOC	Abadan	400.0	400.0	400.0	421.0	390.0
	Arak	150.0	150.0	150.0	181.0	230.0
	Tehran	225.0	225.0	225.0	245.0	240.0
	Isfahan	265.0	265.0	265.0	350.0	370.0
	Tabriz	112.0	112.0	112.0	111.0	110.0
	Shiraz	40.0	40.0	40.0	60.0	56.0
	Kermanshah	30.0	30.0	30.0	22.0	21.0
	Lavan	20.0	20.0	20.0	29.0	35.0
	Bandar Abbas	232.0	232.0	232.0	322.0	320.0
Iraq		638.5	658.5	824.0	800.0	800.0
INOC	Basrah	150.0	160.0	140.0	140.0	140.0
	Daurah	110.0	90.0	142.3	140.0	140.0
	Kirkuk	10.0	10.0	30.0	30.0	30.0
	Baiji (Salaheddin)	150.0	150.0	135.8	150.0	140.0
	Baiji (North)	160.0	170.0	170.0	170.0	170.0
	Khanaqin/Alwand	10.0	10.0	12.0	12.0	12.0
	Samawah	20.0	20.0	30.0	30.0	30.0
	Haditha	10.0	20.0	16.0	16.0	16.0
	Muftiah	4.5	4.5	4.5	4.5	4.5
	Gaiyarah	4.0	4.0	4.0	4.0	4.0
	Najaf	10.0	20.0	30.0	30.0	30.0
	Others	–	–	109.4	85.4	83.5
Kuwait		936.0	936.0	936.0	936.0	936.0
KNPC	Mina Al-Ahmadi	466.0	466.0	466.0	466.0	466.0
	Shuaiba	200.0	200.0	200.0	200.0	200.0
	Mina Abdullah	270.0	270.0	270.0	270.0	270.0

Refinery capacity in OPEC Members by type and location (1,000 b/cd)

	Location	2007	2008	2009	2010	2011
Libya		380.0	380.0	380.0	380.0	380.0
NOC	Zawia	120.0	120.0	120.0	120.0	120.0
	Marsa El-Brega	10.0	10.0	10.0	10.0	10.0
	Ras Lanuf	220.0	220.0	220.0	220.0	220.0
	Tobruk	20.0	20.0	20.0	20.0	20.0
	Sarir	10.0	10.0	10.0	10.0	10.0
Nigeria		445.0	445.0	445.0	445.0	445.0
WRPC	Warri	125.0	125.0	125.0	125.0	125.0
KRPC	Kaduna	110.0	110.0	110.0	110.0	110.0
PHRC	Port Hartcourt	60.0	60.0	60.0	60.0	60.0
	Port Hartcourt New	150.0	150.0	150.0	150.0	150.0
Qatar		80.0	80.0	80.0	80.0	80.0
Qatar Petroleum	Mesaieed II	80.0	80.0	80.0	80.0	80.0
Saudi Arabia		2,130.0	2,135.0	2,109.0	2,109.0	2,107.0
Saudi Aramco	Ras Tanura	550.0	550.0	550.0	550.0	550.0
Saudi Aramco	Jeddah	85.0	88.0	88.0	88.0	88.0
Saudi Aramco	Riyadh	120.0	122.0	124.0	124.0	124.0
Saudi Aramco	Yanbu (Domestic)	235.0	235.0	235.0	235.0	235.0
Saudi Aramco/Mobil	Yanbu (Export)	400.0	400.0	400.0	400.0	400.0
Saudi Aramco/Shell	Jubail	310.0	310.0	310.0	310.0	310.0
Saudi Aramco/Petrola	Rabigh	400.0	400.0	402.0	402.0	400.0
United Arab Emirates		466.3	466.3	466.3	466.3	466.3
ADNOC	Al-Ruwais	120.0	120.0	120.0	120.0	120.0
ADNOC	Umm Al-Narr	85.0	85.0	85.0	85.0	85.0
Metro Oil	Fujairah	70.0	70.0	70.0	70.0	70.0
Emirate Oil	Jebel Ali	120.0	120.0	120.0	120.0	120.0
Sharjah Oil Refinery	Hamriyah	71.3	71.3	71.3	71.3	71.3
Venezuela		1,034.7	1,027.2	981.2	987.3	1,016.2
PDVSA	Amuay	454.3	454.3	–	430.3	453.6
	Cardon	260.0	260.0	–	246.2	253.2
	Bajo Grande	13.1	4.7	–	2.2	3.4
	Puerto La Cruz/San Roque	175.2	175.3	178.4	176.2	173.5
	San Roque	–	5.1	4.4	4.9	4.9
	El Palito	132.1	127.8	90.8	127.2	127.6
OPEC		8,285.8	8,351.5	8,574.2	8,823.2	8,880.6

Notes: Figures as at year-end. Totals may not add up due to independent rounding. Some figures were converted from barrels per stream day. Capacity excludes condensate refineries.

Table 3.11

Oil and gas data

World refinery capacity by country (1,000 b/cd)

	2007	2008	2009	2010	2011	% change 11/10
North America	19,416.7	19,409.1	19,802.8	19,771.2	19,706.2	-0.3
Canada	1,969.5	2,029.5	2,039.3	1,902.0	1,918.5	0.9
United States	17,447.2	17,379.7	17,763.5	17,869.2	17,787.7	-0.5
Latin America	7,991.0	8,135.9	8,135.9	8,155.9	8,135.0	-0.3
Argentina	626.1	626.1	627.1	627.1	630.6	0.6
Brazil	1,908.3	1,908.3	1,908.3	1,908.3	1,917.3	0.5
Colombia	285.9	285.9	285.9	290.9	290.9	-
Ecuador	188.4	188.4	188.4	188.4	188.4	-
Mexico	1,540.0	1,540.0	1,540.0	1,540.0	1,540.0	-
Netherland Antilles	320.0	320.0	320.0	320.0	320.0	-
Trinidad & Tobago	168.0	168.0	168.0	168.0	168.0	-
Venezuela	1,034.7	1,027.2	981.2	987.3	1,016.2	2.9
Virgin Islands	500.0	500.0	500.0	500.0	500.0	-
Eastern Europe and Eurasia	9,921.4	9,624.9	9,521.8	9,786.9	9,840.1	0.5
Russia	5,339.0	5,428.5	5,428.5	5,430.9	5,430.9	-
Others	4,582.4	4,196.4	4,093.3	4,356.0	4,409.2	1.2
Western Europe	15,405.2	15,439.2	15,736.3	15,446.2	14,888.9	-3.6
Belgium	797.6	797.6	797.6	740.3	739.8	-0.1
France	1,938.1	1,986.2	1,986.2	1,843.8	1,718.8	-6.8
Germany	2,417.1	2,417.5	2,417.5	2,417.7	2,417.2	-
Italy	2,337.2	2,337.2	2,337.2	2,337.2	2,337.2	-
Netherlands	1,226.9	1,207.7	1,207.7	1,208.6	1,196.6	-1.0
Spain	1,277.0	1,271.5	1,271.5	1,271.5	1,271.5	-
United Kingdom	1,857.7	1,857.7	1,857.7	1,766.2	1,767.2	0.1
Middle East	6,914.6	7,036.2	7,245.4	7,488.4	7,277.4	-2.8
IR Iran	1,474.0	1,474.0	1,474.0	1,741.0	1,772.0	1.8
Iraq	638.5	658.5	824.0	800.0	800.0	-
Kuwait	936.0	936.0	936.0	936.0	936.0	-
Qatar	80.0	80.0	80.0	80.0	80.0	-
Saudi Arabia	2,130.0	2,135.0	2,109.0	2,109.0	2,107.0	-0.1
United Arab Emirates	466.3	466.3	466.3	466.3	466.3	-
Africa	3,275.4	3,278.4	3,278.4	3,278.4	3,289.6	0.3
Algeria	475.0	523.1	652.4	652.4	652.4	-
Angola	38.0	38.0	38.0	38.0	37.5	-1.3
Egypt	726.3	726.3	726.3	726.3	726.3	-
Gabon	17.3	24.0	24.0	24.0	24.0	-
Libya	380.0	380.0	380.0	380.0	380.0	-
Nigeria	445.0	445.0	445.0	445.0	445.0	-
Asia and Pacific	24,438.1	24,552.4	24,552.4	24,750.3	24,918.4	0.7
China	6,246.0	6,446.0	6,446.0	6,806.0	6,866.0	0.9
India	2,255.5	2,255.5	2,835.5	4,000.5	4,042.8	1.1
Indonesia	1,050.8	1,050.8	1,050.8	1,011.8	1,011.8	-
Japan	4,650.7	4,690.7	4,690.7	4,729.9	4,729.9	-
South Korea	2,633.5	2,576.5	2,606.5	2,721.5	2,759.5	1.4
Singapore	1,344.0	1,344.0	1,344.0	1,357.0	1,357.0	-
Chinese Tapei	1,290.0	1,290.0	1,290.0	1,310.0	1,310.0	-
Australia	701.1	707.1	724.7	757.2	760.1	0.4
Total world	87,362.4	87,476.1	88,272.9	88,677.3	88,055.6	-0.7
<i>of which</i>						
OPEC	8,285.8	8,351.5	8,574.2	8,823.2	8,880.6	0.7
OPEC percentage	9.5	9.5	9.7	9.9	10.1	1.4
OECD	45,280.0	45,365.7	45,819.7	46,280.4	44,958.7	-2.9
FSU	8,311	8,015	8,015	8,196	8,209	0.2

Notes: Figures as at year-end. Totals may not add up due to independent rounding. Some figures were converted from barrels per stream day. Annual changes are calculated using 1,000 barrels daily figures.

Charge refinery capacity in OPEC Members, 2011 (1,000 b/cd)

	Vacuum distillation	Thermal operations	Catalytic cracking	Catalytic reforming	Catalytic hydrocracking	Catalytic hydrotreating
Algeria ¹	10.7	–	7.1	89.7	–	3.8
Angola	2.5	8.7	–	2.4	–	–
Ecuador ¹	45.3	31.5	18.0	10.0	–	–
IR Iran	677.5	229.8	60.0	203.0	152.8	169.5
Iraq	117.1	–	–	77.6	–	–
Kuwait	341.8	80.0	43.0	54.6	204.5	243.9
Libya	–	–	–	17.9	–	–
Nigeria	128.2	–	86.0	73.5	–	–
Qatar ¹	–	–	28.0	14.1	–	33.0
Saudi Arabia	–	–	–	–	–	–
United Arab Emirates	55.0	–	–	45.2	27.0	168.0
Venezuela ¹	494.4	123.0	206.1	67.1	–	131.5
OPEC	1,872.5	473.1	448.2	655.1	384.3	749.7

Notes:

Compiled and based on direct communication and secondary sources. Figures as at year-end. Totals may not add up due to independent rounding. Some figures were converted from barrels per stream day. Capacity excludes condensate refineries. Partly estimated and preliminary.

1. Excludes condensates, conversion plants, upgrader and foreign refineries.

Table 3.13

Oil and gas data

Output of petroleum products by type in OPEC Members (1,000 b/d)

	2007	2008	2009	2010	2011	% change 11/10
Algeria	501.8	516.5	411.6	631.5	501.3	-20.6
Gasoline	44.8	60.9	60.9	69.5	51.3	-26.1
Kerosene	22.6	21.6	57.2	34.1	24.3	-28.7
Distillates	141.4	178.0	166.5	180.7	154.3	-14.6
Residuals	104.3	121.6	92.6	118.7	117.0	-1.5
Others	188.7	134.5	34.3	228.5	154.4	-32.5
Angola	60.6	47.8	46.2	47.0	39.4	-16.2
Gasoline	1.4	1.8	0.9	1.3	1.3	-2.2
Kerosene	7.6	7.0	10.0	8.5	7.0	-17.7
Distillates	10.5	10.8	10.4	10.6	10.6	0.1
Residuals	11.3	11.0	13.7	12.4	16.4	32.6
Others	29.8	17.2	11.2	14.2	4.1	-71.2
Ecuador	170.2	194.3	189.3	185.1	217.3	17.4
Gasoline	43.0	44.7	46.1	41.4	55.3	33.6
Kerosene	8.5	8.5	8.2	8.1	8.3	2.0
Distillates	31.0	32.9	35.6	32.8	37.9	15.7
Residuals	68.3	65.0	66.9	60.1	67.8	12.7
Others	19.4	15.3	32.5	42.7	48.0	12.4
IR Iran	1,498.0	1,587.0	1,726.1	1,743.3	1,770.2	1.5
Gasoline	319.0	306.3	332.6	346.3	330.0	-4.7
Kerosene	133.5	159.5	119.2	130.2	116.9	-10.2
Distillates	475.8	503.1	556.3	565.5	598.1	5.8
Residuals	442.8	462.2	494.4	472.0	487.2	3.2
Others	126.9	155.9	223.7	229.3	238.0	3.8
Iraq	480.8	453.2	456.6	513.2	613.2	19.5
Gasoline	n.a.	59.9	60.1	71.8	75.4	5.1
Kerosene	n.a.	46.7	47.8	51.5	87.4	69.5
Distillates	n.a.	83.7	85.5	102.2	130.1	27.3
Residuals	n.a.	209.5	210.9	246.5	217.2	-11.9
Others	n.a.	53.3	52.2	41.2	103.2	150.3
Kuwait	877.4	1,003.2	892.7	979.4	881.9	-10.0
Gasoline	59.3	54.2	55.7	54.9	56.9	3.7
Kerosene	182.5	171.8	182.6	182.6	176.9	-3.1
Distillates	249.1	243.3	300.6	243.5	244.8	0.5
Residuals	192.5	184.8	144.4	204.8	180.2	-12.0
Others	194.0	349.1	209.4	293.7	223.1	-24.0

Table 3.13

Oil and gas data

Output of petroleum products by type in OPEC Members (1,000 b/d)

	2007	2008	2009	2010	2011	% change 11/10
Libya	497.0	362.7	350.0	545.8	473.2	-13.3
Gasoline	19.5	18.2	17.6	16.2	17.7	9.5
Kerosene	32.8	34.3	41.9	43.3	47.5	9.6
Distillates	87.8	84.4	89.4	96.4	78.8	-18.3
Residuals	134.0	141.2	131.3	141.1	137.0	-2.9
Others	222.9	84.6	69.9	248.8	192.2	-22.8
Nigeria	378.7	372.2	249.4	249.4	100.3	-59.8
Gasoline	n.a.	56.2	10.5	23.9	29.7	24.2
Kerosene	n.a.	26.9	8.3	13.7	16.0	16.5
Distillates	n.a.	21.3	22.9	20.6	21.8	5.5
Residuals	n.a.	0.4	23.1	24.1	25.2	4.5
Others	n.a.	267.4	184.7	167.1	7.6	-95.4
Qatar	131.8	126.2	126.3	133.0	127.0	-4.5
Gasoline	45.7	44.6	40.7	44.5	43.5	-2.3
Kerosene	24.0	24.2	22.8	24.6	23.3	-5.0
Distillates	21.0	24.3	31.8	27.5	27.4	-0.3
Residuals	7.8	3.9	4.2	4.8	3.7	-22.3
Others	33.3	29.3	26.8	31.6	29.0	-8.2
Saudi Arabia	1,873.6	1,970.9	1,911.0	1,914.0	1,856.7	-3.0
Gasoline	351.7	338.8	355.1	375.6	390.6	4.0
Kerosene	184.3	190.4	174.0	168.2	166.4	-1.1
Distillates	653.4	676.1	623.8	633.5	628.5	-0.8
Residuals	477.8	476.5	497.6	445.4	416.9	-6.4
Others	206.3	289.2	260.5	291.3	254.3	-12.7
United Arab Emirates	393.0	395.9	314.9	355.4	446.2	25.6
Gasoline	54.6	50.6	35.6	43.1	57.3	33.1
Kerosene	107.5	106.4	97.0	101.7	134.8	32.6
Distillates	86.7	86.0	73.1	79.5	99.8	25.4
Residuals	20.1	16.5	15.3	15.9	18.3	15.1
Others	124.1	136.5	93.9	115.2	136.0	18.1
Venezuela	1,056.2	1,142.7	1,232.4	1,414.8	1,131.7	-20.0
Gasoline	298.1	309.3	307.5	297.8	309.3	3.9
Kerosene	81.4	78.7	79.2	74.8	78.2	4.5
Distillates	274.8	316.5	339.2	257.2	304.3	18.3
Residuals	216.3	286.4	308.8	256.3	312.8	22.0
Others	185.7	151.9	197.7	528.7	127.0	-76.0

Notes: Totals may not add up due to independent rounding. Data may include production of gas plants, GTL and condensate refineries. Totals are calculated using 1,000 barrels daily figures. Annual changes are calculated using 1,000 barrels per annum figures.

Table 3.14

Oil and gas data

World output of petroleum products by country (1,000 b/d)

	2007	2008	2009	2010	2011	% change 11/10
North America	20,051.0	19,977.6	19,806.6	19,815.6	20,526.9	3.6
Canada	2,095.1	2,006.4	1,944.1	1,947.1	1,890.8	-2.9
United States	17,955.9	17,971.2	17,862.5	17,868.4	18,636.1	4.3
Latin America	7,263.9	7,605.6	7,786.5	7,980.6	7,396.9	-7.3
Argentina	671.8	673.4	612.7	620.1	422.3	-31.9
Brazil	1,754.3	1,941.9	1,952.3	1,956.7	1,884.0	-3.7
Ecuador	170.2	194.3	189.3	185.1	217.3	17.4
Mexico	1,457.0	1,434.1	1,514.9	1,516.7	1,409.9	-7.0
Venezuela	1,056.2	1,142.7	1,232.4	1,414.8	1,131.7	-20.0
Virgin Islands	452.0	457.7	462.9	463.0	466.5	0.8
Others	1,702.4	1,761.4	1,821.9	1,824.1	1,865.2	2.3
Eastern Europe and Eurasia	7,414.3	7,676.3	8,036.6	8,055.9	8,009.3	-0.6
Bulgaria	150.5	149.8	138.3	145.0	124.1	-14.4
Romania	290.5	287.3	253.7	256.5	221.1	-13.8
Russia	6,108.5	6,357.1	6,425.1	6,428.8	6,432.4	0.1
Others	864.8	882.0	1,219.6	1,225.6	1,231.7	0.5
Western Europe	14,761.0	15,289.7	13,796.0	13,834.7	13,186.5	-4.7
Belgium	785.8	815.0	691.3	695.3	665.0	-4.4
France	1,789.9	1,846.3	1,659.0	1,662.8	1,525.8	-8.2
Germany	2,450.8	2,534.8	2,257.8	2,259.1	2,099.4	-7.1
Italy	2,024.8	2,093.2	1,754.3	1,759.6	1,706.4	-3.0
Netherlands	1,546.5	1,606.2	1,414.6	1,414.9	1,217.4	-14.0
Norway	337.0	348.2	312.6	317.0	317.6	0.2
Portugal	270.0	278.8	225.9	228.4	219.6	-3.9
Spain	1,210.2	1,250.3	1,186.8	1,193.6	1,145.3	-4.1
United Kingdom	1,671.4	1,740.1	1,547.3	1,548.4	1,551.9	0.2
Others	2,674.7	2,776.9	2,746.4	2,755.4	2,738.1	-0.6
Middle East	6,334.2	6,643.1	6,522.8	6,652.8	6,714.7	0.9
IR Iran	1,498.0	1,587.0	1,726.1	1,743.3	1,770.2	1.5
Iraq	480.8	453.2	456.6	513.2	613.2	19.5
Kuwait	877.4	1,003.2	892.7	979.4	881.9	-10.0
Qatar	131.8	126.2	126.3	133.0	127.0	-4.5
Saudi Arabia	1,873.6	1,970.9	1,911.0	1,914.0	1,856.7	-3.0
United Arab Emirates	393.0	395.9	400.4	355.4	446.2	25.6
Others	1,079.5	1,106.7	1,009.7	1,014.6	1,019.4	0.5
Africa	3,067.2	2,965.2	2,544.2	2,975.0	2,695.8	-9.4
Algeria	501.8	516.5	411.6	631.5	501.3	-20.6
Angola	60.6	47.8	46.2	47.0	39.4	-16.2
Egypt	553.9	558.8	479.8	480.9	548.3	14.0
Gabon	17.8	18.1	13.4	18.0	22.6	25.6
Libya	497.0	362.7	350.0	545.8	473.2	-13.3
Nigeria	378.7	372.2	249.4	249.4	100.3	-59.8
Others	1,057.3	1,089.2	993.8	1,002.3	1,010.8	0.8
Asia and Pacific	22,477.4	22,883.6	22,934.0	22,989.9	24,247.9	5.5
Australia	686.6	667.2	657.8	661.0	662.3	0.2
China	6,627.8	6,962.8	7,542.3	7,548.6	8,969.6	18.8
India	3,026.7	3,171.2	3,161.2	3,166.9	3,347.7	5.7
Indonesia	1,213.2	1,184.1	1,184.1	1,190.7	972.6	-18.3
Japan	4,338.2	4,262.0	3,956.8	3,963.8	3,755.4	-5.3
Philippines	205.3	184.1	146.7	152.6	188.6	23.6
Singapore	1,062.7	1,106.8	1,054.8	1,056.1	1,057.4	0.1
South Korea	2,600.5	2,567.8	2,498.8	2,499.1	2,712.9	8.6
New Zealand	102.5	107.2	105.0	113.9	114.8	0.7
Chinese Tapei	1,011.2	1,002.3	1,035.2	1,044.7	873.1	-16.4
Others	1,602.8	1,668.1	1,591.4	1,592.4	1,593.5	0.1
Total world	81,368.9	83,041.0	81,426.7	82,304.5	82,778.0	0.6
<i>of which</i>						
OPEC	7,919.2	8,172.6	7,992.1	8,712.0	8,158.4	-6.4
OPEC percentage	9.7	9.8	9.8	10.6	9.9	-6.9
OECD	44,525.9	44,079.5	42,652.7	44,451.8	42,712.3	-3.9
FSU	6,655.2	6,983.0	7,018.8	7,023.8	7,128.7	1.5

Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series. Data exclude production of gas plants. Annual changes and shares of totals are calculated using 1,000 barrels per annum figures.

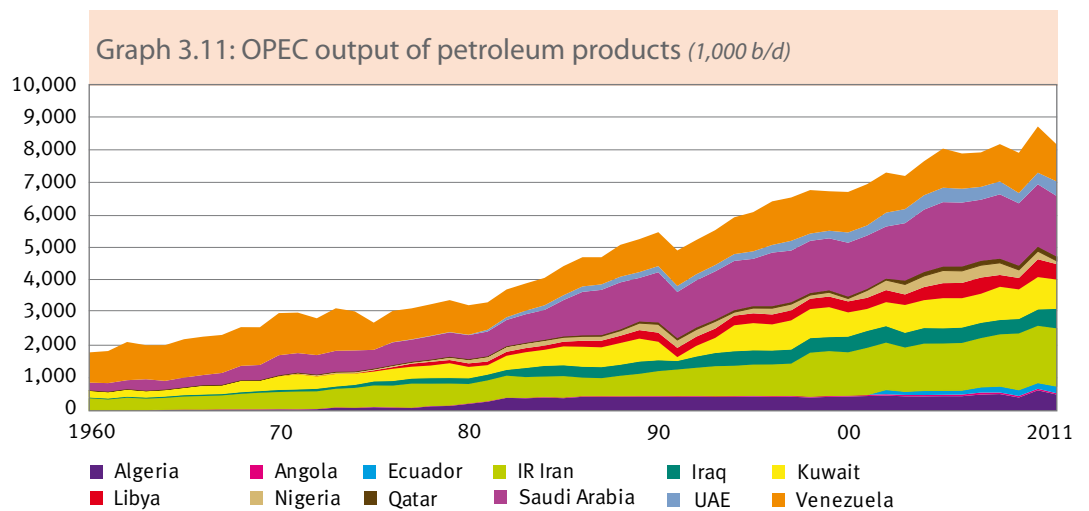
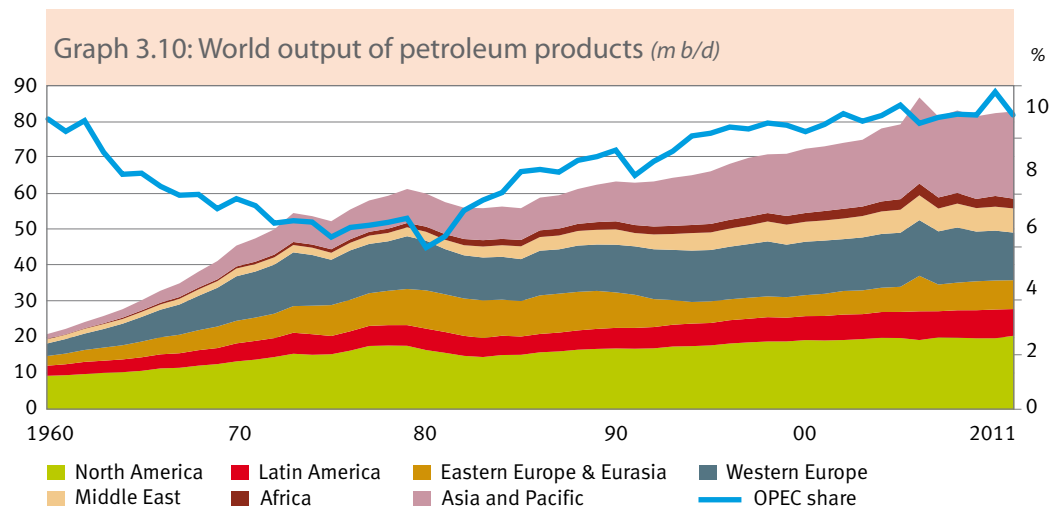
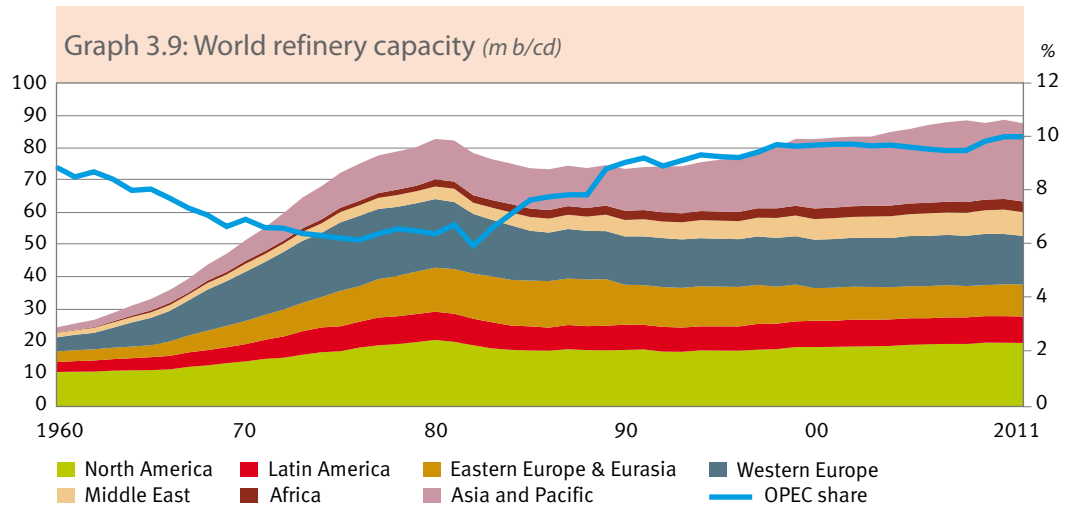


Table 3.15

Oil and gas data

Oil consumption by main petroleum products in OPEC Members (1,000 b/d)

