

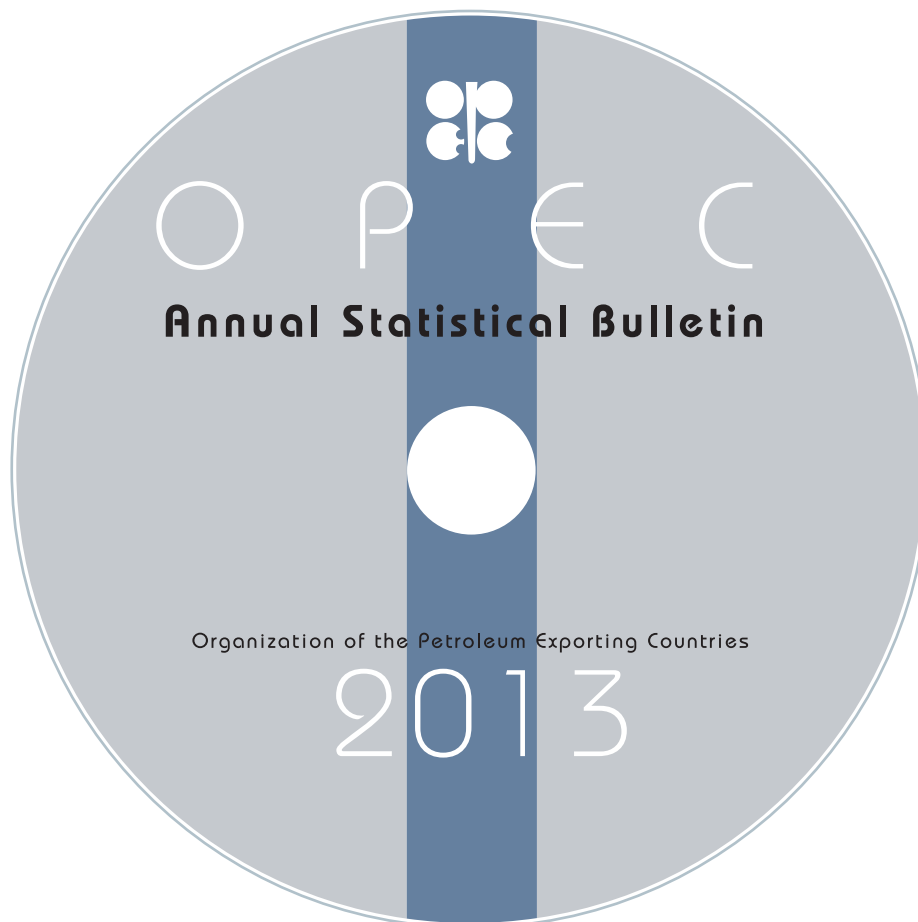
**2013**

**OPEC**

# Annual Statistical Bulletin



Organization of the Petroleum Exporting Countries



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**Questions on data**

Although comments are welcome, OPEC regrets that it is unable to answer all enquiries concerning the data in the ASB.  
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*HE Abdalla Salem El-Badri, OPEC Secretary General*

This is the 48th edition of the Annual Statistical Bulletin (ASB), one of OPEC's principal publications and an increasingly important source of data for the oil industry.

The aim of the ASB is to make available reliable and timely historical data on the global oil and gas industry. Since the first edition was published in 1965, the ASB has become a useful and frequently cited reference tool for those working in the energy industry.

OPEC's 12 Member Countries — namely Algeria, Angola, Ecuador, the Islamic Republic of Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates and Venezuela — are the central focus of the ASB. However, as in previous editions, the ASB also provides information and statistical data about non-OPEC oil producing countries, bringing together data on exports, imports, pipelines and shipping, as well as the petroleum industry in general.

For the past five decades, in addition to its primary work to ensure stability in the world's oil markets, OPEC has made many efforts to gather data about different aspects of the oil industry. It has collected statistical information about exploration and production, as well as transportation and refining, and has made this available to other energy stakeholders. The publication of the ASB every year illustrates the Organization's ongoing commitment to transparency and data-sharing as key elements of oil market stability.

In addition to the print edition, which includes a CD-ROM version inside the front cover, the 2013 ASB is available in two other formats: an electronic PDF file and an interactive electronic version (both available on the OPEC Website).

The OPEC Secretariat works very closely with our Member Countries. It is this close collaboration that has made the publication of this year's ASB possible. I would, therefore, like to extend my appreciation to the many people in our Member Countries and at the Secretariat for their valuable input and for once again, through this publication, ensuring 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
<b>OPEC</b>	<b>16,050</b>	<b>16,050</b>	<b>14,674</b>	<b>14,674</b>			<b>14,515</b>	<b>15,251</b>		<b>17,094</b>	<b>18,018</b>
<b>OPEC excl Iraq</b>					<b>13,608</b>	<b>13,686</b>			<b>13,711</b>		

	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
<b>OPEC</b>	<b>18,942</b>	<b>20,515</b>	<b>20,920</b>	<b>20,570*</b>	<b>23,650*</b>	<b>21,335</b>	<b>24,200*</b>	<b>22,915</b>	<b>21,984</b>	<b>22,903</b>	<b>23,703</b>

**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.

\* Includes Indonesia and Gabon.

na No distribution made.

\*\* Includes Indonesia.

# OPEC excluding Kuwait and Iraq.

## OPEC excluding IR Iran and Iraq.

**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.

**Table 1.1**  
Summary

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
<b>OPEC</b>	<b>26,044</b>									
<b>OPEC excl Iraq</b>		<b>1,175</b>	<b>23,107</b>	<b>21,789</b>	<b>19,789##</b>	<b>24,083</b>	<b>24,841</b>	<b>25,315</b>	<b>23,894</b>	<b>22,946</b>
<b>Target</b>		<b>24,432</b>								

	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
<b>OPEC excl Iraq</b>	<b>21,998</b>	<b>20,575</b>	<b>21,809</b>	<b>23,230</b>	<b>24,083</b>	<b>23,230</b>	<b>22,282</b>	<b>24,178</b>	<b>24,653</b>	<b>25,601</b>

- 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
<b>OPEC excl Iraq</b>	<b>26,075</b>	<b>26,549</b>								
<b>OPEC excl Angola, Ecuador and Iraq</b>			<b>1,161</b>	<b>484</b>	<b>500**</b>			<b>1,500</b>		
<b>Target OPEC excl Angola, Ecuador and Iraq</b>			<b>26,300**</b>	<b>25,800**</b>	<b>27,253**</b>					
<b>Target OPEC excl Iraq</b>						<b>29,673**</b>	<b>28,808</b>	<b>27,308</b>	<b>24,845</b>	
<b>Target OPEC</b>										<b>30,000</b>

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, 2012

	Algeria	Angola	Ecuador	IR Iran	Iraq	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia	UAE	Venezuela	OPEC
Population million inhabitants	37.80	18.58	15.50	76.52	34.21	3.82	6.41	167.68	1.77	29.20	8.39	29.52	429.40
Land area 1,000 sq km	2,382	1,248	284	1,648	438	18	1,760	924	12	2,150	84	916	11,862
GDP per capita dollars	5,204	6,391	4,621	7,173	6,419	45,351	12,777	1,535	108,458	24,911	45,726	12,956	7,811
GDP at market prices billion \$	196.72	118.72	71.63	548.90	219.56	173.42	81.92	257.43	192.40	727.31	383.80	382.42	3,354.22
Value of exports billion \$	72.78	71.95	23.90	133.26	94.31	118.55	61.42	142.52	133.72	388.37	350.12	97.34	1,688.23
Value of imports billion \$	57.60	22.34	24.58	70.02	52.08	25.89	25.75	35.71	30.79	141.80	261.05	59.34	806.95
Current account balance billion \$	15.50	10.46	-0.20	26.77	20.50	78.08	23.99	23.41	62.33	164.76	66.55	11.02	503.17
Value of petroleum exports billion \$	48.27	71.95	13.73	101.47	94.03	112.93	60.19	94.64	116.21	336.12	118.08	93.57	1,261.18
Proven crude oil reserves billion barrels	12.20	9.06	8.24	157.30	140.30	101.50	48.47	37.14	25.24	265.85	97.80	297.74	1,200.83
Natural gas reserves billion cu m	4,504	275	6	33,780	3,158	1,784	1,549	5,118	25,069	8,235	6,091	5,563	95,132
Crude oil production 1,000 b/d	1,200	1,704	504	3,740	2,942	2,978	1,450	1,954	734	9,763	2,652	2,804	32,424
Natural gas marketed production billion cu m	86,454	0,760	0,517	202,431	0,646	15,515	18,118	42,571	157,050	99,330	54,308	22,726	700,426
Refinery capacity 1,000 b/cd	694	38	188	1,681	806	936	380	445	80	2,107	471	1,524	9,350
Oil demand 1,000 b/d	351	94	264	1,765	803	377	236	344	126	2,873	638	786	8,657
Crude oil exports 1,000 b/d	809	1,663	358	2,102	2,423	2,070	962	2,368	588	7,557	2,657	1,725	25,281
Exports of petroleum products 1,000 b/d	450.1	25.5	27.5	456.3	471.9	660.9	40.0	8.2	464.6	862.1	224.9	675.1	4,367.2
Natural gas exports billion cu m	54.59	-	-	9.15	-	-	6.23	28.27	128.71	-	15.61	-	242.56
Exchange rate national currency/\$	77.5	95.4	1.0	12,175.5	1,166.2	0.3	1.3	156.8	3.6	3.8	3.7	4.3	

Notes: Totals may not add up due to independent rounding. Land area figures as per official websites.





# SECTION **2**

## Macro-economics

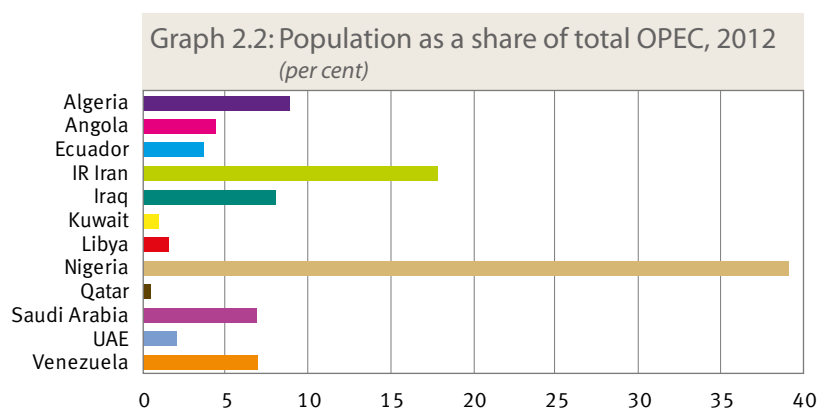
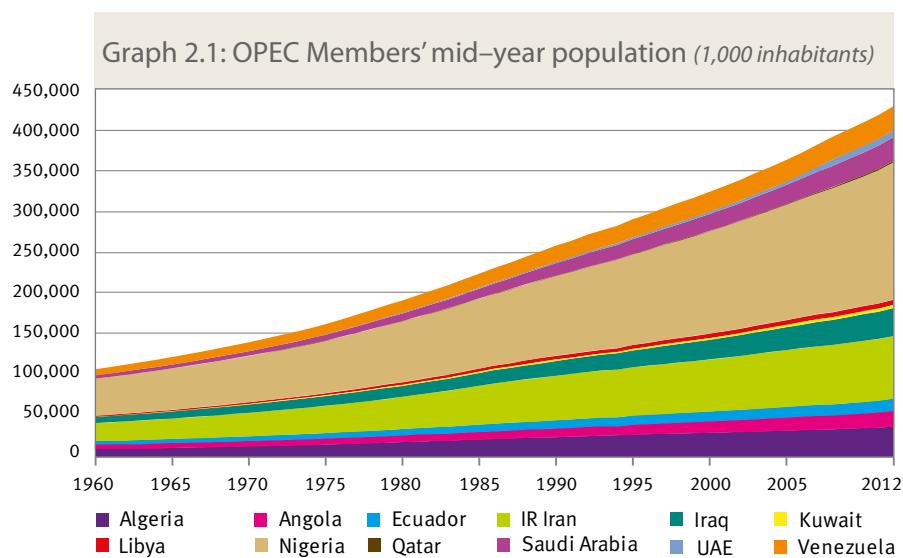
**Table 2.1**

Macro-economics

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

	2008	2009	2010	2011	2012
Algeria	34,591	35,268	35,978	36,717	37,800
Angola	16,368	16,889	17,430	17,992	18,577
Ecuador	13,805	14,005	14,307	14,483	15,500
IR Iran	72,584	73,651	74,733	75,150	76,520
Iraq	30,578	31,664	32,490	33,339	34,207
Kuwait	3,442	3,485	3,582	3,697	3,824
Libya	6,150	6,263	6,378	6,295	6,411
Nigeria	151,212	154,729	158,057	162,799	167,683
Qatar	1,447	1,639	1,715	1,733	1,774
Saudi Arabia	25,787	26,661	27,563	28,376	29,196
United Arab Emirates	8,074	8,200	8,264	8,328	8,394
Venezuela	27,732	28,181	28,629	29,072	29,517
<b>OPEC</b>	<b>391,769</b>	<b>400,634</b>	<b>409,127</b>	<b>417,982</b>	<b>429,402</b>

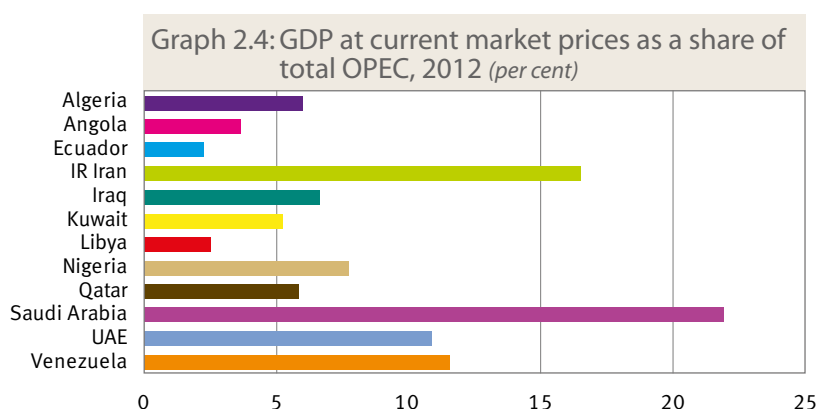
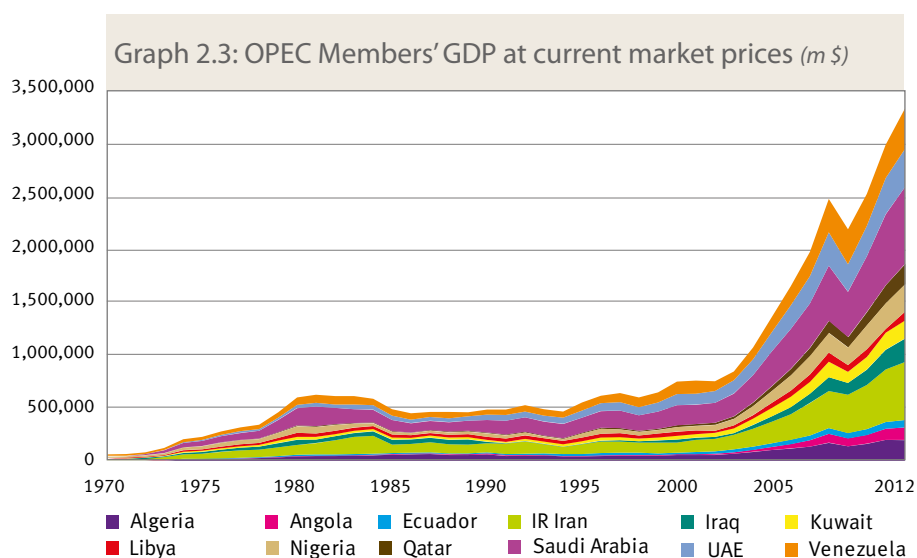
Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.



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

	2008	2009	2010	2011	2012
Algeria	171,518	137,769	161,773	198,760	196,722
Angola	84,178	75,492	82,471	104,116	118,719
Ecuador	54,686	52,022	56,998	65,945	71,625
IR Iran	350,588	360,625	419,118	495,884	548,895
Iraq	130,204	110,968	142,815	186,607	219,560
Kuwait	147,402	105,993	119,834	160,938	173,424
Libya	87,236	63,069	74,804	34,707	81,915
Nigeria	183,282	165,758	225,573	243,140	257,431
Qatar	115,270	97,798	125,122	171,476	192,402
Saudi Arabia	519,797	429,098	526,811	669,507	727,307
United Arab Emirates	315,475	254,803	287,422	348,595	383,799
Venezuela	315,953	329,788	304,487	316,482	382,424
<b>OPEC</b>	<b>2,475,589</b>	<b>2,183,184</b>	<b>2,527,228</b>	<b>2,996,157</b>	<b>3,354,224</b>

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



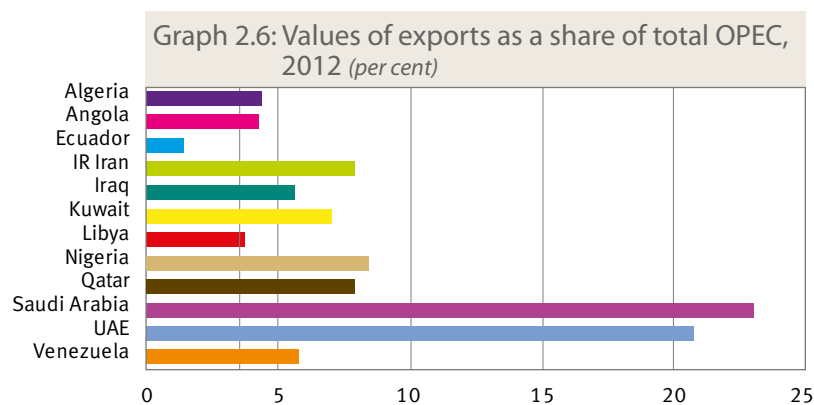
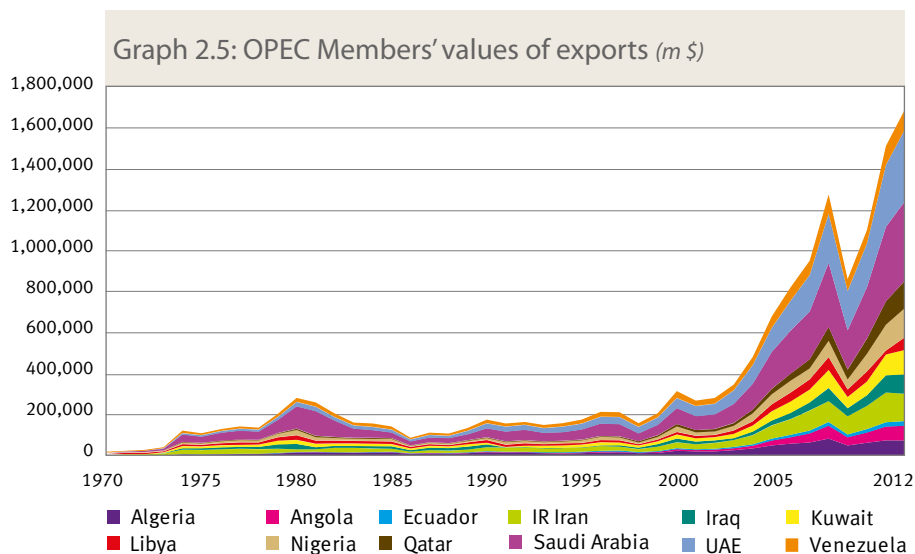
**Table 2.3**

Macro-economics

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

	2008	2009	2010	2011	2012
Algeria	82,035	48,542	61,971	73,679	72,775
Angola	63,914	40,828	50,595	67,310	71,949
Ecuador	18,818	13,863	17,490	22,322	23,899
IR Iran	101,289	88,326	112,788	144,874	133,260
Iraq	63,726	39,430	51,764	83,253	94,311
Kuwait	87,446	53,973	66,533	102,143	118,549
Libya	62,953	36,951	48,672	18,995	61,416
Nigeria	80,719	49,929	86,561	126,350	142,521
Qatar	67,307	48,007	74,810	114,299	133,717
Saudi Arabia	313,481	192,307	251,143	364,735	388,370
United Arab Emirates	239,213	191,802	213,539	302,036	350,123
Venezuela	95,021	57,603	65,745	92,602	97,340
<b>OPEC</b>	<b>1,275,923</b>	<b>861,561</b>	<b>1,101,611</b>	<b>1,512,598</b>	<b>1,688,229</b>

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

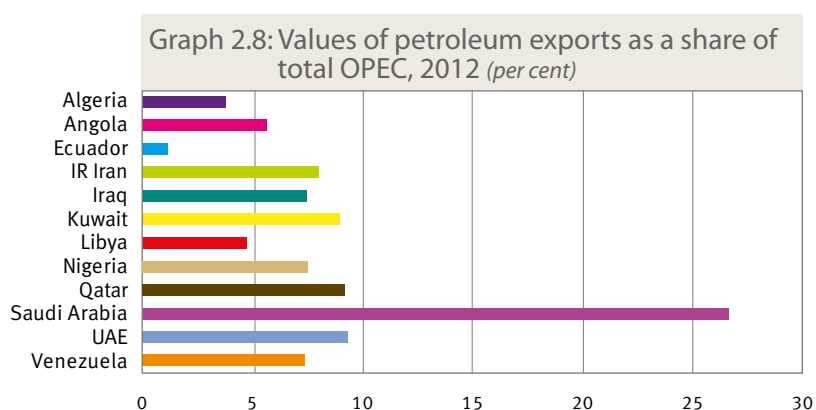
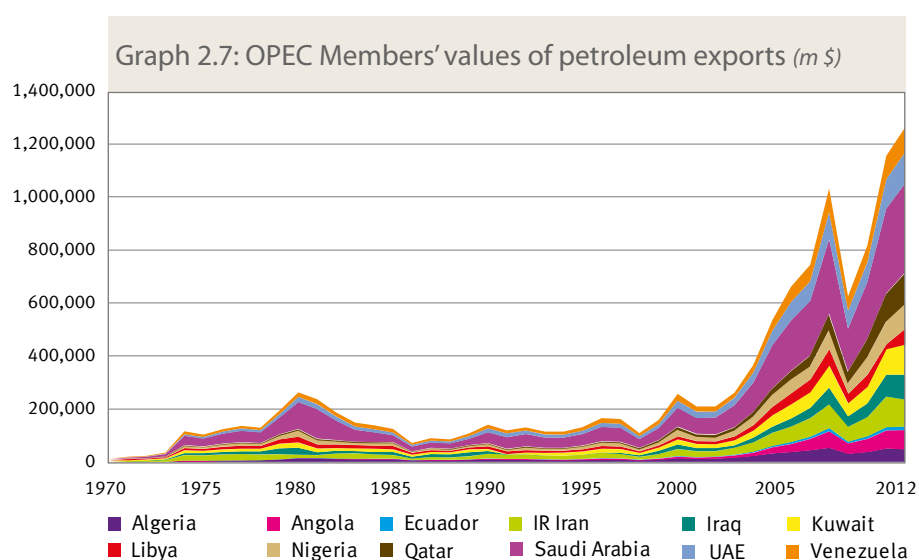




OPEC Members' values of petroleum exports (m \$)

	2008	2009	2010	2011	2012
Algeria	53,706	30,584	38,209	51,395	48,268
Angola	62,457	39,803	49,352	67,310	71,949
Ecuador	11,721	6,965	9,673	12,945	13,729
IR Iran	89,855	55,746	72,228	114,751	101,468
Iraq	63,461	39,307	51,589	83,003	94,028
Kuwait	82,672	48,914	61,754	96,724	112,933
Libya	61,495	35,600	47,245	18,615	60,188
Nigeria	73,825	42,205	66,923	87,130	94,640
Qatar	60,485	42,026	66,763	104,228	116,209
Saudi Arabia	280,998	161,613	214,897	319,123	336,124
United Arab Emirates	102,087	67,876	74,638	111,607	118,080
Venezuela	89,034	54,201	62,317	88,131	93,569
<b>OPEC</b>	<b>1,031,796</b>	<b>624,839</b>	<b>815,588</b>	<b>1,154,961</b>	<b>1,261,183</b>

**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.



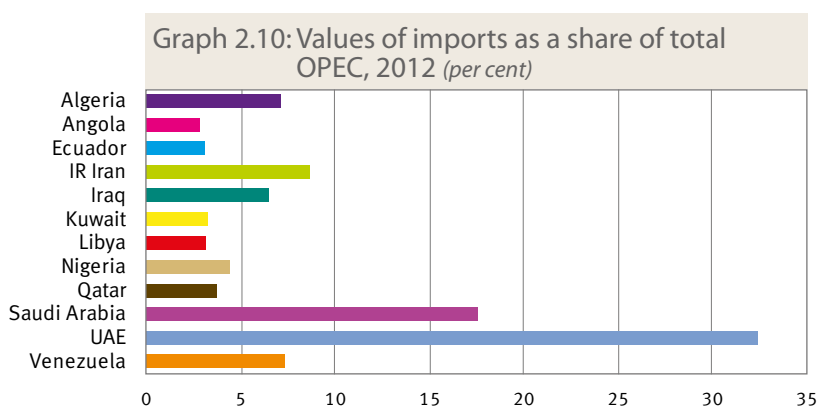
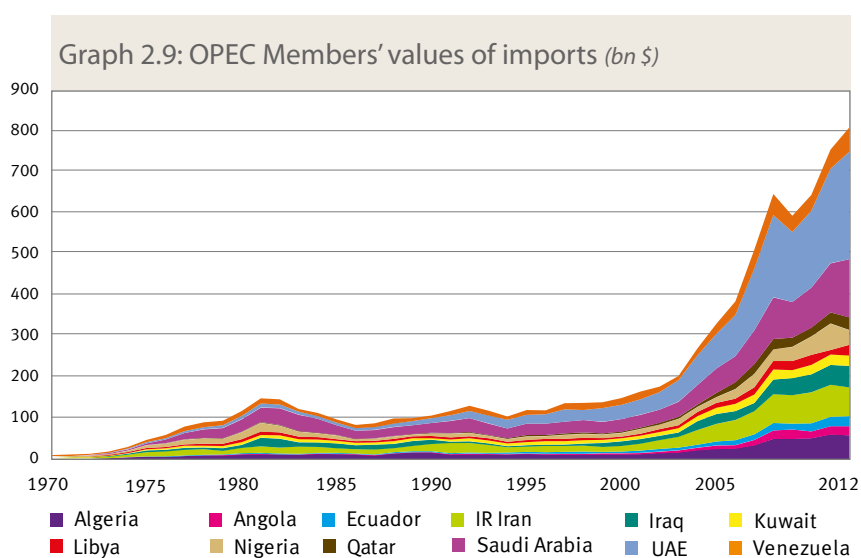
**Table 2.5**

Macro-economics

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

	2008	2009	2010	2011	2012
Algeria	49,096	49,340	50,652	59,847	57,601
Angola	20,982	22,660	16,667	20,228	22,340
Ecuador	17,912	14,268	19,641	23,243	24,585
IR Iran	70,175	69,247	75,458	77,805	70,025
Iraq	35,011	41,512	43,915	47,803	52,075
Kuwait	24,872	19,891	22,660	25,412	25,886
Libya	21,199	21,940	25,167	11,162	25,753
Nigeria	27,830	33,901	44,236	64,296	35,715
Qatar	25,135	22,452	20,937	26,926	30,787
Saudi Arabia	101,454	87,078	97,431	119,961	141,799
United Arab Emirates	200,327	170,121	187,001	229,932	261,046
Venezuela	50,971	39,646	38,613	46,441	59,339
<b>OPEC</b>	<b>644,964</b>	<b>592,057</b>	<b>642,378</b>	<b>753,055</b>	<b>806,950</b>

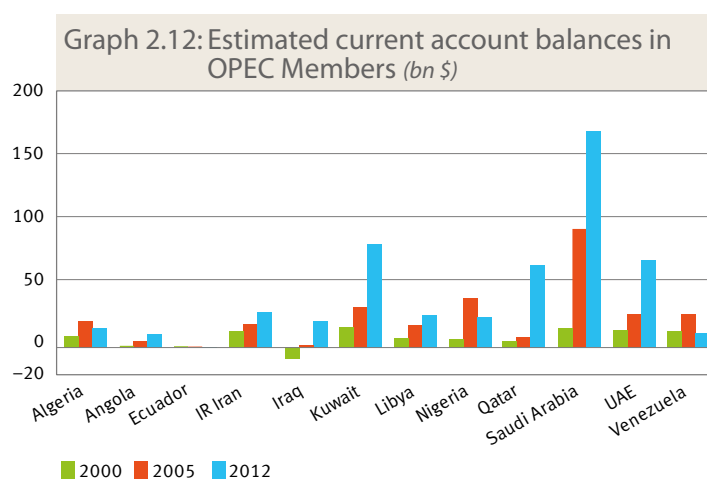
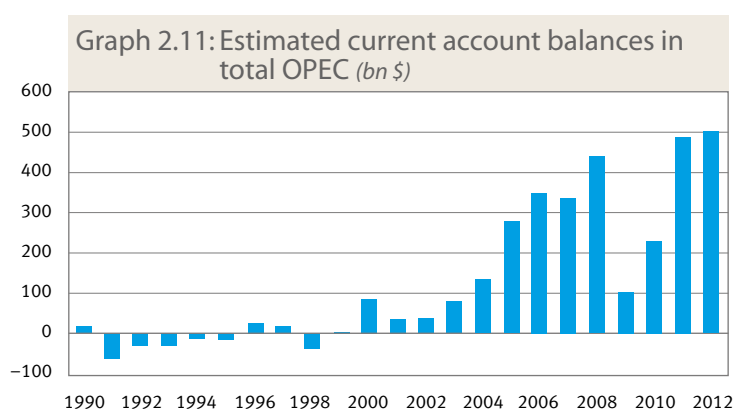
Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series. All figures cif.



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

	2008	2009	2010	2011	2012
Algeria	34,450	400	12,150	19,800	15,500
Angola	7,194	-7,572	7,506	13,085	10,456
Ecuador	1,738	204	-1,625	-242	-200
IR Iran	22,837	9,473	27,554	59,382	26,765
Iraq	32,344	-1,143	6,430	26,365	20,501
Kuwait	60,310	28,285	38,267	70,780	78,084
Libya	37,581	9,353	15,730	3,163	23,989
Nigeria	29,296	13,974	13,420	8,761	23,411
Qatar	26,595	6,389	23,797	51,978	62,335
Saudi Arabia	132,322	20,955	66,752	158,545	164,764
United Arab Emirates	22,278	7,249	7,241	50,948	66,553
Venezuela	34,275	6,035	12,071	27,205	11,016
<b>OPEC</b>	<b>441,221</b>	<b>93,602</b>	<b>229,294</b>	<b>489,771</b>	<b>503,173</b>

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/\$*)

	2008	2009	2010	2011	2012	% change 12/11
Algeria	64.583	72.647	74.386	72.938	77.536	6.3
Angola	75.033	79.328	91.906	93.935	95.426	1.6
Ecuador	1.000	1.000	1.000	1.000	1.000	–
IR Iran	9,428.530	9,864.300	10,254.200	10,616.000	12,175.500	14.7
Iraq	1,193.080	1,170.000	1,170.000	1,170.000	1,166.170	–0.3
Kuwait	0.269	0.288	0.287	0.276	0.280	1.4
Libya	1.224	1.254	1.267	1.212	1.252	3.3
Nigeria	118.546	148.902	150.298	153.903	156.810	1.9
Qatar	3.640	3.640	3.640	3.640	3.640	–
Saudi Arabia	3.750	3.750	3.750	3.750	3.750	–
United Arab Emirates	3.673	3.673	3.673	3.673	3.673	–
Venezuela	2.166	2.148	2.586	4.289	4.289	–

**Notes:** Conversions to the US dollar are based on average annual market exchange rates as indicated in the International Monetary Fund, International Financial Statistics. 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*)

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>24,021</b>	<b>25,582</b>	<b>28,167</b>	<b>28,167</b>	<b>28,167</b>	–
Canada <sup>1</sup>	4,900	4,900	4,900	4,900	4,900	–
United States	19,121	20,682	23,267	23,267	23,267	–
<b>Latin America</b>	<b>209,308</b>	<b>247,917</b>	<b>334,009</b>	<b>337,062</b>	<b>338,114</b>	<b>0.3</b>
Argentina	2,616	2,520	2,505	2,505	2,805	12.0
Brazil	11,722	11,899	11,985	12,841	13,154	2.4
Colombia	1,510	1,362	1,360	1,900	2,200	15.8
Ecuador	6,511	6,511	7,206	8,235	8,235	–
Mexico	11,866	11,692	11,692	11,394	11,365	–0.3
Venezuela	172,323	211,173	296,501	297,571	297,735	0.1
Others	2,760	2,760	2,760	2,616	2,620	0.2
<b>Eastern Europe and Eurasia</b>	<b>115,795</b>	<b>116,556</b>	<b>117,310</b>	<b>117,314</b>	<b>119,881</b>	<b>2.2</b>
Azerbaijan	7,000	7,000	7,000	7,000	7,000	–
Belarus	198	198	198	198	198	–
Kazakhstan	30,000	30,000	30,000	30,000	30,000	–
Russia	75,954	76,650	77,403	77,403	80,000	3.4
Turkmenistan	600	600	600	600	600	–
Ukraine	395	395	395	395	395	–
Uzbekistan	594	594	594	594	594	–
Others	1,054	1,119	1,120	1,124	1,094	–2.7
<b>Western Europe</b>	<b>14,318</b>	<b>13,318</b>	<b>12,966</b>	<b>11,722</b>	<b>11,559</b>	<b>–1.4</b>
Denmark	1,113	1,060	812	900	805	–10.6
Norway	7,491	7,078	7,078	5,320	5,366	0.9
United Kingdom	3,590	3,100	2,800	2,800	2,800	–
Others	2,124	2,080	2,276	2,702	2,588	–4.2
<b>Middle East</b>	<b>752,258</b>	<b>752,079</b>	<b>794,265</b>	<b>796,855</b>	<b>798,832</b>	<b>0.2</b>
IR Iran	137,620	137,010	151,170	154,580	157,300	1.8
Iraq	115,000	115,000	143,100	141,350	140,300	–0.7
Kuwait	101,500	101,500	101,500	101,500	101,500	–
Oman	5,572	5,500	5,500	5,500	5,500	–
Qatar	25,405	25,382	25,382	25,382	25,244	–0.5
Saudi Arabia	264,063	264,590	264,516	265,405	265,850	0.2
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	2,838	2,838	–
<b>Africa</b>	<b>123,384</b>	<b>125,348</b>	<b>127,323</b>	<b>128,174</b>	<b>130,071</b>	<b>1.5</b>
Algeria	12,200	12,200	12,200	12,200	12,200	–
Angola	9,500	9,500	9,055	9,055	9,055	–
Egypt	4,340	4,300	4,400	4,400	4,400	–
Gabon	1,995	2,000	2,000	2,000	2,000	–
Libya	44,271	46,422	47,097	48,014	48,472	1.0
Nigeria	37,200	37,200	37,200	37,200	37,139	–0.2
Sudan	6,700	6,700	6,700	6,700	6,700	–
Others	7,178	7,026	8,671	8,605	10,105	17.4
<b>Asia and Pacific</b>	<b>41,030</b>	<b>44,180</b>	<b>43,943</b>	<b>46,262</b>	<b>51,587</b>	<b>11.5</b>
Brunei	1,200	1,100	1,100	1,100	1,100	–
China	15,493	18,000	18,000	20,350	25,584	25.7
India	5,651	5,673	5,673	5,549	5,571	0.4
Indonesia	3,990	3,990	3,990	3,885	4,030	3.7
Malaysia	5,357	5,500	5,500	5,850	5,850	–
Vietnam	4,700	4,500	4,400	4,400	4,400	–
Australia	3,428	4,239	4,061	3,872	3,872	–
Others	1,211	1,178	1,219	1,256	1,180	–6.1
<b>Total world</b>	<b>1,280,113</b>	<b>1,324,980</b>	<b>1,457,983</b>	<b>1,465,556</b>	<b>1,478,211</b>	<b>0.9</b>
<i>of which</i>						
OPEC	1,023,393	1,064,288	1,192,727	1,198,292	1,200,830	0.2
<i>OPEC percentage</i>	79.9	80.3	81.8	81.8	81.2	–0.7
OECD	53,873	55,142	57,261	55,519	55,309	–0.4
FSU	114,840	115,536	116,289	116,289	118,886	2.2