	2007	2008	2009	2010	2011	% change 11/10
Algeria	282.6	309.6	315.4	343.6	329.5	-4.1
Gasoline	48.3	52.4	54.7	68.3	67.4	-1.3
Kerosene	8.1	8.9	9.6	9.9	10.1	2.3
Distillates	145.5	160.0	164.3	184.4	177.1	-3.9
Residuals	4.4	9.3	5.0	5.2	4.0	-22.4
Others	76.3	79.0	81.9	75.8	70.8	-6.7
Angola	76.9	80.8	81.6	87.9	89.6	2.0
Gasoline	18.3	19.3	19.5	20.8	21.2	1.9
Kerosene	5.1	5.4	5.4	5.8	6.0	4.2
Distillates	39.1	41.5	42.4	46.0	46.5	1.0
Residuals	7.1	7.2	6.6	6.8	7.2	5.9
Others	7.4	7.4	7.6	8.5	8.7	3.0
Ecuador	192.5	197.3	222.4	241.7	255.9	5.9
Gasoline	34.2	36.7	39.3	42.4	44.4	4.6
Kerosene	7.8	7.3	7.5	7.5	7.5	-0.3
Distillates	60.7	64.5	74.3	84.4	81.6	-3.4
Residuals	44.2	40.5	49.6	49.3	56.8	15.1
Others	45.6	48.4	51.8	58.0	65.7	13.2
IR Iran	1,718.6	1,813.8	1,858.8	1,820.4	1,776.8	-2.4
Gasoline	389.4	414.4	423.1	399.6	372.3	-6.8
Kerosene	169.9	181.5	206.6	184.6	134.6	-27.1
Distillates	534.0	551.7	560.0	547.5	592.2	8.2
Residuals	353.6	384.2	386.3	400.5	378.3	-5.6
Others	271.7	282.0	282.8	288.2	299.5	3.9
Iraq	582.6	600.2	662.6	693.9	751.7	8.3
Gasoline	92.1	94.8	99.3	115.2	129.0	12.0
Kerosene	59.5	62.1	66.1	67.4	66.5	-1.3
Distillates	135.3	108.5	108.8	109.9	139.4	26.9
Residuals	111.9	118.5	129.7	143.7	154.0	7.1
Others	183.9	216.3	258.7	257.6	262.8	2.0
Kuwait	316.4	324.0	340.6	358.2	361.0	0.8
Gasoline	53.5	55.2	56.9	62.9	59.1	-6.1
Kerosene	13.9	15.7	17.4	17.7	18.1	2.4
Distillates	33.5	43.2	56.1	58.4	51.8	-11.4
Residuals	134.2	152.4	124.6	123.6	133.7	8.1
Others	81.3	57.6	85.6	95.5	98.4	3.0
Libya	233.6	253.2	272.9	301.1	231.3	-23.2
Gasoline	60.1	64.7	66.8	75.9	97.8	28.7
Kerosene	13.2	11.6	12.3	13.8	9.1	-34.4
Distillates	78.9	88.8	104.9	115.5	82.9	-28.2
Residuals	41.3	43.8	51.3	57.8	25.3	-56.2
Others	40.1	44.2	37.5	38.1	16.3	-57.2

Table 3.15

Oil and gas data

Oil consumption by main petroleum products in OPEC Members (1,000 b/d)

	2007	2008	2009	2010	2011	% change 11/10
Nigeria	222.5	246.6	237.2	270.6	267.1	-1.3
Gasoline	142.4	163.0	168.2	187.5	178.8	-4.6
Kerosene	35.4	34.8	25.3	30.6	30.5	-0.3
Distillates	28.2	30.0	28.2	35.8	40.5	12.9
Residuals	12.0	14.3	10.9	11.9	12.6	5.6
Others	4.5	4.6	4.6	4.8	4.7	-1.9
Qatar	81.9	105.0	109.2	118.3	124.9	5.6
Gasoline	20.6	22.3	24.7	25.1	26.9	7.1
Kerosene	16.0	18.4	19.7	24.9	31.1	24.9
Distillates	25.2	36.3	36.3	38.9	44.1	13.5
Residuals	-	-	-	-	-	-
Others	20.2	28.0	28.5	29.4	22.8	-22.5
Saudi Arabia	2,073.9	2,252.5	2,362.4	2,599.5	2,713.7	4.4
Gasoline	347.2	373.5	397.6	414.7	445.1	7.3
Kerosene	57.8	61.8	60.9	63.7	65.5	2.8
Distillates	532.3	577.8	605.0	618.9	651.0	5.2
Residuals	350.6	363.8	275.5	275.4	310.9	12.9
Others	786.1	875.5	1,023.4	1,226.8	1,241.2	1.2
United Arab Emirates	569.3	597.8	565.3	591.1	617.6	4.5
Gasoline	79.4	86.9	91.3	96.1	101.6	5.7
Kerosene	81.4	85.0	94.2	98.0	101.7	3.8
Distillates	95.9	98.8	96.1	97.0	99.4	2.5
Residuals	281.0	293.9	250.2	265.7	280.3	5.5
Others	31.6	33.2	33.5	34.3	34.7	1.0
Venezuela	675.7	650.2	679.6	675.1	741.7	9.9
Gasoline	274.0	286.9	289.9	290.0	292.9	1.0
Kerosene	5.6	5.4	5.7	6.5	5.7	-12.0
Distillates	137.8	149.7	153.4	169.0	182.8	8.1
Residuals	52.9	45.2	64.5	62.1	63.4	2.1
Others	205.4	163.1	166.1	147.5	196.9	33.5
OPEC	7,026.6	7,431.0	7,708.0	8,101.2	8,260.8	2.0
Gasoline	1,559.5	1,670.1	1,731.2	1,798.4	1,836.3	2.1
Kerosene	473.5	497.9	530.6	530.5	486.5	-8.3
Distillates	1,846.4	1,950.7	2,029.9	2,105.7	2,189.3	4.0
Residuals	1,393.2	1,473.0	1,354.2	1,402.1	1,426.4	1.7
Others	1,754.0	1,839.3	2,062.0	2,264.5	2,322.3	2.6

Notes: Revisions have been made throughout the time series.

Table 3.16

Oil and gas data

World oil consumption by country (1,000 b/d)

	2007	2008	2009	2010	2011	% change 11/10
North America	23,313.4	22,023.7	21,225.3	21,689.8	21,435.8	-1.2
Canada	2,283.1	2,231.5	2,157.4	2,210.7	2,239.7	1.3
United States	21,027.5	19,789.6	19,065.3	19,476.5	19,193.7	-1.5
Others	2.7	2.6	2.6	2.6	2.5	-5.7
Latin America	7,811.0	8,023.3	8,027.5	8,223.8	8,449.0	2.7
Argentina	527.4	595.2	600.2	631.4	652.3	3.3
Brazil	2,381.5	2,518.4	2,572.1	2,709.2	2,779.8	2.6
Colombia	270.8	273.9	276.1	277.8	282.1	1.5
Ecuador	192.5	197.3	222.4	241.7	255.9	5.9
Mexico	2,172.9	2,161.1	2,070.6	2,072.9	2,078.2	0.3
Venezuela	675.7	650.2	679.6	675.1	741.7	9.9
Others	1,590.2	1,627.2	1,606.6	1,615.7	1,659.0	2.7
Eastern Europe and Eurasia	5,385.4	5,432.4	5,294.4	5,473.8	5,574.1	1.8
Czech Republic	211.3	211.3	205.4	195.6	192.3	-1.7
Hungary	160.8	158.8	158.1	146.4	141.3	-3.5
Kazakhstan	246.7	266.5	253.4	261.8	271.5	3.7
Poland	521.6	534.1	538.1	568.3	579.3	1.9
Romania	213.0	194.5	176.1	164.9	163.3	-0.9
Russia	2,913.3	3,036.3	2,935.7	3,199.3	3,269.3	2.2
Slovakia	83.3	86.0	80.5	83.6	80.7	-3.4
Ukraine	337.9	322.5	288.3	256.1	261.2	2.0
Others	697.5	622.5	658.8	597.9	615.2	2.9
Western Europe	14,925.9	14,816.7	14,090.9	13,983.0	13,690.7	-2.1
France	1,979.1	1,945.5	1,870.2	1,861.1	1,823.9	-2.0
Germany	2,419.7	2,545.3	2,452.0	2,495.0	2,423.3	-2.9
Italy	1,728.7	1,666.7	1,543.4	1,528.4	1,455.8	-4.8
Netherlands	1,111.0	1,068.6	1,005.2	1,009.0	1,005.9	-0.3
Spain	1,610.5	1,546.7	1,467.2	1,440.9	1,383.5	-4.0
United Kingdom	1,734.1	1,725.4	1,645.7	1,622.4	1,602.1	-1.3
Others	4,342.9	4,318.5	4,107.3	4,026.1	3,996.2	-0.7
Middle East	6,516.8	6,930.7	7,100.6	7,364.9	7,556.3	2.6
IR Iran	1,718.6	1,813.8	1,858.8	1,820.4	1,776.8	-2.4
Iraq	582.6	600.2	662.6	693.9	751.7	8.3
Kuwait	316.4	324.0	340.6	358.2	361.0	0.8
Qatar	81.9	105.0	109.2	118.3	124.9	5.6
Saudi Arabia	2,073.9	2,252.5	2,362.4	2,599.5	2,713.7	4.4
Syrian Arab Republic	357.9	393.9	347.2	320.1	301.5	-5.8
United Arab Emirates	569.3	597.8	565.3	591.1	617.6	4.5
Others	816.1	843.4	854.5	863.6	909.0	5.3
Africa	3,052.3	3,185.9	3,246.9	3,348.5	3,360.4	0.4
Algeria	282.6	309.6	315.4	343.6	329.5	-4.1
Angola	76.9	80.8	81.6	87.9	89.6	2.0
Egypt	693.8	697.7	709.4	716.4	751.1	4.8
Libya	233.6	253.2	272.9	301.1	231.3	-23.2
Nigeria	222.5	246.6	237.2	270.6	267.1	-1.3
Tunisia	88.0	84.0	85.2	86.8	87.9	1.3
Others	1,454.8	1,514.1	1,545.2	1,542.1	1,604.0	4.0
Asia and Pacific	25,543.3	25,654.8	25,788.7	26,906.2	27,726.7	3.0
Australia	951.8	963.8	951.1	960.6	997.4	3.8
China	7,586.7	7,971.5	8,253.9	8,951.2	9,409.9	5.1
India	2,999.3	3,071.8	3,231.1	3,305.9	3,432.6	3.8
Indonesia	1,244.0	1,247.5	1,285.8	1,332.5	1,370.6	2.9
Japan	5,037.1	4,788.3	4,393.8	4,452.5	4,481.0	0.6
New Zealand	156.0	157.2	152.0	151.5	147.2	-2.8
South Korea	2,240.7	2,142.2	2,188.2	2,251.6	2,227.1	-1.1
Thailand	937.7	911.2	931.1	945.8	998.6	5.6
Others	4,389.9	4,401.4	4,401.8	4,554.5	4,662.4	2.4
Total world	86,548.0	86,067.6	84,774.3	86,990.1	87,793.2	0.9
<i>of which</i>						
OPEC	7,026.6	7,431.0	7,708.0	8,101.2	8,260.8	2.0
<i>OPEC percentage</i>	<i>8.1</i>	<i>8.6</i>	<i>9.1</i>	<i>9.3</i>	<i>9.4</i>	<i>1.0</i>
OECD	50,029.1	48,329.3	46,307.4	46,816.4	46,324.9	-1.0
FSU	4,043.5	4,106.9	3,999.9	4,183.1	4,289.9	2.6

Notes: Revisions have been made throughout the time series.

OPEC Members' crude oil exports by destination (1,000 b/d), 2011

	Total world	Europe	North America	Asia and Pacific	Latin America	Africa	Middle East
Middle East	16,654	2,187	2,035	11,299	183	387	287
IR Iran	2,537	741	–	1,392	–	127	–
Iraq	2,166	474	460	1,125	106	–	1
Kuwait	1,816	79	195	1,500	–	42	–
Qatar	588	–	–	585	2	–	1
Saudi Arabia	7,218	890	1,313	4,487	75	169	284
United Arab Emirates	2,330	3	66	2,211	–	49	1
North Africa	997	511	289	158	6	33	–
Algeria	698	291	289	112	6	–	–
Libya	300	220	–	46	–	33	–
Africa	3,919	934	1,935	742	206	103	–
Nigeria	2,377	744	1,233	91	206	103	–
Angola	1,543	190	702	651	–	–	–
Latin America	1,887	87	627	333	840	–	–
Ecuador	334	–	207	11	116	–	–
Venezuela	1,553	87	419	323	724	–	–
OPEC	23,457	3,720	4,885	12,532	1,234	523	287

Notes: Totals may not add up due to independent rounding.
Includes exports of lease condensates, changes in the quantity of oil in transit, movements not otherwise shown, unspecified use, etc.

Graph 3.12: OPEC Members' crude oil exports by destination, 2011 (1,000 b/d)

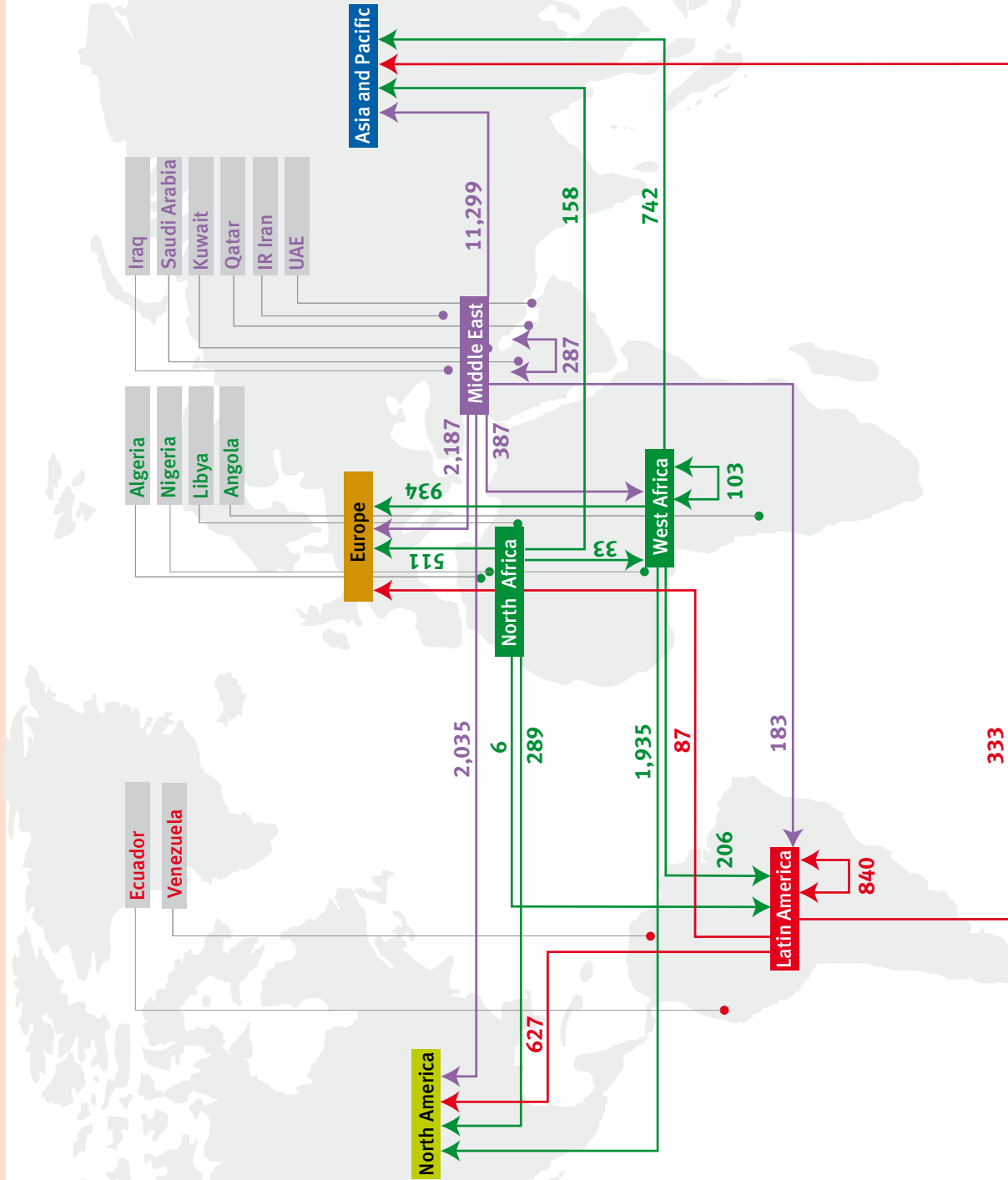


Table 3.18

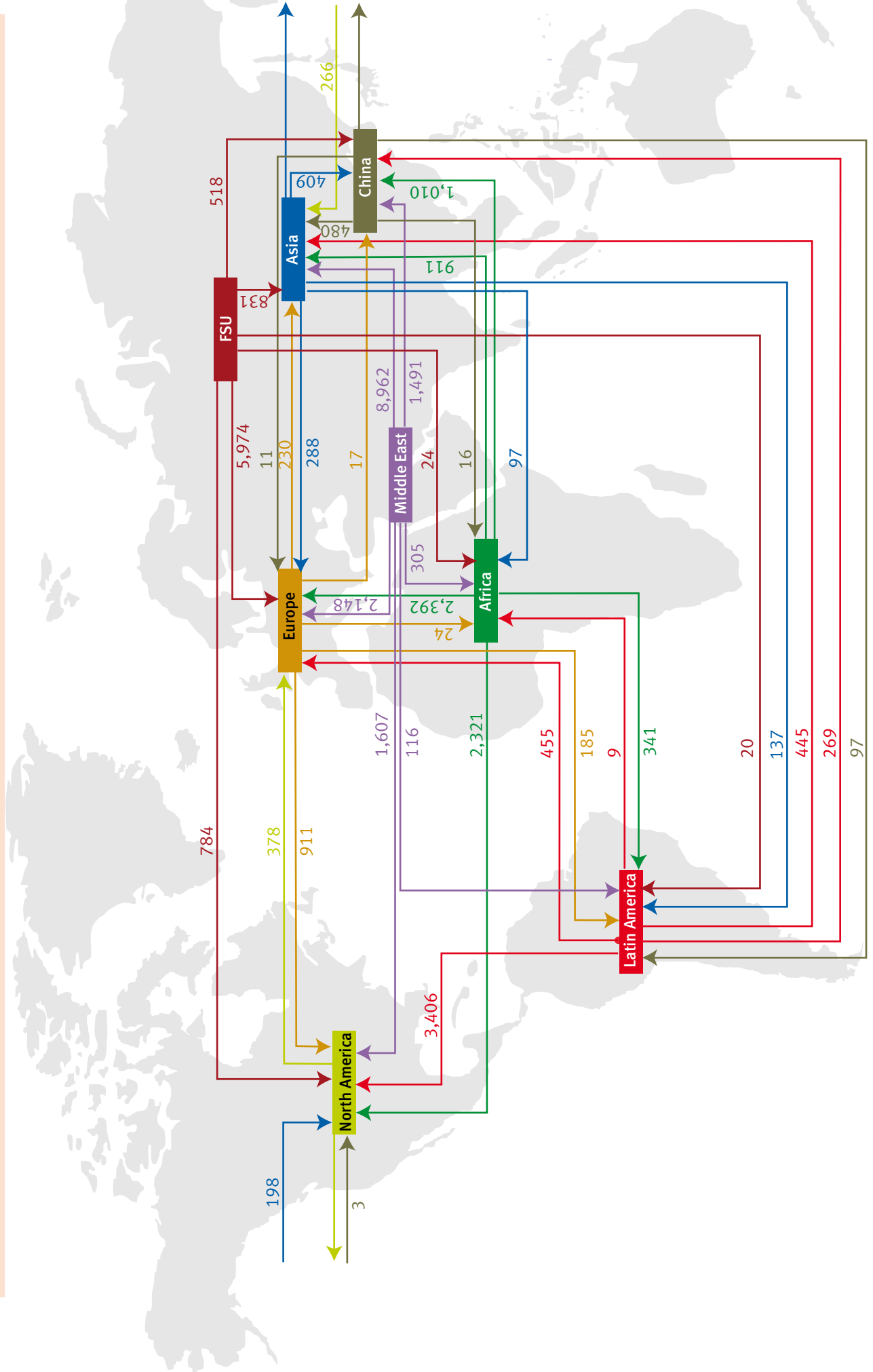
Oil and gas data

World crude oil exports by country (1,000 b/d)

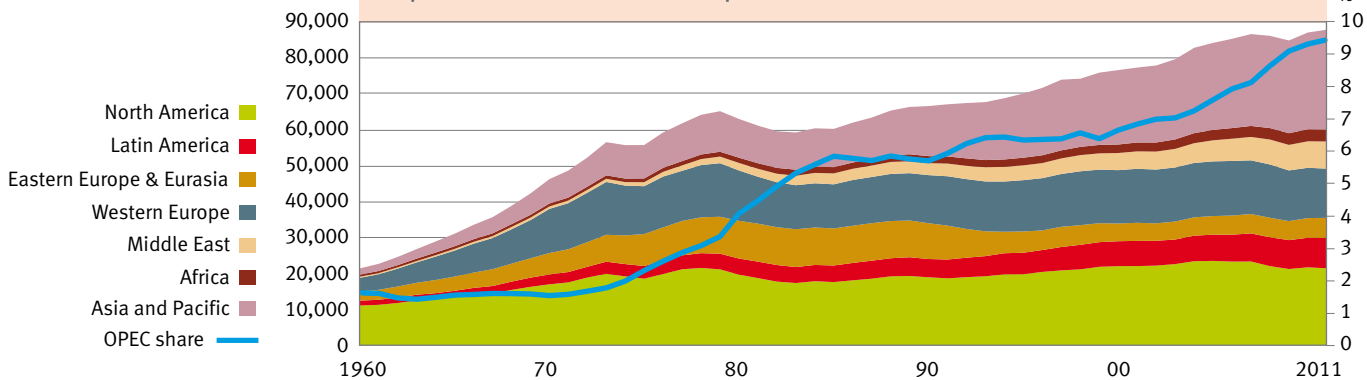
	2007	2008	2009	2010	2011	% change 11/10
North America	1,422	1,564	1,535	1,431	1,735	21.2
Canada	1,401	1,525	1,491	1,388	1,688	21.6
United States	21	39	44	44	47	7.4
Latin America	4,727	4,479	4,271	4,203	4,566	8.6
Columbia	244	346	358	482	399	-17.3
Ecuador	342	348	329	340	334	-1.8
Mexico	1,738	1,446	1,312	1,459	1,420	-2.7
Trinidad & Tobago	26	10	9	44	40	-10.4
Venezuela	2,116	1,770	1,608	1,562	1,553	-0.6
Others	262	559	655	316	821	160.1
Eastern Europe and Eurasia	5,279	5,058	5,630	5,632	5,809	3.2
Russia	5,264	5,046	5,608	5,609	5,786	3.2
Others	14	12	22	23	23	-
Western Europe	3,222	2,786	2,775	2,451	2,248	-8.3
Norway	2,012	1,702	1,773	1,605	1,423	-11.4
United Kingdom	933	840	776	741	563	-24.0
Others	277	243	226	105	262	150.3
Middle East	16,948	17,575	15,498	16,322	17,742	8.7
IR Iran	2,639	2,574	2,406	2,583	2,537	-1.8
Iraq	1,643	1,855	1,906	1,890	2,166	14.6
Kuwait	1,613	1,739	1,348	1,430	1,816	27.0
Oman	683	593	574	745	738	-1.0
Qatar	615	703	647	586	588	0.2
Saudi Arabia	6,962	7,322	6,268	6,644	7,218	8.6
Syrian Arab Republic	250	253	250	149	114	-23.7
United Arab Emirates	2,343	2,334	1,953	2,103	2,330	10.8
Others	200	203	147	191	236	23.2
Africa	6,883	6,397	6,771	6,613	5,355	-19.0
Algeria	1,253	841	747	709	698	-1.6
Angola	1,158	1,044	1,770	1,683	1,543	-8.3
Cameroon	99	99	89	79	68	-13.0
Congo	239	240	216	180	145	-19.8
Egypt	44	98	102	87	83	-4.7
Gabon	207	209	188	158	127	-19.3
Libya	1,378	1,403	1,170	1,118	300	-73.2
Nigeria	2,144	2,098	2,160	2,464	2,377	-3.6
Others	361	364	327	136	15	-88.8
Asia and Pacific	1,791	1,743	1,613	1,506	1,399	-7.1
Australia	239	239	248	314	272	-13.4
Brunei	182	164	152	161	170	5.7
China	76	107	104	40	51	25.4
Indonesia	319	294	250	356	301	-15.4
Malaysia	401	402	372	369	260	-29.6
Vietnam	276	206	202	153	104	-32.2
Others	298	330	284	112	242	114.9
Total world	40,273	39,602	38,093	38,158	38,854	1.8
<i>of which</i>						
OPEC	24,205.1	24,031.7	22,312.7	23,112.1	23,457.4	1.5
<i>OPEC percentage</i>	<i>60.1</i>	<i>60.7</i>	<i>58.6</i>	<i>60.6</i>	<i>60.4</i>	
OECD	5,372	5,048	5,013	4,772	5,662	18.7
FSU	6,622	6,471	6,653	6,750	6,500	-3.7

Notes: Revisions have been made throughout the time series. Data includes exports of lease condensates, re-exports, changes in the quantity of oil in transit, movements not otherwise shown, unspecified use, etc.

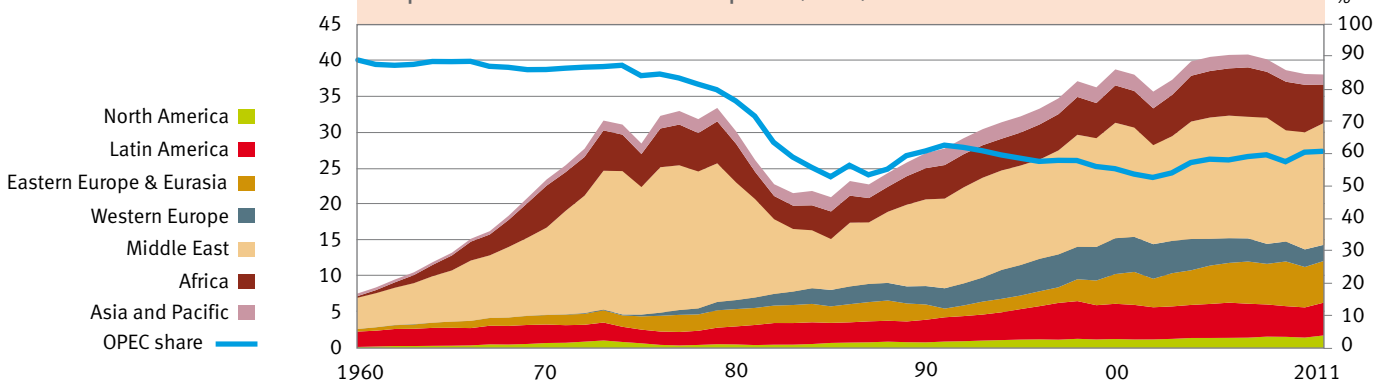
Graph 3.13: World crude oil exports by destination, 2011 (1,000 b/d)



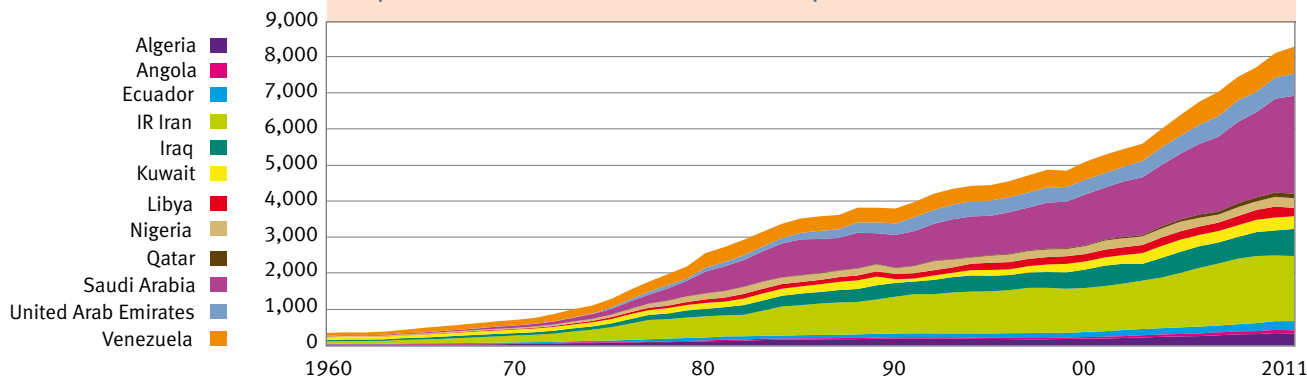
Graph 3.14: World oil consumption (1,000 b/d)



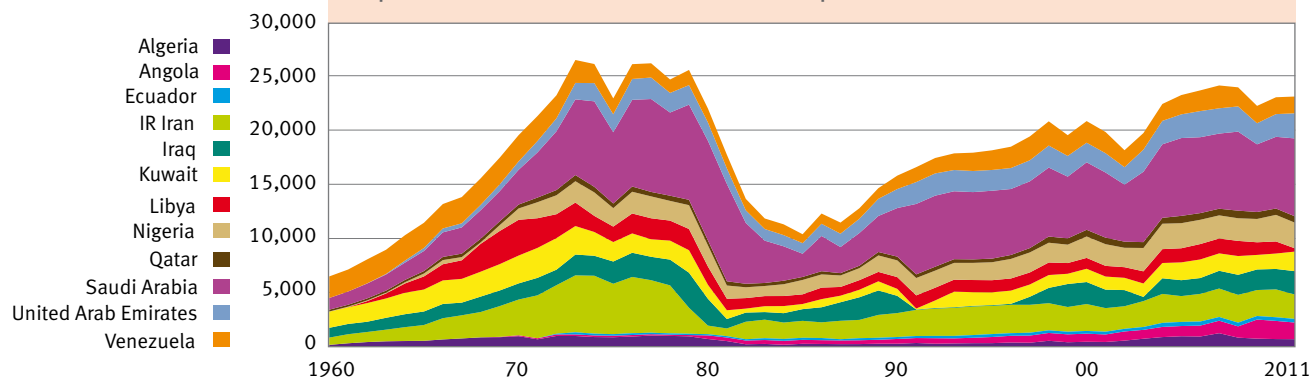
Graph 3.15: World crude oil exports (m b/d)