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**

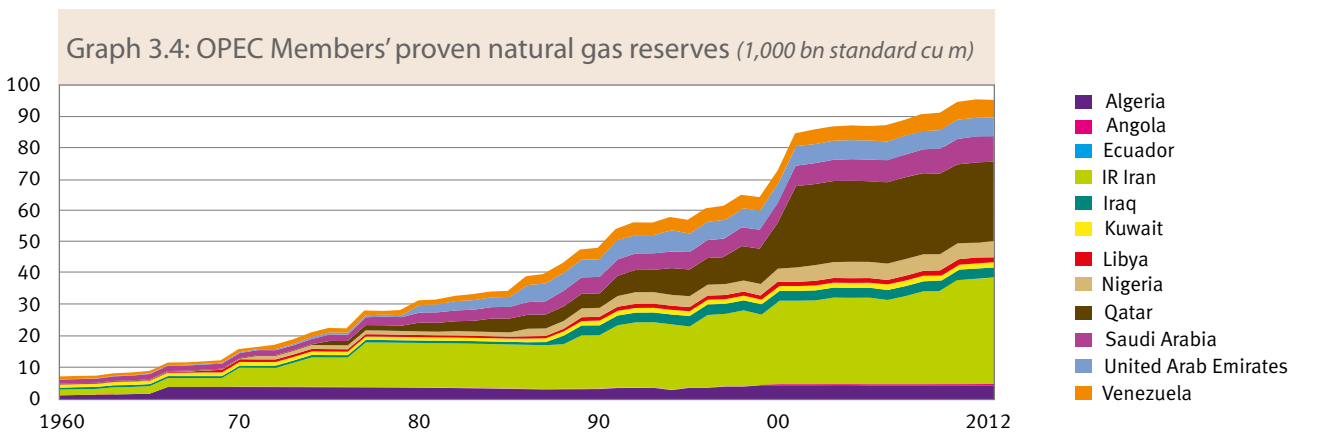
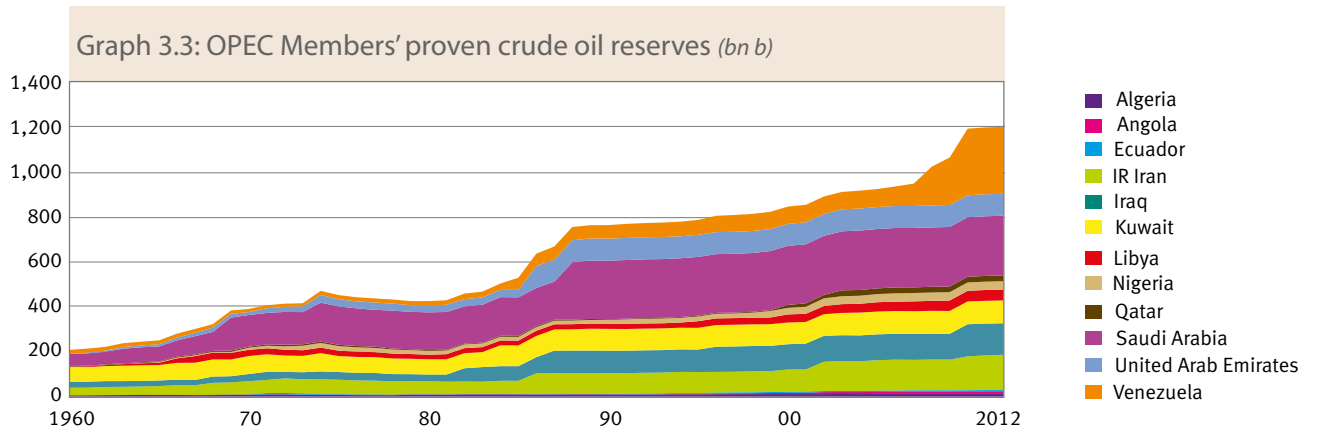
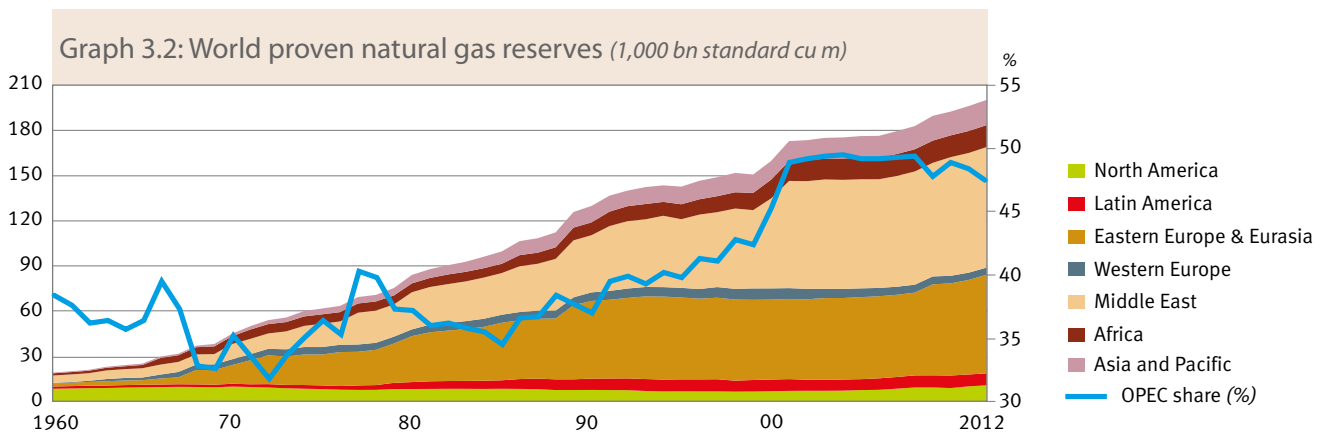
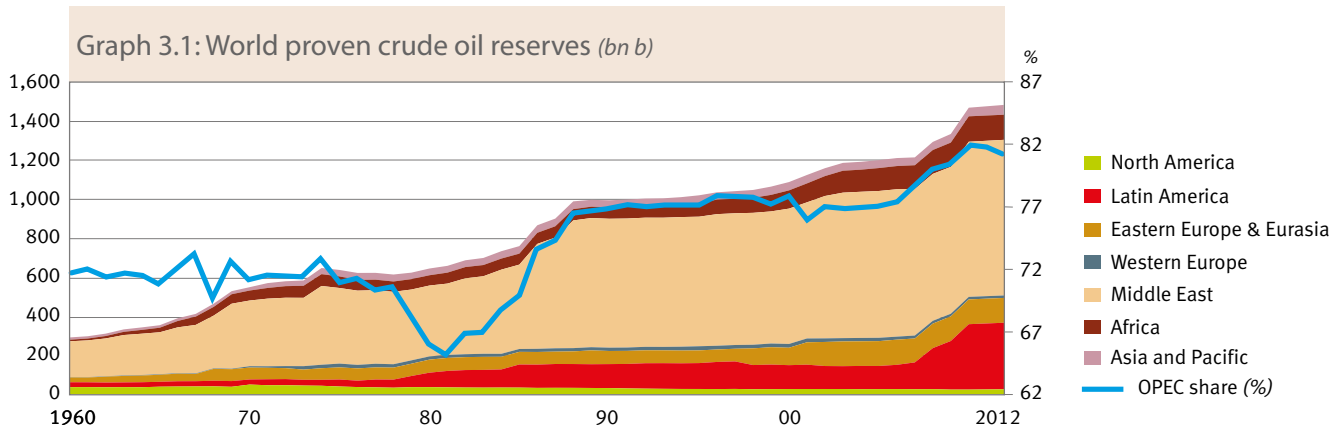
Oil and gas data

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

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>9,168</b>	<b>9,168</b>	<b>8,760</b>	<b>9,900</b>	<b>10,605</b>	<b>7.1</b>
Canada	1,700	1,700	1,685	1,700	1,695	-0.3
United States	7,468	7,468	7,075	8,200	8,910	8.7
<b>Latin America</b>	<b>8,017</b>	<b>8,065</b>	<b>8,341</b>	<b>7,902</b>	<b>7,937</b>	<b>0.4</b>
Argentina	428	399	379	359	333	-7.2
Bolivia	750	750	695	281	281	-
Brazil	380	365	358	417	434	4.1
Chile	46	46	45	43	41	-4.7
Colombia	114	124	134	153	155	1.3
Ecuador	8	8	8	6	6	-
Mexico	359	359	339	349	360	3.2
Peru	415	415	345	353	359	1.7
Trinidad & Tobago	500	500	480	381	375	-1.6
Venezuela	4,983	5,065	5,525	5,528	5,563	0.6
Others	34	34	33	32	30	-6.3
<b>Eastern Europe and Eurasia</b>	<b>55,006</b>	<b>60,487</b>	<b>61,279</b>	<b>62,860</b>	<b>65,564</b>	<b>4.3</b>
Armenia	164	164	164	180	180	-
Azerbaijan	1,325	1,359	1,310	1,317	1,317	-
Kazakhstan	1,910	1,950	1,950	1,913	1,950	1.9
Poland	93	93	98	93	88	-5.4
Romania	629	629	606	595	595	-
Russia	44,900	44,900	46,000	46,000	48,676	5.8
Turkmenistan	3,000	8,400	8,340	10,000	10,000	-
Ukraine	1,020	1,020	990	969	969	-
Uzbekistan	1,745	1,745	1,682	1,661	1,661	-
Others	220	227	139	132	128	-3.0
<b>Western Europe</b>	<b>5,292</b>	<b>5,246</b>	<b>5,019</b>	<b>4,817</b>	<b>4,758</b>	<b>-1.2</b>
Denmark	113	118	105	101	95	-5.9
Germany	119	119	98	87	80	-8.0
Italy	82	69	64	66	62	-6.1
Netherlands	1,236	1,222	1,247	1,161	1,230	5.9
Norway	2,985	2,985	2,819	2,762	2,685	-2.8
United Kingdom	625	601	564	520	481	-7.5
Others	132	132	122	120	125	4.2
<b>Middle East</b>	<b>75,289</b>	<b>75,540</b>	<b>78,890</b>	<b>79,574</b>	<b>80,144</b>	<b>0.7</b>
IR Iran	29,610	29,610	33,090	33,620	33,780	0.5
Iraq	3,170	3,170	3,158	3,158	3,158	-
Kuwait	1,784	1,784	1,784	1,784	1,784	-
Oman	690	690	610	610	950	55.7
Qatar	25,466	25,366	25,201	25,110	25,069	-0.2
Saudi Arabia	7,570	7,920	8,016	8,151	8,235	1.0
United Arab Emirates	6,091	6,091	6,091	6,091	6,091	-
Others	908	908	939	1,050	1,077	2.6
<b>Africa</b>	<b>14,735</b>	<b>14,747</b>	<b>14,462</b>	<b>14,597</b>	<b>14,565</b>	<b>-0.2</b>
Algeria	4,504	4,504	4,504	4,504	4,504	-
Angola	272	275	275	275	275	-
Cameroon	235	235	157	155	153	-1.3
Congo	130	130	130	127	124	-2.4
Egypt	2,170	2,170	2,185	2,210	2,190	-0.9
Libya	1,540	1,549	1,495	1,547	1,549	0.1
Nigeria	5,292	5,292	5,110	5,154	5,118	-0.7
Others	593	593	607	625	652	4.3
<b>Asia and Pacific</b>	<b>15,419</b>	<b>16,476</b>	<b>15,827</b>	<b>16,587</b>	<b>16,777</b>	<b>1.1</b>
Bangladesh	370	344	364	366	349	-4.6
Brunei	350	350	309	301	288	-4.3
China	2,660	3,090	2,751	2,853	3,051	6.9
India	1,090	1,116	1,149	1,278	1,331	4.1
Indonesia	3,100	3,280	2,960	3,068	2,957	-3.6
Malaysia	2,475	2,350	2,362	2,328	2,389	2.6
Myanmar	590	590	510	522	509	-2.5
Pakistan	852	843	818	810	766	-5.4
Thailand	304	340	360	300	282	-6.0
Vietnam	217	217	215	288	224	-22.2
Australia	2,600	3,145	3,225	3,701	3,849	4.0
Others	811	811	804	772	782	1.3
<b>Total world</b>	<b>182,926</b>	<b>189,728</b>	<b>192,578</b>	<b>196,237</b>	<b>200,350</b>	<b>2.1</b>
<i>of which</i>						
OPEC	90,290	90,634	94,257	94,928	95,132	0.2
OPEC share	49.4	47.8	48.9	48.4	47.5	-1.9
OECD	17,746	18,250	17,641	19,171	19,960	4.1
FSU	54,169	59,642	60,540	62,139	64,850	4.4

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

	2008	2009	2010	2011	2012	change 12/11
<b>North America</b>	<b>2,143</b>	<b>1,485</b>	<b>2,109</b>	<b>2,432</b>	<b>2,137</b>	<b>-295</b>
Canada	361	313	398	429	353	-76
United States	1,782	1,172	1,711	2,003	1,784	-219
<b>Latin America</b>	<b>424</b>	<b>426</b>	<b>424</b>	<b>507</b>	<b>514</b>	<b>7</b>
Argentina	70	55	61	64	75	11
Bolivia	3	4	5	5	9	4
Brazil	59	66	75	86	71	-15
Chile	1	4	3	4	3	-1
Colombia	42	31	54	75	39	-36
Ecuador	18	12	11	39	44	5
Mexico	111	122	80	105	114	9
Trinidad & Tobago	4	3	1	4	5	1
Venezuela	108	120	125	116	149	33
Others	8	9	9	9	5	-4
<b>Eastern Europe and Eurasia</b>	<b>509</b>	<b>473</b>	<b>400</b>	<b>404</b>	<b>428</b>	<b>24</b>
Azerbaijan	11	14	15	14	14	-
Kazakhstan	107	85	58	60	60	-
Poland	14	15	9	11	15	4
Romania	31	28	15	10	10	-
Russia	335	320	294	300	320	20
Turkmenistan	11	11	9	9	9	-
Others	-	-	-	-	-	-
<b>Western Europe</b>	<b>152</b>	<b>125</b>	<b>149</b>	<b>132</b>	<b>159</b>	<b>27</b>
France	1	1	-	1	1	-
Germany	10	5	7	5	6	1
Italy	4	4	4	4	5	1
Netherlands	5	5	7	4	9	5
Norway	25	22	19	10	25	15
United Kingdom	22	14	20	16	21	5
Others	85	74	92	92	92	-
<b>Middle East</b>	<b>413</b>	<b>369</b>	<b>423</b>	<b>526</b>	<b>590</b>	<b>64</b>
IR Iran	52	52	54	123	133	10
Iraq	29	22	36	59	92	33
Kuwait	19	28	56	49	48	-1
Oman	52	48	41	50	43	-7
Qatar	2	6	6	6	6	-
Saudi Arabia	127	102	98	121	148	27
Syrian Arab Republic	20	19	31	27	27	-
United Arab Emirates	14	11	13	13	13	-
Yemen	15	12	12	2	4	2
Others	83	69	76	76	76	-
<b>Africa</b>	<b>210</b>	<b>192</b>	<b>217</b>	<b>255</b>	<b>290</b>	<b>35</b>
Algeria	27	27	24	33	38	5
Angola	6	5	11	22	27	5
Egypt	60	49	57	71	48	-23
Gabon	1	2	4	6	6	-
Libya	63	60	60	55	72	17
Nigeria	20	18	35	38	44	6
South Africa	1	-	-	-	-	-
Sudan	30	28	20	26	26	-
Others	2	3	6	4	29	25
<b>Asia and Pacific</b>	<b>272</b>	<b>313</b>	<b>325</b>	<b>299</b>	<b>286</b>	<b>-13</b>
Australia	26	17	16	14	23	9
China	30	47	43	40	17	-23
Brunei	1	1	-	3	1	-2
India	82	104	112	117	114	-3
Indonesia	61	58	60	53	43	-10
Malaysia	19	13	8	8	13	5
New Zealand	4	5	5	4	6	2
Pakistan	21	18	15	12	21	9
Others	28	50	66	48	48	-
<b>Total world</b>	<b>4,123</b>	<b>3,383</b>	<b>4,047</b>	<b>4,555</b>	<b>4,404</b>	<b>-151</b>
<i>of which</i>						
OPEC	485	463	529	674	814	140
<i>OPEC percentage</i>	<i>11.8</i>	<i>13.7</i>	<i>13.1</i>	<i>14.8</i>	<i>18.5</i>	<i>24.9</i>
OECD	2,386	1,716	2,315	2,727	2,418	-309
FSU	539	520	443	444	445	1

**Notes:** From 2002 onward the global rigs count was revised to include FSU countries, China and Sudan. Figures are at year-end. Number of workover rigs for Venezuela is estimated to stand at 144 in 2012, 128 in 2011, 77 in 2010 and 64 in 2009. Average active rigs of the USA in 2008, 2009, 2010, 2011 and 2012 stood at 1,880, 1,086, 1,541, 1,875, 1,919, respectively.

## Table 3.4

Oil and gas data

### Wells completed in OPEC Members

	2008	2009	2010	2011	2012	change 12/11
Algeria	249	265	258	249	258	9
Angola	99	60	118	112	127	15
Ecuador	128	160	176	207	268	61
IR Iran	294	160	186	204	323	119
Iraq	19	55	71	76	228	152
Kuwait <sup>1</sup>	92	118	268	363	126	-237
Libya	254	247	200	76	68	-8
Nigeria	105	140	94	124	107	-17
Qatar	89	94	35	29	87	58
Saudi Arabia <sup>1</sup>	592	450	336	312	362	50
United Arab Emirates	124	173	182	266	304	38
Venezuela	1,350	775	890	1,050	788	-262
OPEC <sup>2</sup>	3,395	2,697	2,814	3,068	3,046	-22
<b>Total world<sup>2</sup></b>	<b>112,444</b>	<b>86,294</b>	<b>96,230</b>	<b>99,039</b>	<b>101,757</b>	<b>2,718</b>

#### Notes:

1. Figures include share of wells completed from Neutral Zone.
2. Wells completed include development and exploration of oil and gas wells.

Producing wells in OPEC Members

	2008	2009	2010	2011	2012	change 12/11
Algeria	1,285	2,028	2,014	2,010	2,061	51
Angola	1,064	1,321	1,321	1,476	1,554	78
Ecuador	2,699	2,817	3,025	3,079	3,177	98
IR Iran	1,128	2,074	2,074	2,026	2,119	93
Iraq	1,685	1,526	1,526	1,695	1,700	5
Kuwait <sup>1</sup>	1,079	1,667	1,667	1,798	1,831	33
Libya	1,543	2,060	2,060	609	1,910	1,301
Nigeria	2,524	3,152	2,068	2,116	2,168	52
Qatar	421	513	513	517	517	–
Saudi Arabia <sup>1</sup>	1,560	2,811	2,895	3,245	3,407	162
United Arab Emirates	1,456	1,456	1,458	1,592	1,640	48
Venezuela	15,669	14,651	14,651	14,915	14,959	44
OPEC	32,113	36,076	35,272	35,078	37,043	1,965
<b>Total world<sup>2</sup></b>	<b>953,734</b>	<b>928,167</b>	<b>936,873</b>	<b>971,879</b>	<b>981,598</b>	<b>9,719</b>

Notes: Excluding shut-in wells.

1. Figures include share of producing wells from Neutral Zone.

2. Revisions have been made throughout the time series to include Eastern Europe.

**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	2012
Algeria	181.1	1,029.1	1,019.9	783.5	796.0	1,199.8
Angola	1.1	83.9	150.0	473.8	736.1	1,704.0
Ecuador	7.5	4.1	204.1	286.1	392.2	503.6
IR Iran	1,067.7	3,829.0	1,467.4	3,135.3	3,661.3	3,739.8
Iraq	972.2	1,548.6	2,646.4	2,112.6	2,810.0	2,942.4
Kuwait <sup>1</sup>	1,691.8	2,989.6	1,663.7	858.6	1,996.1	2,977.6
Libya	0.0	3,318.0	1,831.6	1,389.1	1,347.2	1,450.0
Nigeria	17.4	1,083.1	2,058.0	1,726.7	2,053.6	1,954.1
Qatar	174.6	362.4	471.4	405.6	648.2	733.6
Saudi Arabia <sup>1</sup>	1,313.5	3,799.1	9,900.5	6,412.5	8,094.5	9,763.0
United Arab Emirates	–	779.6	1,701.9	1,762.6	2,174.7	2,652.5
Venezuela	2,846.1	3,708.0	2,165.0	2,135.2	2,891.0	2,803.9
<b>OPEC</b>	<b>8,273.0</b>	<b>22,534.5</b>	<b>25,279.9</b>	<b>21,481.6</b>	<b>27,600.8</b>	<b>32,424.2</b>

1. Figures include share of production from Neutral Zone.

Cumulative crude oil production up to and including year

	1960	1970	1980	1990	2000	2012
Algeria	81,372	2,569,469	6,404,548	8,974,340	11,837,030	16,942,127
Angola	1,127	76,423	623,359	1,681,478	3,972,081	10,032,605
Ecuador	2,745	26,191	617,927	1,526,131	2,843,162	4,914,397
IR Iran	4,167,717	12,357,977	29,969,896	38,410,483	51,367,070	67,826,733
Iraq	2,750,439	7,476,078	15,826,156	22,246,208	26,918,241	36,642,058
Kuwait <sup>1</sup>	4,333,049	13,028,906	21,993,164	25,857,094	32,092,887	42,608,314
Libya	–	5,476,384	12,810,843	16,929,582	21,993,272	28,304,027
Nigeria	12,318	1,138,896	8,389,456	13,656,562	20,572,881	29,634,351
Qatar	451,617	1,428,583	3,199,374	4,334,808	6,032,088	9,255,000
Saudi Arabia <sup>1</sup>	4,345,242	13,283,848	42,306,785	61,814,608	91,266,532	129,359,546
United Arab Emirates	–	1,160,471	7,164,231	11,921,927	19,785,670	30,172,519
Venezuela	13,865,487	26,301,976	36,046,663	42,528,079	51,772,971	64,441,657
<b>OPEC</b>	<b>30,011,111</b>	<b>84,325,201</b>	<b>185,352,402</b>	<b>249,881,299</b>	<b>340,453,882</b>	<b>470,133,334</b>

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)

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>6,349.1</b>	<b>6,570.2</b>	<b>6,705.8</b>	<b>6,912.7</b>	<b>7,812.9</b>	<b>13.0</b>
Canada	1,348.7	1,217.2	1,227.1	1,260.8	1,307.9	3.7
United States	5,000.4	5,353.0	5,478.7	5,651.8	6,505.0	15.1
<b>Latin America</b>	<b>9,635.2</b>	<b>9,495.0</b>	<b>9,654.4</b>	<b>9,813.4</b>	<b>9,686.8</b>	<b>-1.3</b>
Argentina	641.6	611.3	597.4	560.0	535.1	-4.4
Brazil	1,812.1	1,950.4	2,054.7	2,105.4	2,061.3	-2.1
Chile	2.0	2.8	3.0	4.5	6.1	35.0
Colombia	587.8	670.2	784.8	914.4	944.4	3.3
Ecuador	501.4	464.7	476.4	500.3	503.6	0.7
Mexico	2,798.5	2,601.4	2,577.2	2,552.5	2,547.9	-0.2
Peru	76.6	71.8	72.6	69.6	66.6	-4.3
Trinidad & Tobago	114.3	107.2	98.2	92.0	81.7	-11.2
Venezuela	2,957.5	2,878.1	2,853.6	2,880.9	2,803.9	-2.7
Others	143.5	137.1	136.3	133.9	136.1	1.6
<b>Eastern Europe and Eurasia</b>	<b>12,045.5</b>	<b>12,396.3</b>	<b>12,651.7</b>	<b>12,649.8</b>	<b>12,670.4</b>	<b>0.2</b>
Azerbaijan	899.7	1,014.4	1,026.7	915.9	844.5	-7.8
Kazakhstan	1,142.7	1,256.3	1,333.4	1,325.9	1,306.5	-1.5
Romania	92.8	88.5	85.7	83.8	82.0	-2.2
Russia	9,498.5	9,650.4	9,841.3	9,943.3	10,042.9	1.0
Turkmenistan	202.1	188.4	180.0	200.2	218.7	9.2
Ukraine	62.2	58.1	51.4	48.7	46.0	-5.7
Others	147.4	140.2	133.0	131.9	129.7	-1.7
<b>Western Europe</b>	<b>4,046.6</b>	<b>3,828.8</b>	<b>3,529.0</b>	<b>3,191.6</b>	<b>2,889.9</b>	<b>-9.5</b>
Denmark	279.8	261.3	246.3	221.7	208.5	-6.0
France	19.6	18.2	18.0	17.8	16.3	-8.9
Germany	61.7	54.6	49.0	51.8	51.1	-1.4
Italy	99.5	82.8	96.0	99.2	101.0	1.8
Netherlands	33.6	25.5	19.9	21.4	21.6	0.6
Norway	2,107.6	1,989.2	1,798.0	1,679.9	1,532.8	-8.8
Turkey	41.6	46.2	48.3	45.7	44.8	-2.0
United Kingdom	1,352.5	1,301.2	1,202.4	1,006.0	868.2	-13.7
Others	50.8	49.8	51.2	48.1	45.8	-4.8
<b>Middle East</b>	<b>23,141.6</b>	<b>20,868.5</b>	<b>21,030.6</b>	<b>23,004.8</b>	<b>24,133.4</b>	<b>4.9</b>
Bahrain	184.5	182.0	181.8	190.3	168.3	-11.6
IR Iran	4,055.7	3,557.1	3,544.0	3,576.0	3,739.8	4.6
Iraq	2,280.5	2,336.2	2,358.1	2,652.6	2,942.4	10.9
Kuwait <sup>1</sup>	2,676.0	2,261.6	2,312.1	2,658.7	2,977.6	12.0
Oman	669.3	712.6	758.3	780.1	813.5	4.3
Qatar	842.8	733.0	733.4	733.5	733.6	-
Saudi Arabia <sup>1</sup>	9,198.0	8,184.0	8,165.6	9,311.0	9,763.0	4.9
Syrian Arab Republic	377.0	377.0	386.0	333.3	182.1	-45.4
United Arab Emirates	2,572.2	2,241.6	2,323.8	2,564.2	2,652.5	3.4
Yemen	285.7	283.4	267.5	205.1	160.8	-21.6
<b>Africa</b>	<b>9,191.4</b>	<b>8,461.0</b>	<b>8,668.6</b>	<b>7,430.5</b>	<b>8,202.7</b>	<b>10.4</b>
Algeria	1,356.0	1,216.0	1,189.8	1,161.6	1,199.8	3.3
Angola	1,896.3	1,738.9	1,757.6	1,618.0	1,704.0	5.3
Congo	259.7	274.9	295.6	295.3	297.7	0.8
Egypt	522.6	523.1	534.1	530.4	533.1	0.5
Equatorial Guinea	299.8	281.7	256.1	239.9	256.7	7.0
Gabon	239.6	237.6	252.4	251.0	242.0	-3.6
Libya	1,721.5	1,473.9	1,486.6	489.5	1,450.0	196.2
Nigeria	2,017.4	1,842.0	2,048.3	1,974.8	1,954.1	-1.0
Sudans	456.8	475.2	462.2	428.0	119.3	-72.1
Others	421.7	397.7	385.9	441.9	446.1	0.9
<b>Asia and Pacific</b>	<b>7,414.0</b>	<b>7,345.8</b>	<b>7,648.2</b>	<b>7,458.1</b>	<b>7,462.5</b>	<b>0.1</b>
Australia	463.7	463.7	480.0	405.7	368.4	-9.2
Brunei	157.5	148.6	153.1	150.2	139.7	-7.0
China	3,802.1	3,794.6	4,076.4	4,052.1	4,109.1	1.4
India	682.0	666.3	735.6	766.9	760.1	-0.9
Indonesia	853.4	826.1	824.4	794.4	763.4	-3.9
Malaysia	694.2	659.9	635.9	569.8	584.0	2.5
New Zealand	60.1	55.9	54.9	46.8	41.1	-12.3
Others	701.0	730.8	687.9	672.2	696.8	3.7
<b>Total world</b>	<b>71,823.5</b>	<b>68,965.6</b>	<b>69,888.2</b>	<b>70,460.9</b>	<b>72,858.5</b>	<b>3.4</b>
<i>of which</i>						
OPEC	32,075.4	28,927.1	29,249.4	30,121.2	32,424.2	7.6
OPEC percentage	44.7	41.9	41.9	42.7	44.5	4.1
OECD	13,733.0	13,532.7	13,357.2	13,119.9	13,676.4	4.2
FSU	11,908.6	12,267.6	12,524.3	12,521.9	12,542.2	0.2

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*)

	2008	2009	2010	2011	2012	% change 12/11
<b>Algeria</b>						
Gross production	201,186	196,917	192,209	190,127	182,599	-4.0
Marketed production	86,505	81,426	84,615	82,767	86,454	4.5
Flaring	4,953	5,503	4,997	3,604	3,495	-3.0
Reinjection	92,918	95,007	89,080	88,745	77,375	-12.8
Shrinkage	16,810	14,981	13,516	15,011	15,275	1.8
<b>Angola</b>						
Gross production	10,050	10,100	10,320	10,733	10,847	1.1
Marketed production	680	690	733	752	760	1.1
Flaring	6,920	6,907	7,042	7,183	7,259	1.1
Reinjection	2,300	2,290	2,363	2,599	2,627	1.1
Shrinkage	150	213	181	199	201	1.1
<b>Ecuador</b>						
Gross production	1,250	1,400	1,403	1,337	1,540	15.2
Marketed production	260	296	330	241	517	114.5
Flaring	770	570	493	539	512	-5.0
Reinjection	220	-	-	-	-	-
Shrinkage	-	534	580	557	512	-8.1
<b>IR Iran</b>						
Gross production	180,423	210,334	220,124	224,121	231,332	3.2
Marketed production	116,300	175,742	187,357	188,753	202,431	7.2
Flaring	16,811	15,874	-	-	-	-
Reinjection	27,412	18,719	32,766	35,369	28,901	-18.3
Shrinkage	19,900	-	-	-	-	-
<b>Iraq</b>						
Gross production	14,781	16,577	16,885	18,692	20,496	9.7
Marketed production	1,880	1,149	1,303	876	646	-26.3
Flaring	6,005	6,984	7,573	9,612	11,975	24.6
Reinjection	900	968	809	968	875	-9.6
Shrinkage	5,996	7,477	7,200	7,235	7,000	-3.2
<b>Kuwait</b>						
Gross production	13,870	11,689	11,950	13,750	15,515	12.8
Marketed production	12,700	11,489	11,733	13,533	15,515	14.6
Flaring	200	200	217	217	-	-100.0
Reinjection	970	-	-	-	-	-
Shrinkage	-	-	-	-	-	-
<b>Libya</b>						
Gross production	30,310	29,289	30,257	9,861	23,435	137.7
Marketed production	15,900	15,900	16,814	7,855	18,118	130.7
Flaring	3,940	3,261	3,483	1,302	3,922	201.2
Reinjection	3,526	3,570	3,400	704	1,396	98.3
Shrinkage	6,944	6,557	6,560	-	-	-

**Table 3.8**

Oil and gas data

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

	2008	2009	2010	2011	2012	% change 12/11
<b>Nigeria</b>						
Gross production	72,638	56,717	71,758	84,004	84,845	1.0
Marketed production	32,825	23,206	28,099	41,323	42,571	3.0
Flaring	19,073	13,328	15,294	14,270	13,182	-7.6
Reinjection	14,423	14,245	21,286	22,519	20,520	-8.9
Shrinkage	6,317	5,937	7,079	5,892	8,573	45.5
<b>Qatar</b>						
Gross production	90,887	102,800	136,251	150,016	163,025	8.7
Marketed production	76,981	89,300	131,165	145,271	157,050	8.1
Flaring	3,597	3,966	1,023	558	703	25.9
Reinjection	4,758	3,886	2,067	2,109	2,656	25.9
Shrinkage	5,551	5,648	1,995	2,078	2,617	25.9
<b>Saudi Arabia</b>						
Gross production	86,400	89,610	97,030	102,430	111,220	8.6
Marketed production	80,440	78,450	87,660	92,260	99,330	7.7
Flaring	-	-	-	-	-	-
Reinjection	160	50	60	30	10	-66.7
Shrinkage	5,800	11,110	9,310	10,140	11,880	17.2
<b>United Arab Emirates</b>						
Gross production	80,055	75,840	79,778	82,460	85,613	3.8
Marketed production	50,240	48,840	51,282	52,308	54,308	3.8
Flaring	980	967	972	982	1,020	3.8
Reinjection	23,135	22,051	22,406	23,974	24,891	3.8
Shrinkage	5,700	3,983	5,118	5,196	5,395	3.8
<b>Venezuela</b>						
Gross production	71,978	72,170	71,075	73,274	75,968	3.7
Marketed production	20,750	18,430	19,728	20,769	22,726	9.4
Flaring	9,173	8,753	6,680	9,284	11,347	22.2
Reinjection	30,200	31,626	30,390	29,827	29,756	-0.2
Shrinkage	11,855	13,362	14,277	13,394	12,139	-9.4
<b>OPEC</b>						
Gross production	853,828	873,443	939,040	960,805	1,006,435	4.7
Marketed production	495,461	544,918	620,819	646,708	700,426	8.3
Flaring	72,422	66,313	47,774	47,551	53,415	12.3
Reinjection	200,922	192,412	204,627	206,844	189,006	-8.6
Shrinkage	85,023	69,802	65,816	59,702	63,592	6.5

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*)

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>745,250</b>	<b>741,940</b>	<b>800,612</b>	<b>809,923</b>	<b>837,646</b>	<b>3.4</b>
Canada	171,190	159,530	144,537	159,714	154,927	-3.0
United States	574,060	582,410	656,075	650,209	682,719	5.0
<b>Latin America</b>	<b>196,495</b>	<b>190,933</b>	<b>200,156</b>	<b>202,252</b>	<b>207,838</b>	<b>2.8</b>
Argentina	44,060	41,360	40,100	38,770	37,640	-2.9
Bolivia	14,660	12,620	14,730	15,800	18,240	15.4
Brazil	12,620	10,280	12,600	14,580	16,940	16.2
Chile	1,870	1,350	1,070	980	1,140	16.3
Colombia	9,000	10,490	11,300	10,950	11,930	8.9
Cuba	1,160	1,150	1,208	1,173	1,076	-8.3
Ecuador	260	296	330	241	517	114.5
Mexico	46,610	48,320	47,710	45,280	43,170	-4.7
Peru	3,650	3,470	7,200	11,400	11,850	3.9
Trinidad & Tobago	41,855	43,167	44,180	42,309	42,609	0.7
Venezuela	20,750	18,430	19,728	20,769	22,726	9.4
<b>Eastern Europe and Eurasia</b>	<b>819,760</b>	<b>717,270</b>	<b>786,150</b>	<b>819,227</b>	<b>803,971</b>	<b>-1.9</b>
Azerbaijan	12,500	16,330	18,220	15,350	16,010	4.3
Hungary	2,610	3,090	2,490	2,730	2,462	-9.8
Kazakhstan	18,660	17,680	17,580	19,050	19,490	2.3
Poland	4,100	4,110	4,240	4,150	4,105	-1.1
Romania	10,700	10,950	10,470	10,707	10,979	2.5
Russia	621,300	546,800	610,090	628,140	609,200	-3.0
Turkmenistan	66,100	35,720	41,610	60,950	64,890	6.5
Ukraine	19,800	19,880	19,000	18,810	18,600	-1.1
Uzbekistan	63,400	62,270	61,960	58,850	57,730	-1.9
Others	590	440	490	490	505	3.1
<b>Western Europe</b>	<b>289,410</b>	<b>272,200</b>	<b>282,518</b>	<b>255,325</b>	<b>260,613</b>	<b>2.1</b>
Austria	1,530	1,590	1,669	1,776	1,906	7.3
Croatia	1,580	1,410	1,523	1,504	1,913	27.2
Denmark	10,090	8,450	8,190	6,610	5,780	-12.6
France	920	880	718	839	508	-39.5
Germany	15,600	14,590	12,710	11,600	10,140	-12.6
Ireland	360	320	388	356	373	4.8
Italy	9,140	8,020	8,300	8,260	8,410	1.8
Netherlands	79,960	73,730	85,900	78,560	78,150	-0.5
Norway	99,200	103,750	106,350	101,420	114,570	13.0
United Kingdom	69,900	59,100	56,300	43,780	37,650	-14.0
Others	1,130	360	470	620	1,213	95.6
<b>Middle East</b>	<b>382,813</b>	<b>450,215</b>	<b>527,446</b>	<b>554,626</b>	<b>589,333</b>	<b>6.3</b>
Bahrain	12,640	12,580	12,910	12,710	12,450	-2.0
IR Iran	116,300	175,742	187,357	188,753	202,431	7.2