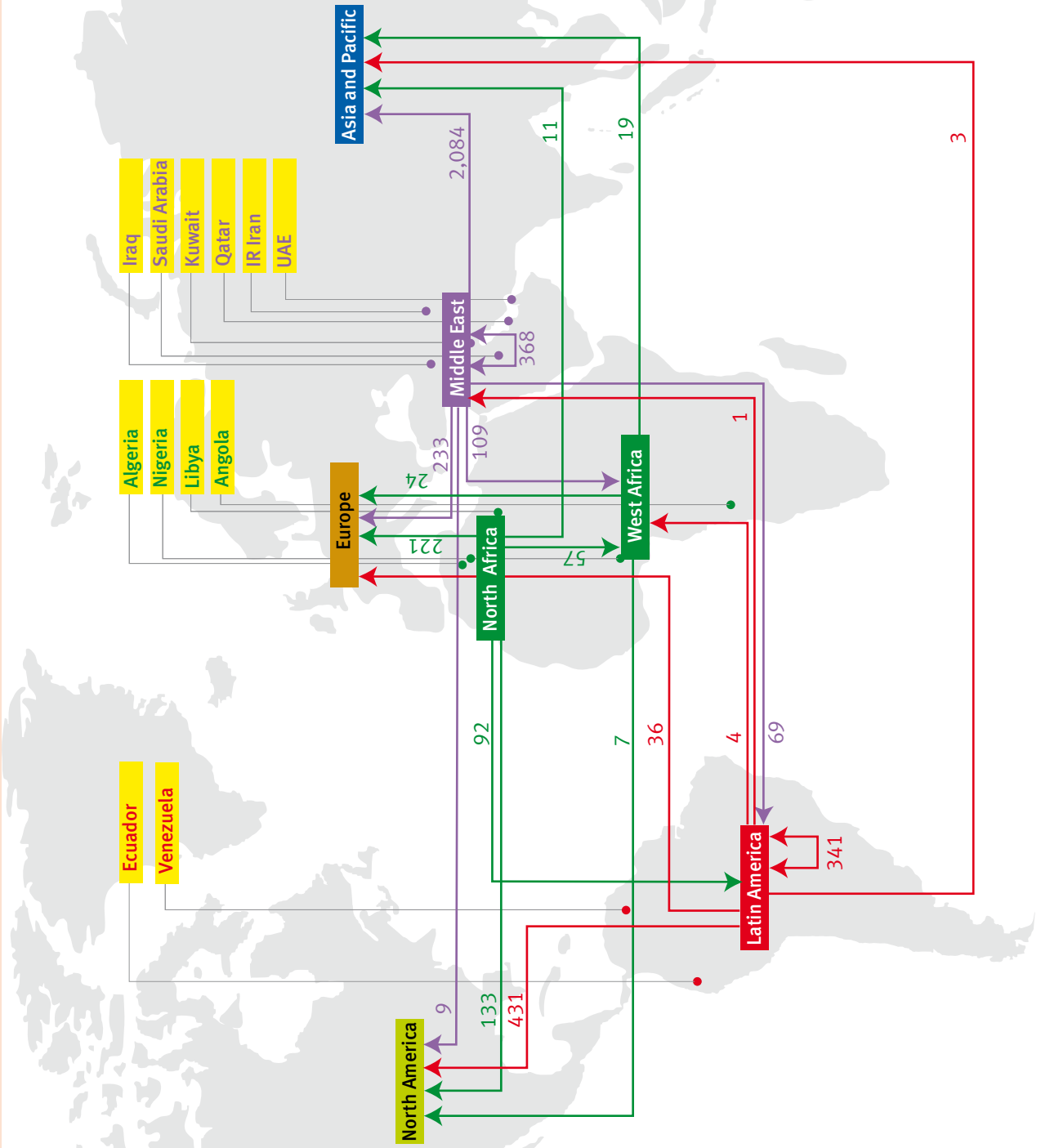
Graph 3.16: OPEC Members' oil consumption (1,000 b/d)



Graph 3.17: OPEC Members' crude oil exports (1,000 b/d)



Graph 3.18: OPEC Members' petroleum products by destination, 2011 (1,000 b/d)



OPEC Members' petroleum products exports by destination, 2011 (1,000 b/d)

	Total world ¹	Europe	North America	Asia and Pacific	Latin America	Africa	Middle East
Middle East	2,872	233	9	2,084	69	109	368
IR Iran	441	–	–	441	–	–	–
Iraq	164	41	1	68	31	–	23
Kuwait	629	51	2	576	–	–	–
Qatar	509	23	–	432	2	5	47
Saudi Arabia	902	117	5	497	26	98	160
United Arab Emirates	227	1	1	71	10	6	138
North Africa	513	221	133	11	92	57	–
Algeria	492	205	131	11	92	55	–
Libya	21	17	2	–	–	2	–
West Africa	50	24	7	19	–	–	–
Angola	26	–	7	19	–	–	–
Nigeria	24	24	–	–	–	–	–
Latin America	815	36	431	3	341	4	1
Ecuador	29	–	2	–	27	–	–
Venezuela	786	36	429	3	315	4	1
OPEC	4,250	514	579	2,117	502	169	369

Notes:

1. Includes changes in the quantity of oil in transit, movements not otherwise shown, unspecified use, etc.

Table 3.20

Oil and gas data

World exports of petroleum products by country (1,000 b/d)

	2007	2008	2009	2010	2011	% change 11/10
North America	1,673	2,086	2,221	2,474	2,934	18.6
Canada	443	445	431	411	387	-5.9
United States	1,230	1,641	1,790	2,063	2,547	23.5
Others	-	-	-	-	-	-
Latin America	2,299	2,510	2,425	2,144	2,167	1.1
Brazil	193	163	155	124	124	-0.3
Ecuador	40	42	34	28	29	2.5
Mexico	221	244	219	209	194	-7.1
Netherland Antilles	230	231	201	203	184	-9.5
Trinidad & Tobago	104	94	78	61	116	89.2
Venezuela	639	912	956	751	786	4.7
Virgin Islands	419	421	394	367	340	-7.4
Others	453	403	388	400	394	-1.5
Eastern Europe and Eurasia	2,015	1,450	1,613	2,624	2,759	5.2
Romania	95	101	196	76	90	19.4
Russia	1,730	1,127	1,221	2,243	2,208	-1.6
Others	191	222	196	305	461	51.2
Western Europe	5,680	5,679	5,545	5,842	6,160	5.4
Belgium	430	400	343	339	378	11.5
France	531	571	466	446	430	-3.6
Germany	572	517	454	363	366	0.9
Italy	585	527	427	559	507	-9.3
Netherlands	1,565	1,645	1,913	2,106	2,078	-1.3
United Kingdom	611	561	521	543	575	5.9
Others	1,386	1,459	1,421	1,486	1,826	22.9
Middle East	3,199	2,960	3,001	2,844	3,188	12.1
Bahrain	253	238	222	231	217	-5.9
IR Iran	388	275	301	371	441	19.1
Iraq	66	85	26	5	164	3159.9
Kuwait	739	708	674	632	629	-0.4
Qatar	74	98	249	322	509	58.2
Saudi Arabia	1,139	1,058	1,008	951	902	-5.1
United Arab Emirates	408	359	374	188	227	20.7
Others	133	139	146	146	99	-32.5
Africa	1,077	1,010	755	559	662	18.5
Algeria	451	457	232	314	492	56.7
Angola	27	41	41	8	26	251.7
Egypt	65	67	64	29	21	-28.0
Gabon	7	7	6	5	7	38.6
Nigeria	53	19	12	23	24	1.9
Libya	198	157	136	48	21	-57.3
Others	275	263	264	132	72	-45.6
Asia and Pacific	4,263	5,055	5,291	5,322	5,257	-1.2
Australia	64	50	49	43	36	-15.6
China	313	456	523	583	621	6.6
Indonesia	107	103	82	85	92	8.7
Japan	287	406	391	369	345	-6.3
Malaysia	248	189	286	303	224	-26.1
Singapore	1,475	1,623	1,766	1,767	1,671	-5.4
Others	1,769	2,228	2,193	2,257	2,267	0.5
Total world	20,206.7	20,751.5	20,850.2	21,808.9	23,128.4	6.1
<i>of which</i>						
OPEC	4,222.0	4,210.5	4,043.0	3,639.8	4,250.2	16.8
<i>OPEC percentage</i>	<i>20.9</i>	<i>20.3</i>	<i>19.4</i>	<i>16.7</i>	<i>18.4</i>	<i>10.1</i>
OECD	7,729.9	8,248.8	8,229.3	8,754.8	9,509.8	8.6
FSU	2,813.9	2,305.0	2,837.0	2,578.0	2,518.0	-2.3

Notes: Revisions have been made throughout the time series. Data includes re-exports of petroleum products from gas plants. Annual changes and shares of totals are calculated using 1,000 barrels per annum figures. Includes changes in the quantity of petroleum products in transit, movements not otherwise shown, unspecified use, etc.

Table 3.21

Oil and gas data

World exports of crude oil and petroleum products by country (1,000 b/d)

	2007	2008	2009	2010	2011	% change 11/10
North America	3,095.1	3,524.5	3,677.7	3,951.0	4,438.6	12.3
Canada	1,844.3	1,844.3	1,844.3	1,844.3	1,844.3	–
United States	1,250.7	1,680.1	1,833.3	2,106.6	2,594.2	23.1
Others	0.1	0.1	0.1	0.1	0.1	–
Latin America	7,026.6	6,989.0	6,696.2	6,346.8	6,733.1	6.1
Ecuador	381.7	390.7	362.5	367.8	362.3	–1.5
Mexico	1,959.8	1,689.3	1,530.5	1,667.9	1,614.0	–3.2
Netherland Antilles	229.6	231.5	201.5	203.5	184.1	–9.5
Trinidad & Tobago	130.4	104.5	87.4	105.2	155.1	47.5
Venezuela	2,754.4	2,681.9	2,564.1	2,313.1	2,339.7	1.2
Virgin Islands	419.0	421.3	394.3	367.3	340.3	–7.4
Others	1,151.6	1,470.0	1,556.0	1,322.1	1,737.6	31.4
Eastern Europe and Eurasia	7,294.1	6,508.2	7,243.3	8,255.7	8,568.8	3.8
Russia	6,993.8	6,173.2	6,828.8	7,852.2	7,994.3	1.8
Others	300.4	335.1	414.6	403.5	574.4	42.4
Western Europe	8,901.8	8,464.8	8,319.1	8,293.4	8,408.7	1.4
Belgium	429.5	400.3	343.1	339.1	378.1	11.5
France	530.8	570.7	465.6	445.8	429.8	–3.6
Germany	571.8	516.9	454.0	362.6	366.0	0.9
Italy	584.8	527.4	427.3	558.8	506.8	–9.3
Netherlands	1,565.3	1,644.6	1,912.5	2,106.4	2,078.3	–1.3
United Kingdom	1,544.3	1,494.0	1,454.4	1,476.4	1,508.4	2.2
Others	3,675.5	3,404.3	3,419.8	3,296.6	3,141.3	–4.7
Middle East	20,147.6	20,535.0	18,499.1	19,166.6	20,442.3	6.7
Bahrain	253.2	237.9	222.3	230.6	217.1	–5.9
IR Iran	3,027.3	2,848.9	2,706.8	2,953.6	2,978.3	0.8
Iraq	1,708.6	1,940.1	1,931.8	1,895.5	2,329.5	22.9
Kuwait	2,352.0	2,446.4	2,021.8	2,061.2	2,445.3	18.6
Qatar	689.0	800.8	896.0	908.1	1,096.7	20.8
Saudi Arabia	8,100.9	8,380.0	7,275.9	7,594.9	8,120.3	6.9
United Arab Emirates	2,750.4	2,693.5	2,327.5	2,291.1	2,556.6	11.6
Others	1,266.2	1,187.4	1,117.0	1,231.7	698.6	–43.3
Africa	7,960.2	7,407.4	7,526.2	7,171.5	6,016.8	–16.1
Algeria	1,704.8	1,297.6	980.0	1,022.9	1,189.8	16.3
Angola	1,184.2	1,085.2	1,810.5	1,690.2	1,568.9	–7.2
Egypt	108.7	165.0	165.9	116.5	104.2	–10.6
Gabon	214.5	216.1	194.0	162.3	133.9	–17.5
Nigeria	2,197.5	2,117.2	2,172.5	2,487.3	2,400.2	–3.5
Libya	1,576.2	1,560.0	1,306.5	1,166.2	320.1	–72.5
Others	974.2	966.3	896.9	526.0	299.7	–43.0
Asia and Pacific	6,053.8	6,798.9	6,903.7	6,827.7	6,656.1	–2.5
Australia	303.2	289.5	297.5	356.6	308.0	–13.6
China	389.3	562.7	627.0	623.3	671.7	7.8
Indonesia	426.2	396.9	332.8	440.9	393.4	–10.8
Japan	287.1	405.8	391.0	368.5	345.3	–6.3
Malaysia	648.5	591.6	657.8	672.2	483.8	–28.0
Singapore	1,474.5	1,623.4	1,766.0	1,767.3	1,671.1	–5.4
Others	2,525.0	2,929.1	2,831.6	2,598.9	2,782.9	7.1
Total world	60,479.2	60,227.9	58,865.3	60,012.6	61,264.3	2.1
<i>of which</i>						
OPEC	28,427.1	28,242.2	26,355.7	26,751.9	27,707.6	3.6
<i>OPEC percentage</i>	<i>47.0</i>	<i>46.9</i>	<i>44.8</i>	<i>44.6</i>	<i>45.2</i>	<i>1.5</i>
OECD	13,101.9	13,296.6	13,242.6	13,526.3	15,171.7	12.2
FSU	9,436.0	8,776.0	9,490.0	9,328.3	9,018.0	–3.3

Notes: Revisions have been made throughout the time series. Annual changes and shares of totals are calculated using 1,000 barrels per annum figures. Data includes exports of lease condensates, re-exports of petroleum products from gas plants, changes in the quantity of oil and products in transit, movements not otherwise shown, unspecified use, etc.

Table 3.22

Oil and gas data

World natural gas exports by country (*million standard cu m*)

	2007	2008	2009	2010	2011	% change 11/10
North America	129,830	130,490	122,560	125,781	135,368	7.62
Canada	107,300	103,200	92,240	93,611	92,718	-0.95
United States	22,530	27,290	30,320	32,170	42,650	32.58
Latin America	34,560	32,810	32,430	35,300	38,801	9.9
Argentina	2,590	950	880	890	1,157	30.00
Bolivia	11,580	11,790	9,790	11,650	12,815	10.0
Colombia	100	1,500	1,800	2,180	2,398	10.0
Mexico	1,530	1,210	790	200	13	-93.5
Trinidad & Tobago	18,760	17,360	19,170	20,380	22,418	10.0
Eastern Europe and Eurasia	303,390	315,360	259,220	287,490	319,709	11.2
Azerbaijan	1,280	5,380	5,860	5,500	5,200	-5.5
Kazakhstan	640	800	-	1,200	1,200	-
Russia	231,830	237,300	211,660	228,650	245,799	7.5
Turkmenistan	52,400	55,800	29,900	30,740	46,110	50.0
Ukraine	2,600	1,000	-	-	-	-
Uzbekistan	14,640	15,080	11,800	21,400	21,400	-
Western Europe	168,730	185,780	180,320	207,789	207,951	0.1
Austria	130	-	-	5,439	4,704	-13.5
Belgium	3,100	2,600	2,460	2,460	2,511	2.1
Denmark	4,400	5,450	4,010	3,520	3,126	-11.2
France	1,100	1,000	840	2,945	5,378	82.6
Germany	13,850	14,640	12,800	17,730	20,618	16.3
Italy	70	200	130	137	123	-10.2
Netherlands	50,400	55,000	48,060	57,751	54,797	-5.1
Norway	85,280	95,230	98,850	100,600	98,305	-2.3
Spain	-	160	1,000	1,152	1,698	47.4
United Kingdom	10,400	11,500	12,170	16,055	16,691	4.0
Middle East	80,130	87,530	96,375	132,479	140,509	6.1
IR Iran	6,160	4,110	5,670	8,429	9,114	8.1
Oman	13,150	10,890	11,540	11,450	12,137	6.0
Qatar	43,500	56,780	63,535	107,000	113,700	6.3
United Arab Emirates	17,320	15,750	15,210	5,180	5,180	-
Yemen	-	-	420	420	378	-10.0
Africa	110,430	115,070	105,090	114,349	105,152	-8.0
Algeria	58,370	58,830	52,670	57,359	52,017	-9.3
Egypt	15,870	16,920	18,320	15,170	14,867	-2.0
Equatorial Guinea	1,430	5,170	4,720	5,160	5,470	6.0
Libya	9,960	10,400	9,890	9,970	3,666	-63.2
Mozambique	2,900	3,200	3,500	3,040	3,192	5.0
Nigeria	21,900	20,550	15,990	23,650	25,941	9.7
Asia and Pacific	104,050	104,740	108,570	116,230	125,833	8.3
Australia	20,060	20,240	24,240	25,350	25,524	0.7
Brunei	9,350	9,200	8,810	8,830	8,830	-
Indonesia	33,940	36,170	36,500	41,250	46,200	12.0
Malaysia	31,300	30,580	30,730	31,990	36,469	14.0
Myanmar	9,400	8,550	8,290	8,810	8,810	-
Total world	931,120	971,780	904,565	1,019,418	1,073,323	5.3
<i>of which</i>						
OPEC	157,210	166,420	162,965	211,588	209,618	-0.9
<i>OPEC percentage</i>	<i>17</i>	<i>17</i>	<i>18</i>	<i>21</i>	<i>20</i>	<i>-5.9</i>
OECD	320,150	337,720	327,910	344,306	347,749	1.0
FSU	303,390	315,360	255,220	267,981	278,700	4.0

Notes: Totals may not add up due to independent rounding.

Table 3.23

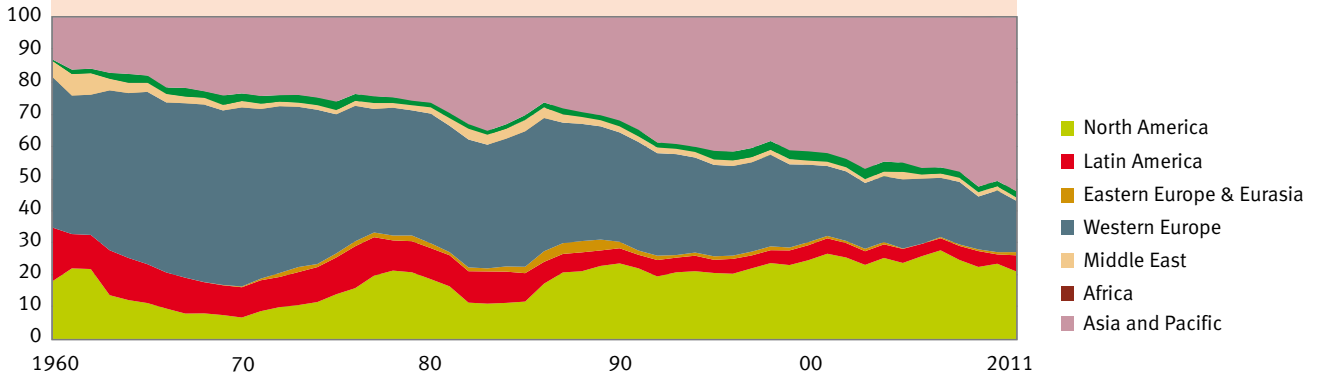
Oil and gas data

World imports of crude oil by country (1,000 b/d)

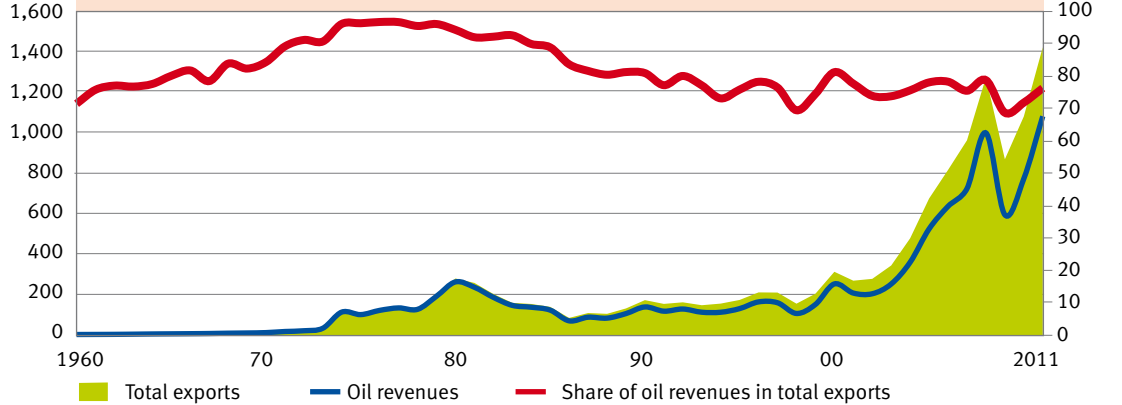
	2007	2008	2009	2010	2011	% change 11/10
North America	11,623.4	11,359.8	10,429.5	10,503.8	9,595.1	-8.7
Canada	848.2	836.9	798.7	770.0	680.7	-11.6
United States	10,775.2	10,522.9	9,630.9	9,733.8	8,914.4	-8.4
Latin America	2,055.5	2,044.6	2,362.6	2,280.8	2,510.4	10.1
Brazil	426.1	390.9	384.0	311.6	318.2	2.1
Chile	217.1	202.3	198.9	168.3	171.2	1.7
Netherland Antilles	222.3	209.4	191.9	197.5	199.3	0.9
Cuba	43.5	97.9	131.4	178.8	198.8	11.1
Peru	111.7	98.5	100.8	94.9	93.8	-1.2
Trinidad & Tobago	94.8	92.6	98.5	68.8	83.3	21.1
Others	940.0	953.2	1,257.1	1,260.9	1,446.0	14.7
Eastern Europe and Eurasia	2,031.2	2,011.1	1,937.7	1,899.8	1,853.0	-2.5
Bulgaria	143.6	145.8	124.3	132.9	123.2	-7.3
Czech Republic	145.1	163.7	145.1	161.0	161.0	-
Romania	172.3	170.0	139.2	171.4	154.8	-9.7
Russia	54.4	49.6	36.0	47.9	38.7	-19.2
Others	1,515.8	1,482.0	1,493.0	1,386.6	1,375.2	-0.8
Western Europe	11,653.3	11,619.1	10,585.3	10,610.3	10,535.2	-0.7
Belgium	665.8	683.0	630.5	662.1	605.3	-8.6
France	1,635.5	1,670.3	1,441.8	1,295.1	1,294.4	-
Germany	2,156.8	2,127.5	1,979.4	1,883.1	1,827.0	-3.0
Greece	410.5	389.4	359.0	410.9	331.0	-19.4
Italy	1,780.1	1,664.4	1,540.6	1,584.9	1,452.8	-8.3
Netherlands	987.2	994.9	973.3	1,032.7	987.2	-4.4
Spain	1,161.2	1,181.4	1,056.0	1,059.3	1,054.0	-0.5
Sweden	363.5	424.7	383.7	401.0	379.6	-5.3
Turkey	473.4	438.7	287.1	351.7	364.8	3.7
United Kingdom	1,028.8	1,062.0	1,059.8	963.5	1,009.0	4.7
Others	990.4	982.8	874.2	966.1	1,230.2	27.3
Middle East	514.6	647.5	498.5	550.5	465.0	-15.5
Bahrain	229.7	212.1	213.1	235.5	243.6	3.5
Syrian Arab Republic	-	-	-	-	-	-
Yemen	-	-	-	-	-	-
Others	284.9	435.4	285.4	315.0	221.4	-29.7
Africa	914.8	948.6	882.1	922.6	906.2	-1.8
Côte d'Ivoire	82.6	82.7	82.7	84.4	72.8	-13.8
Kenya	37.5	37.5	37.5	38.6	39.0	0.9
Morocco	147.0	147.3	147.3	149.4	151.5	1.4
Others	647.6	681.1	614.6	650.2	643.0	-1.1
Asia and Pacific	17,683.9	17,923.8	18,079.2	18,820.5	18,830.8	0.1
China	3,294.5	3,612.0	4,112.1	4,805.9	5,073.8	5.6
Japan	4,035.8	3,851.1	3,416.4	3,441.5	3,558.4	3.4
India	2,456.8	2,587.7	3,215.7	3,158.1	3,360.2	6.4
South Korea	2,389.7	2,348.4	2,323.8	2,377.8	2,520.7	6.0
Chinese Tapei	1,045.9	963.5	957.6	876.2	795.5	-9.2
Singapore	1,035.7	1,016.0	892.0	714.8	716.0	0.2
Thailand	745.7	761.3	777.2	817.0	793.7	-2.9
Australia	396.8	409.3	384.6	431.0	488.4	13.3
Indonesia	324.7	217.3	328.1	284.8	253.9	-10.8
Pakistan	170.1	162.8	139.1	126.3	110.8	-12.3
Others	1,788.2	1,994.4	1,532.5	1,787.2	1,159.4	-35.1
Total world	46,476.7	46,554.4	44,774.8	45,588.2	44,695.7	-2.0
<i>of which</i>						
OECD	31,306.9	30,808.7	28,255.5	28,516.7	28,778.0	0.9

Notes: Revisions have been made throughout the time series. Annual changes and shares of totals are calculated using 1,000 barrels per annum figures. Includes changes in the quantity of oil products in transit, movements not otherwise shown, unspecified use, etc.

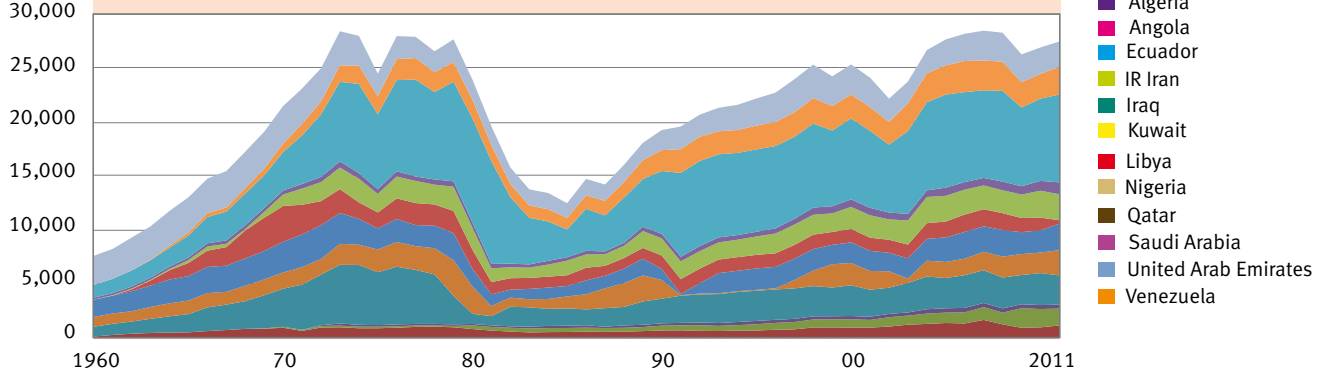
Graph 3.19: Percentage share of OPEC crude oil exports by regions



Graph 3.20: OPEC oil export revenues vs total exports (bn \$)



Graph 3.21: OPEC Members' exports of crude and petroleum products (1,000 b/d)



Graph 3.22: OPEC Members' exports of petroleum products (1,000 b/d)

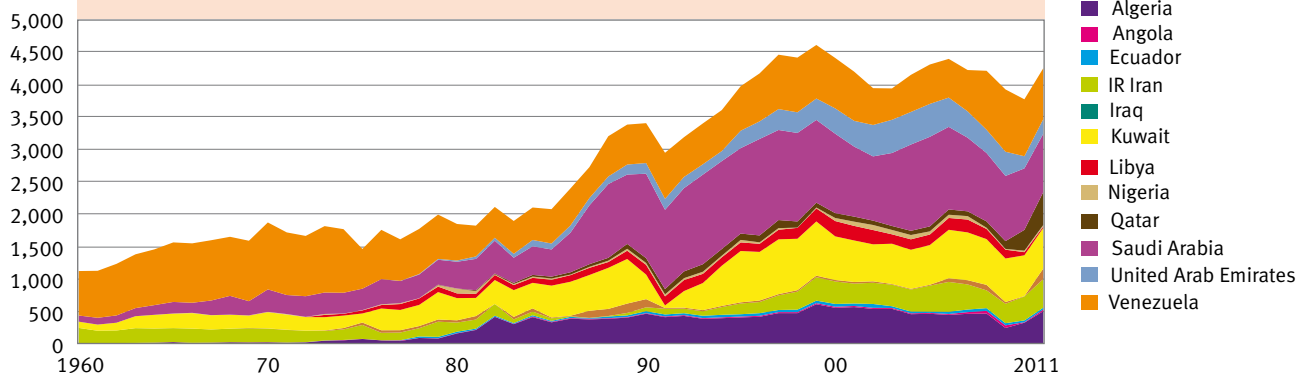


Table 3.24

Oil and gas data

World imports of petroleum products by country (1,000 b/d)

	2007	2008	2009	2010	2011	% change 11/10
North America	2,713.1	2,415.1	2,103.3	2,087.1	1,930.3	-7.5
Canada	282.3	329.8	279.4	238.3	266.4	11.8
United States	2,425.9	2,080.4	1,819.2	1,844.1	1,659.8	-10.0
Others	5.0	5.0	4.7	4.7	4.2	-11.6
Latin America	1,960.3	2,052.6	2,012.3	2,061.3	2,501.7	21.4
Brazil	320.1	343.5	310.6	311.6	495.3	59.0
Cuba	77.2	78.6	79.9	81.3	82.6	1.7
Mexico	426.6	477.7	454.5	451.9	612.2	35.5
Netherland Antilles	65.9	66.0	66.0	69.7	73.4	5.4
Panama	43.1	43.0	42.9	23.8	50.5	111.9
Puerto Rico	111.2	106.3	101.3	96.3	91.3	-5.2
Others	916.3	937.6	957.2	1,026.8	1,096.3	6.8
Eastern Europe and Eurasia	397.7	352.8	349.8	388.2	392.1	1.0
Bulgaria	34.1	30.2	30.3	31.1	34.9	12.2
Russia	11.1	11.4	10.6	20.4	16.5	-19.1
Hungary	47.3	44.8	44.1	48.4	58.0	19.8
Poland	138.8	120.2	120.1	140.1	143.3	2.3
Others	166.4	146.2	144.7	148.2	139.4	-5.9
Western Europe	5,984.0	6,207.3	6,399.0	6,677.3	6,431.1	-3.7
Belgium	356.8	439.0	360.8	675.3	532.6	-21.1
France	693.4	699.5	775.9	776.8	875.2	12.7
Germany	582.8	704.3	661.0	661.8	758.0	14.5
Italy	241.9	230.3	223.9	224.8	398.1	77.1
Netherlands	1,368.1	1,459.2	1,670.6	1,671.4	1,765.4	5.6
United Kingdom	494.6	436.7	485.4	486.2	580.2	19.3
Others	2,246.3	2,238.4	2,221.4	2,181.0	1,521.4	-30.2
Middle East	577.3	555.2	543.1	465.6	588.1	26.3
Syrian Arab Republic	22.0	20.7	19.4	18.1	106.8	490.2
Others	555.3	534.5	523.8	447.5	481.3	7.6
Africa	867.3	826.1	862.8	988.0	1,106.5	12.0
Egypt	91.8	103.1	139.0	140.1	157.3	12.2
Morocco	83.0	81.8	80.6	79.6	60.2	-24.4
Nigeria	171.3	129.3	130.3	179.0	165.7	-7.4
Senegal	25.3	25.3	25.3	27.3	22.4	-18.2
Tunisia	67.8	67.8	67.8	78.4	58.4	-25.5
Others	428.1	418.7	419.7	483.6	642.7	32.9
Asia and Pacific	6,451.3	7,111.6	7,133.8	7,343.3	7,377.6	0.5
Australia	252.9	337.3	339.0	303.8	334.2	10.0
China	680.8	803.5	777.2	835.2	960.1	15.0
Hong Kong	364.5	330.8	388.9	432.5	398.8	-7.8
India	415.2	408.1	283.0	325.7	319.7	-1.8
Japan	954.2	933.5	829.3	929.7	1,300.3	39.9
New Zealand	50.7	44.3	44.7	36.2	41.5	14.6
Singapore	1,648.5	1,978.2	2,210.3	2,214.8	1,764.9	-20.3
Others	2,084.6	2,275.9	2,261.5	2,265.6	2,258.1	-0.3
Total world	18,951.0	19,520.9	19,404.2	20,010.9	20,327.5	1.6
<i>of which</i>						
OPEC	632	555	582	639	616	-3.7
OPEC percentage	3.3	2.8	3.0	3.2	3.0	-5.3
OECD	10,163	10,167	10,043	11,117	11,868	6.8
FSU	177	158	155	146	168	15.0

Notes: Revisions have been made throughout the time series. Data includes petroleum products from gas plants. Annual changes and shares of totals are calculated using 1,000 barrels per annum figures. Includes changes in the quantity of oil products in transit, movements not otherwise shown, unspecified use, etc.

Table 3.25

Oil and gas data

World imports of natural gas by country (*million standard cu m*)

	2007	2008	2009	2010	2011	% change 11/10
North America	143,850	130,250	125,830	128,547	128,994	0.3
Canada	13,200	15,900	20,830	22,622	30,158	33.3
United States	130,650	114,350	105,000	105,925	98,836	-6.7
Latin America	26,300	29,810	28,910	37,311	39,706	6.4
Argentina	1,680	1,300	2,660	3,610	5,054	40.0
Brazil	10,020	11,030	8,440	12,600	13,482	7.0
Chile	2,380	750	1,490	3,410	3,581	5.0
Dominican Republic	480	470	560	802	882	10.0
Mexico	10,810	13,880	13,160	14,593	13,975	-4.2
Puerto Rico	740	810	760	770	847	10.0
Uruguay	90	70	40	80	88	10.0
Venezuela	100	1,500	1,800	1,446	1,797	24.3
Eastern Europe and Eurasia¹	187,110	195,490	143,080	171,763	197,168	14.8
Armenia	1,900	2,300	2,050	1,750	1,873	7.0
Belarus	20,600	21,100	17,570	21,600	29,160	35.0
Bulgaria	3,050	3,100	2,640	2,160	2,290	6.0
Czech Republic	8,630	8,610	8,030	8,510	9,319	9.5
Estonia	1,000	630	710	360	1,002	178.3
Georgia	1,200	1,130	200	200	200	-
Hungary	10,450	11,500	8,100	9,636	8,019	-16.8
Kazakhstan	6,600	5,800	5,350	8,190	9,173	12.0
Kyrgyzstan	900	1,200	1,200	1,200	1,100	-8.3
Latvia	1,200	750	1,190	660	1,500	127.3
Lithuania	3,400	3,090	2,740	2,630	2,630	-
Moldova	2,700	2,800	2,900	2,920	2,920	-
Poland	9,280	10,280	9,150	10,894	11,790	8.2
Romania	4,500	4,500	2,050	2,150	2,795	30.0
Russia	51,500	56,200	28,100	34,389	40,480	17.7
Slovak Republic	5,600	5,600	5,400	6,425	6,743	4.9
Tadzhikistan	600	700	700	700	700	-
Ukraine	54,000	56,200	45,000	57,389	65,475	14.1
Western Europe	378,760	400,860	390,105	429,675	424,077	-1.3
Austria	7,000	8,100	7,980	12,127	13,539	11.6
Belgium	21,080	20,740	21,000	19,323	15,949	-17.5
Bosnia/Herzegovina	320	310	220	210	210	-
Croatia	1,200	1,260	1,200	1,170	1,170	-
Denmark	-	-	-	139	369	165.5
Finland	4,320	4,500	4,100	4,782	4,101	-14.2
France	46,920	49,250	49,060	46,199	47,041	1.8
Germany	82,900	87,100	88,820	92,751	91,157	-1.7
Greece	4,010	4,140	3,290	3,815	4,762	24.8
Ireland	4,700	5,000	5,080	5,261	4,633	-11.9

Table 3.25
Oil and gas data

World imports of natural gas by country (*million standard cu m*)

	2007	2008	2009	2010	2011	% change 11/10
Western Europe (<i>cont'd</i>)						
Italy	73,880	76,870	69,310	75,348	70,367	-6.6
Luxembourg	1,300	1,200	1,300	1,366	1,183	-13.4
Macedonia, f Yug Rep	80	70	80	77	100	30.4
Netherlands	18,360	17,970	17,210	25,775	22,761	-11.7
Portugal	4,140	4,560	4,410	5,109	5,181	1.4
Serbia/Montenegro	2,100	2,150	1,550	1,933	1,878	-2.9
Slovenia	1,100	1,000	890	880	1,166	32.5
Spain	35,130	39,060	35,430	36,716	35,489	-3.3
Sweden	1,110	1,000	1,310	1,642	1,296	-21.1
Switzerland	2,990	3,190	3,625	3,165	4,390	38.7
Turkey	36,160	36,850	33,180	38,037	43,905	15.4
United Kingdom	29,960	36,540	41,060	53,850	53,430	-0.8
Middle East	25,800	35,310	39,100	41,048	47,983	18.3
IR Iran	7,300	7,100	5,800	7,243	11,659	61.0
Jordan	2,350	2,750	2,850	2,520	2,772	10.0
Kuwait	-	-	890	890	688	-22.7
Oman	-	350	1,500	1,900	2,147	13.0
Syrian Arab Republic	-	140	910	690	552	-20.0
United Arab Emirates	16,150	24,970	25,450	25,705	28,275	10.0
Others	-	-	1,700	2,100	1,890	-10.0
Africa	4,150	4,950	5,250	4,790	5,019	4.8
Morocco	-	500	500	500	550	10.0
South Africa	2,900	3,200	3,500	3,040	3,344	10.0
Tunisia	1,250	1,250	1,250	1,250	1,125	-10.0
Asia and Pacific	165,150	175,130	172,251	206,285	230,377	11.7
China	3,870	4,440	7,630	16,350	18,803	15.0
India	9,980	10,790	12,620	12,150	13,669	12.5
Japan	88,820	92,250	85,900	98,015	109,947	12.2
South Korea	34,390	36,550	34,320	43,579	46,833	7.5
Malaysia	-	500	900	2,938	3,232	10.0
Singapore	7,680	9,970	10,800	8,553	9,665	13.0
Chinese Taipei	11,010	12,080	11,790	15,890	18,274	15.0
Thailand	9,400	8,550	8,291	8,810	9,955	13.0
Total world	931,120	971,800	904,526	1,019,419	1,073,323	5.3
<i>of which</i>						
OPEC	23,550	33,570	33,940	35,284	42,419	20.2
<i>OPEC share</i>	3	3	4	3	4	14.9
OECD	685,790.0	704,990.0	676,360.0	730,468.8	739,234.4	1.2
FSU	145,600	151,900	108,090	118,899	123,655	4.0

Notes: Since joining the EU in 2004, Estonia, Latvia and Lithuania are listed separately and not included under FSU.

Section 4 Transportation



Table 4.1

Transportation

Tanker fleet development in OPEC Members (1,000 dwt)

	2007		2008		2009		2010		2011	
	number	dwt	number	dwt	number	dwt	number	dwt	number	dwt
Algeria	1	315	1	315	1	315	1	315	1	315
Angola	na	na	na	na	na	na	na	na	8	1,186
Ecuador	na	na	8	269	8	269	8	269	10	579
IR Iran	29	6,202	42	9,560	42	9,560	47	10,994	47	10,994
Iraq	1	37	2	26	4	53	4	53	4	53
Kuwait	22	3,241	21	3,113	20	3,110	16	2,223	16	2,223
Libya	8	627	8	627	8	627	8	627	5	548
Nigeria	2	409	2	409	2	409	2	409	2	409
Qatar	6	528	6	528	6	528	6	528	6	528
Saudi Arabia	41	10,055	46	10,483	40	8,662	35	6,993	32	5,766
United Arab Emirates	6	218	13	660	13	660	13	660	13	660
Venezuela	21	1,348	16	1,091	16	1,091	16	1,091	18	1,348
OPEC	137	22,980	165	27,081	160	25,284	156	24,162	162	24,609
Total world	4,418	375,591	4,825	398,196	5,713	481,185	5,147	444,815	5,406	462,549
OPEC percentage		6.1		6.8		5.3		5.4		5.3

Notes: Figures as at year-end. Totals may not add up due to independent rounding. Including crude oil, petroleum and chemical carriers.

Table 4.2

World tanker fleet by age (1,000 dwt)

		up to 1996		1997–2001		2002–2006		2007–2011		Total	
		no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
GR	16.5–24.9	275	4,679.3	158	2,466.7	262	4,258.1	611	9,361.9	1,305	20,765.9
MR	25.0–44.9	207	8,089.2	164	6,437.9	346	13,949.1	315	13,124.9	1,031	41,601.1
LR1	45.0–79.9	148	7,878.3	94	5,049.2	367	21,064.1	562	31,749.9	1,170	65,741.6
LR2	80.0–159.9	241	26,653.3	213	25,753.8	377	45,161.1	426	51,876.7	1,257	149,445.0
VLCC	160.0–319.9	81	23,518.0	128	37,184.7	181	51,417.0	254	72,875.8	644	184,995.5
Total world		951	70,818.1	757	76,892.3	1,532	135,849.5	2,167	178,989.1	5,406	462,549.1

Notes: Figures as at year-end. Totals may not add up due to independent rounding. Data this year is adjusted to take into account different categories of vessels. Data includes clean, dirty and chemical tankers.

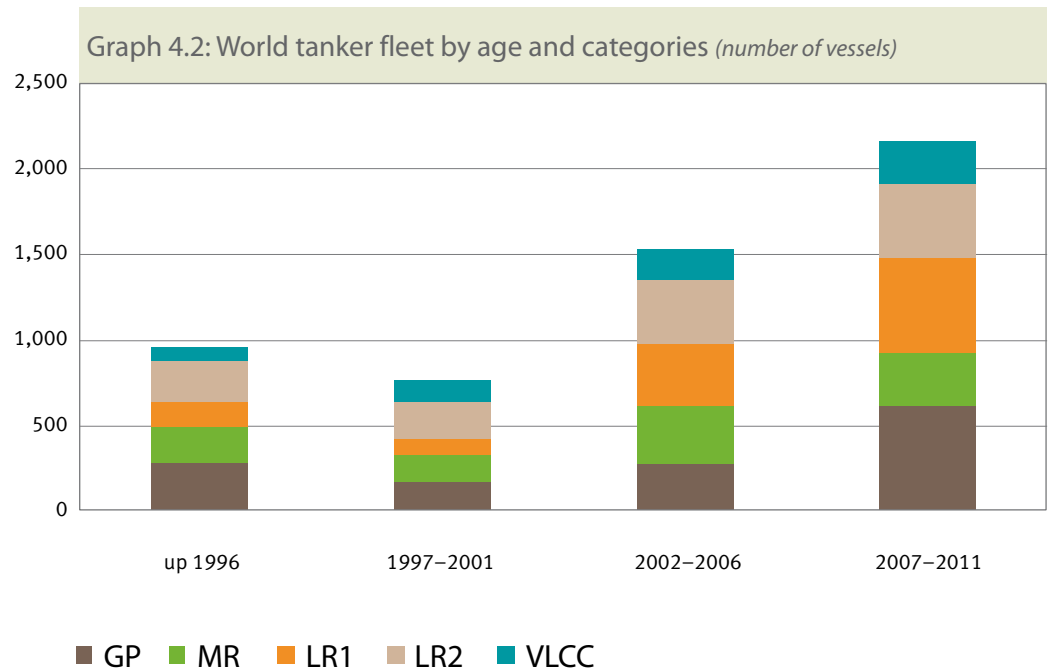
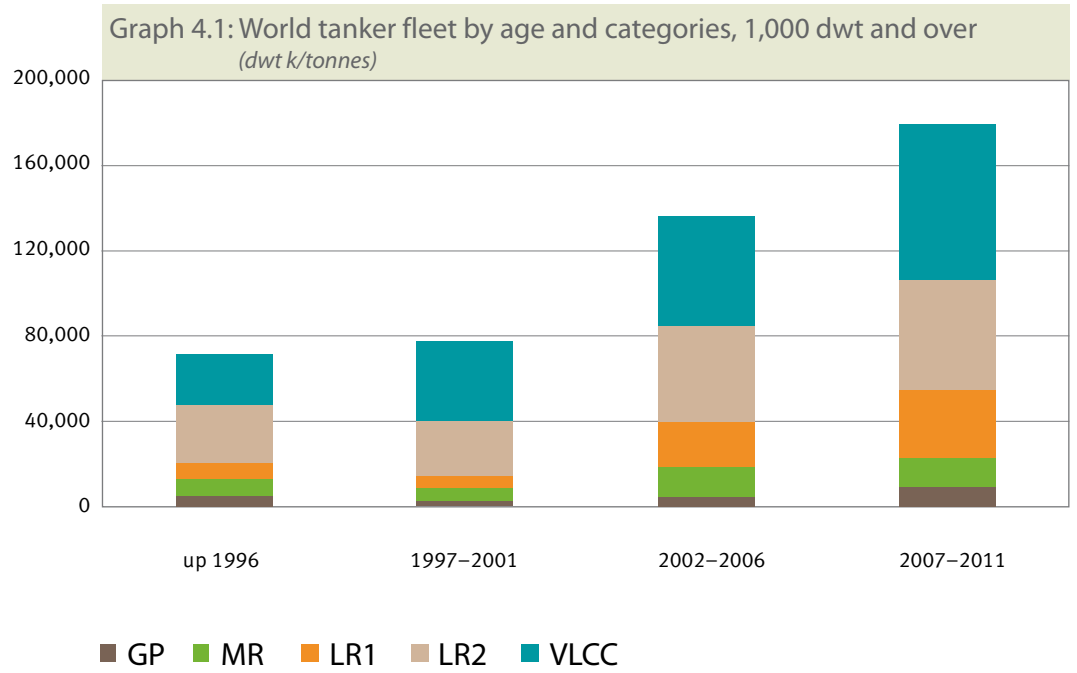


Table 4.3

Transportation

World liquid gas carrier fleet by size and type, 2011 (1,000 cu m)

	no	LPG capacity	no	LNG capacity	no	Total capacity
up to 999	57	40	–	–	57	40
1,000–1,999	276	399	–	–	276	399
2,000–4,999	325	1,091	–	–	325	1,091
5,000–9,999	222	1,501	–	–	222	1,501
10,000–19,999	61	846	19	183	80	1,029
20,000–39,999	115	3,290	3	94	118	3,384
40,000–59,999	19	1,107	3	122	22	1,229
60,000–99,999	142	11,360	14	1,070	156	12,430
100,000 and over	–	–	334	51,665	334	51,665
Total world	1,217	19,634	373	53,134	1,590	72,768

Notes: Figures as at year-end. Totals may not add up due to independent rounding.

Table 4.4

Liquid gas carrier fleet in OPEC Members, 2011 (1,000 cu m)

	no	LPG capacity	no	LNG capacity	no	Total capacity
Algeria	8	324	9	1,067	19	1,535
Angola	4	23	3	249	7	272
Ecuador	4	67	–	–	4	67
IR Iran	1	12	–	–	1	12
Iraq	–	–	–	–	–	–
Kuwait	4	321	–	–	4	321
Libya	2	8	–	–	2	8
Nigeria	2	157	24	3,346	26	3,503
Qatar	4	328	29	5,610	33	5,938
Saudi Arabia	–	–	–	–	–	–
United Arab Emirates	1	3	8	1,096	9	1,099
Venezuela	2	24	–	–	2	24
OPEC	32	1,267	73	11,368	107	12,779
Total world	1,217	19,634	373	53,134	1,551	71,253
<i>OPEC percentage</i>		<i>6.45</i>		<i>21.39</i>		<i>17.93</i>

Notes: Figures as at year-end. Totals may not add up due to independent rounding. LPG and LNG vessels for OPEC Member Countries may be registered under other countries flags.

World combined carrier fleet by size (1,000 dwt)

	2007		2008		2009		2010		2011	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
10,000–19,999	2	28	2	28	2	28	1	13	1	13
20,000–29,999	1	26	1	26	1	26	1	28	1	28
30,000–39,999	–	–	–	–	–	–	–	–	–	–
40,000–49,999	9	419	8	375	8	375	8	375	8	375
50,000–59,999	7	382	3	164	2	108	2	108	2	108
60,000–69,999	5	326	2	133	2	133	5	–	5	–
70,000–79,999	16	1,212	5	375	5	375	5	375	4	200
80,000–99,999	33	2,809	7	608	6	511	7	609	6	409
100,000–124,999	15	1,670	13	1,488	13	1,488	13	1,425	10	1,205
125,000–129,999	–	–	3	487	1	120	1	121	1	121
130,000–199,999	14	2,257	1	164	3	468	3	469	3	469
200,000–249,999	–	–	–	–	–	–	–	–	–	–
250,000–319,999	4	1,233	–	–	–	–	5	1,599	5	1,599
Total world	106	10,363	46	3,849	43	3,633	51	5,123	46	4,527

Notes: Figures as at year-end. Totals may not add up due to independent rounding. Vessels of 10,000 dwt and over.

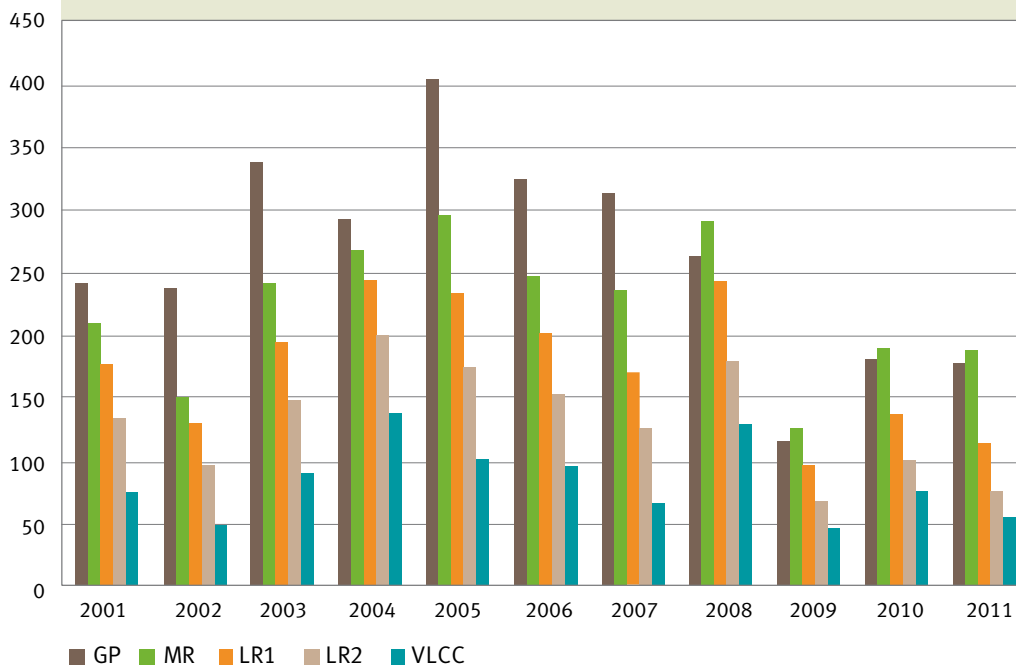
Table 4.6

Transportation

Average spot freight rates for all routes (*percentage of Worldscale*)

	GP 16.5–24.9	MR 25.0–44.9	LR1 45.0–79.9	LR2 80.0–159.9	VLCC 160.0–319.9
2001	241.6	209.2	175.9	133.9	74.4
2002	236.5	150.0	129.2	95.6	48.1
2003	338.2	240.3	193.3	147.7	90.0
2004	292.9	266.4	243.9	199.5	137.6
2005	404.4	294.4	232.8	174.7	100.8
2006	324.2	246.7	200.8	153.0	95.4
2007	313.2	235.6	169.3	125.2	66.2
2008	263.8	289.6	241.8	178.7	128.4
2009	114.4	125.3	95.8	67.9	45.2
2010	180.0	188.4	137.6	99.9	75.1
2011	177.3	187.1	113.7	74.2	54.8

Notes: GP = general purpose (10–24.9 dwt); MR = medium range (25–44.9 dwt); LR1 = large range 1 (50–79.9 dwt); LR2 = large range 2 (80–159.9 dwt); VLCC = very large crude carrier (larger than 159.9 dwt). Tanker sizes are in 1,000 dwt. Average spot freight rates are the average of all spot freight rates by tanker size reported each month in the spot market.

Graph 4.3: Spot freight rates for AFRA sizes (*% of Worldscale*)

Freight costs in the spot market (\$/b)

	Crude oil					Petroleum products				
	Carib/USAC	Med/NWE	WAF/USGC	Gulf/Japan	Gulf/NWE	Gulf/Japan	Med/Med	Carib/USAC	S'pore/Japan	
2001	1.29	1.35	1.62	1.28	1.91	3.55	0.99	1.43	2.12	
2002	0.93	1.53	1.12	0.80	1.18	2.54	0.69	0.98	1.42	
2003	1.37	1.51	1.88	1.52	2.16	3.24	0.96	1.22	1.83	
2004	1.89	1.79	2.79	2.56	3.66	3.65	1.21	1.69	2.20	
2005	2.07	1.76	2.27	1.86	2.79	4.99	1.31	1.69	2.86	
2006	1.85	2.15	3.05	2.31	3.30	6.22	1.36	1.96	3.62	
2007	1.60	1.51	2.74	2.20	2.68	4.44	1.76	2.49	2.82	
2008	2.15	3.14	4.17	3.35	4.06	6.45	2.56	2.81	3.22	
2009	1.03	1.58	2.09	1.43	1.70	2.98	1.29	1.35	1.38	
2010	1.30	1.78	2.38	1.88	2.05	3.17	1.66	1.60	1.63	
2011	1.23	1.84	2.24	1.64	1.89	3.34	1.80	2.09	2.32	

Notes: Carib = Caribbean; USAC = US Atlantic Coast; Med = Mediterranean; NWE = north-west Europe; WAF = West Africa; USGC = US Gulf Coast; S'pore = Singapore. Freight costs are based on the weighted averages of spot freight rates in the typical size range.

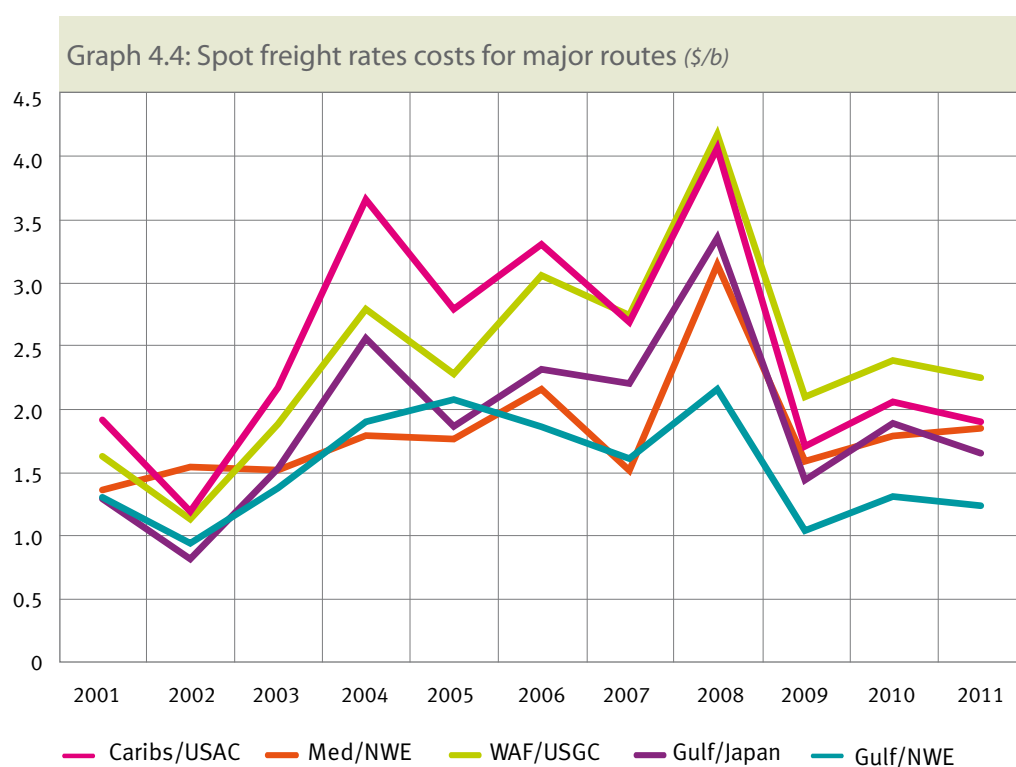


Table 4.8

Transportation

Spot tanker freight rates for all sizes

	Gulf/West		Gulf/East		Caribbean/USAC		all routes	
	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t
2001	67	11.69	85	9.16	170	7.68	116	12.56
2002	40	7.99	60	7.25	125	6.10	85	10.48
2003	82	17.60	102	13.38	182	9.61	128	16.46
2004	116	21.88	155	22.35	245	24.99	175	23.61
2005	102	22.49	116	15.59	225	13.16	151	21.31
2006	89	25.06	106	18.59	203	13.98	134	23.34
2007	63	18.64	79	14.00	169	11.98	107	18.87
2008	99	29.78	136	24.56	233	15.76	156	23.37
2009	31	12.44	42	10.51	83	7.58	52	10.18
2010	51	15.04	73	13.78	135	9.53	86	12.79
2011	39	13.88	53	12.05	108	8.99	67	11.64

Notes: The above rates are calculated from all spot fixtures reported during the month for each route.