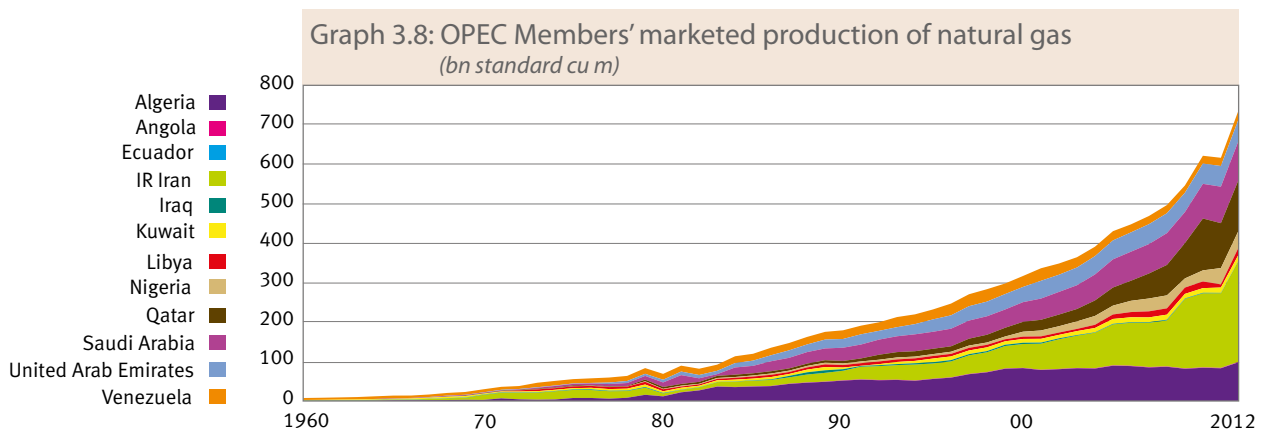
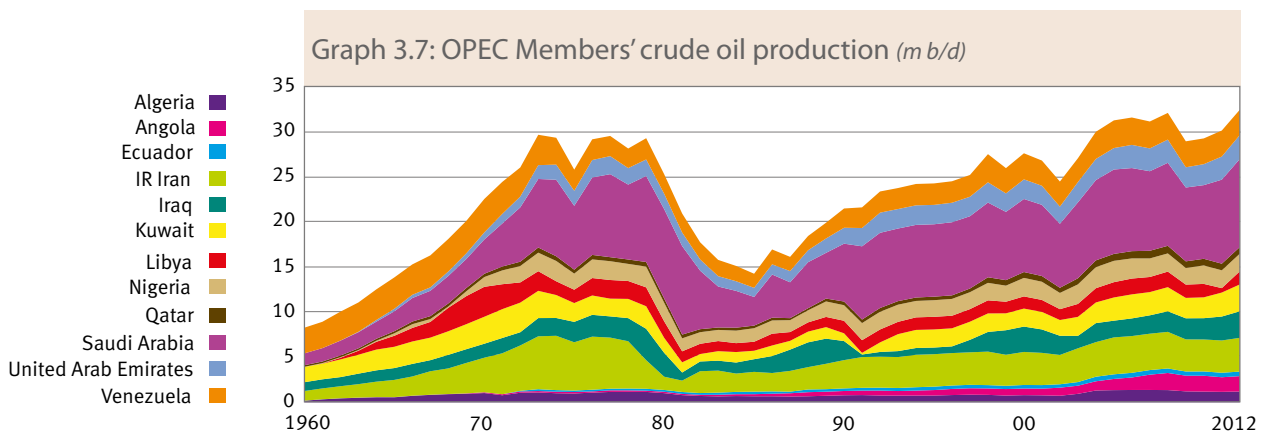
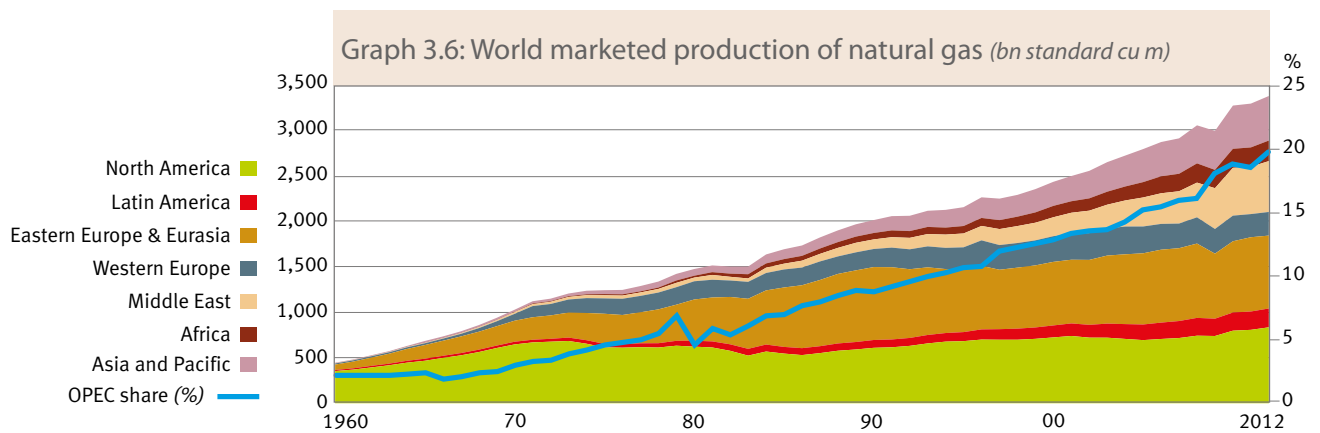
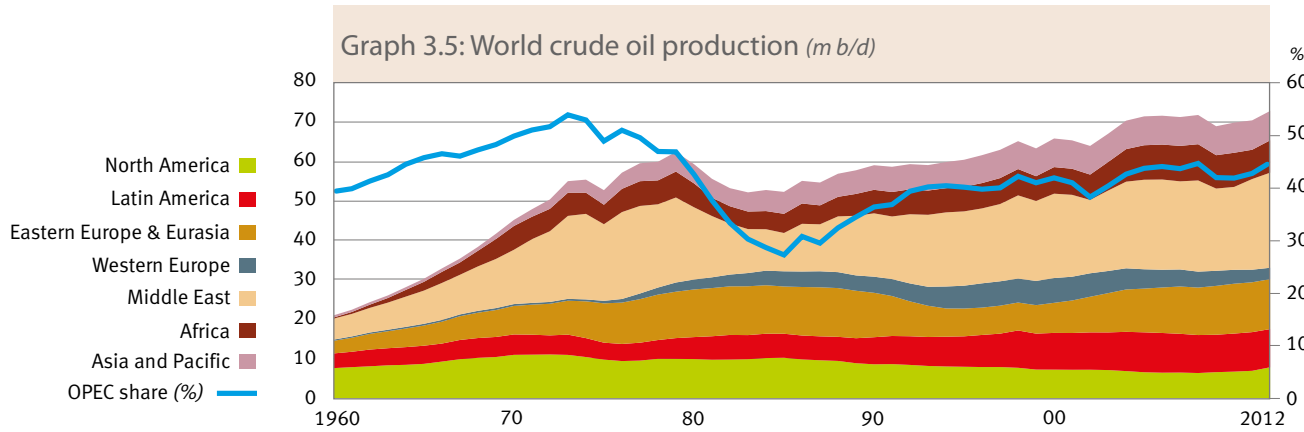
Notes: Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

**Table 3.9**

Oil and gas data

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

	2008	2009	2010	2011	2012	% change 12/11
Iraq	1,880	1,149	1,303	876	646	-26.3
Kuwait	12,700	11,489	11,733	13,533	15,515	14.6
Oman	24,082	23,975	27,086	28,595	31,583	10.4
Qatar	76,981	89,300	131,165	145,271	157,050	8.1
Saudi Arabia	80,440	78,450	87,660	92,260	99,330	7.7
Syrian Arab Republic	5,900	6,510	8,940	7,870	6,830	-13.2
United Arab Emirates	50,240	48,840	51,282	52,308	54,308	3.8
Others	1,650	2,180	8,010	12,450	9,190	-26.2
<b>Africa</b>	<b>212,260</b>	<b>201,522</b>	<b>210,527</b>	<b>212,448</b>	<b>226,910</b>	<b>6.8</b>
Algeria	86,505	81,426	84,615	82,767	86,454	4.5
Angola	680	690	733	752	760	1.1
Egypt	58,970	62,690	61,330	61,260	60,600	-1.1
Equatorial Guinea	6,670	5,900	6,136	6,235	6,500	4.3
Côte d'Ivoire	1,300	1,300	1,352	1,317	1,317	-
Libya	15,900	15,900	16,814	7,855	18,118	130.7
Mozambique	3,300	3,600	3,744	3,548	3,600	1.5
Nigeria	32,825	23,206	28,099	41,323	42,571	3.0
South Africa	3,250	3,600	3,744	3,531	3,200	-9.4
Tunisia	1,720	1,810	2,030	1,930	1,860	-3.6
Others	1,140	1,400	1,930	1,930	1,930	-
<b>Asia Pacific</b>	<b>419,669</b>	<b>430,201</b>	<b>477,000</b>	<b>483,402</b>	<b>491,303</b>	<b>1.6</b>
Australia	47,500	42,335	45,116	55,080	60,860	10.5
Bangladesh	17,900	19,750	20,100	20,100	21,820	8.6
Brunei	13,400	11,500	11,800	12,440	11,830	-4.9
China	80,299	85,269	94,848	102,689	106,429	3.6
India	32,200	40,620	52,800	47,600	41,900	-12.0
Indonesia	70,000	72,400	82,600	76,250	71,800	-5.8
Japan	3,950	3,740	3,397	3,696	3,273	-11.4
Malaysia	61,200	58,600	61,210	61,700	61,514	-0.3
Myanmar	12,400	11,540	12,100	12,013	11,970	-0.4
New Zealand	3,880	3,970	4,481	4,110	4,642	12.9
Pakistan	37,500	38,410	39,450	39,200	41,260	5.3
Philippines	2,940	3,090	3,245	3,092	3,916	26.6
Thailand	28,760	30,907	36,293	37,016	41,286	11.5
Vietnam	6,980	7,090	8,610	7,700	8,200	6.5
Others	760	980	950	716	603	-15.8
<b>Total world</b>	<b>3,065,657</b>	<b>3,004,281</b>	<b>3,284,409</b>	<b>3,337,203</b>	<b>3,417,614</b>	<b>2.4</b>
<i>of which</i>						
OPEC	495,461	544,918	620,819	646,708	700,426	8.3
<i>OPEC percentage</i>	<i>16.2</i>	<i>18.1</i>	<i>18.9</i>	<i>19.4</i>	<i>20.5</i>	<i>5.8</i>
OECD	1,143,600	1,119,645	1,190,111	1,179,770	1,215,998	3.1
FSU	801,910	698,830	768,610	801,300	786,070	-1.9



**Table 3.10**

Oil and gas data

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

	Location	2008	2009	2010	2011	2012
<b>Algeria</b>		<b>657.9</b>	<b>652.8</b>	<b>652.8</b>	<b>652.8</b>	<b>694.4</b>
Sonatrach	Skikda	359.1	352.7	352.7	352.7	359.1
	Arzew	59.8	58.5	58.5	58.5	93.6
	El Harrach	193.3	198.2	198.2	198.2	198.2
	Hassi Messaoud	31.4	29.2	29.2	29.2	29.2
	Adrar (Soralchine)	14.4	14.4	14.4	14.4	14.4
<b>Angola</b>		<b>38.0</b>	<b>38.0</b>	<b>38.0</b>	<b>37.5</b>	<b>37.5</b>
Fina Petroleos de Angola	Luanda	38.0	38.0	38.0	37.5	37.5
<b>Ecuador</b>		<b>188.4</b>	<b>188.4</b>	<b>188.4</b>	<b>188.4</b>	<b>188.4</b>
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
<b>IR Iran</b>		<b>1,474.0</b>	<b>1,474.0</b>	<b>1,741.0</b>	<b>1,772.0</b>	<b>1681.0</b>
NIOC	Abadan	400.0	400.0	421.0	390.0	399.0
	Arak	150.0	150.0	181.0	230.0	242.0
	Tehran	225.0	225.0	245.0	240.0	245.0
	Isfahan	265.0	265.0	350.0	370.0	275.0
	Tabriz	112.0	112.0	111.0	110.0	110.0
	Shiraz	40.0	40.0	60.0	56.0	56.0
	Kermanshah	30.0	30.0	22.0	21.0	22.0
	Lavan	20.0	20.0	29.0	35.0	48.0
	Bandar Abbas	232.0	232.0	322.0	320.0	284.0
<b>Iraq</b>		<b>658.5</b>	<b>824.0</b>	<b>800.0</b>	<b>800.0</b>	<b>806.0</b>
INOC	Basrah	160.0	140.0	140.0	140.0	140.0
	Daurah	90.0	142.3	140.0	140.0	140.0
	Kirkuk	10.0	30.0	30.0	30.0	30.0
	Baiji (Salaheddin)	150.0	135.8	150.0	140.0	140.0
	Baiji (North)	170.0	170.0	170.0	170.0	170.0
	Khanaqin/Alwand	10.0	12.0	12.0	12.0	12.0
	Samawah	20.0	30.0	30.0	30.0	30.0
	Haditha	20.0	16.0	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	2.0
	Najaf	20.0	30.0	30.0	30.0	30.0
	Others	–	109.4	85.4	83.5	121.5
<b>Kuwait</b>		<b>936.0</b>	<b>936.0</b>	<b>936.0</b>	<b>936.0</b>	<b>936.0</b>
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	2008	2009	2010	2011	2012
<b>Libya</b>		<b>380.0</b>	<b>380.0</b>	<b>380.0</b>	<b>380.0</b>	<b>380.0</b>
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
<b>Nigeria</b>		<b>445.0</b>	<b>445.0</b>	<b>445.0</b>	<b>445.0</b>	<b>445.0</b>
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
<b>Qatar</b>		<b>80.0</b>	<b>80.0</b>	<b>80.0</b>	<b>80.0</b>	<b>80.0</b>
Qatar Petroleum	Mesaieed II	80.0	80.0	80.0	80.0	80.0
<b>Saudi Arabia</b>		<b>2,135.0</b>	<b>2,109.0</b>	<b>2,109.0</b>	<b>2,107.0</b>	<b>2,107.0</b>
Saudi Aramco	Ras Tanura	550.0	550.0	550.0	550.0	550.0
Saudi Aramco	Jeddah	88.0	88.0	88.0	88.0	88.0
Saudi Aramco	Riyadh	122.0	124.0	124.0	124.0	124.0
AOC	Khafji	30.0	–	–	–	–
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	402.0	402.0	400.0	400.0
<b>United Arab Emirates</b>		<b>466.3</b>	<b>466.3</b>	<b>466.3</b>	<b>466.3</b>	<b>471.3</b>
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	90.0
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
<b>Venezuela<sup>1</sup></b>		<b>1,542.1</b>	<b>1,583.7</b>	<b>1,580.1</b>	<b>1,617.1</b>	<b>1,523.6</b>
PDVSA	Amuay	454.3	474.0	430.3	453.6	406.1
	Cardon	260.0	230.2	246.2	253.2	228.2
	Bajo Grande	4.7	3.5	2.4	4.1	5.9
	El Palito	127.8	90.8	127.2	127.6	128.1
	Puerto La Cruz	175.3	178.4	171.3	173.5	171.3
	San Roque	5.1	4.4	4.9	4.9	5.2
	Petropiar <sup>2</sup>	143.6	153.1	190.8	184.2	126.2
	Petromonagas <sup>2</sup>	106.2	131.0	130.7	130.4	112.6
	Petrocedeno <sup>2</sup>	167.8	184.0	195.8	175.3	196.1
	Petrozuata <sup>2</sup>	97.3	134.4	80.5	110.4	143.9
<b>OPEC</b>		<b>9,001.1</b>	<b>9,177.1</b>	<b>9,416.5</b>	<b>9,482.1</b>	<b>9,350.1</b>

**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.

1. Total refinery capacity for Venezuela also includes upgrader refinery data.

2. Upgrader refinery capacity.

**Table 3.11**

Oil and gas data

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

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>19,409.1</b>	<b>19,802.8</b>	<b>19,771.2</b>	<b>19,706.2</b>	<b>20,052.2</b>	<b>1.8</b>
Canada	2,029.5	2,039.3	1,902.0	1,918.5	1,909.8	-0.5
United States	17,379.7	17,763.5	17,869.2	17,787.7	18,142.4	2.0
<b>Latin America</b>	<b>7,642.9</b>	<b>8,111.2</b>	<b>8,122.5</b>	<b>8,135.0</b>	<b>8,135.0</b>	<b>-</b>
Argentina	626.1	627.1	627.1	630.6	630.6	-
Brazil	1,908.3	1,908.3	1,908.3	1,917.3	1,917.3	-
Colombia	285.9	285.9	290.9	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 <sup>1</sup>	1,542.1	1,583.7	1,580.1	1,617.1	1,523.6	-5.8
Virgin Islands	500.0	500.0	500.0	500.0	500.0	-
<b>Eastern Europe and Eurasia</b>	<b>9,624.9</b>	<b>9,521.8</b>	<b>9,786.9</b>	<b>9,840.1</b>	<b>10,079.5</b>	<b>2.4</b>
Russia	5,428.5	5,428.5	5,430.9	5,430.9	5,500.0	1.3
Others	4,196.4	4,093.3	4,356.0	4,409.2	4,579.5	3.9
<b>Western Europe</b>	<b>15,439.2</b>	<b>15,736.3</b>	<b>15,446.2</b>	<b>14,888.9</b>	<b>14,489.3</b>	<b>-2.7</b>
Belgium	797.6	797.6	740.3	739.8	727.7	-1.6
France	1,986.2	1,986.2	1,843.8	1,718.8	1,747.4	1.7
Germany	2,417.5	2,417.5	2,417.7	2,417.2	2,247.3	-7.0
Italy	2,337.2	2,337.2	2,337.2	2,337.2	2,195.2	-6.1
Netherlands	1,207.7	1,207.7	1,208.6	1,196.6	1,194.7	-0.2
Spain	1,271.5	1,271.5	1,271.5	1,271.5	1,271.5	-
United Kingdom	1,857.7	1,857.7	1,766.2	1,767.2	1,680.1	-4.9
<b>Middle East</b>	<b>7,036.2</b>	<b>7,245.4</b>	<b>7,488.4</b>	<b>7,277.4</b>	<b>7,277.4</b>	<b>-</b>
IR Iran	1,474.0	1,474.0	1,741.0	1,772.0	1,681.0	-5.1
Iraq	658.5	824.0	800.0	800.0	806.0	0.8
Kuwait	936.0	936.0	936.0	936.0	936.0	-
Qatar	80.0	80.0	80.0	80.0	80.0	-
Saudi Arabia	2,135.0	2,109.0	2,109.0	2,107.0	2,107.0	-
United Arab Emirates	466.3	466.3	466.3	466.3	471.3	1.1
<b>Africa</b>	<b>3,278.4</b>	<b>3,278.4</b>	<b>3,278.4</b>	<b>3,289.6</b>	<b>3,289.6</b>	<b>-</b>
Algeria	657.9	652.8	652.8	652.8	694.4	6.4
Angola	38.0	38.0	38.0	37.5	37.5	-
Egypt	726.3	726.3	726.3	726.3	726.3	-
Gabon	24.0	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	-
<b>Asia and Pacific</b>	<b>24,552.4</b>	<b>24,552.4</b>	<b>24,750.3</b>	<b>24,918.4</b>	<b>25,640.4</b>	<b>2.9</b>
China	6,446.0	6,446.0	6,806.0	6,866.0	7,066.0	2.9
India	2,255.5	2,835.5	4,000.5	4,042.8	4,342.8	7.4
Indonesia	1,050.8	1,050.8	1,011.8	1,011.8	1,011.8	-
Japan	4,690.7	4,690.7	4,729.9	4,729.9	4,755.9	0.5
South Korea	2,576.5	2,606.5	2,721.5	2,759.5	2,958.5	7.2
Singapore	1,344.0	1,344.0	1,357.0	1,357.0	1,357.0	-
Chinese Tapei	1,290.0	1,290.0	1,310.0	1,310.0	1,310.0	-
Australia	707.1	724.7	757.2	760.1	760.6	0.1
<b>Total world</b>	<b>86,983.1</b>	<b>88,248.2</b>	<b>88,643.8</b>	<b>88,055.6</b>	<b>88,963.4</b>	<b>1.0</b>
<i>of which</i>						
OPEC	9,001.1	9,177.1	9,416.5	9,482.1	9,350.1	-1.4
<i>OPEC percentage</i>	<i>10.3</i>	<i>10.4</i>	<i>10.6</i>	<i>10.8</i>	<i>10.5</i>	<i>-2.4</i>
OECD	45,365.7	45,819.7	46,280.4	44,958.7	44,903.8	-0.1
FSU	8,015	8,015	8,196	8,209	8,278	0.8

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.