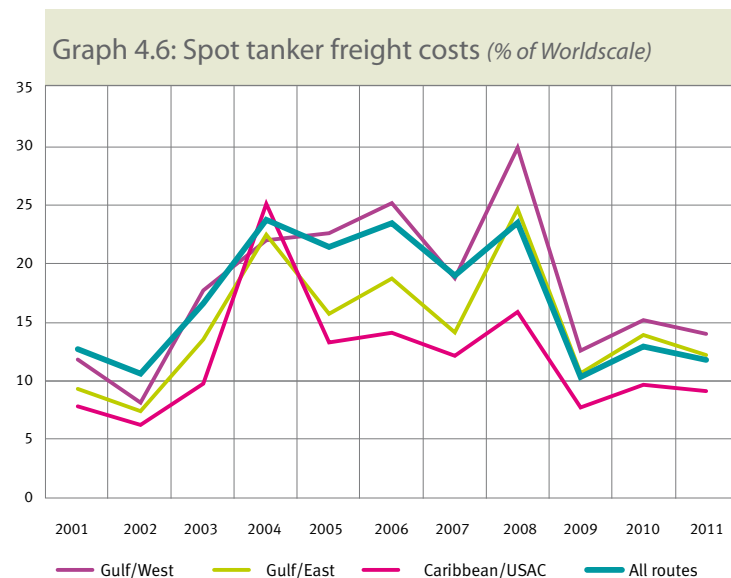
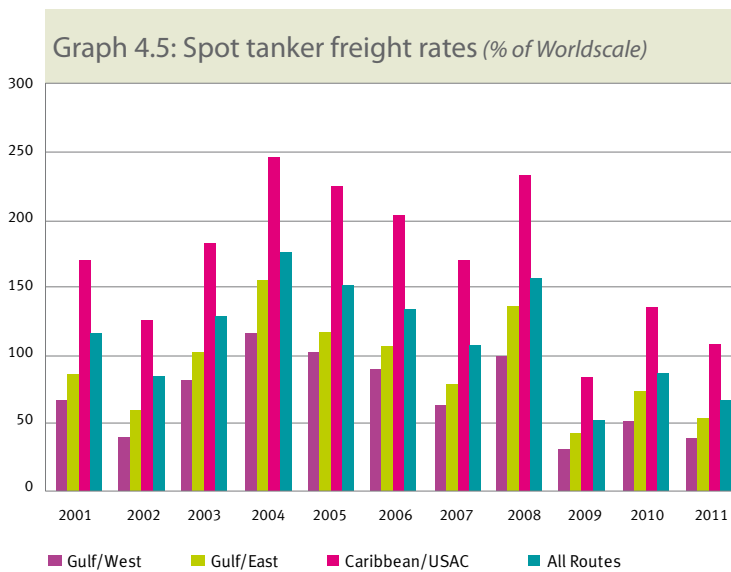


Table 4.9
Transportation

Crude oil pipelines in OPEC Members, 2011

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
Algeria					
Haoud El Hamra/Bejaia	Sonatrach/TRC	415	24	12	6.18
Haoud El Hamra/Skikda	Sonatrach/TRC	400	34	30	18.87
Haoud El Hamra/Arzew	Sonatrach/TRC	498	28	11	17.91
Haoud El Hamra/Arzew	Sonatrach/TRC	511	34	34	17.91
Haoud El Hamra/La Skhira (Tunisia)	Sonatrach/TRC	165	24	8	0.19
Angola					
PAM F1/PAL P2	SNL P & P	23	16	na	na
Rosa/Rosa	Total	26.06	8	na	na
Rosa/Rosa	Total	39.83	8	na	na
South Production Loop	BP	20	12	na	na
Production North	BP	21–22	12	na	na
Service North	BP	21	12	na	na
North	BP	25	14	na	na
South	BP	29	12	na	na
PRD 1 & 2 Kuito A/FPSO	Chevron	4,012	11	na	na
TL/BB	Chevron	30.45	14	na	na
Ecuador					
Lago Agrio/Esmeraldas	Transpecuador (state)	305	26/20/26	19.59	18.06
Lago Agrio/Esmeraldas	Pesados Ecuador SA (private)	301	24/36	24.66	7.13
IR Iran					
Maron/Isfahan	NIOC	702	30/32	na	na
Ahwaz/Rey	NIOC	457	30/26	na	na
Isfahan/Rey	NIOC	599	24	na	na
Maile 40/Abadan	NIOC	166	12	na	na
Maile 40/Khordoragh	NIOC	69	16	na	na
Neka/Sari	NIOC	60	16/32	na	na
Rey/Tabriz	NIOC	1,246	16	na	na
Sari/Rey	NIOC	456	30/32	na	na
Tang-e-Fani/Kermanshah	NIOC	353	16	na	na
Iraq					
Kirkuk/Salaheldien	OPC	84	26	48	14.70
Baiji (K2)/Daura	OPC	213	12/16	14	2.50
East Baghdad/Daura	OPC	60	16	6	–
Nafut Khana/Daura	OPC	130	12	3	0.33
Strategy/Theqar refinery	OPC	32	20	21	–
Strategy/Daura refinery	OPC	110	18	13	0.23
Strategy/Musaib PWR St	OPC	48	16	–	1.30
Libya					
Sarir/Tobruk	Arabian Oil	513	34	187	na

Table 4.9

Transportation

Crude oil pipelines in OPEC Members, 2011

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
Libya (cont'd)					
Messla/Amal	Arabian Oil	206	42	178	na
Magid/Nafoora	Arabian Oil	105	14	21	na
Nafoora/Amal	Arabian Oil	52	32	121	na
Hamada/Az-Zawiyah	Arabian Oil	387	18	34	na
Zaggut/Es-Sider	Waha Oil	267	24	82	na
Waha/Zaggut	Waha Oil	43	24	186	na
Waha/Samah	Waha Oil	64	24	113	na
Gialo/Waha	Waha Oil	152	30	150	na
Zaggut/Samah	Waha Oil	35	24	104	na
Samah/Dahra	Waha Oil	184	32	237	na
Dahra/Bahi Gathering	Waha Oil	69	30	257	na
Bahi Gathering/Es-Sider	Waha Oil	71	30	235	na
Bahi Gathering/Es-Sider	Waha Oil	71	30	157	na
Faregh/Gialo	Waha Oil	65	12	19	na
Nasser/Al-Brayqah	Sirte	172	36	292	na
Raguba/Nasser/Al-Brayqah line	Sirte	88	20	56	na
Asharara/Az-Zawiyah	Akakus	727	30	75	na
Intisar (A103)/Azzuwaytinah	Zuetina	220	40	374	na
Sabah/Zella	Zuetina	91	16	15	na
Zella/Hofra	Zuetina	113	20	28	na
Amal/Ras Lanuf	Harouge	273	36	178	na
Amal/Ras Lanuf	Harouge	273	30	99	na
Hofra/Aseida gathering	Harouge	57	24	56	na
(Ora-Beda)/Aseida gathering	Harouge	136	24	56	na
Aseida/Ras Lanuf	Harouge	88	30	93	na
Dor Marada/Ora	Harouge	82	10	7	na
Bu-Attifel/Intesar	Mellitah Oil and Gas	133	30	135	na
Rimal/Bu-Attifel	Mellitah Oil and Gas	76	12	20	na
El-Feel/Asharara	Mellitah Oil and Gas	75	24	122	na
Asharara/Mellitah	Mellitah Oil and Gas	727	30	75	na
Nigeria					
Alakiri/Bonny	SPDC	33	24	na	na
Apoi PP/SPM	Texaco	24	12.75	na	na
Bonny/Ph refinery	NNPC/PPMC	34.38	24	na	na
Brass terminal/BOP	NAOC	26	36	na	na
BT/SPM	SPDC	31	48	na	na
Escravos/Wari/Kaduna	NNPC/PPMC	420.94	24–16	na	na
Forcados/SPM	SPDC	27	48	na	na
Idoho PP/Qit	MPNU	48	24	na	na
Middleton PP/SPM	Texaco	28	10.75	na	na
Ogodo/Brass terminal	NAOC	99	24	na	na
Oso/Qit	MPNU	31	18	na	na
QIT/Oso SPM	MPNU	37	36	na	na

Table 4.9
Transportation

Crude oil pipelines in OPEC Members, 2011

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
Nigeria (cont'd)					
Sapele/Forcados	SPDC	49	28	na	na
Tebidaba/Brass terminal	NAOC	57	24	na	na
TNP/Bonny	SPDC	80	36	na	na
Qatar					
Um Bab/Mile 32	QP	25	2 x 14	na	na
Um Bab/Mile 32	QP	25	16	na	na
Um Bab/Mile 32	QP	25	24	na	na
Mile 32/Storage Tank Mesaieed	QP	60	20	na	na
Mile 32/Storage Tank Mesaieed	QP	60	24	na	na
Mile 32/Storage Tank Mesaieed	QP	60	16	na	na
Saudi Arabia					
Abqaiq/Yanbu	Saudi Aramco	748	56	na	na
Shaybah/Abqaia	Saudi Aramco	397	46	na	na
Qatif/Qaisumah	Saudi Aramco	270	30/31	na	na
Hawtah/Hawtah stabilizer	Saudi Aramco	206	24	na	na
Haradh/Abqaiq plants	Saudi Aramco	134	36/40/42	na	na
Safaniyah/Juaymah	Saudi Aramco	123	46/48	na	na
Haradh/Abqaiq plants	Saudi Aramco	111, 110	18/20/24/30/31, 46/48	na	na
AY-1L KP 65.628/Rabigh refinery	Saudi Aramco	90	36	na	na
Khurais/Riyadh	Saudi Aramco	88	26	na	na
Khursaniyah/Ras Tanura	Saudi Aramco	67	30	na	na
Safiniyah/Kursaniyah North	Saudi Aramco	66	30	na	na
Safiniyah/Kursaniyah	Saudi Aramco	66, 66	40/42, 40/42/48	na	na
Safiniyah/Kursaniyah North	Saudi Aramco	66	22	na	na
Kursaniyah/Ras Tanura	Saudi Aramco	65	40/42	na	na
Kursaniyah/Ras Tanura	Saudi Aramco	63	22	na	na
Kursaniyah/KRT corridor km 191	Saudi Aramco	53	40/42/48	na	na
Abu Ali/Berri junction	Saudi Aramco	49	30/32/34/36	na	na
UA-1 km 78/Abqaiq plants	Saudi Aramco	47	34/36	na	na
Abqaiq plants/Qatif junction	Saudi Aramco	44, 44, 3 x 34	30/32, 46/48, 30, 40/42	na	na
Dhahran/Bacco refinery	Saudi Aramco	40	12/18/20/22	na	na
Abqaiq plants/Dhahrab	Saudi Aramco	39	14	na	na
Abqaiq plants/Dhahrab	Saudi Aramco	38	14	na	na
Abqaiq plants/Dhahrab	Saudi Aramco	38	14	na	na
Berri junction/Ras Tanura	Saudi Aramco	37	40/42	na	na
Km 50/Qatif junction	Saudi Aramco	31	46/48	na	na
Wafra field/Mina Saud (Al-Zour)	SAC	31, 31, 31	10, 16, 20	na	na
UA-1 km 49/Abqaiq plants	Saudi Aramco	30	30/38/40	na	na
Aindar/Abqaiq plants	Saudi Aramco	28, 28, 28	20/22, 24/26/28, 24/26/30/32	na	na
Khobar valves/Bapco refinery	Saudi Aramco	26	12	na	na
Qatif junction/Juaymah terminal	Saudi Aramco	24, 24, 24	48, 46/48, 46/48	na	na

Table 4.9

Transportation

Crude oil pipelines in OPEC Members, 2011

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
United Arab Emirates					
Murban/Jabel Dhanna	ADCO	3 x 71	24, 36, 36	na	na
Umm Shaif/Das Island	ADMA	21	36	na	na
Lower Zakum/Das Island	ADMA	57	30	na	na
Upper Zakum/Zirku Island	ZADCO	40	42	na	na
Venezuela					
PTT/Km22	PDVSA	62	26	–	8
Km52/Plc	PDVSA	32	16	–	3
Km/Plc	PDVSA	32	16	–	3
Km52/Jose	PDVSA	29	36	–	1
PTT/Km52	PDVSA	62	16	–	6
PTT/Narucial	PDVSA	81	30	38	26
Km52/Jose	PDVSA	29	36	25	15
Jusma/Azagua	PDVSA	36	20	6	3
Azagua/Mor	PDVSA	88	30	7	4
PT Bachaquero/T Puerto Meranda	PDVSA	66	30	24	9
PT Bachaquero/T Puerto Meranda	PDVSA	66	30	21	5
Puerto Meranda/Cardon	PDVSA	141	30	15	11
Depalma/Miranda	PDVSA	42	24	15	2
Ule/Amuay	PDVSA	117	26	15	10
Puerto Meranda/Cardon	PDVSA	143	26	17	9
Lagunilla/La Salina	PDVSA	26	34	29	2
SDC/Jose refinery	PDVSA	124	36	26	18
EPM1/PTO	PDVSA	91	36	20	15
Deluendico/EPTE	PDVSA	84	30	6	–
PTO/Jose	PDVSA	97	42	30	26
PTO/Taeg	PDVSA	96	30	11	11
Km/Taeg	PDVSA	34	36	25	20
Km27/PTA	PDVSA	32	16	4	2
PTA/PTO	PDVSA	32	16	3	2
Aco/Plc	PDVSA	62	16	3	1
Mata Larga/PTS	PDVSA	164	20	7	2
Barinas/Elparito	PDVSA	215	20	7	4
La Victoria/Las Monas	PDVSA	24	16	3	1
ZPS/JPS	PDVSA	196	36	29	8
PTO/Jose	PDVSA	95	42	28	7
PTO/CIJA	PDVSA	96	42	–	12
CIJA/PTO	PDVSA	96	20	–	2

Notes: Figures as at year-end.

Table 4.10
Transportation

Gas pipelines in OPEC Members, 2011

	Owner or operator	Length (miles)	Diameter (inches)	Capacity	Amount transported (1,000 scm/yr)
Algeria					
Sidi Arcine/Blida	Naftal	24.24	10	660	121
Skikda/Khroub	Naftal	56.96	10	528	215
Arzew/Sidi Bel abbès	Naftal	45.38	10	330	142
Sidi Bel Abbès/Tlemcen	Naftal	43.84	8		
Skikda/Berrahal	Naftal	46.3	8	800	–
Angola					
	na	na	na	na	na
Ecuador					
	na	na	na	na	na
IR Iran					
Bid Boland–1 refinery/Astara		685.4042	56	110,000	na
Kangan/Gazvin	NIOC	685.4042	42, 48	110,000	na
Asaluyeh/Rasht (Gilan province)	NIOC	264.095	56	110,000	na
Asaluyeh/Saveh (Markazi province)	NIOC	711.503	56	110,000	na
Asaluyeh/Aghajari oil field	NIOC	313.1856	42	95,000	na
Asaluyeh/Bid Boland–1 refinery/Dehgolan	NIOC	306.3502	56	110,000	na
Asaluyeh/Iranshahr	NIOC	560.5028	56	100,000	na
Asaluyeh/Tehran	NIOC	668.005	56	110,000	na
Asaluyeh/Astara	NIOC	1157.6682	56	110,000	na
Asaluyeh/Tiran (Esfahan province)	NIOC	108	56		
Iraq					
North Gas/Baiji	OPC	90	24	890,000	1,270,499
Baiji-K3-/Al Kaem	OPC	268	16	2,410,000	12,039
Baiji/Al Mushraq	OPC	131	18	7,400,000	727,567
North Gas Co/K1	OPC	21	18	5,264,000	258,253
North Gas Co/Taji	OPC	272	16	3,087,000	672,426
Taji/South Baghdad PWR St	OPC	35	18	2,000,000	220,120
Strategy/Kabesa Cement	OPC	24	10	671,000	–
Strategy/Hilla PWR St	OPC	45	16	700,000	238,681
Strategy/Najaf PWR St	OPC	23	16	2,100,000	110,667
North Rumela/Khor Al-Zubair	OPC	54	42	10,000,000	1,300,951
Khor Al-Zubair/Hartha PWR St	OPC	48	24	4,808,000	138,176
Rumela/Nasriyaha	OPC	134	24	10,420,000	6,359
Trans-Iraq/Nasriyaha	OPC	292	42	11,033,000	494,149
Kuwait					
	na	na	na	na	na
Libya					
Wafa/Mellitah	Mellitah Oil and Gas	525	32	12,744,265	na
Bahr Assalam/Mellitah	Mellitah Oil and Gas	110	36	25,205,324	na
Mellitah/Gela	Green Stream	540	32	30,019,824	na
Intesar/Brega	Zueitina	207	42	42,480,884	na
103D/103A	Zueitina	26	40	17,841,971	na
Bu-Attifel/Intesar	Mellitah Oil and Gas	133	34	11,328,236	na
Bouri/Bahr Assalam	Mellitah Oil and Gas	20	10	3,879,921	na
Waha/Nasser	Waha	110	24	5,664,118	na
Faregh/Intesar	Waha	110	24	7,080,147	na

Table 4.10

Transportation

Gas pipelines in OPEC Members, 2011

	Owner or operator	Length (miles)	Diameter (inches)	Capacity	Amount transported
Libya (cont'd)					
				<i>(1,000 scm/yr)</i>	
Brega/Benghazi	Sirte Oil	246	34	10,761,824	na
Brega/Khoms	Sirte Oil	645	34	11,611,442	na
Khoms/Tripoli	Sirte Oil	125	34	17,048,995	na
Tripoli/Mellitah	Sirte Oil	98	34	16,992,353	na
Nasser/Brega	Sirte Oil	172	36	14,868,309	na
Attahaddy/km-91.5	Sirte Oil	25	30	28,320,589	na
Km-81.5/Brega	Sirte Oil	82	30	8,496,177	na
Raguba/km-110	Sirte Oil	88	20	3,964,882	na
Intesar/Sahel	Sirte Oil	80	30	19,824,412	na
Sahel/km-81.5	Sirte Oil	49	30	19,541,206	na
Km-91.5/Brega	Sirte Oil	92	36	21,240,442	na
Jakhira/Intesar	Wintershall	80	20	2,407,250	na
Nigeria					
Sapele LTX, Oben	Nigerian Gas Company	27.83872	16, 18	1,121,495	78,786
Afisiere/Aladja	Nigerian Gas Company	30.7593	6, 8, 14, 16	654,206	93,065
Oben/Ajaokuta Steel	Nigerian Gas Company	121.7944	24	1,869,159	151,089
Escravos/Egbin	Nigerian Gas Company	277.64152	20, 24, 30, 36	10,280,374	2,134,923
Egbin Node/Alagbado	Nigerian Gas Company	24.856	24	1,598,131	286,916
Alagbado/SNG	Nigerian Gas Company	42.8766	12, 6, 4	392,523	158,879
Ajaokuta/Obajana	Nigerian Gas Company	56.5474	18	841,121	476,636
PZ MS/Ikorodu	Nigerian Gas Company	32.3128	18	63,438	50,467
Alakiri/Notore Onne	Nigerian Gas Company	10.5638	14	1,289,720	51,028
Imo River/Aba Industries	Nigerian Gas Company	7.4568	12	327,103	20,948
Alakiri/Ikot-Abasi	Nigerian Gas Company	72.7038	14, 16, 24	1,495,327	83,669
Obiafu/Ubeta Node	Nig LNG Ltd	18.02	24	4,547,643	na
Ubeta Node/Rumuji	Nig LNG Ltd	20.51	28	7,234,886	na
Soku/Rumuji	Nig LNG Ltd	25.48	28	6,201,331	na
Rumuji Node/Bonny	Nig LNG Ltd	53.44	36	12,919,439	na
Soku/Bonny	Shell PDC Ltd	62.14	40	14,469,772	na
Bonga/Riser	Shell PDC Ltd	55.92	16	2,067,110	na
Riser/Bonny	Shell PDC Ltd	164.04	32	12,402,662	na
Obiafu/Rumuji	Nig Agip Oil Co Ltd	38.53	24	5,167,776	na
Rumiji/Bonny	Nig Agip Oil Co Ltd	50.95	36	7,234,886	na
Amenam/Bonny	Total EPNG Ltd	34.18	24	7,338,242	na
Qatar					
Ras-Laffan (Qatar)/Abu Dhabi (UAE)	Dolphin Energy	230	48	121,490,937	5,564,371,320
Saudi Arabia					
Abqaiq/Yanbu	Saudi Aramco	741	48	na	na
Pump Station and A47/Yanbu	Saudi Aramco	600	42/48/56	na	na
UBTG-1 km 0/Berri	Saudi Aramco	155	56	na	na
UBTG-1 km 0/Berri	Saudi Aramco	154	36/38/40/42	na	na
UBTG-1 km 56/AY-1 KP 916	Saudi Aramco	152	56	na	na
UBTG-1 km 0/Juanymah	Saudi Aramco	127	28/30/38/40	na	na
Safaniah PS/Juanymah	Saudi Aramco	123	40	na	na
AY-1 KP 943/Riyadh	Saudi Aramco	95	48	na	na
Tanjib/Berri	Saudi Aramco	90	30	na	na

Gas pipelines in OPEC Members, 2011

	Owner or operator	Length (miles)	Diameter (inches)	Capacity	Amount transported
Saudi Arabia (<i>cont'd</i>)					
				<i>(1,000 scm/yr)</i>	
Haradh/Uthmaniya	Saudi Aramco	87	48	na	na
Abqaiq/Berri	Saudi Aramco	85	24/36	na	na
Haradh-3/Uthmaniya	Saudi Aramco	77	24/32	na	na
UA-1 km 199/Uthmaniya	Saudi Aramco	62	24/32	na	na
Juaymah/Jubail	Saudi Aramco	35	30/38/40	na	na
UBTG-1 km 0/UBTG-1 km 56	Saudi Aramco	35	48	na	na
UBTG-1 km 0/UBTG-1 km 56	Saudi Aramco	35	40	na	na
Hawiyah/UBTG-1 km 0	Saudi Aramco	35	56	na	na
Abqaiq-B/Shedgum	Saudi Aramco	33	42	na	na
Waqr Khuff/Haradh	Saudi Aramco	31	30	na	na
Hawiyah/Uthmaniyah	Saudi Aramco	29	32	na	na
Qatif North/Berri	Saudi Aramco	28	32	na	na
Haradh Khuff/Hawiyah	Saudi Aramco	27	30	na	na
Haradh Khuff/Hawiyah	Saudi Aramco	27	30	na	na
Haradh Khuff/Hawiyah	Saudi Aramco	27	30	na	na
Tinat Kuff/Haradh	Saudi Aramco	27	20	na	na
Abu Ali/Berri	Saudi Aramco	26	32	na	na
Berri/Abu Ali	Saudi Aramco	2 x 24	8/10	na	na
Aindar/Shedgum	Saudi Aramco	21	12	na	na
Depco/Abqaiq	Saudi Aramco	20	40	na	na
United Arab Emirates					
Habshan/Maqta	ADNOC	81	42	na	na
Bab/Maqta	ADNOC	83	30	na	na
Bab/Ruwais	ADNOC	68	30	na	na
Maqta/Taweelah	ADNOC	2 x 33	24, 36	na	na
Maqta/Al Ain	ADNOC	100	30	na	na
Murgam/Jabel Ali	Dubai-Government	47	24	na	na
Sajaa/Sharjah	Emmarat	27	18/6/4	na	na
Venezuela					
Muscar (2)/Soto Lazo	PDVSA	80.2	26	8,268,564	7,066,666
Santa Barbara/Aguassay	PDVSA	30.4	26	4,134,282	3,980,208
Santa Barbara/Aguassay	PDVSA	30.4	36	8,268,564	7,323,533
La Pica/Tablazo	PDVSA	40.81	16	1,860	310
La Pica/Tablazo	PDVSA	40.81	16	1,860	413
La Pica/Tablazo	PDVSA	41.16	20	2,274	826
Lama/La Pica	PDVSA	36.56	16	1,860	310
PCTJ-3/Bajo Grande	PDVSA	25.62	12	1,445	413
Casigua/La Fria	PDVSA	75	8	155	62
Casigua/La Fria	PDVSA	47.25	12	124	62
Morichal (EPM-1)/Pto Ordaz (EVMOR)	PDVSA	19.8 / 31.9	16	1,208	516,747

Table 4.11

Transportation

Petroleum product pipelines in OPEC Members, 2011

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
Algeria					
Sidi Arcine /Chiffa (Blida)	Naftal	29.78	10	1,608	902
Skikda/Khroub	Naftal	55.61	12	1,809	1,698
Arzew/Sidi Bel abbès	Naftal	45.16	12	1,407	735
Sidi Bel Abbès/Sidi Abdeli	Naftal	31.61	10		
Sidi Abdeli/Remchi	Naftal	14.12	8		
Arzew/Oran	Naftal	18.63	8	1,608	695
Skikda/Berrahal	Naftal	52.82	12	2,154	–
Angola					
	na	na	na	na	na
Ecuador					
Esmeraldas/Santo Domingo	Petrocomercial	101	16	2.9	na
Santo Domingo/Beaterio (Quito)	Petrocomercial	54	12	2.4	na
Santo Domingo/Pascuales (Guayaquil)	Petrocomercial	170	10	1.7	na
Libertad/Barbasquilo/Guayaquil	Petrocomercial	104	6	0.4	na
Libertad/Pascuales (Guayaquil)	Petrocomercial	78	10	0.7	na
Shushufindi/Beaterio (Quito)	Petrocomercial	187	6	0.3	na
Quito/Ambato	Petrocomercial	69	6	0.5	na
IR Iran					
Mahshahr/Abadan	NIOC	63	16	na	na
Abadan/Ahwz	NIOC	94	12, 16	na	na
Ahwaz/Rey	NIOC	510	10, 14, 10	na	na
Ahwaz/Rey	NIOC	469	16, 20, 16	na	na
Esfahan/Rey	NIOC	231	18	na	na
Esfahan/Rey	NIOC	231	24	na	na
Arak/Rey	NIOC	160	10, 16	na	na
Arak/Hamedan	NIOC	107	12	na	na
Rey/Tabriz	NIOC	476	14	na	na
Tabriz/Orumaieh	NIOC	174	8, 10	na	na
Rey/Rasht	NIOC	195	14, 16, 18	na	na
Rey/Karadj	NIOC	36	8	na	na
Gahazvin/Rasht	NIOC	109	6	na	na
Rey/Mashad	NIOC	523	20, 22	na	na
Shahrood/Mashad	NIOC	275	8	na	na
Shahrood/Gorgan — Gonbad	NIOC	103	8, 10	na	na
Imam — Taghy/Torbat Haidar	NIOC	58	8	na	na
Rey/Sary	NIOC	178	12, 16	na	na
Iraq					
Huzairan Depot/Baiji	OPC	98	12 x 2, 16 x 69	5.6	na
Baiji/HamamAlil	OPC	167	16	0.015	na
Baiji/Kirkuk	OPC	86	12	0.06	1.03
Baiji/T1	OPC	242	16	0.05	na
Baiji/Mushahdah	OPC	168	22	0.024	0.25