1. Total refinery capacity for Venezuela also includes upgrader refinery data.



## Charge refinery capacity in OPEC Members, 2012 (1,000 b/cd)

	Vacuum distillation	Coking	Thermal operations	Catalytic cracking	Catalytic reforming	Catalytic hydrocracking	Catalytic hydrotreating
Algeria	10.7	–	–	7.1	89.7	–	3.8
Angola	2.5	–	8.7	–	2.4	–	–
Ecuador	45.3	–	31.5	18.0	10.0	–	–
IR Iran	624.0	–	104.0	40.0	197.4	145.0	–
Iraq	121.1	–	–	–	77.6	38.0	–
Kuwait	341.8	–	80.0	43.0	54.6	204.5	243.9
Libya	–	–	–	–	17.9	–	–
Nigeria	132.2	–	–	86.0	73.5	–	–
Qatar	–	–	–	28.0	14.1	–	33.0
Saudi Arabia	–	–	–	–	–	–	–
United Arab Emirates	60.0	–	–	–	45.2	27.0	168.0
Venezuela	494.4	–	123.0	206.1	67.1	–	131.5
<b>OPEC</b>	<b>1,832.0</b>	<b>–</b>	<b>347.3</b>	<b>428.2</b>	<b>649.5</b>	<b>414.5</b>	<b>580.2</b>

**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. 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)

	2008	2009	2010	2011	2012	% change 12/11
<b>Algeria</b>	<b>516.5</b>	<b>411.6</b>	<b>631.5</b>	<b>501.3</b>	<b>451.5</b>	<b>-9.9</b>
Gasoline	60.9	60.9	69.5	51.3	50.8	-1.1
Kerosene	21.6	57.2	34.1	24.3	24.3	-
Distillates	178.0	166.5	180.7	154.3	126.4	-18.1
Residuals	121.6	92.6	118.7	117.0	86.7	-25.9
Others	134.5	34.3	228.5	154.4	163.3	5.8
<b>Angola</b>	<b>47.8</b>	<b>46.2</b>	<b>47.0</b>	<b>39.4</b>	<b>38.7</b>	<b>-1.8</b>
Gasoline	1.8	0.9	1.3	1.3	1.5	15.2
Kerosene	7.0	10.0	8.5	7.0	7.8	10.8
Distillates	10.8	10.4	10.6	10.6	10.8	1.5
Residuals	11.0	13.7	12.4	16.4	16.3	-0.5
Others	17.2	11.2	14.2	4.1	2.4	-42.1
<b>Ecuador</b>	<b>194.3</b>	<b>189.3</b>	<b>185.1</b>	<b>217.3</b>	<b>132.9</b>	<b>-38.9</b>
Gasoline	44.7	46.1	41.4	55.3	28.3	-48.7
Kerosene	8.5	8.2	8.1	8.3	8.2	-0.7
Distillates	32.9	35.6	32.8	37.9	42.1	11.0
Residuals	65.0	66.9	60.1	67.8	32.6	-51.9
Others	43.2	32.5	42.7	48.0	21.6	-55.0
<b>IR Iran</b>	<b>1,587.0</b>	<b>1,726.1</b>	<b>1,743.3</b>	<b>1,770.2</b>	<b>1,774.8</b>	<b>0.3</b>
Gasoline	306.3	332.6	346.3	330.0	344.4	4.4
Kerosene	159.5	119.2	130.2	116.9	124.5	6.5
Distillates	503.1	556.3	565.5	598.1	1,068.9	78.7
Residuals	462.2	494.4	472.0	487.2	99.5	-79.6
Others	155.9	223.7	229.3	238.0	137.4	-42.3
<b>Iraq</b>	<b>453.2</b>	<b>456.6</b>	<b>513.2</b>	<b>613.2</b>	<b>580.4</b>	<b>-5.3</b>
Gasoline	59.9	60.1	71.8	75.4	76.4	1.2
Kerosene	46.7	47.8	51.5	87.4	44.5	-49.1
Distillates	83.7	85.5	102.2	130.1	127.6	-1.9
Residuals	209.5	210.9	246.5	217.2	282.4	30.1
Others	53.3	52.2	41.2	103.2	36.3	-52.0
<b>Kuwait</b>	<b>1,003.2</b>	<b>892.7</b>	<b>979.4</b>	<b>881.9</b>	<b>1,057.0</b>	<b>19.9</b>
Gasoline	54.2	55.7	54.9	56.9	52.4	-7.9
Kerosene	171.8	182.6	182.6	176.9	180.8	2.2
Distillates	243.3	300.6	243.5	244.8	227.6	-7.0
Residuals	184.8	144.4	204.8	180.2	199.8	10.9
Others	349.1	209.4	293.7	223.1	396.4	77.7

**Table 3.13**

Oil and gas data

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

	2008	2009	2010	2011	2012	% change 12/11
<b>Libya</b>	<b>352.6</b>	<b>350.0</b>	<b>368.3</b>	<b>341.3</b>	<b>149.2</b>	<b>-56.3</b>
Gasoline	18.2	17.6	16.2	17.7	15.1	-15.1
Kerosene	34.3	41.9	43.3	47.5	16.2	-65.9
Distillates	84.4	89.4	96.4	78.8	46.2	-41.3
Residuals	141.2	131.3	141.1	137.0	41.4	-69.8
Others	74.5	69.9	71.3	60.3	30.3	-49.7
<b>Nigeria</b>	<b>80.0</b>	<b>41.4</b>	<b>87.7</b>	<b>100.3</b>	<b>82.4</b>	<b>-17.8</b>
Gasoline	12.0	10.5	23.9	29.7	27.4	-7.7
Kerosene	43.4	7.0	13.7	16.0	12.9	-19.3
Distillates	21.3	22.9	20.6	46.9	37.2	-20.7
Residuals	0.4	0.2	24.1	4.0	2.3	-44.3
Others	2.9	0.9	5.3	3.6	2.6	-28.9
<b>Qatar</b>	<b>126.2</b>	<b>126.3</b>	<b>133.0</b>	<b>127.0</b>	<b>122.7</b>	<b>-3.4</b>
Gasoline	44.6	40.7	44.5	43.5	42.3	-2.8
Kerosene	24.2	22.8	24.6	23.3	23.3	-
Distillates	24.3	31.8	27.5	27.4	31.9	16.6
Residuals	3.9	4.2	4.8	3.7	3.8	1.8
Others	29.3	26.8	31.6	29.0	21.4	-26.2
<b>Saudi Arabia</b>	<b>1,970.9</b>	<b>1,911.0</b>	<b>1,914.0</b>	<b>1,856.7</b>	<b>1,927.1</b>	<b>3.8</b>
Gasoline	338.8	355.1	375.6	390.6	398.6	2.0
Kerosene	190.4	174.0	168.2	166.4	174.3	4.8
Distillates	676.1	623.8	633.5	628.5	639.7	1.8
Residuals	476.5	497.6	445.4	416.9	508.4	21.9
Others	289.2	260.5	291.3	254.3	206.1	-18.9
<b>United Arab Emirates</b>	<b>395.9</b>	<b>314.9</b>	<b>355.4</b>	<b>446.2</b>	<b>454.3</b>	<b>1.8</b>
Gasoline	50.6	35.6	43.1	57.3	65.3	14.0
Kerosene	106.4	97.0	101.7	134.8	147.8	9.7
Distillates	86.0	73.1	79.5	99.8	85.8	-14.1
Residuals	16.5	15.3	15.9	18.3	15.8	-14.1
Others	136.5	93.9	115.2	136.0	139.7	2.7
<b>Venezuela</b>	<b>1,142.7</b>	<b>1,232.4</b>	<b>1,089.1</b>	<b>1,472.0</b>	<b>1,568.7</b>	<b>6.6</b>
Gasoline	309.3	307.5	306.1	441.0	427.0	-3.2
Kerosene	78.7	79.2	72.4	101.6	96.2	-5.3
Distillates	316.5	339.2	326.7	342.5	328.2	-4.2
Residuals	286.4	308.8	256.3	431.4	428.4	-0.7
Others	151.9	197.7	127.6	155.5	288.9	85.8

**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.

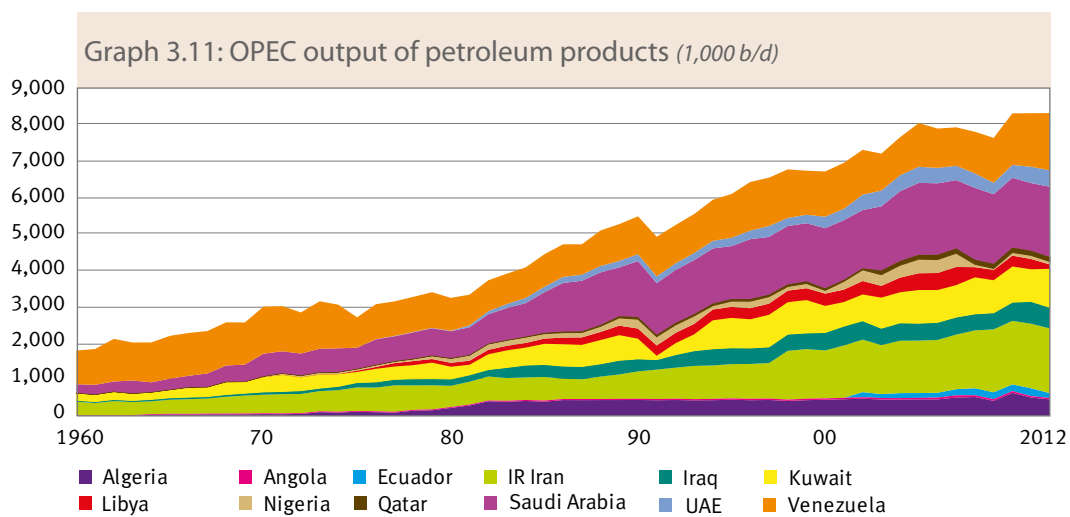
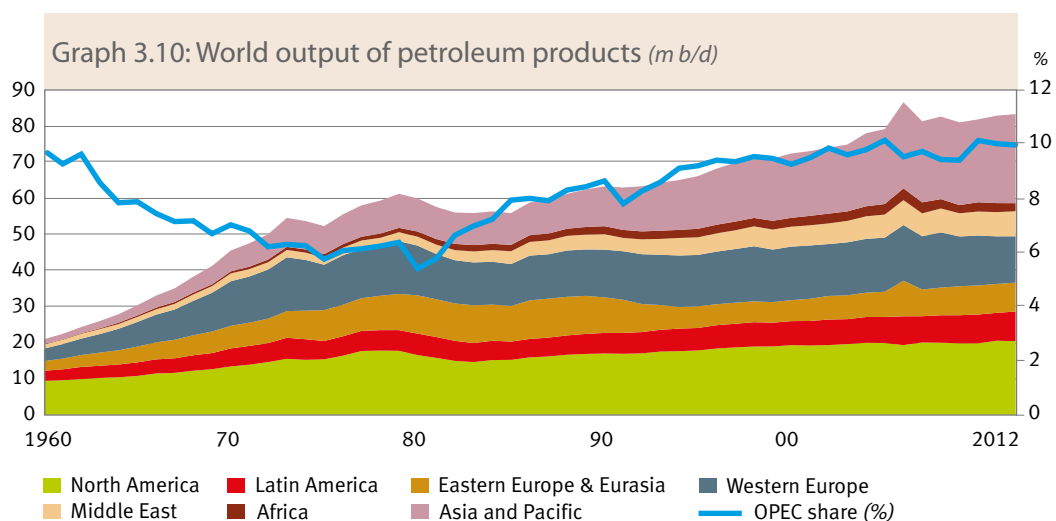
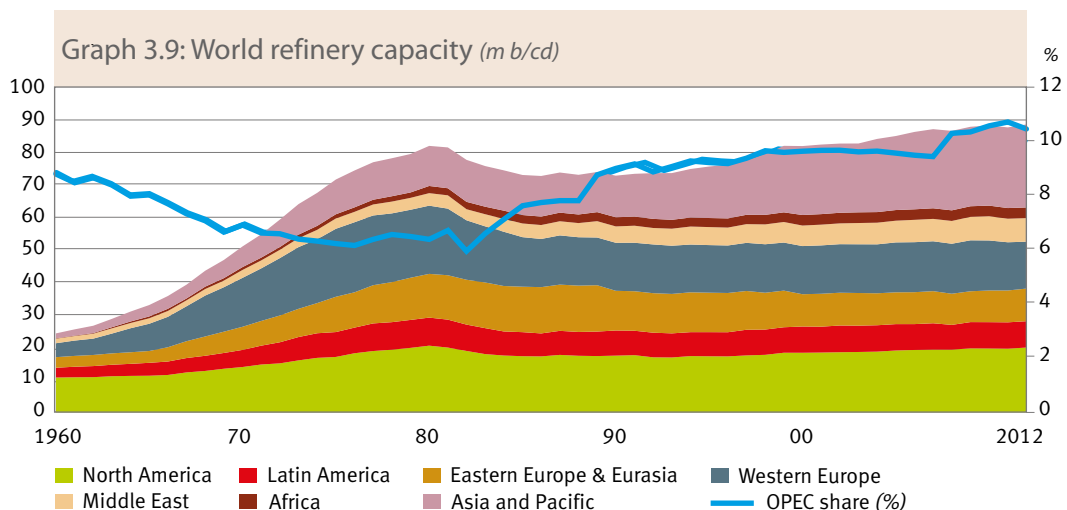
**Table 3.14**

Oil and gas data

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

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>19,977.6</b>	<b>19,806.6</b>	<b>19,815.6</b>	<b>20,526.9</b>	<b>20,397.3</b>	<b>-0.6</b>
Canada	2,006.4	1,944.1	1,947.1	1,890.8	1,906.9	0.9
United States	17,971.2	17,862.5	17,868.4	18,636.1	18,490.3	-0.8
<b>Latin America</b>	<b>7,605.6</b>	<b>7,786.5</b>	<b>7,980.6</b>	<b>7,737.3</b>	<b>8,208.7</b>	<b>6.1</b>
Argentina	673.4	612.7	620.1	422.3	650.8	54.1
Brazil	1,941.9	1,952.3	1,956.7	1,884.0	2,064.0	9.6
Ecuador	194.3	189.3	185.1	217.3	132.9	-38.9
Mexico	1,434.1	1,514.9	1,516.7	1,409.9	1,416.1	0.4
Venezuela	1,142.7	1,232.4	1,089.1	1,472.0	1,568.7	6.6
Virgin Islands	457.7	462.9	463.0	466.5	470.0	0.7
Others	1,761.4	1,821.9	2,149.8	1,865.2	1,906.3	2.2
<b>Eastern Europe and Eurasia</b>	<b>7,676.3</b>	<b>8,036.6</b>	<b>8,055.9</b>	<b>8,009.3</b>	<b>8,016.5</b>	<b>0.1</b>
Bulgaria	149.8	138.3	145.0	124.1	136.1	9.7
Romania	287.3	253.7	256.5	221.1	206.6	-6.6
Russia	6,357.1	6,425.1	6,428.8	6,432.4	6,436.1	0.1
Others	882.0	1,219.6	1,225.6	1,231.7	1,237.7	0.5
<b>Western Europe</b>	<b>15,289.7</b>	<b>13,796.0</b>	<b>13,834.7</b>	<b>13,186.5</b>	<b>12,858.0</b>	<b>-2.5</b>
Belgium	815.0	691.3	695.3	665.0	714.6	7.5
France	1,846.3	1,659.0	1,662.8	1,525.8	1,296.3	-15.0
Germany	2,534.8	2,257.8	2,259.1	2,099.4	2,110.8	0.5
Italy	2,093.2	1,754.3	1,759.6	1,706.4	1,607.3	-5.8
Netherlands	1,606.2	1,414.6	1,414.9	1,217.4	1,208.8	-0.7
Norway	348.2	312.6	317.0	317.6	314.3	-1.0
Portugal	278.8	225.9	228.4	219.6	231.1	5.2
Spain	1,250.3	1,186.8	1,193.6	1,145.3	1,236.4	8.0
United Kingdom	1,740.1	1,547.3	1,548.4	1,551.9	1,417.8	-8.6
Others	2,776.9	2,746.4	2,755.4	2,738.1	2,720.7	-0.6
<b>Middle East</b>	<b>6,643.1</b>	<b>6,437.3</b>	<b>6,652.8</b>	<b>6,714.7</b>	<b>6,940.6</b>	<b>3.4</b>
IR Iran	1,587.0	1,726.1	1,743.3	1,770.2	1,774.8	0.3
Iraq	453.2	456.6	513.2	613.2	580.4	-5.3
Kuwait	1,003.2	892.7	979.4	881.9	1,057.0	19.9
Qatar	126.2	126.3	133.0	127.0	122.7	-3.4
Saudi Arabia	1,970.9	1,911.0	1,914.0	1,856.7	1,927.1	3.8
United Arab Emirates	395.9	314.9	355.4	446.2	454.3	1.8
Others	1,106.7	1,009.7	1,014.6	1,019.4	1,024.3	0.5
<b>Africa</b>	<b>2,589.3</b>	<b>2,267.9</b>	<b>2,565.6</b>	<b>2,504.4</b>	<b>2,231.0</b>	<b>-10.9</b>
Algeria	516.5	411.6	631.5	501.3	451.5	-9.9
Angola	47.8	46.2	47.0	39.4	38.7	-1.8
Egypt	558.8	479.8	480.9	548.3	544.0	-0.8
Gabon	18.1	13.4	18.0	22.6	27.2	20.4
Libya	279.1	281.7	298.2	281.8	149.2	-56.3
Nigeria	80.0	41.4	87.7	100.3	82.4	-17.8
Others	1,089.2	993.8	1,002.3	1,010.8	937.9	-4.3
<b>Asia and Pacific</b>	<b>22,883.6</b>	<b>22,934.0</b>	<b>22,989.9</b>	<b>24,247.9</b>	<b>24,690.6</b>	<b>1.8</b>
Australia	667.2	657.8	661.0	662.3	662.9	0.1
China	6,962.8	7,542.3	7,548.6	8,969.6	9,175.5	2.3
India	3,171.2	3,161.2	3,166.9	3,347.7	3,487.1	4.2
Indonesia	1,184.1	1,184.1	1,190.7	972.6	900.3	-7.4
Japan	4,262.0	3,956.8	3,963.8	3,755.4	3,748.1	-0.2
Philippines	184.1	146.7	152.6	188.6	178.0	-5.6
Singapore	1,106.8	1,054.8	1,056.1	1,057.4	1,058.8	0.1
South Korea	2,567.8	2,498.8	2,499.1	2,712.9	2,811.4	3.6
New Zealand	107.2	105.0	113.9	114.8	116.8	1.8
Chinese Tapei	1,002.3	1,035.2	1,044.7	873.1	957.2	9.6
Others	1,668.1	1,591.4	1,592.4	1,593.5	1,594.6	0.1
<b>Total world</b>	<b>82,665.2</b>	<b>81,064.8</b>	<b>81,895.1</b>	<b>82,927.0</b>	<b>83,342.7</b>	<b>0.5</b>
<i>of which</i>						
OPEC	7,797	7,630	8,303	8,307	8,310	-
<i>OPEC percentage</i>	<i>9.4</i>	<i>9.4</i>	<i>10.1</i>	<i>10.0</i>	<i>10.0</i>	<i>-0.5</i>
OECD	44,079	42,653	44,452	42,712	40,973	-4.1
FSU	6,983	7,019	7,024	7,129	7,234	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. Data may include production of gas plants, GTL, upgrader and condensate refineries.



**Table 3.15**

Oil and gas data

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

	2008	2009	2010	2011	2012	% change 12/11
<b>Algeria</b>	<b>309.6</b>	<b>315.4</b>	<b>343.6</b>	<b>329.5</b>	<b>351.1</b>	<b>6.6</b>
Gasoline	52.4	54.7	68.3	67.4	79.3	17.8
Kerosene	8.9	9.6	9.9	10.1	11.2	10.2
Distillates	160.0	164.3	184.4	177.1	187.5	5.9
Residuals	9.3	5.0	5.2	4.0	4.0	-0.2
Others	79.0	81.9	75.8	70.8	69.1	-2.4
<b>Angola</b>	<b>80.8</b>	<b>81.6</b>	<b>87.9</b>	<b>89.6</b>	<b>93.7</b>	<b>4.6</b>
Gasoline	19.3	19.5	20.8	21.2	21.8	3.1
Kerosene	5.4	5.4	5.8	6.0	4.1	-32.9
Distillates	41.5	42.4	46.0	46.5	50.7	9.1
Residuals	7.2	6.6	6.8	7.2	7.9	9.5
Others	7.4	7.6	8.5	8.7	9.2	6.0
<b>Ecuador</b>	<b>197.3</b>	<b>222.4</b>	<b>241.7</b>	<b>257.9</b>	<b>263.9</b>	<b>2.3</b>
Gasoline	36.7	39.3	42.4	44.4	49.8	12.3
Kerosene	7.3	7.5	7.5	7.5	7.3	-3.0
Distillates	64.5	74.3	84.4	81.6	79.5	-2.5
Residuals	40.5	49.6	49.3	58.8	60.1	2.3
Others	48.4	51.8	58.0	65.7	67.2	2.3
<b>IR Iran</b>	<b>1,813.8</b>	<b>1,858.8</b>	<b>1,820.4</b>	<b>1,784.3</b>	<b>1,764.7</b>	<b>-1.1</b>
Gasoline	414.4	423.1	399.6	372.3	393.4	5.7
Kerosene	181.5	206.6	184.6	142.1	104.2	-26.7
Distillates	551.7	560.0	547.5	592.2	618.1	4.4
Residuals	384.2	386.3	400.5	378.3	342.7	-9.4
Others	282.0	282.8	288.2	299.5	306.2	2.2
<b>Iraq</b>	<b>600.2</b>	<b>662.6</b>	<b>693.9</b>	<b>751.7</b>	<b>802.8</b>	<b>6.8</b>
Gasoline	94.8	99.3	115.2	129.0	136.9	6.1
Kerosene	62.1	66.1	67.4	66.5	64.8	-2.6
Distillates	108.5	108.8	109.9	139.4	156.4	12.1
Residuals	118.5	129.7	143.7	154.0	158.9	3.2
Others	216.3	258.7	257.6	262.8	285.8	8.8
<b>Kuwait</b>	<b>324.0</b>	<b>340.6</b>	<b>358.2</b>	<b>361.0</b>	<b>377.0</b>	<b>4.4</b>
Gasoline	55.2	56.9	62.9	59.1	62.6	6.0
Kerosene	15.7	17.4	17.7	18.1	19.0	5.0
Distillates	43.2	56.1	58.4	51.8	54.1	4.5
Residuals	152.4	124.6	123.6	133.7	135.0	1.0
Others	57.6	85.6	95.5	98.4	106.2	8.0
<b>Libya</b>	<b>253.2</b>	<b>272.9</b>	<b>301.1</b>	<b>231.3</b>	<b>236.5</b>	<b>2.2</b>
Gasoline	64.7	66.8	75.9	97.8	72.9	-25.4
Kerosene	11.6	12.3	13.8	9.1	17.3	90.6
Distillates	88.8	104.9	115.5	82.9	70.2	-15.3
Residuals	43.8	51.3	57.8	25.3	45.8	81.1
Others	44.2	37.5	38.1	16.3	30.3	85.6

**Table 3.15**

Oil and gas data

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

	2008	2009	2010	2011	2012	% change 12/11
<b>Nigeria</b>	<b>242.8</b>	<b>233.4</b>	<b>270.6</b>	<b>311.4</b>	<b>343.6</b>	<b>10.4</b>
Gasoline	163.0	168.2	191.5	215.3	241.3	12.1
Kerosene	34.8	25.3	30.6	43.6	47.7	9.3
Distillates	30.0	28.2	35.8	43.3	45.1	4.1
Residuals	14.3	10.9	11.9	8.2	8.6	4.9
Others	0.8	0.8	0.8	0.9	1.0	3.0
<b>Qatar</b>	<b>103.8</b>	<b>108.2</b>	<b>118.3</b>	<b>124.9</b>	<b>126.0</b>	<b>0.9</b>
Gasoline	22.3	24.7	25.1	26.9	31.5	17.4
Kerosene	18.4	19.7	24.9	31.1	33.1	6.2
Distillates	36.3	36.3	38.9	44.1	38.7	-12.2
Residuals	-	-	-	-	-	-
Others	26.8	27.5	29.4	22.8	22.7	-0.6
<b>Saudi Arabia</b>	<b>2,252.5</b>	<b>2,362.4</b>	<b>2,599.5</b>	<b>2,727.1</b>	<b>2,872.7</b>	<b>5.3</b>
Gasoline	373.5	397.6	414.7	445.1	480.7	8.0
Kerosene	61.8	60.9	63.7	65.5	67.7	3.3
Distillates	577.8	605.0	618.9	651.0	710.8	9.2
Residuals	363.8	275.5	275.4	310.9	318.8	2.5
Others	875.5	1,023.4	1,226.8	1,254.5	1,294.8	3.2
<b>United Arab Emirates</b>	<b>597.8</b>	<b>565.3</b>	<b>591.1</b>	<b>617.9</b>	<b>638.2</b>	<b>3.3</b>
Gasoline	86.9	91.3	96.1	105.5	111.3	5.6
Kerosene	85.0	94.2	98.0	102.1	107.4	5.2
Distillates	98.8	96.1	97.0	92.4	92.5	0.1
Residuals	293.9	250.2	265.7	282.9	290.8	2.8
Others	33.2	33.5	34.3	35.0	36.1	3.2
<b>Venezuela</b>	<b>650.2</b>	<b>679.6</b>	<b>675.1</b>	<b>741.7</b>	<b>786.3</b>	<b>6.0</b>
Gasoline	286.9	289.9	290.0	292.9	301.8	3.0
Kerosene	5.4	5.7	6.5	5.7	7.5	31.4
Distillates	149.7	153.4	169.0	182.8	217.8	19.2
Residuals	45.2	64.5	62.1	63.4	46.9	-26.1
Others	163.1	166.1	147.5	196.9	212.2	7.8
<b>OPEC</b>	<b>7,426.0</b>	<b>7,703.2</b>	<b>8,101.2</b>	<b>8,328.3</b>	<b>8,656.5</b>	<b>3.9</b>
Gasoline	1,670.1	1,731.2	1,802.4	1,876.7	1,983.5	5.7
Kerosene	497.9	530.6	530.5	507.6	491.2	-3.2
Distillates	1,950.7	2,029.9	2,105.7	2,185.1	2,321.4	6.2
Residuals	1,473.0	1,354.2	1,402.1	1,426.7	1,419.6	-0.5
Others	1,834.2	2,057.2	2,260.5	2,332.3	2,440.8	4.7

Notes: Revisions have been made throughout the time series.

**Table 3.16**

Oil and gas data

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

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>22,017.0</b>	<b>21,220.5</b>	<b>21,736.6</b>	<b>21,540.0</b>	<b>21,201.4</b>	<b>-1.6</b>
Canada	2,224.8	2,152.6	2,257.5	2,289.3	2,291.4	0.1
United States	19,789.6	19,065.3	19,476.5	19,248.2	18,907.6	-1.8
Others	2.6	2.6	2.6	2.5	2.5	-0.7
<b>Latin America</b>	<b>8,022.1</b>	<b>8,044.4</b>	<b>8,248.1</b>	<b>8,554.2</b>	<b>8,798.7</b>	<b>2.9</b>
Argentina	595.2	600.2	631.4	652.3	666.7	2.2
Brazil	2,518.4	2,572.1	2,714.2	2,797.6	2,887.6	3.2
Colombia	273.9	276.1	277.8	283.3	289.3	2.1
Ecuador	197.3	222.4	241.7	257.9	263.9	2.3
Mexico	2,161.1	2,070.6	2,080.4	2,157.9	2,191.4	1.6
Venezuela	650.2	679.6	675.1	741.7	786.3	6.0
Others	1,625.9	1,623.5	1,627.5	1,663.4	1,713.6	3.0
<b>Eastern Europe and Eurasia</b>	<b>5,435.9</b>	<b>5,293.9</b>	<b>5,472.8</b>	<b>5,612.6</b>	<b>5,680.2</b>	<b>1.2</b>
Czech Republic	215.3	205.4	201.4	199.0	199.0	0.0
Hungary	158.8	158.1	149.1	141.3	128.8	-8.9
Kazakhstan	266.5	253.4	261.8	271.5	275.5	1.5
Poland	533.6	537.6	560.1	578.5	538.0	-7.0
Romania	194.5	176.1	165.6	163.3	166.8	2.1
Russia	3,036.3	2,935.7	3,199.3	3,306.1	3,405.2	3.0
Slovakia	86.0	80.5	83.6	83.8	74.5	-11.0
Ukraine	322.5	288.3	256.1	256.1	260.2	1.6
Others	622.5	658.8	595.9	613.0	632.0	3.1
<b>Western Europe</b>	<b>14,798.8</b>	<b>14,064.3</b>	<b>13,999.9</b>	<b>13,641.8</b>	<b>13,127.6</b>	<b>-3.8</b>
France	1,945.5	1,868.4	1,831.4	1,791.7	1,738.4	-3.0
Germany	2,542.3	2,453.0	2,469.8	2,400.0	2,388.2	-0.5
Italy	1,666.7	1,544.1	1,544.6	1,453.8	1,310.0	-9.9
Netherlands	1,068.6	1,005.2	1,019.8	1,009.9	997.9	-1.2
Spain	1,546.9	1,467.2	1,440.9	1,383.5	1,288.9	-6.8
United Kingdom	1,726.9	1,641.4	1,630.4	1,607.9	1,518.6	-5.6
Others	4,301.8	4,084.9	4,062.9	3,995.1	3,885.6	-2.7
<b>Middle East</b>	<b>6,924.9</b>	<b>7,096.1</b>	<b>7,368.6</b>	<b>7,599.3</b>	<b>7,882.1</b>	<b>3.7</b>
IR Iran	1,813.8	1,858.8	1,820.4	1,784.3	1,764.7	-1.1
Iraq	600.2	662.6	693.9	751.7	802.8	6.8
Kuwait	324.0	340.6	358.2	361.0	377.0	4.4
Qatar	103.8	108.2	118.3	124.9	126.0	0.9
Saudi Arabia	2,252.5	2,362.4	2,599.5	2,727.1	2,872.7	5.3
Syrian Arab Republic	393.9	347.2	320.1	313.5	307.6	-1.9
United Arab Emirates	597.8	565.3	591.1	617.9	638.2	3.3
Others	838.9	851.0	867.3	918.8	993.2	8.1
<b>Africa</b>	<b>3,182.1</b>	<b>3,228.8</b>	<b>3,348.8</b>	<b>3,375.1</b>	<b>3,424.3</b>	<b>1.5</b>
Algeria	309.6	315.4	343.6	329.5	351.1	6.6
Angola	80.8	81.6	87.9	89.6	93.7	4.6
Egypt	697.7	702.6	716.4	751.1	742.5	-1.1
Libya	253.2	272.9	301.1	231.3	236.5	2.2
Nigeria	242.8	233.4	270.6	311.4	343.6	10.4
South Africa	532.5	540.7	526.7	556.8	543.7	-2.4
Tunisia	84.0	85.2	86.8	87.4	89.5	2.3
Others	981.6	996.9	1,015.7	1,018.0	1,023.7	0.6
<b>Asia and Pacific</b>	<b>25,687.1</b>	<b>25,832.4</b>	<b>27,012.4</b>	<b>27,780.8</b>	<b>28,754.2</b>	<b>3.5</b>
Australia	986.0	975.2	983.1	1,018.6	1,039.3	2.0
China	7,971.5	8,253.9	8,951.2	9,409.9	9,739.0	3.5
India	3,071.8	3,231.1	3,305.9	3,432.6	3,649.4	6.3
Indonesia	1,247.5	1,285.8	1,332.5	1,370.6	1,405.7	2.6
Japan	4,798.4	4,414.7	4,464.9	4,480.6	4,728.4	5.5
New Zealand	157.2	150.7	152.5	148.7	152.0	2.2
South Korea	2,142.2	2,188.2	2,268.4	2,230.3	2,268.3	1.7
Thailand	911.2	931.1	955.8	998.6	1,041.9	4.3
Others	4,401.4	4,401.8	4,598.0	4,690.8	4,730.2	0.8
<b>Total world</b>	<b>86,067.8</b>	<b>84,780.4</b>	<b>87,187.2</b>	<b>88,103.8</b>	<b>88,868.5</b>	<b>0.9</b>
<i>of which</i>						
OPEC	7,426.0	7,703.2	8,101.2	8,328.3	8,656.5	3.9
<i>OPEC percentage</i>	<i>8.6</i>	<i>9.1</i>	<i>9.3</i>	<i>9.5</i>	<i>9.7</i>	<i>3.0</i>
OECD	48,337.2	46,333.1	46,930.9	46,491.8	45,980.4	-1.1
FSU	4,106.9	3,999.9	4,183.1	4,317.9	4,442.4	2.9

Notes: Revisions have been made throughout the time series.