Petroleum product pipelines in OPEC Members, 2011

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
Iraq (cont'd)					
Baiji/Mushahdah	OPC	168	8	0.024	0.31
Daura/Baghdad international airport	OPC	28	8	0.031	5.30
Duara/Rusafa	OPC	51	10	0.06	35.00
Hamam Alil/Felfel	OPC	65	32	0.015	na
Karkh/Habania	OPC	156	16 x 31, 12 x 125	0.06	na
Khour Al-Zubair/Shuaiba	OPC	45	8/10	0.035	na
Mushahdah/Karkh	OPC	111	12	0.091	na
Mushahdah/Rusafa	OPC	52	12	0.085	na
Nasuria/Duara	OPC	379	10/14	0.055	1.90
Nasuria/Kut	OPC	186	8	0.022	na
North Gas/Salah Al-Dean refinery	OPC	86	8	0.029	na
Rusafa/Diala	OPC	25.4	8	0.05	–
Shuaiba/Nasuria	OPC	162	14	0.06	1.16
Shuaiba/Khour Al-Zubair	OPC	47	8/10	0.09	na
Shuaiba/Muftia	OPC	21	10	0.055	na
Shuaiba/Muftia	OPC	21	6	2	na
Shuaiba/Muftia	OPC	21	8	3.5	24.99
Kuwait					
MAA refinery/Suhan (Mogas)	KNPC	20	12	na	1.8
MAA refinery/Kafco	KNPC	25	8	na	0.15
MAA refinery/Suhan (kero and gas oil)	KNPC	20	8	na	0.032
MAA refinery/Al-Zour	KNPC	52	18/16	na	6.7
Shuaiba/Kafco	KNPC	22	8	1.5	0.7
Shuaiba/ML (unleaded gasoline)	KNPC	22	10	1.8	0.45
Shuaiba/Kafco LM (gas oil)	KNPC	22	8	1.4	1.34
Libya					
Azzawiya/Airport Road Depots	Elbrega Co	55	16	17.7	na
Azzawiya/Airport Road Depots	Elbrega Co	55	10	13	na
Azzawiya/Janzour	Elbrega Co	34	8	5.37	na
Azzawiya/Elwettia	Elbrega Co	90	16	21	na
Azzawiya/Al-Jmail	Elbrega Co	65	16	21	na
Nigeria					
Warri/Benin/Auchi-Sul	NNPC/PPMC	446	16	na	na
Atlas Cove/Mosimi	NNPC/PPMC	73	16	na	na
Mosimi/LG/IB/IKJ	NNPC/PPMC	174	6, 12	na	na
Mosimi/Satellite	NNPC/PPMC	29	8, 12	na	na
Mosimi/Ore	NNPC/PPMC	95	12	na	na
Ibadan/Ilorin	NNPC/PPMC	169	6	na	na
Kaduna/Kano	NNPC/PPMC	225	10	na	na
Kaduna/Jos	NNPC/PPMC	165	10, 12	na	na
Suleja/Minna	NNPC/PPMC	50	8	na	na

Table 4.11

Transportation

Petroleum product pipelines in OPEC Members, 2011

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
Nigeria (cont'd)					
Jos/Gombe/Maiduguri	NNPC/PPMC	830	6,8	na	na
Port Harcourt/Enugu	NNPC/PPMC	131	12	na	na
Port Harcourt/Aba	NNPC/PPMC	34	12	na	na
Enugu/Makurdi	NNPC/PPMC	167	8	na	na
Enugu/Makurdi/Yola	NNPC/PPMC	637	8	na	na
Enugu/Auchi/Kaduna	NNPC/PPMC	559	12	na	na
Enugu/Auchi	NNPC/PPMC	106	12	na	na
Qatar					
QP Refinery/WOQOD, Doha	QP Refinery	26.5167	12	2	3
QP Refinery/WOQOD, Doha	QP Refinery	26.082	18	2	1
QP Refinery/WOQOD, Doha	QP Refinery	18.63	6	–	–
QP Refinery/Export berth	QP Refinery	3.728227	16	11	–
QP Refinery/Export berth	QP Refinery	3.728227	20	7	–
Saudi Arabia					
Dharan/Riyadh	Saudi Aramco	246	20	173	na
Riyadh/Qasim	Saudi Aramco	225	16	80	na
Yanbu/Madina	Saudi Aramco	93	14	50	na
Ras Tanura/Dhahran	Saudi Aramco	66	20	200	na
Ras Tanura/Dhahran	Saudi Aramco	23, 22	12, 12	160	na
Abqaiq/Alhasa	Saudi Aramco	40	8	23	na
United Arab Emirates					
Mussaffah/Ai Ain	Takreer	101	10	na	na
Mussaffah/Abu Dhabi airport	Takreer	17	10	na	na
Ruwais refinery/Mussaffah	Takreer	129	16	na	na
Abu Dhabi refinery/Mussaffah	Takreer	10	12	na	na
Abu Dhabi refinery LPG/Mussaffah	Takreer	10	8	na	na
Abu Dhabi refinery/Abu Dhabi airport	Takreer	10	10	na	na
Venezuela					
Puerto La Cruz/San Tome	PDVSA	99	16	1.2	0.6
San Tome/Maturin	PDVSA	99	8	0.94	0.77
San Tome/Puerto Ordaz	PDVSA	124	12	1.2	0.74
Puerto Ordaz/Ciudad Bolivar	PDVSA	44	8	1.2	0.3
Bajo Grande/San Lorenzo	PDVSA	70	12	3.19	0.97
San Lorenzo/El Vigia	PDVSA	104	12	2.69	1.55
Carenero plant/Guatire plant	PDVSA	45	16	3.28	2.48
El Palito refinery/Yagua plant	PDVSA	29	16	2.5	2.6
El Palito refinery/Barquisimeto plant	PDVSA	95	12	2.15	2.69

Notes: Figures as at year-end.

Section 5

Prices



Table 5.1

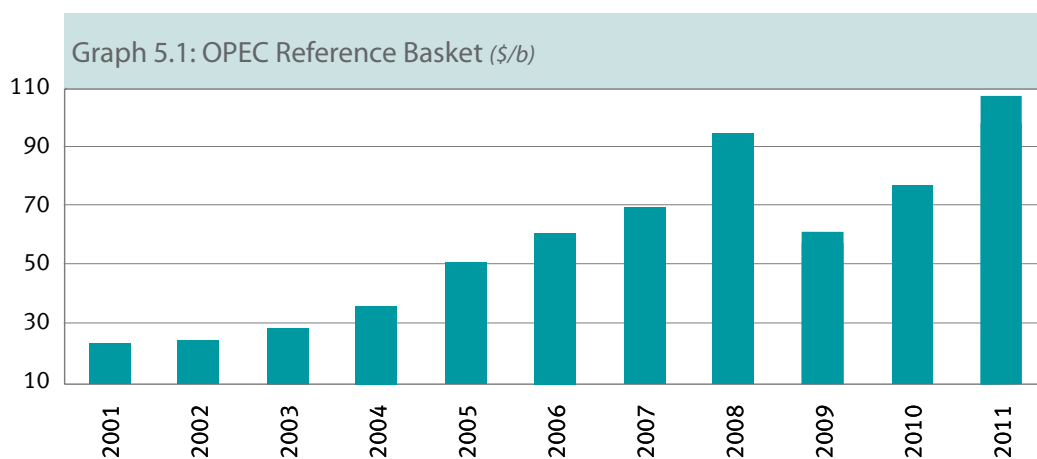
P r i c e s

Spot OPEC Reference Basket prices (\$/b)

	Algeria Saharan Blend	Angola Girassol	Ecuador Oriente	IR Iran Iran Heavy	Iraq Basra Light	Kuwait Kuwait Export	Libya Ess Sider	Nigeria Bonny Light	Qatar Marine	Saudi Arabia Arab Light	UAE Murban	Venezuela Merey ¹	OPEC Reference Basket
2001	24.74	na	21.78	21.67	na	21.37	24.70	24.50	23.23	23.06	24.02	na	23.12
2002	24.91	31.02	21.95	23.09	23.32	23.61	24.55	25.15	23.99	24.32	24.87	na	24.36
2003	28.73	28.33	25.42	26.34	26.60	26.89	28.21	28.77	27.05	27.69	28.25	na	28.10
2004	38.35	35.77	30.31	33.06	34.60	34.08	36.58	38.27	34.04	34.53	36.65	na	36.05
2005	54.64	51.33	43.43	47.99	48.33	48.66	52.62	55.67	50.49	50.21	54.09	40.53	50.64
2006	66.05	63.06	53.93	59.27	57.97	58.88	63.35	66.84	62.64	61.10	66.06	52.01	61.08
2007	74.66	70.88	61.55	67.06	66.40	66.35	71.41	75.14	69.30	68.75	72.87	61.80	69.08
2008	98.96	95.64	85.43	91.49	92.08	91.16	96.65	100.60	94.86	95.16	99.03	86.73	94.45
2009	62.35	61.81	55.84	60.62	60.50	60.68	61.45	63.25	62.38	61.38	63.78	55.90	61.06
2010	80.35	79.53	72.82	76.74	76.79	76.32	79.13	81.07	78.18	77.82	79.94	69.70	77.45
2011	112.92	111.57	101.03	106.11	106.17	105.63	111.90	114.15	106.53	107.82	109.77	97.94	107.46

Notes: OPEC Reference Basket: Up to May 2005, ORB was calculated according to the old methodology. As of June 16, 2005, the new Basket methodology was implemented (for details, please refer to OPEC Basket definition under 'General Notes'). Basrah Light: up to 2001, delivery ex-Yanbu. As of 2002, quotations for US market and as of June 16, 2005, Market Weighted Average. Up to 2005, prices are averages of weekly fob quotations. As of 2006, based on daily quotations.

1. Prior to 2009, price of BCF-17 which was the component of the OPEC Basket and was replaced by Merey in 2009.



Spot crude oil prices (\$/b)

	Algeria Zarzaitine	Angola Cabinda	IR Iran Iran Light	Libya Brega	Nigeria Forcados	Qatar Dukhan	Saudi Arabia Arab Heavy
2001	24.86	22.83	22.90	24.70	24.24	23.74	21.90
2002	25.06	24.27	23.52	24.96	25.05	24.37	23.38
2003	28.99	28.01	26.89	28.89	28.65	27.44	26.43
2004	38.53	35.54	34.60	38.35	38.10	36.05	31.14
2005	54.87	51.20	50.66	54.22	55.60	53.46	45.28
2006	66.31	62.07	61.07	65.04	67.07	65.39	56.82
2007	74.16	69.65	69.30	72.93	74.49	72.33	64.18
2008	99.33	94.29	94.66	98.12	101.42	98.39	88.12
2009	62.63	61.42	61.25	62.16	63.35	62.86	60.25
2010	80.34	79.13	78.18	79.67	81.06	79.36	75.56
2011	112.26	110.09	108.29	112.89	113.65	108.86	104.06

Notes: Up to 2005, prices are averages of weekly fob quotations. As of 2006, prices are based on daily quotations.

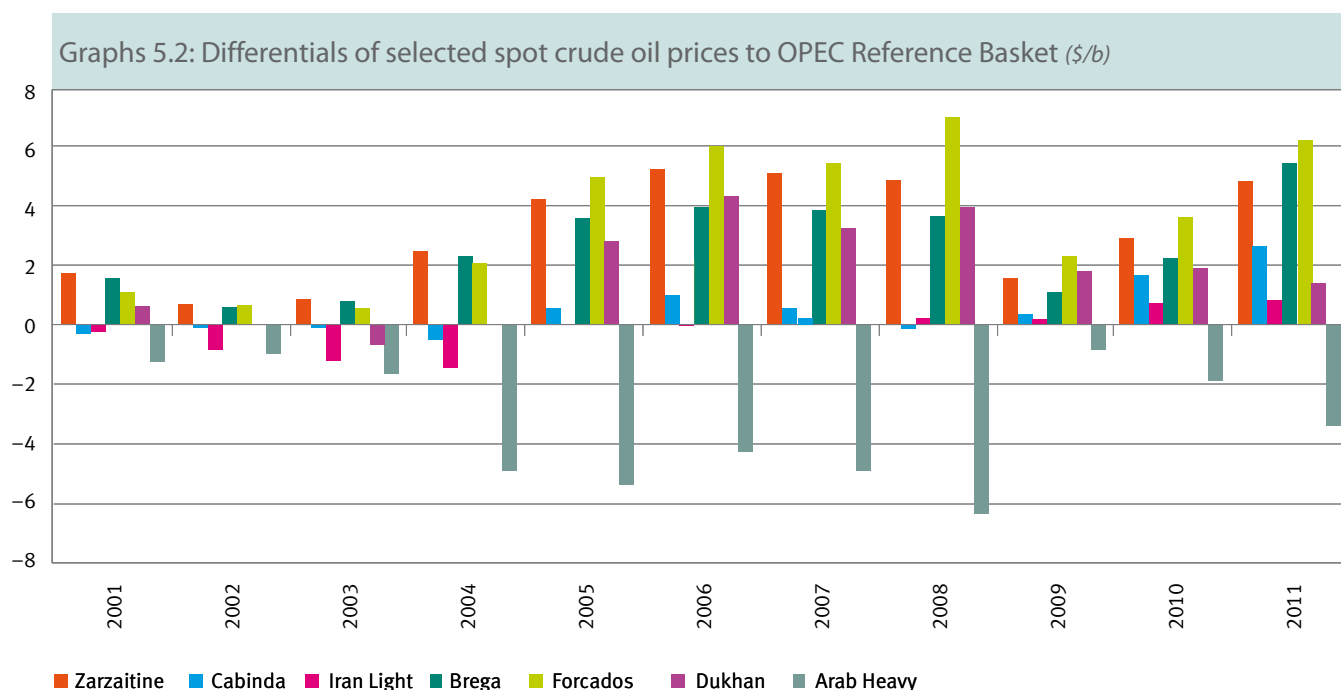


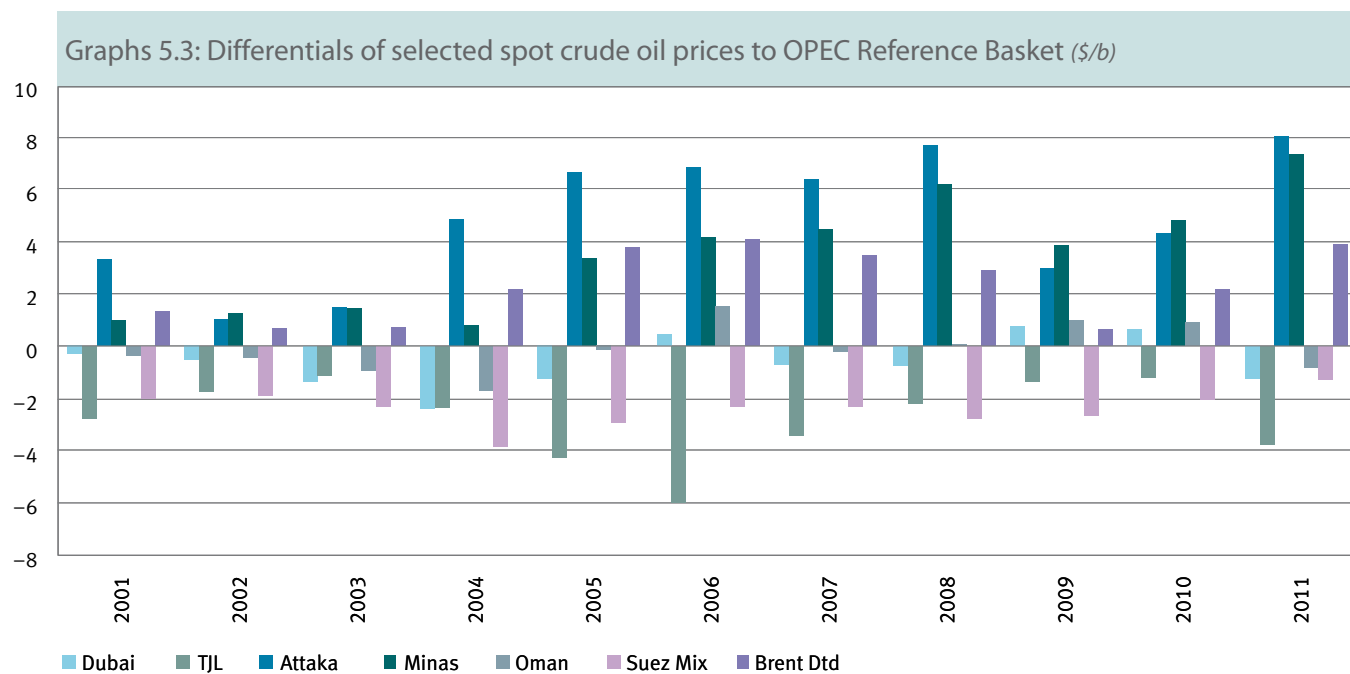
Table 5.2

P r i c e s

Spot crude oil prices (\$/b)

	UAE Dubai	Venezuela TJL	Indonesia Attaka	Indonesia Minas	Oman Oman	Egypt Suez Blend	UK Brent Dtd
2001	22.83	20.35	26.45	24.11	22.75	21.09	24.46
2002	23.83	22.61	25.38	25.60	23.94	22.45	25.03
2003	26.77	26.97	29.58	29.52	27.14	25.76	28.81
2004	33.66	33.66	40.87	36.85	34.35	32.19	38.23
2005	49.36	46.37	57.26	54.01	50.48	47.71	54.44
2006	61.54	55.07	67.91	65.23	62.59	58.74	65.16
2007	68.38	65.65	75.44	73.56	68.86	66.78	72.55
2008	93.85	92.25	102.16	100.65	94.51	91.68	97.37
2009	61.83	59.69	64.00	64.90	62.06	58.38	61.68
2010	78.10	76.22	81.78	82.28	78.34	75.40	79.60
2011	106.21	103.66	115.50	114.79	106.63	106.18	111.36

Notes: Up to 2005, prices are averages of weekly fob quotations. As of 2006, based on daily quotations.



Spot crude oil prices (\$/b)

	UK Forties	Norway Ekofisk	Norway Oseberg	Mexico Isthmus	Mexico Maya	China Daqing	Malaysia Tapis
2001	24.60	24.39	24.54	22.22	17.31	24.78	25.44
2002	24.98	24.88	25.02	24.12	20.93	25.45	25.69
2003	28.94	28.89	28.97	28.25	24.23	29.52	30.08
2004	38.85	38.18	38.33	37.01	30.00	36.72	41.14
2005	55.06	54.48	54.84	50.35	40.94	52.65	57.94
2006	65.85	65.30	65.95	59.87	51.25	63.33	70.04
2007	72.46	73.20	73.87	67.58	59.83	71.30	77.87
2008	97.25	99.40	99.74	95.22	84.39	96.72	104.55
2009	61.68	62.67	62.83	60.85	56.65	59.97	65.05
2010	79.60	80.52	80.77	77.86	70.14	78.45	82.74
2011	111.36	112.74	112.98	105.64	98.64	110.46	117.15

Notes: Up to 2005, prices are averages of weekly fob quotations. As of 2006, prices are based on daily quotations.

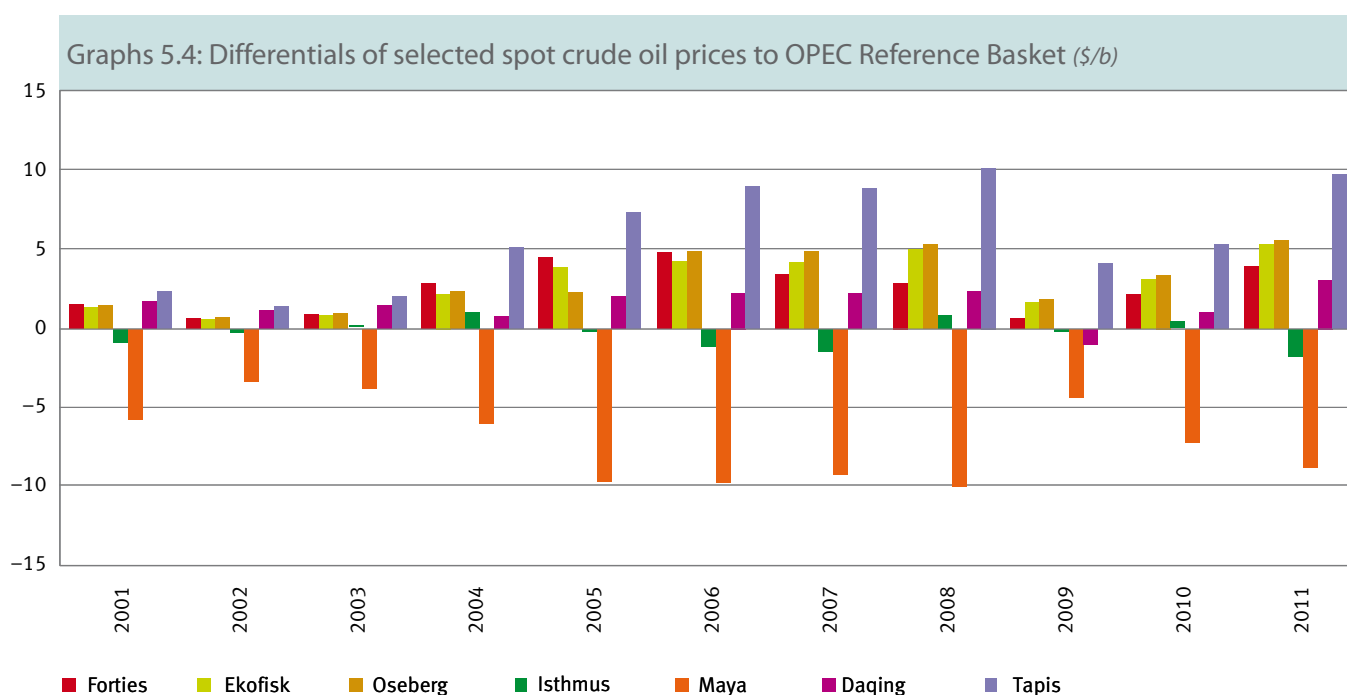


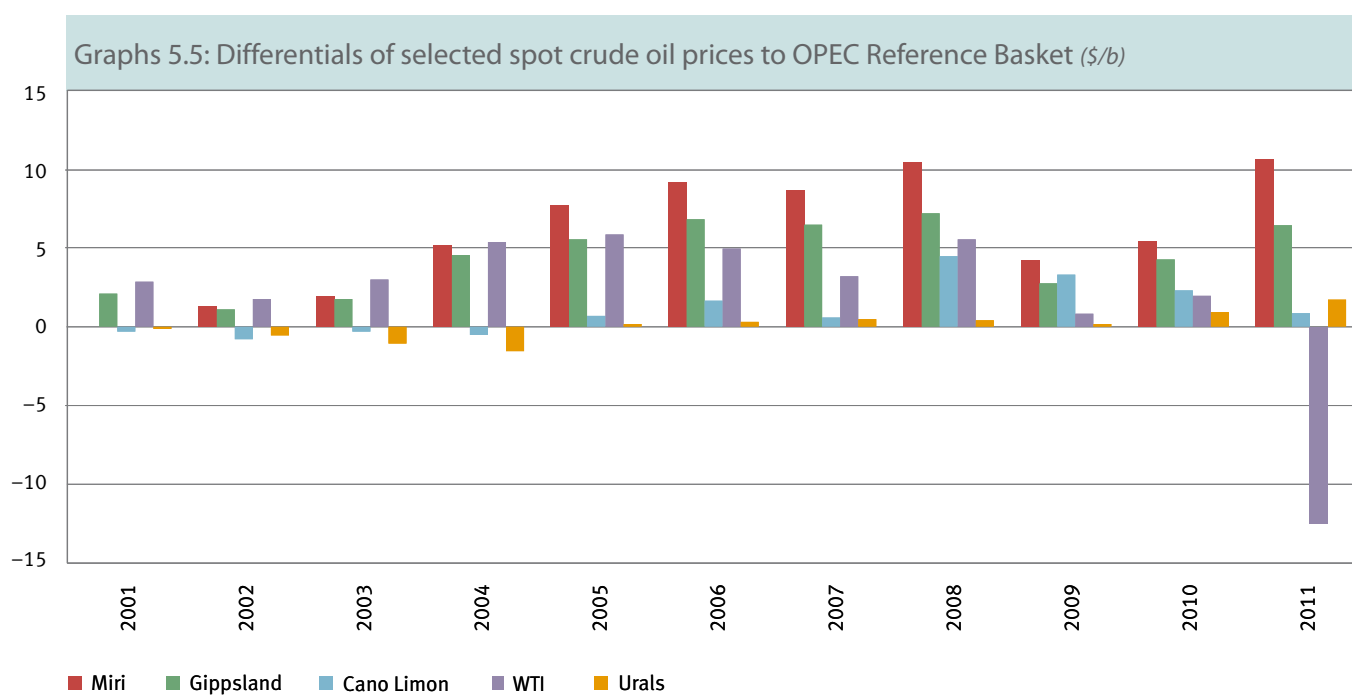
Table 5.2

P r i c e s

Spot crude oil prices (\$/b)

	Malaysia Miri	Australia Gippsland	Colombia Cano Limon	USA WTI	Russia Urals
2001	na	25.22	22.82	26.00	22.97
2002	25.65	25.47	23.55	26.13	23.80
2003	30.07	29.85	27.78	31.09	27.02
2004	41.21	40.58	35.53	41.44	34.47
2005	58.33	56.18	51.31	56.51	50.79
2006	70.30	67.92	62.72	66.04	61.37
2007	77.76	75.55	69.67	72.29	69.55
2008	104.90	101.66	98.94	100.00	94.87
2009	65.27	63.81	64.38	61.88	61.22
2010	82.87	81.73	79.75	79.42	78.39
2011	118.08	113.91	108.30	94.99	109.19

Notes: Up to 2005, prices are averages of weekly fob quotations. As of 2006, prices are based on daily quotations. Urals delivery to Mediterranean.



Crude oil prices in nominal and real terms (\$/b)

	Nominal oil price ¹	Exchange rates ²	Nominal price adjusted for Inflation ³	Combined ⁴
2001	23.12	35.72	4.33	6.70
2002	24.36	36.14	4.48	6.64
2003	28.10	36.31	5.06	6.54
2004	36.05	43.00	6.36	7.59
2005	50.64	60.43	8.74	10.43
2006	61.08	72.55	10.31	12.24
2007	69.08	76.80	11.41	12.68
2008	94.45	100.83	15.09	16.11
2009	61.06	68.76	9.73	10.95
2010	77.45	89.79	12.12	14.05
2011	107.46	119.73	16.33	18.20

Notes: Base: 1973 = 100.

1. Up to October 1974: 93 per cent of the posted prices of Arab Light (fob Ras Tanura). November 1974 to December 1981: official prices of Arab Light (fob Ras Tanura). As of 1982, OPEC Reference Basket price (*nb*, as of June 16, 2005, the new Basket methodology came into effect — see OPEC Basket definition under 'General Notes').
2. Based on weighted average index of currency exchange rates in the modified Geneva I Agreement (see Geneva I Agreement definition under 'General Notes').
3. Based on weighted average consumer price indices of modified Geneva I countries and USA.
4. Based on combined indices of exchange rates and inflation.

Graph 5.6: Crude oil prices in nominal and real terms: base 1973=100 (\$/b)

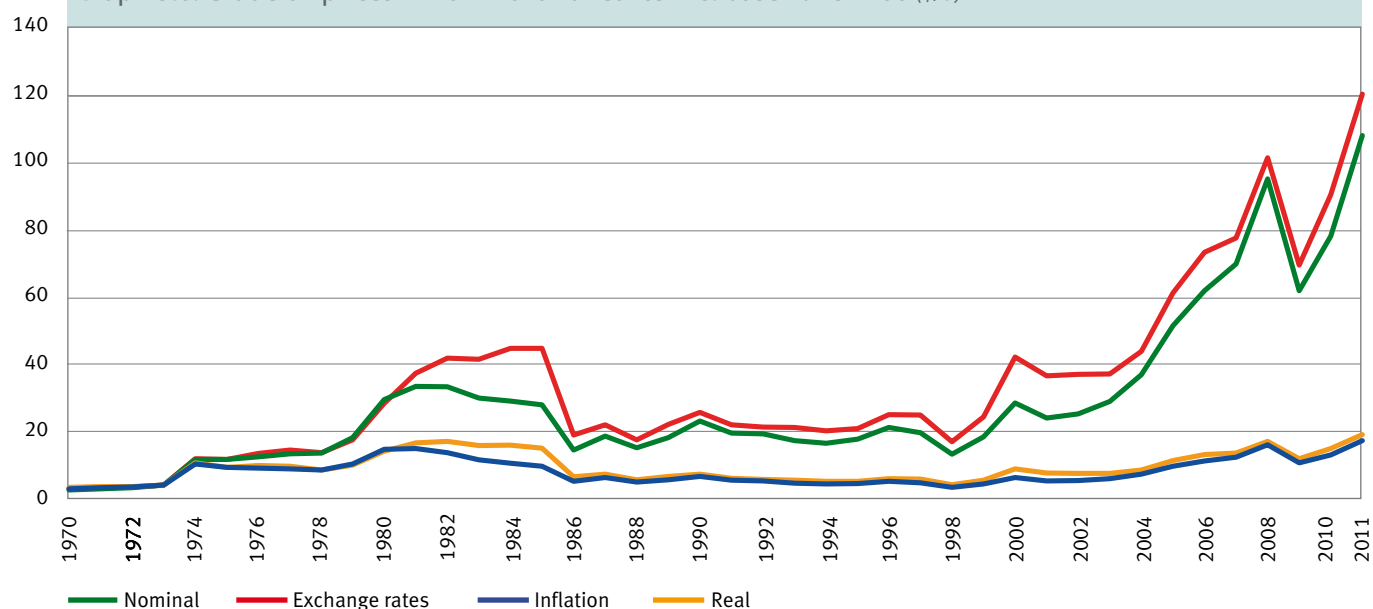


Table 5.4

P r i c e s

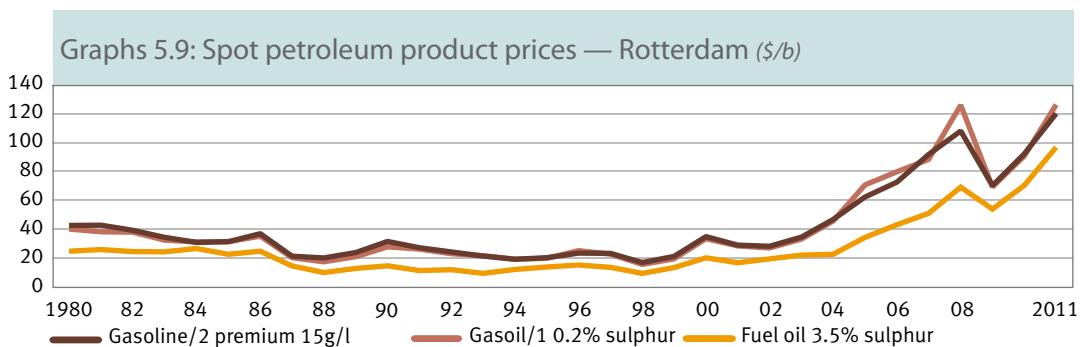
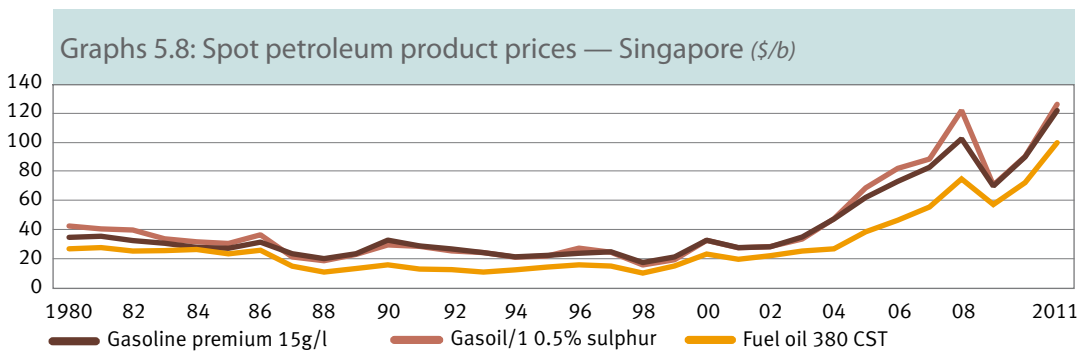
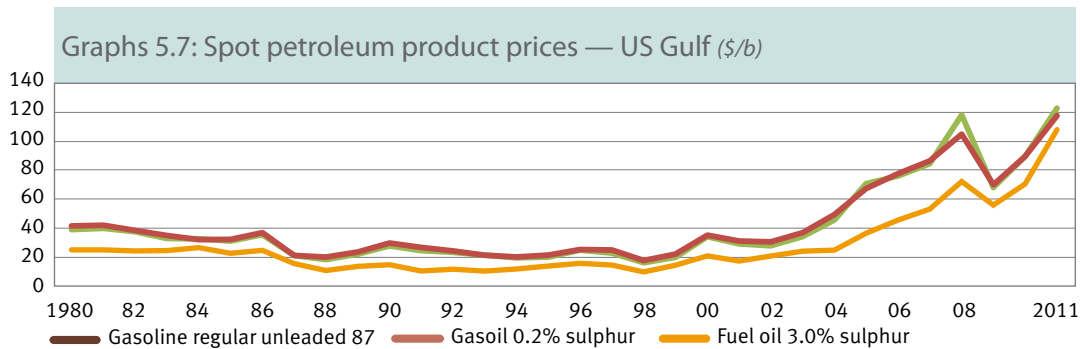
Spot prices of petroleum products in major markets (\$/b)

	US Gulf			Singapore			Rotterdam		
	gasoline	gasoil	fuel oil	gasoline	gasoil ¹	fuel oil	gasoline ¹	gasoil ²	fuel oil
	reg unl 87	0.2% sulphur	3.0% sulphur	prem 0.15g/l	0.5% sulphur	380 CST	prem 0.15g/l	0.2% sulphur	3.5% sulphur
2001	31.02	29.04	17.18	27.47	27.30	19.42	29.29	28.77	17.08
2002	30.44	27.75	20.69	28.00	28.15	21.83	28.47	27.33	19.76
2003	36.83	34.09	24.02	34.74	33.38	25.07	34.86	33.47	22.38
2004	49.37	45.62	24.75	47.19	47.31	26.58	47.10	46.01	22.94
2005	67.25	70.71	36.42	62.10	68.66	38.38	62.58	70.91	34.59
2006	77.61	76.01	45.56	73.13	82.09	46.37	72.90	80.06	43.36
2007	86.42	84.45	53.08	82.87	88.55	55.49	92.03	88.62	51.30
2008	104.92	118.24	72.21	102.56	122.06	74.85	108.27	126.20	69.37
2009	69.98	68.00	55.90	69.92	70.59	57.16	70.45	69.52	54.22
2010	89.54	89.55	70.45	90.05	90.35	72.28	92.35	90.85	70.55
2011	117.70	122.83	108.01	122.04	126.29	99.87	120.35	126.52	97.02

Notes: US Gulf and Singapore prices apply to cargo; Rotterdam prices apply to barge size lots. Gasoline specification in Singapore is 97 research octane number with 0.15 gram lead per litre. Fuel oil viscosity is 380 centistokes with 3.5 per cent sulphur. Gasoline specification for Rotterdam is 97–98 RON with 0.15 gram per litre lead.

1. From 2005, unleaded 95 RON.

2. From 2005, gasoil with 0.05 per cent sulphur.



Retail prices of petroleum products in OPEC Members (*units of national currency/b*)

	FX rate to \$	2007	FX rate to \$	2008	FX rate to \$	2009	FX rate to \$	2010	FX rate to \$	2011
Algeria	69.7		64.6		72.0		74.4		72.9	
Gasoline		2,210.0		2,226.7		2,226.7		2,226.7		2,226.7
Diesel oil		1,370.0		1,370.0		1,370.0		1,370.0		1,370.0
Kerosene		na		na		na		na		na
Fuel oil		170.0		na		na		na		na
Angola	77.4		75.0		78.2		78.2		78.2	
Gasoline		28,084.2		na		28,084.2		28,084.2		9,540.0
Diesel oil		14,028.6		na		14,028.6		14,028.6		6,360.0
Kerosene		15,690.1		na		15,690.1		15,690.1		3,339.0
Fuel oil		50.8		na		50.8		50.8		49.0
Ecuador	1.0		1.0		1.0		1.0		1.0	
Gasoline		na		238.1		238.1		238.1		901.3
Diesel oil		na		143.4		143.4		143.4		542.9
Kerosene		na		143.4		143.4		143.4		542.9
Fuel oil		na		89.5		89.5		89.5		338.9
IR Iran	9,274.9		9,467.0		9,878.4		10,066.5		1,225.0	
Gasoline		174,900.0		174,900.0		198,750.0		198,750.0		755,250.0
Diesel oil		64,395.0		26,235.0		26,235.0		26,235.0		238,500.0
Kerosene		26,235.0		26,235.0		26,235.0		26,235.0		238,500.0
Fuel oil		9,946.2		10,104.5		10,104.5		20,208.9		318,000.0
Iraq	1,254.9		1,193.1		1,160.2		1,167.2		1,167.2	
Gasoline		na		71,550.0		71,550.0		67,575.0		71,550.0
Diesel oil		na		63,600.0		63,600.0		186,030.0		63,600.0
Kerosene		na		35,775.0		35,775.0		15,900.0		23,850.0
Fuel oil		na		41,737.5		41,737.5		na		15,900.0
Kuwait	0.3		0.3		0.3		0.3		0.3	
Gasoline		113.3		114.0		114.0		114.0		114.0
Diesel oil		87.5		87.5		87.5		87.5		87.5
Kerosene		87.5		87.5		87.5		87.5		87.5
Fuel oil		na		na		na		na		na
Libya	1.3		1.2		1.3		1.3		1.3	
Gasoline		25.4		28.6		31.8		31.8		23.9
Diesel oil		23.9		27.0		30.2		27.0		27.0
Kerosene		12.7		12.7		12.7		12.7		12.7
Fuel oil		3.5		3.5		3.5		3.5		3.5
Nigeria	125.5		118.7		149.6		149.6		155.5	
Gasoline		na		11,130.0		14,531.0		10,335.0		10,335.0
Diesel oil		na		14,310.0		14,922.2		16,641.7		24,686.3
Kerosene		na		7,950.0		15,357.8		18,614.1		26,988.7
Fuel oil		na		4,038.6		11,452.8		na		9,978.8
Qatar	3.6		3.6		3.6		3.6		3.7	
Gasoline		119.3		119.3		119.3		119.3		143.1
Diesel oil		143.1		143.1		na		na		111.3
Kerosene		na		na		na		na		na
Fuel oil		na		na		na		na		na
Saudi Arabia	3.8		3.8		3.8		3.8		3.8	
Gasoline		83.5		83.5		83.5		83.5		83.5
Diesel oil		39.8		39.8		39.8		39.8		39.8
Kerosene		69.2		69.2		69.2		68.4		69.2
Fuel oil		na		na		na		na		na
United Arab Emirates	3.7		3.7		3.7		3.7		3.7	
Gasoline		218.6		218.6		218.6		218.6		218.6
Diesel oil		300.7		300.7		300.7		300.7		300.7
Kerosene		na		na		na		na		na
Fuel oil		na		na		na		na		na
Venezuela	4.3		4.3		4.3		4.3		4.3	
Gasoline		13.3		13.3		13.3		13.3		13.3
Diesel oil		9.1		7.6		7.6		7.6		7.6
Kerosene		369.2		369.2		369.2		369.2		422.2
Fuel oil		9.6		9.6		9.6		9.6		9.6

Notes: Prices partly estimated and preliminary. Quotations partially converted from US dollars to national currency.

Table 5.6

P r i c e s

Retail prices of petroleum products in OPEC Members (\$/b)

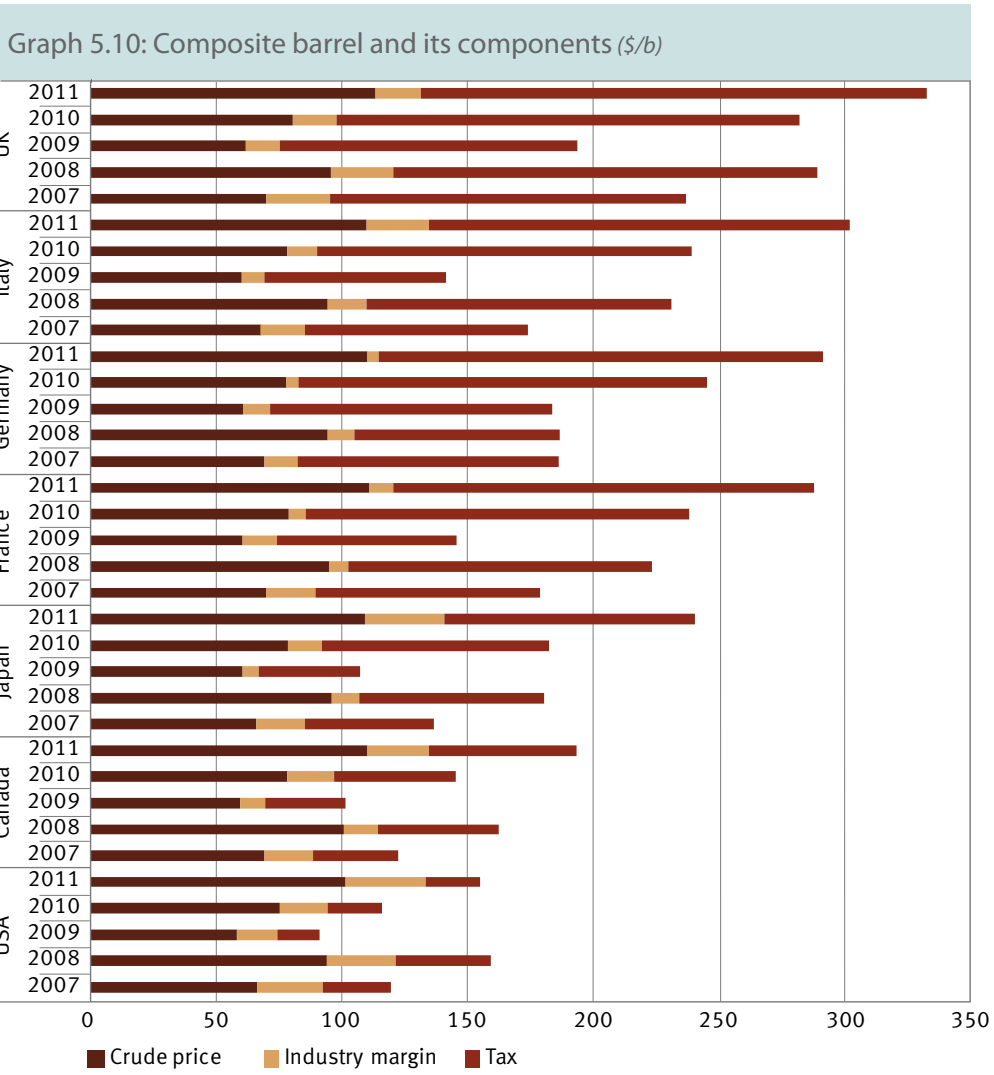
	2007	2008	2009	2010	2011
Algeria					
Gasoline	31.7	34.5	30.9	29.9	30.6
Diesel oil	19.7	21.2	19.0	18.4	18.8
Kerosene	na	na	na	na	na
Fuel oil	2.4	na	na	na	na
Angola					
Gasoline	362.9	na	359.3	359.3	101.8
Diesel oil	201.3	na	194.9	194.9	68.4
Kerosene	225.1	na	218.0	218.0	35.0
Fuel oil	0.7	na	0.7	0.7	5.2
Ecuador					
Gasoline	na	238.1	238.1	238.1	901.3
Diesel oil	na	143.4	143.4	143.4	542.9
Kerosene	na	143.4	143.4	143.4	542.9
Fuel oil	na	89.5	89.5	89.5	338.9
IR Iran					
Gasoline	18.9	18.5	20.1	19.7	616.5
Diesel oil	6.9	2.8	2.7	2.6	194.7
Kerosene	2.8	2.8	2.7	2.6	194.7
Fuel oil	1.1	1.1	1.0	2.0	259.6
Iraq					
Gasoline	na	60.0	61.7	58.3	60.4
Diesel oil	na	53.3	54.8	na	54.1
Kerosene	na	30.0	30.8	127.3	20.7
Fuel oil	na	35.0	36.0	na	12.7
Kuwait					
Gasoline	398.5	423.7	395.3	395.3	395.3
Diesel oil	307.6	325.1	303.4	303.4	303.4
Kerosene	307.6	325.1	303.4	303.4	303.4
Fuel oil	na	na	na	na	na
Libya					
Gasoline	20.2	23.5	25.4	25.4	25.4
Diesel oil	18.9	22.2	24.1	21.6	21.6
Kerosene	10.1	10.4	10.2	10.2	10.2
Fuel oil	2.8	2.9	2.8	2.8	2.8
Nigeria					
Gasoline	na	93.8	97.1	68.4	66.5
Diesel oil	na	120.6	99.7	110.9	158.8
Kerosene	na	67.0	102.6	124.1	173.6
Fuel oil	na	34.0	76.5	na	64.2
Qatar					
Gasoline	32.8	32.8	32.7	32.7	39.3
Diesel oil	39.3	39.3	na	na	30.5
Kerosene	na	na	na	na	na
Fuel oil	na	na	na	na	na
Saudi Arabia					
Gasoline	22.3	22.3	22.3	22.3	22.3
Diesel oil	10.6	10.6	10.6	10.6	10.6
Kerosene	18.4	18.4	18.4	18.4	18.4
Fuel oil	na	na	na	na	na
United Arab Emirates					
Gasoline	59.5	59.5	59.5	59.5	59.5
Diesel oil	81.9	81.9	81.9	81.9	81.9
Kerosene	na	na	na	na	na
Fuel oil	na	na	na	na	na
Venezuela					
Gasoline	3.1	3.1	3.1	3.1	3.1
Diesel oil	2.1	1.8	1.8	1.8	1.8
Kerosene	85.9	85.9	85.9	85.9	98.2
Fuel oil	2.2	2.2	2.2	2.2	2.2

Notes: Prices partly estimated and preliminary.

Composite barrel and its components in major consuming countries (\$/b)

	2007			2008			2009			2010			2011		
	\$/b	% share	% change y-o-y	\$/b	% share	% change y-o-y	\$/b	% share	y-o-y	\$/b	% share	% change y-o-y	\$/b	% share	% change y-o-y
United States															
Composite barrel	119.7		10.1	159.6		33.4	91.8		-42.5	115.9		26.3	155.4		34.1
Crude cif price	66.8	55.8	12.9	95.0	59.5	42.2	58.8	64.1	-38.1	76.0	65.6	29.2	102.4	65.9	34.7
Tax	26.8	22.4	17.5	38.1	23.9	42.3	16.9	18.4	-55.7	21.4	18.4	26.7	21.6	13.9	0.8
Industry margin	26.1	21.8	-2.3	26.5	16.6	1.5	16.1	17.5	-39.5	18.5	16.0	15.2	31.4	20.2	69.7
Canada															
Composite barrel	122.4		7.1	162.9		33.1	101.8		-37.5	145.6		42.9	193.9		33.2
Crude cif price	70.0	57.2	8.9	101.4	62.2	44.8	60.3	59.2	-40.5	79.1	54.4	31.3	110.8	57.2	40.0
Tax	33.4	27.3	4.7	48.4	29.7	45.0	31.8	31.2	-34.3	48.4	33.3	52.3	58.8	30.3	21.4
Industry margin	18.96	15.5	4.9	13.1	8.0	-30.8	9.7	9.6	-25.7	18.0	12.4	84.9	24.3	12.5	34.9
Japan															
Composite barrel	137		6.7	181.2		32.2	108.3		-40.2	182.9		68.9	240.6		31.6
Crude cif price	70.09	51.2	9.5	101.0	55.7	44.1	61.3	56.6	-39.3	79.4	43.4	29.6	109.3	45.4	37.6
Tax	51.1	37.3	0.6	73.7	40.7	44.2	40.9	37.8	-44.4	90.7	49.6	121.6	99.2	41.2	9.4
Industry margin	15.81	11.5	16.5	6.5	3.6	-58.8	6.1	5.6	-6.9	12.7	7.0	109.9	32.1	13.3	152.4
France															
Composite barrel	179		7.1	224.1		25.2	146.6		-34.6	238.2		62.4	287.9		20.9
Crude cif price	72.2	40.3	13.4	97.6	43.6	35.2	61.6	42.0	-36.9	79.8	33.5	29.4	111.8	38.8	40.1
Tax	89.4	49.9	2.2	120.8	53.9	35.2	72.1	49.2	-40.3	151.8	63.8	110.5	167.0	58.0	10.0
Industry margin	19.6	10.9	10.7	8.0	3.6	-59.0	12.9	8.8	60.1	6.6	2.8	-49.0	9.1	3.1	38.1
Germany															
Composite barrel	186.3		7.8	245.7		31.9	193.5		-21.2	245.7		27.0	291.4		18.6
Crude cif price	71.6	38.4	13.1	96.7	39.4	35.1	61.2	31.6	-36.7	78.5	32.0	28.3	110.6	38.0	40.9
Tax	103.9	55.8	5.4	140.3	57.1	35.1	111.1	57.4	-20.8	162.9	66.3	46.6	176.4	60.5	8.3
Industry margin	12.7	6.8	-1.6	11.1	4.5	-13.0	21.2	11.0	91.9	4.3	1.7	-79.8	4.4	1.5	2.5
Italy															
Composite barrel	174.3		9.9	231.8		33.0	151.7		-34.6	239.5		57.9	302.3		26.2
Crude cif price	70.2	40.3	12.3	96.7	41.7	37.7	60.7	40.0	-37.2	79.3	33.1	30.6	110.2	36.5	39.0
Tax	88.3	50.7	1.8	121.6	52.5	37.7	72.1	47.6	-40.7	149.1	62.3	106.7	167.2	55.3	12.1
Industry margin	17.2	9.9	62.3	15.2	6.6	-11.7	18.9	12.4	24.1	11.1	4.6	-41.1	24.8	8.2	123.7
United Kingdom															
Composite barrel	236.9		5.9	289.3		22.1	194.0		-33.0	282.0		45.4	332.8		18.0
Crude cif price	73.8	31.2	13.5	99.3	34.3	34.6	62.4	32.2	-37.2	80.6	28.6	29.2	113.5	34.1	40.8
Tax	140.7	59.4	2.7	168.4	58.2	19.7	117.9	60.8	-30.0	183.6	65.1	55.8	200.9	60.4	9.4
Industry margin	25.4	10.7	4.5	24.8	8.6	-2.2	13.7	7.1	-44.7	17.7	6.3	29.1	18.4	5.5	3.9
G7															
Composite barrel	165.1		7.6	213.5		29.3	138.2		-35.3	207.1		49.8	257.8		24.5
Crude cif price	70.7	42.8	11.9	98.2	46.0	39.0	60.9	44.1	-38.0	79.0	38.1	29.7	109.8	42.6	39.1
Tax	76.2	46.2	3.6	101.6	47.6	33.3	66.1	47.8	-34.9	115.4	55.7	74.6	127.3	49.4	10.3
Industry margin	19.4	11.8	9.6	15.0	7.0	-22.5	11.2	8.1	-25.4	12.7	6.1	13.2	20.6	8.0	62.5

Notes: Prices partly estimated and preliminary. Revisions have been made throughout the time series. Composite barrel is a consumption weighted average of final consumer prices of main groups of refined products (including taxes). Tax is a consumption weighted average of total taxes (including VAT) levied on refined products. Industry margin is a calculated value subtracting the tax and crude cif price from the price of composite barrel. Consumption weights for are estimated. Totals may not add up due to independent rounding.



Section 6

Major oil companies



Table 6.1

Majors oil companies

Principal operations of the major oil companies (1,000 b/d)

	2007	2008	2009	2010	2011
BP					
Crude oil & NGL reserves ¹	5,492	5,665	5,658	5,559	5,153
Natural gas reserves ²	41,130	40,005	40,388	37,809	36,381
Crude oil produced	2,414	2,401	2,535	2,374	2,157
Crude oil processed	2,127	2,155	2,287	2,426	2,352
Refined products sold	5,624	5,698	5,887	5,927	5,776
Natural gas sold ³	8,143	8,334	8,485	8,401	7,518
ExxonMobil					
Crude oil & NGL reserves ¹	11,074	12,006	11,651	11,673	12,228
Natural gas reserves ²	68,262	65,879	68,007	78,815	76,222
Crude oil produced	2,616	2,405	2,387	2,422	2,312
Crude oil processed	5,571	5,416	5,350	5,253	5,214
Refined products sold	7,099	6,761	6,428	6,414	6,413
Natural gas sold ³	9,384	9,095	9,273	12,148	13,162
Total					
Crude oil & NGL reserves ¹	5,778	5,695	5,689	5,987	5,784
Natural gas reserves ²	25,730	26,218	26,318	25,788	30,717
Crude oil produced	1,509	1,456	1,381	1,340	1,226
Crude oil processed	2,413	2,362	2,151	2,009	1,863
Refined products sold	3,774	3,658	3,616	3,776	3,639
Natural gas sold ³	4,839	4,837	4,923	5,648	6,098
Royal Dutch/Shell					
Crude oil & NGL reserves ¹	2,751	2,620	4,693	5,179	5,098
Natural gas reserves ²	22,825	25,927	29,961	28,983	30,286
Crude oil produced	1,818	1,693	1,581	1,619	1,536
Crude oil processed	3,779	3,388	3,067	3,197	2,845
Refined products sold	6,625	6,568	6,156	6,460	6,196
Natural gas sold ³	8,214	8,569	8,483	9,305	8,986
Chevron					
Crude oil & NGL reserves ¹	4,665	4,735	4,610	4,270	4,295
Natural gas reserves ²	19,137	19,022	22,153	20,755	25,229
Crude oil produced	1,756	1,649	1,846	1,923	1,849
Crude oil processed	1,833	1,858	1,878	1,894	1,787
Refined products sold	3,484	3,429	3,254	3,113	2,949
Natural gas sold ³	11,416	11,441	9,963	10,425	10,197
Total majors					
Crude oil & NGL reserves ¹	29,760	30,721	32,301	32,668	32,558
Natural gas reserves ²	177,084	177,051	186,827	192,150	198,835
Crude oil produced	10,113	9,604	9,730	9,678	9,080
Crude oil processed	15,723	15,179	14,733	14,779	14,061
Refined products sold	26,606	26,114	25,341	25,690	24,973
Natural gas sold ³	41,996	42,276	41,127	45,927	45,961

Notes:

1. Million barrels, as at year-end.
2. Billion cubic feet, as at year-end.
3. Million cubic feet/day.

Table 6.2
Majors oil companies

Revenues, operating costs, deductions, taxation and net income of the major oil companies (m \$)

	2007	2008	2009	2010	2011
BP					
Revenues ¹	291,438	367,053	246,138	308,928	386,463
Cost of sales ²	262,626	328,843	223,818	315,343	349,826
Income tax (benefit)	10,442	12,617	8,365	-1,501	12,737
Special deductions	na	na	na	na	na
Net income (loss)	18,370	25,593	13,955	-4,914	23,900
ExxonMobil					
Revenues ³	404,552	477,359	310,586	383,221	486,429
Cost of sales ⁴	334,078	395,609	276,187	331,200	414,318
Income tax (benefit)	29,864	36,530	15,119	21,561	31,051
Special deductions	na	na	na	na	na
Net income (loss)	40,610	45,220	19,280	30,460	41,060
Total					
Revenues ³	217,554	264,709	183,175	211,143	257,093
Cost of sales ⁴	180,888	228,327	160,582	183,570	220,415
Income tax (benefit)	18,603	20,806	10,811	13,559	19,590
Special deductions	na	na	na	na	na
Net income (loss)	18,063	15,576	11,782	14,014	17,088
Royal Dutch/Shell					
Revenues ³	355,782	458,361	278,188	368,056	470,171
Cost of sales ⁴	305,801	407,740	257,368	333,059	414,778
Income tax (benefit)	18,650	24,344	8,302	14,870	24,475
Special deductions	na	na	na	na	na
Net income (loss)	31,331	26,277	12,518	20,127	30,918
Chevron					
Revenues ³	220,904	273,005	171,636	204,928	253,706
Cost of sales ⁴	188,630	229,948	153,108	172,873	206,072
Income tax (benefit)	13,479	19,026	7,965	12,919	20,626
Special deductions	107	100	80	112	113
Net income (loss)	18,688	23,931	10,483	19,024	26,895
Total majors					
Revenues ³	1,490,230	1,840,487	1,189,723	1,476,276	1,853,862
Cost of sales ⁴	1,272,023	1,590,467	1,071,063	1,336,045	1,605,409
Income tax (benefit)	91,038	113,323	50,562	61,408	108,479
Special deductions	107	100	80	112	113
Net income (loss)	127,062	136,597	68,018	78,711	139,861

Notes:

1. Includes earnings from equity interest and stockholding gain or loss.
2. Includes sales and excise taxes and interest expenses.
3. Includes dividend from related and non-consolidated companies.
4. Includes sales and excise taxes.

Table 6.3

Majors oil companies

Costs, deductions, taxation and net income as percentage of revenues of the major oil companies

	2007	2008	2009	2010	2011
BP					
Revenues	100.0	100.0	100.0	100.0	100
Cost of sales	90.1	89.6	90.9	102.1	90.5
Income tax (benefit)	3.6	3.4	3.4	-0.5	3.3
Special deductions	na	na	na	na	na
Net income (loss)	6.3	7.0	5.7	-1.6	6.2
ExxonMobil					
Revenues	100.0	100.0	100.0	100.0	100.0
Cost of sales	82.6	82.9	88.9	86.4	85.2
Income tax (benefit)	7.4	7.7	4.9	5.6	6.4
Special deductions	na	na	na	na	na
Net income (loss)	10.0	9.5	6.2	7.9	8.4
Total					
Revenues	100.0	100.0	100.0	100.0	100.0
Cost of sales	83.1	86.3	87.7	86.9	85.7
Income tax (benefit)	8.6	7.9	5.9	6.4	7.6
Special deductions	na	na	na	na	na
Net income (loss)	8.3	5.9	6.4	6.6	6.6
Royal Dutch/Shell					
Revenues	100.0	100.0	100.0	100.0	100.0
Cost of sales	86.0	89.0	92.5	90.5	88.2
Income tax (benefit)	5.2	5.3	3.0	4.0	5.2
Special deductions	na	na	na	na	na
Net income (loss)	8.8	5.7	4.5	5.5	6.6
Chevron					
Revenues	100.0	100.0	100.0	100.0	100
Cost of sales	85.4	84.2	89.2	84.4	81.2
Income tax (benefit)	6.1	7.0	4.6	6.3	8.1
Special deductions	0.1	-	0.1	0.1	0.1
Net income (loss)	8.5	8.8	6.1	9.3	10.6
Total majors					
Revenues	100.0	100.0	100.0	100.0	100
Cost of sales	85.4	86.4	90.0	90.5	86.6
Income tax (benefit)	6.1	6.2	4.2	4.2	5.9
Special deductions	-	-	-	-	-
Net income (loss)	8.5	7.4	5.7	5.3	7.5

Capital and exploratory expenditure of the major oil companies (m \$)

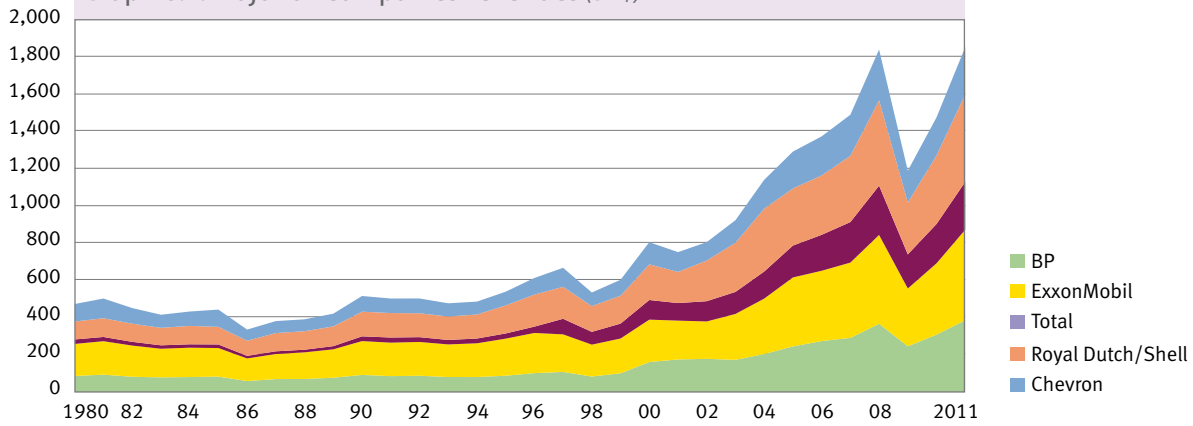
	2007	2008	2009	2010	2011
BP	20,641	30,700	20,309	23,016	31,518
Upstream	14,207	22,227	14,896	17,753	25,535
Downstream	5,495	6,634	4,114	4,029	4,130
Other business and corporate	939	1,839	1,299	1,234	1,853
ExxonMobil	20,853	26,143	27,092	32,226	36,766
Upstream	15,724	19,734	20,704	27,319	33,091
Downstream	5,085	6,348	6,344	4,720	3,570
Other business and corporate	44	61	44	187	105
Total	16,064	20,062	18,619	21,573	34,161
Upstream	12,172	14,733	13,746	17,510	30,191
Downstream	3,818	5,136	4,745	3,956	3,782
Other business and corporate	74	193	128	107	188
Royal Dutch/Shell	24,576	35,065	26,516	26,940	26,301
Upstream	19,217	28,947	20,264	22,323	20,681
Downstream	4,945	5,877	5,979	4,523	5,479
Other business and corporate	414	241	273	94	141
Chevron	20,026	22,775	22,237	21,755	29,066
Upstream	15,900	18,361	18,296	18,904	25,872
Downstream	3,352	3,789	3,536	2,552	2,611
Other business and corporate	774	625	405	299	583
Total majors	102,160	134,745	114,773	125,510	157,812
Upstream	77,220	104,002	87,906	103,809	135,370
Downstream	22,695	27,784	24,718	19,780	19,572
Other business and corporate	2,245	2,959	2,149	1,921	2,870

Notes:

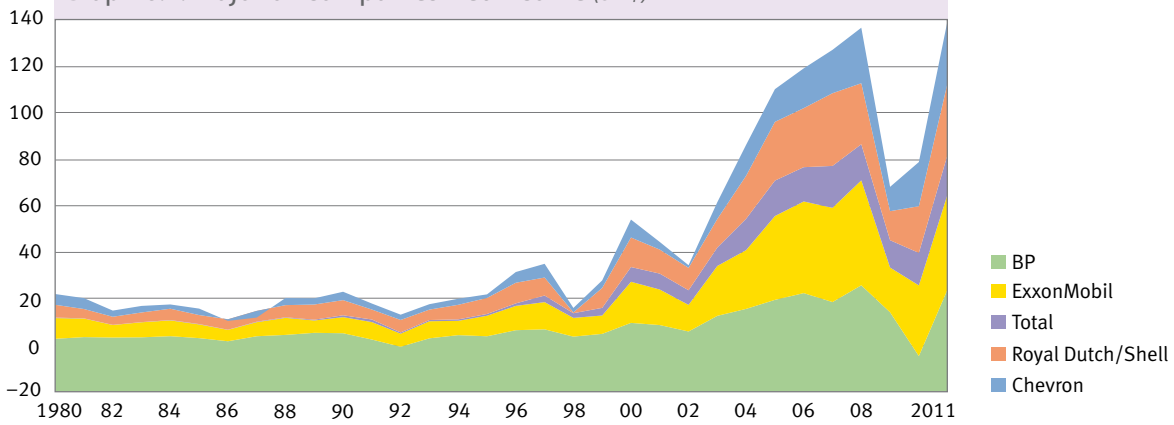
Upstream: Exploration and production.

Downstream: Refining, marketing, transportation, chemicals and other.

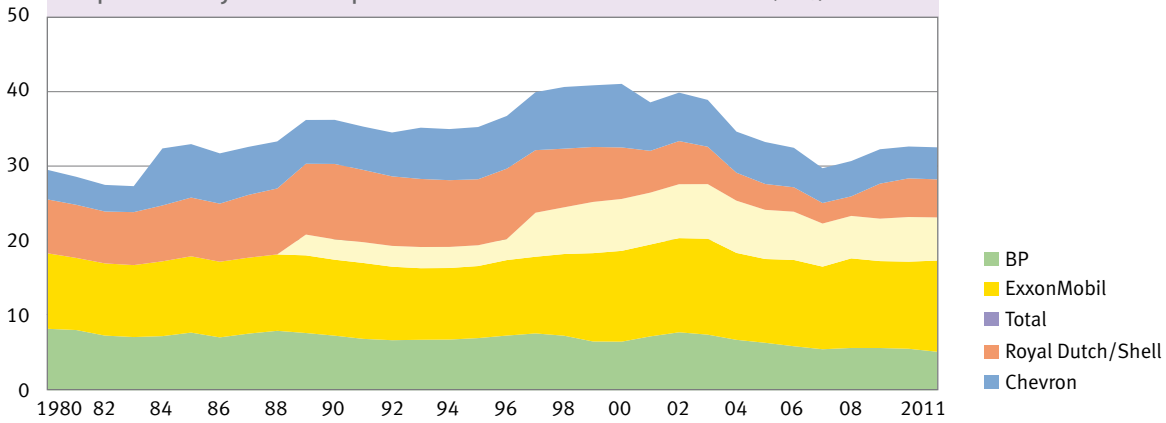
Graph 6.1: Major oil companies' revenues (bn \$)



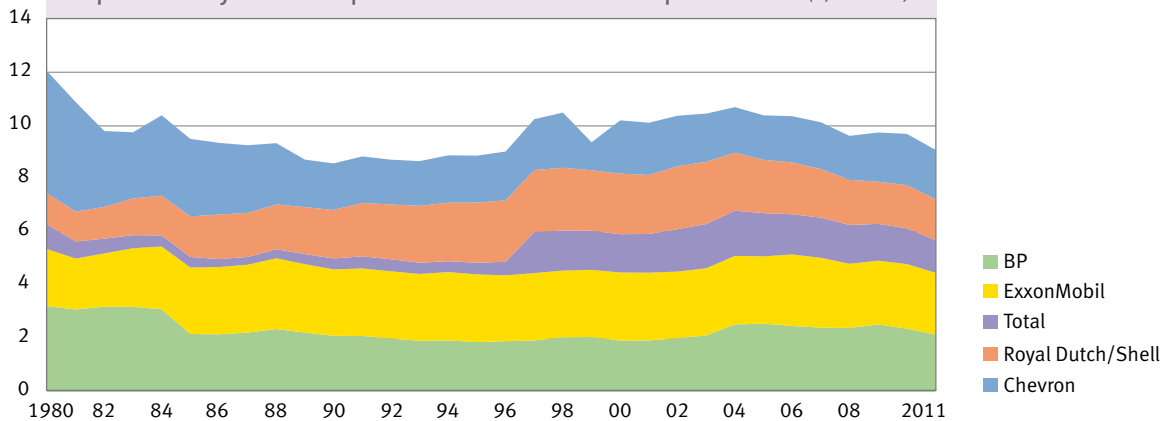
Graph 6.2: Major oil companies' net income (bn \$)



Graph 6.3: Major oil companies' crude oil and NGL reserves (bn \$)



Graph 6.4: Major oil companies' crude oil and NGL production (1,000 b/d)



General notes

Definitions

Proven crude oil reserves: the estimated quantities of all liquids statistically defined as crude oil. They consist of those quantities of crude oil which by analysis of geoscience and engineering data can be estimated with reasonable certainty to be commercially recoverable, from a given date forward, from known reservoirs and under defined economic conditions, operating methods and government regulations (*source: SPE — Petroleum Resources Management System*).

Proven natural gas reserves: are the estimated quantities of all hydrocarbons statistically defined as natural gas. They consist of those quantities of natural gas (associated and non-associated) which by analysis of geoscience and engineering data can be estimated with reasonable certainty to be commercially recoverable, from a given date forward, from known reservoirs and under defined economic conditions, operation methods and government regulations (*source: SPE — Petroleum Resources Management System*).

Rig: a derrick complete with engine-house and other equipment necessary for drilling oil and gas wells.

Well (exploratory and development): a hole drilled for the purpose of finding or producing crude oil or natural gas, or providing services related to the production of crude oil and natural gas.

Oil or gas well: a well completed for the production of oil or gas from one or more zones or reservoirs.

Completion: the installation of permanent equipment for the production of oil or gas.

Dry hole: a well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Crude oil: a mixture of hydrocarbons that exist in a liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. For statistical purposes, volumes reported as crude oil include:

- liquids technically defined as crude oil;
- small amounts of hydrocarbons that exist in the gaseous phase in natural underground reservoirs, but which are liquid at atmospheric pressure after being recovered from oil well (casing head) gas in lease separators;
- small amounts of non-hydrocarbons produced with the oil;
- very heavy and extra-heavy crude oils with viscosity less than 10,000 mPa.s (centipoises) at original reservoir conditions.

Natural gas liquids (NGLs): those reservoir gases liquefied at the surface in lease separators, field facilities or gas processing plants. NGLs consist of field condensates and natural gas plant products such as ethane, pentane, propane, butane and natural gasoline.

Natural gas: a mixture of hydrocarbon compounds and small quantities of various non-hydrocarbons existing in the gaseous phase or in solution with oil in natural underground reservoirs at reservoir conditions. The natural gas volumes refer to Standard Conditions of 60° F, 14.73 psia (15.6° C, 760 mm/Hg).

Gross production: the total flow of natural gas from oil and gas reservoirs of associated-dissolved and non-associated gas.

Marketed production: corresponds to gross production, minus the volumes of gas flared or re-injected into fields, minus the shrinkage.

Re-injection: the total volume of natural gas produced from oil and gas completions, processed through gas-processing plants and field facilities, and used for gas lift, gas injection and cycling operations.

Shrinkage: volume shrinkage due to purification and/or extraction of natural gas liquids, gas used as input to GTL plants, lease separators and plant own consumption and any other losses caused by spillage, evaporation, etc.

Refinery capacity (operable): the maximum amount of input to crude oil distillation units that can be processed in an average 24-hour period.

Barrels per calendar day (b/cd): the total number of barrels processed in a refinery within a year, divided by 365 days, thus reflecting all operational limitations.

Barrels per stream day (b/sd): the number of barrels of input that a refining facility can process within 24 hours, operating at full capacity under optimal crude and product slate conditions.

Petroleum products: products obtained from the processing of crude oil, unfinished oils, NGLs and other hydrocarbon compounds. These include aviation gasoline, motor gasoline, naphtha, kerosene, jet fuel, distillate fuel oil, residual fuel oil, liquefied petroleum gas, lubricants, paraffin wax, petroleum coke, asphalt and other products.

Gasoline: a mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in internal combustion engines; includes gasoline used in aviation.

Kerosene: medium hydrocarbon distillates in the 150° to 280° C distillation range and used as a heating fuel as well as for certain types of internal combustion engines; includes jet fuel, which is a fuel of naphtha or of kerosene type, suitable for commercial or military purposes in aircraft turbine engines.

Distillates: middle distillate type of hydrocarbons; includes products similar to number one and number two heating oils and diesel fuels. These products are used for space heating, diesel engine fuel and electrical power generation.

Residual fuel oil: fuels obtained as liquid still bottoms from the distillation of crude used alone or in blends with heavy liquids from other refinery process operations. These are used for the generation of electric power, space heating, vessel bunkering and various industrial purposes.

Output of petroleum products: the total amount of petroleum products produced from refinery input in a given period, excluding refinery fuels.

Oil consumption: inland delivery, including refinery fuels and losses, as well as products from gas plants; including international air and marine bunkers as well as direct crude burning.

Exports of Petroleum products: includes products from gas plants and excludes bunkers.

OPEC Basket: the OPEC Reference Basket (ORB) price was introduced on January 1, 1987. Up to June 15, 2005, it was the arithmetic average of seven selected crudes. These were: Saharan Blend (Algeria); Minas (Indonesia); Bonny Light (Nigeria); Arab Light (Saudi Arabia); Dubai (United Arab Emirates); Tia Juana Light (Venezuela); and Isthmus (Mexico). Mexico is not a Member of OPEC. As of June 16, 2005, the ORB is calculated as a production-weighted average of the OPEC Basket of crudes. These are: Saharan Blend (Algeria); Girassol (Angola — as of January 2007); Oriente (Ecuador — as of October 19, 2007); Iran Heavy (IR Iran); Basrah Light (Iraq); Kuwait Export (Kuwait); Ess Sider (Libya); Bonny Light (Nigeria); Qatar Marine (Qatar); Arab Light (Saudi Arabia); Murban (United Arab Emirates); and Meray (Venezuela).

Posted price: announced price reflecting the market development of crude oil and products.

Composite barrel: a consumption weighted average of retail prices (including taxes) of the main groups of refined petroleum products.

Geneva I agreement: agreement of January 1972 between some OPEC Member Countries and the major international oil companies, which had the effect of establishing an index for quarterly adjustments of posted crude oil prices on the basis of the arithmetic average of the deviations of the exchange rates of nine major currencies against the US dollar. This was modified to an import-weighted index in 1978, accounting for exchange rates and inflation rate. The present 'modified Geneva I + US dollar' currency basket includes the US dollar, the Euro, the Japanese yen, the UK pound and the Swiss franc.

Country groupings

(OPEC Member Countries are shown in bold)

North America: Canada, Greenland, St Pierre and Miquelon, United States.

Latin America: Antigua, Argentina, Bahamas, Barbados, Belize, Bermuda, Bolivia, Brazil, British Virgin Islands, Cayman Islands, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, **Ecuador**, El Salvador, Falkland Islands (Malvinas), French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Netherlands Antilles, Nicaragua, Panama (including Panama Canal Zone), Paraguay, Peru, Puerto Rico, St Kitts–Nevis–Anguilla, St Lucia, St Vincent, Suriname, Trinidad & Tobago, Turks and Caicos Islands, United States Virgin Islands, Uruguay and **Venezuela**.

Eastern Europe and Eurasia: Albania, Armenia, Azerbaijan, Belarus, Bulgaria, Czech Republic, Estonia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Poland, Romania, Russia, Slovakia, Tajikistan, Turkmenistan, Ukraine and Uzbekistan.

Western Europe: Austria, Belgium (including Luxembourg), Cyprus, Denmark (including Faroe Islands), Finland, France (including Andorra and Monaco), Germany, Gibraltar, Greece, Iceland, Ireland, Italy (including San Marino and the Holy See), Malta, Netherlands, Norway (including Svalbard and Jan Mayen Islands), Portugal, Spain (including Canary Islands), Sweden, Switzerland (including Liechtenstein), Turkey, United Kingdom, Bosnia and Herzegovina, Croatia, Macedonia, Serbia and Montenegro and Slovenia.

Middle East: Bahrain, **Islamic Republic of Iran**, **Iraq**, Jordan, **Kuwait**, Lebanon, Oman, **Qatar**, **Saudi Arabia**, Syrian Arab Republic, **United Arab Emirates** (Abu Dhabi, Ajman, Dubai, Fujairah, Ras al-Khaimah, Sharjah, Umm al-Qaiwain), Yemen and other Middle East.

Africa: **Algeria**, **Angola**, Benin, Botswana, British Indian Ocean Territory, Burkina Faso, Burundi, Cameroon (United Republic of), Cape Verde, Central African Republic, Chad, Comoros, Congo (Republic of the), Congo (Democratic Republic of the), Djibouti, Egypt, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia (The), Ghana, Guinea, Guinea–Bissau, Côte d'Ivoire, Kenya, Lesotho, Liberia, **Libya**, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, **Nigeria**, Reunion, Rwanda, St Helena, São Tomé and Príncipe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudans (including South Sudan and Sudan), Swaziland, Tanzania, Togo, Tunisia, Uganda, Western Sahara, Zambia and Zimbabwe.

Asia and Pacific: Afghanistan, American Samoa, Antarctica, Australia, Bangladesh, Bhutan, Brunei, Cambodia, Canton and Enderbury Islands, China and Hong Kong, Chinese Taipei, Christmas Island, Cocos (Keeling) Islands, Cook Islands, Fiji, French Polynesia, Guam, India, Indonesia, Japan, Johnston Island, Kiribati, Korea (Democratic People's Republic of), Korea (Republic of), Lao People's Democratic

Republic, Macau, Malaysia, Maldives, Midway Islands, Mongolia, Myanmar, Nauru, Nepal, New Caledonia, New Zealand, Niue, Norfolk Island, Pacific Islands (Trust Territory), Pakistan, Papua New Guinea, Philippines, Pitcairn Island, Samoa, Singapore, Solomon Islands, Sri Lanka, Thailand, Tokelau, Tonga, Tuvalu, Vanuatu, Vietnam, Wake Island, Wallis and Futuna Islands.

Economic organizations

Organization of the Petroleum Exporting Countries (OPEC) — Members: Algeria (1969), Angola (2007), Ecuador (rejoined 2007), the Islamic Republic of Iran (1960), Iraq (1960), Kuwait (1960), Libya (1962), Nigeria (1971), Qatar (1961), Saudi Arabia (1960), United Arab Emirates (1967) and Venezuela (1960).

Organization for Economic Co-operation and Development (OECD) — Members: Australia, Austria, Belgium, Canada, Chile, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Korea, Luxemburg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom, USA and other OECD.

Former Soviet Union (FSU): Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine and Uzbekistan.

Abbreviations

Symbols:

na Not available
– Nil or negligible

Currencies:

\$	US dollar	IR	Iranian rial	QRL	Qatari riyal
€	Euro	ID	Iraqi dinar	SRL	Saudi Arabian riyal
AD	Algerian dinar	KD	Kuwaiti dinar	AED	UAE dirham
AON	Angolan New Kwanza	LD	Libyan dinar	B	Venezuelan bolivar fuerte
US\$	Ecuador	N	Nigerian naira		

Miscellaneous:

b	barrel(s)	cu m	cubic metres	LPG	liquefied petroleum gas
b/d	barrels per day	dwt	deadweight tonnage	m b	million barrels
b/cd	barrels per calendar day	fob	free on board	LNG	liquefied natural gas
b/sd	barrels per stream day	ft	feet	NOC	national oil company
bn b	billion barrels	GDP	gross domestic product	t	tonne
cif	cost, insurance and freight	LNG	liquefied natural gas		

Oil companies

ADCO	Abu Dhabi Company for Onshore Oil Operations
ADMA	Abu Dhabi Marine Areas
ADMA–OPCO	Abu Dhabi Marine Operating Company
ADNOC	Abu Dhabi National Oil Company
ADOC	Abu Dhabi Oil Company
Agip	Agip SpA
Agoco	Arabian Gulf Oil Company (Libya)
Amerada Hess	Amerada Hess Corporation
AOC	Arabian Oil Company
Aquitaine	Societe Nationale des Petroles d'Aquitaine
Aramco	Saudi Arabian Oil Company (Saudi Aramco)
Arco	Atlantic Richfield Company
Asamera	Asamera Oil
Ashland	Ashland Oil
BP	BP plc
Braspetro	Petrobras Internacional SA
Brega Marketing	Brega Petroleum Marketing Company
Buttes	Buttes Gas & Oil Company
Calasiatic	Calasiatic Petroleum Company

PT Caltex	PT Caltex Pacific Indonesia
ChevronTexaco	ChevronTexaco Corporation
Conoco	Continental Oil Company
Corpoven	Corpoven SA
DPC	Dubai Petroleum Company
EGPC	Egyptian General Petroleum Corporation
ExxonMobil	ExxonMobil Corporation
GASCO	Abu Dhabi Onshore Gas Company
Getty	Getty Oil Corporation
Gulf	Gulf Oil Corporation
Hispanoil	Hispanica de Petroleos SA
INOC	Iraq National Oil Company
Inpex	Indonesia Petroleum Ltd
JORC	Jeddah Oil Refinery Company
KRPC	Kaduna Refinery & Petrochemical Company
KNPC	Kuwait National Petroleum Company KSC
KOC	Kuwait Oil Company KSC
Lagoven	Lagoven SA
Maraven	Maraven SA
Maxus	Maxus Energy Corporation
Mobil	Mobil Oil Corporation
NIGC	National Iranian Gas Company
NIOC	National Iranian Oil Company
NNPC	Nigerian National Petroleum Corporation
NOC	National Oil Corporation (Libya)
NODCO	National Oil Distribution Company (Qatar)
NPHR	New Port Harcourt Refinery
Oasis	Oasis Oil Company of the Libya, Inc
Occidental	Occidental Petroleum Corporation
OMV	OMV Aktiengesellschaft
PDVSA	Petroleos de Venezuela SA
Pertamina	Perusahaan Pertambangan Minyak Dan Gas Bumi Negara
Petroecuador	National oil company of Ecuador
Petroindustrial	Refinery operations company of Ecuador
Petromer Trend	Petromer Trend Corporation
Petromin	General Petroleum and Mineral Organization of Saudi Arabia
Petroproduccion	Exploration and production oil company of Ecuador
Phillips	Phillips Petroleum Company
PPMC	Pipeline and Products Marketing Company (Nigeria)
QGPC	Qatar General Petroleum Corporation (now Qatar Petroleum)
Royal Dutch/Shell	Royal Dutch Petroleum Company, The Netherlands, and Shell Transport and Trading Co, UK
Sonangol	Sociedade Nacional de Combustíveis de Angola
Sonatrach	Entreprise Nationale Sonatrach
Stancal	Standard Oil Company of California
PT Stanvac	PT Stanvac Indonesia
Tenneco	Tenneco Incorporated
Tesoro	Tesoro Indonesia Petroleum Corporation
Topco	Texas Overseas Petroleum Company
Total	Total
Union Oil	Union Oil Company of California
VOO	Veba Oil Operations (Libya)
Waha Oil	Waha Oil Company (Libya)
Wintershall	Wintershall AG
WRPC	Warri Refinery & Petrochemical Company
Zadco	Zakum Development Company
ZOC	Zueitina Oil Company (Libya)

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Conversion factors

Crude oil

Standard factors	Metric tonne	Long ton	Barrels	Cubic metres (kilolitres)
Metric tonne	1	0.984	7.33	1.165
Long ton	1.016	1	7.45	1.128
Barrels	0.136	0.134	1	0.159
Cubic metres (kilolitres)	0.858	0.887	6.289	1

By country (b/tonne)

Algeria	7.9448
Angola	7.2730
Ecuador	6.8800
IR Iran	7.2840
Iraq	7.6490
Kuwait	7.2580
Libya	7.5964
Nigeria	7.3995
Qatar	7.4408
Saudi Arabia	7.4029
United Arab Emirates	7.5876
Venezuela	6.6850
OPEC	7.3580

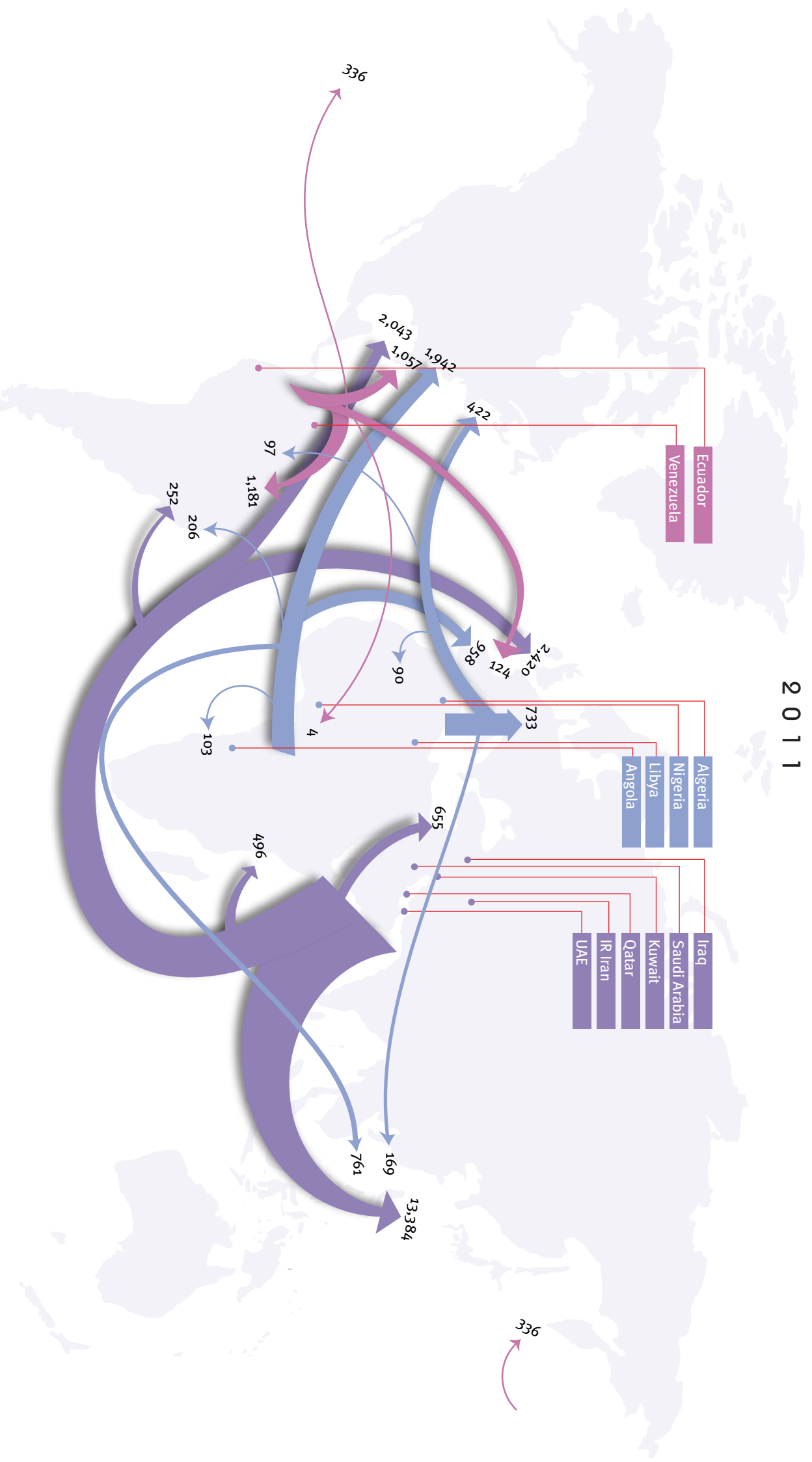
Petroleum products (b/tonne)

Gasoline	8.4998
Kerosene	7.7652
Distillates	7.2296
Residuals	6.6208

Major OPEC flows of crude and refined oil

(1,000 b/d)

2 0 1 1



Note: Totals may not add up due to independent rounding.

-  OPEC Africa
-  OPEC Latin America
-  OPEC Middle East



OPEC

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