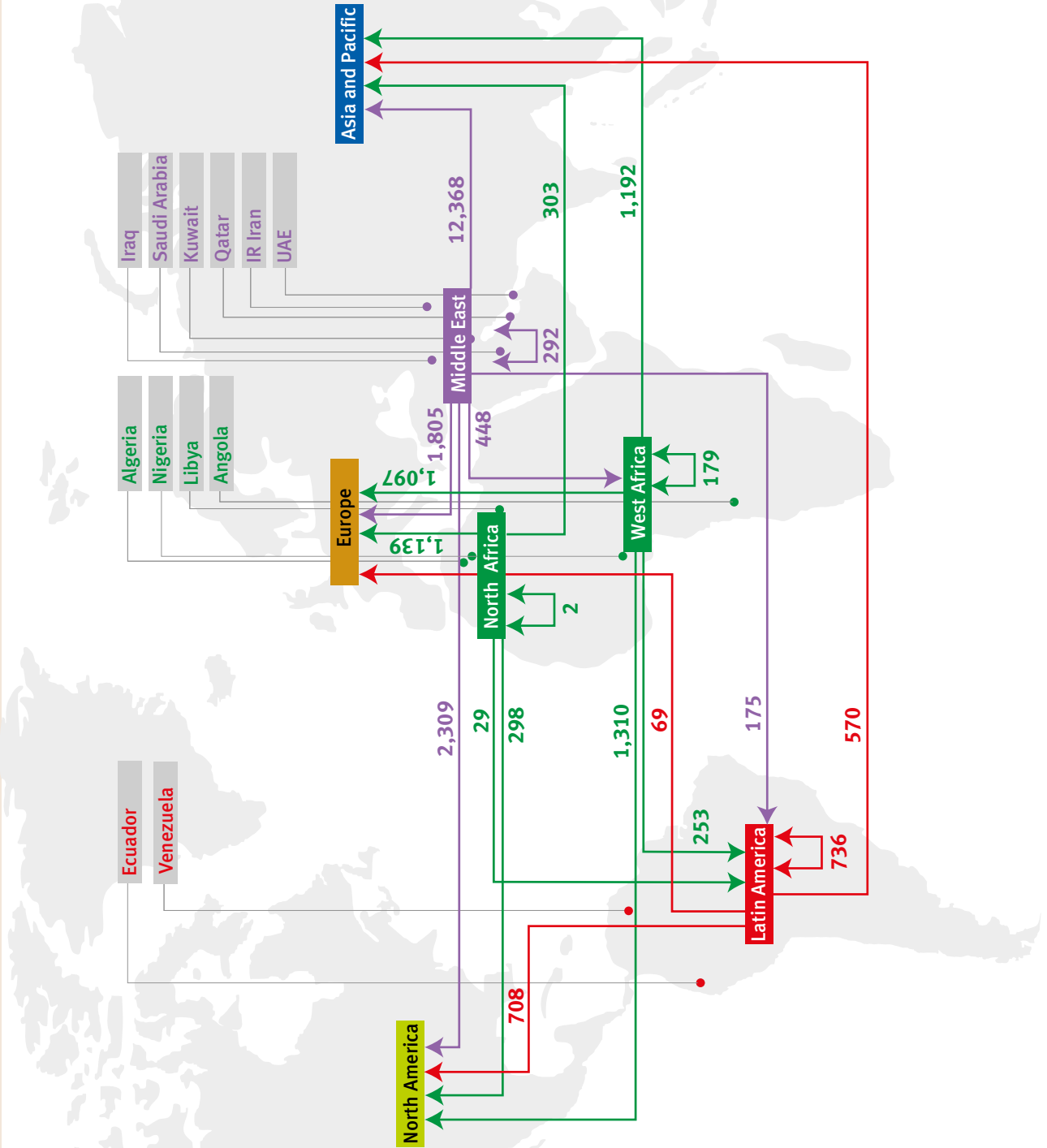


OPEC Members' crude oil exports by destination (1,000 b/d), 2012

	Total world	Europe	North America	Asia and Pacific	Latin America	Africa	Middle East
<b>Middle East</b>	<b>17,397</b>	<b>1,805</b>	<b>2,309</b>	<b>12,368</b>	<b>175</b>	<b>448</b>	<b>292</b>
IR Iran	2,102	162	–	1,839	–	101	–
Iraq	2,423	547	559	1,205	105	–	7
Kuwait	2,070	99	220	1,699	–	52	–
Qatar	588	–	–	586	2	–	–
Saudi Arabia	7,557	991	1,423	4,577	68	216	281
United Arab Emirates	2,657	7	106	2,461	–	79	4
<b>North Africa</b>	<b>1,771</b>	<b>1,139</b>	<b>298</b>	<b>303</b>	<b>29</b>	<b>2</b>	<b>–</b>
Algeria	809	424	263	92	29	–	–
Libya	962	715	34	211	–	2	–
<b>West Africa</b>	<b>4,031</b>	<b>1,097</b>	<b>1,310</b>	<b>1,192</b>	<b>253</b>	<b>179</b>	<b>–</b>
Angola	1,663	353	86	1,101	47	76	–
Nigeria	2,368	744	1,224	91	206	103	–
<b>Latin America</b>	<b>2,082</b>	<b>69</b>	<b>708</b>	<b>570</b>	<b>736</b>	<b>–</b>	<b>–</b>
Ecuador	358	–	229	21	108	–	–
Venezuela	1,725	69	479	550	628	–	–
<b>OPEC</b>	<b>25,281</b>	<b>4,110</b>	<b>4,625</b>	<b>14,433</b>	<b>1,193</b>	<b>629</b>	<b>292</b>

**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, 2012 (1,000 b/d)



**Table 3.18**

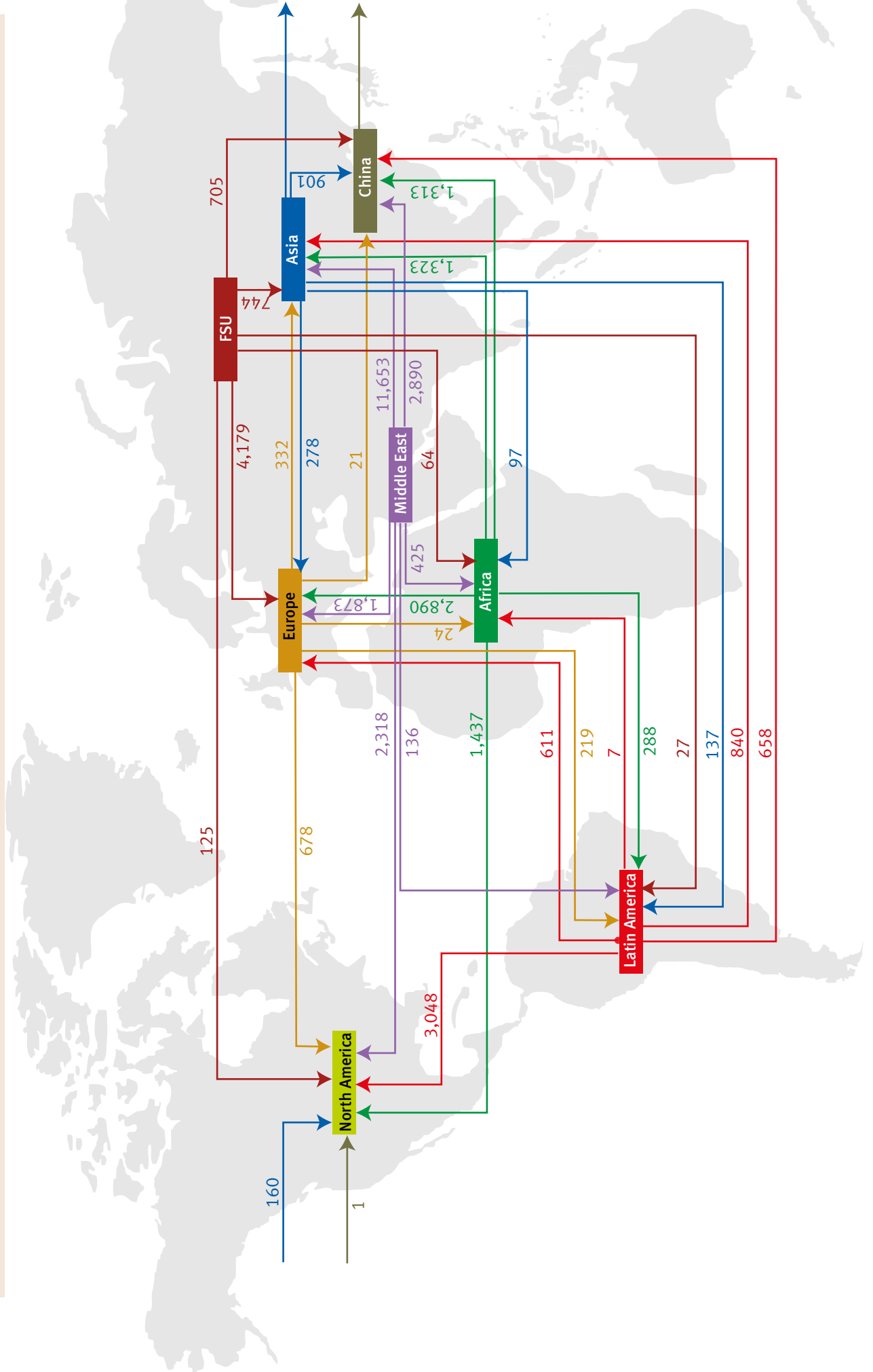
Oil and gas data

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

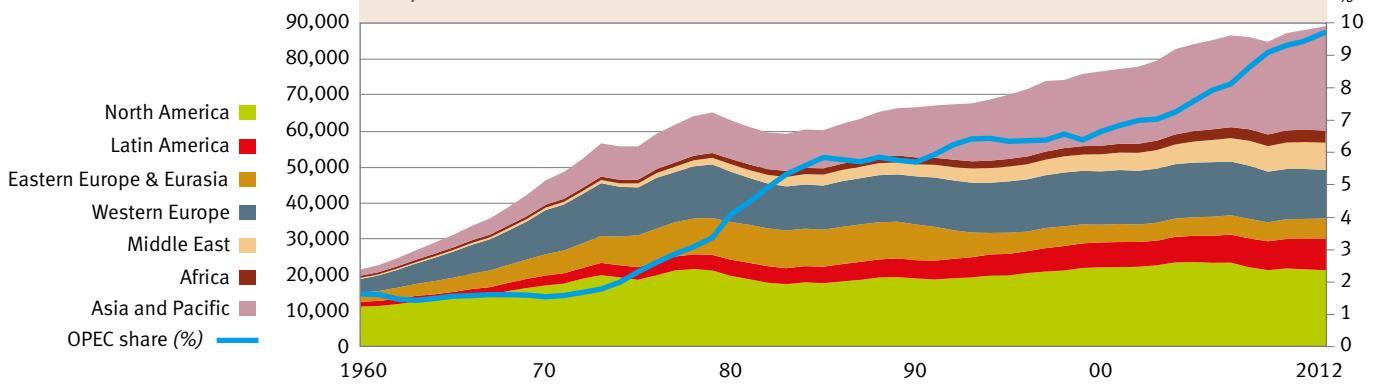
	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>1,564</b>	<b>1,535</b>	<b>1,431</b>	<b>1,735</b>	<b>1,817</b>	<b>4.7</b>
Canada	1,525	1,491	1,388	1,688	1,757	4.1
United States	39	44	44	47	60	27.0
<b>Latin America</b>	<b>4,479</b>	<b>4,271</b>	<b>4,203</b>	<b>4,566</b>	<b>4,625</b>	<b>1.3</b>
Columbia	346	358	482	399	315	-21.0
Ecuador	348	329	340	334	358	7.2
Mexico	1,446	1,312	1,459	1,420	1,333	-6.1
Trinidad & Tobago	10	9	44	40	31	-22.2
Venezuela	1,770	1,608	1,562	1,553	1,725	11.0
Others	559	655	316	821	864	5.2
<b>Eastern Europe and Eurasia</b>	<b>5,058</b>	<b>5,630</b>	<b>5,632</b>	<b>5,809</b>	<b>5,886</b>	<b>1.3</b>
Russia	5,046	5,608	5,609	5,786	5,857	1.2
Others	12	22	23	23	29	24.0
<b>Western Europe</b>	<b>2,786</b>	<b>2,775</b>	<b>2,451</b>	<b>2,248</b>	<b>2,113</b>	<b>-6.0</b>
Norway	1,702	1,773	1,605	1,423	1,303	-8.4
United Kingdom	840	776	741	563	576	2.3
Others	243	226	105	262	234	-10.7
<b>Middle East</b>	<b>17,575</b>	<b>15,498</b>	<b>16,322</b>	<b>17,742</b>	<b>18,446</b>	<b>4.0</b>
IR Iran	2,574	2,406	2,583	2,537	2,102	-17.2
Iraq	1,855	1,906	1,890	2,166	2,423	11.9
Kuwait	1,739	1,348	1,430	1,816	2,070	14.0
Oman	593	574	745	738	768	4.1
Qatar	703	647	586	588	588	0.1
Saudi Arabia	7,322	6,268	6,644	7,218	7,557	4.7
Syrian Arab Republic	253	250	149	114	-	-100.0
United Arab Emirates	2,334	1,953	2,103	2,330	2,657	14.1
Others	203	147	191	236	280	18.8
<b>Africa</b>	<b>6,397</b>	<b>6,771</b>	<b>6,613</b>	<b>5,355</b>	<b>6,182</b>	<b>15.4</b>
Algeria	841	747	709	698	809	15.9
Angola	1,044	1,770	1,683	1,543	1,663	7.8
Cameroon	99	89	79	68	58	-15.5
Congo	240	216	180	145	115	-20.7
Egypt	98	102	87	83	91	9.2
Gabon	209	188	158	127	102	-20.1
Libya	1,403	1,170	1,118	300	962	221.2
Nigeria	2,098	2,160	2,464	2,377	2,368	-0.4
Others	364	327	136	15	15	0.6
<b>Asia and Pacific</b>	<b>1,743</b>	<b>1,613</b>	<b>1,506</b>	<b>1,399</b>	<b>1,384</b>	<b>-1.1</b>
Australia	239	248	314	272	263	-3.3
Brunei	164	152	161	170	179	5.4
China	107	104	40	51	49	-3.5
Indonesia	294	250	356	301	300	-0.4
Malaysia	402	372	369	260	268	3.1
Vietnam	206	202	153	104	110	5.6
Others	330	284	112	242	215	-11.0
<b>Total world</b>	<b>39,602</b>	<b>38,093</b>	<b>38,158</b>	<b>38,854</b>	<b>40,452</b>	<b>4.1</b>
<i>of which</i>						
OPEC	24,031.7	22,312.7	23,112.1	23,457.4	25,281.4	7.8
<i>OPEC percentage</i>	<i>60.7</i>	<i>58.6</i>	<i>60.6</i>	<i>60.4</i>	<i>62.5</i>	<i>2.1</i>
OECD	5,048	5,013	4,772	5,662	5,798	2.4
FSU	6,471	6,653	6,750	6,500	6,681	2.8

**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.

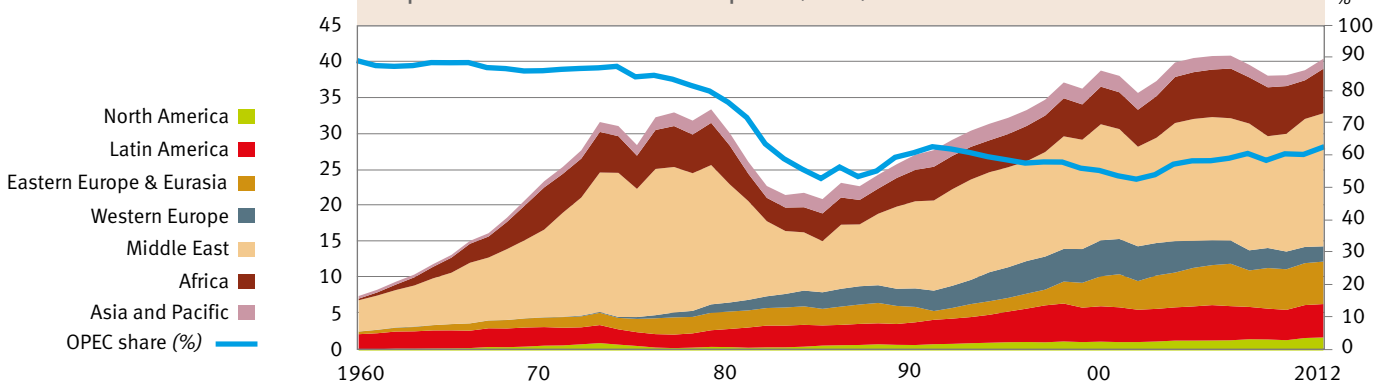
Graph 3.13: World crude oil exports by destination, 2012 (1,000 b/d)



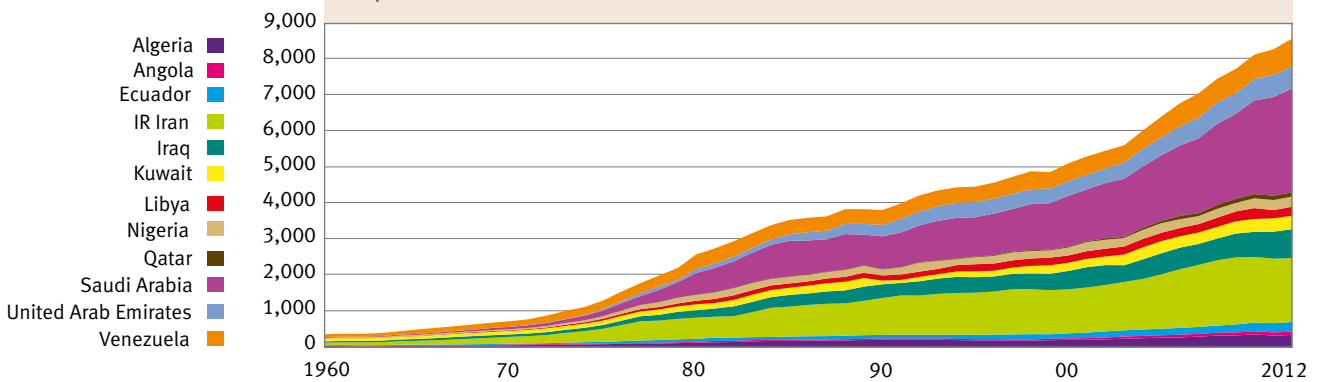
Graph 3.14: World oil demand (1,000 b/d)



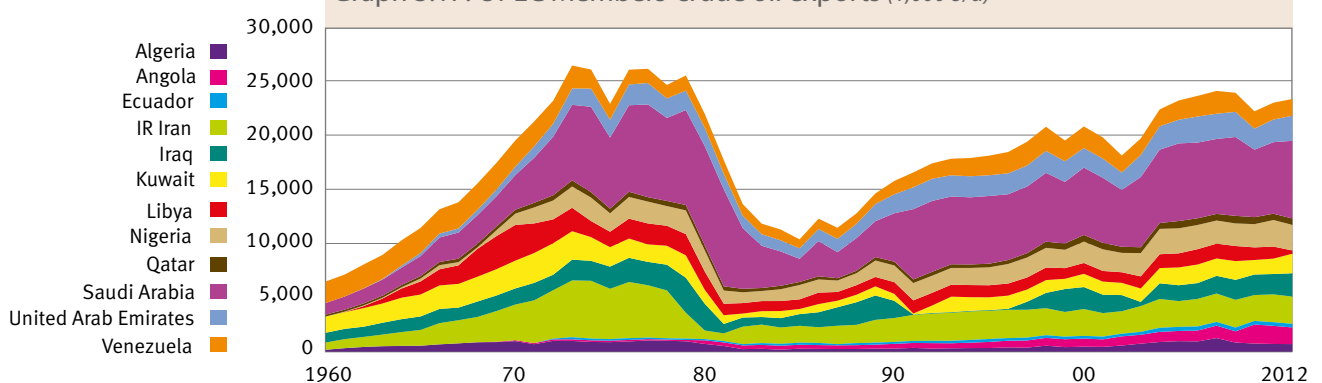
Graph 3.15: World crude oil exports (m b/d)



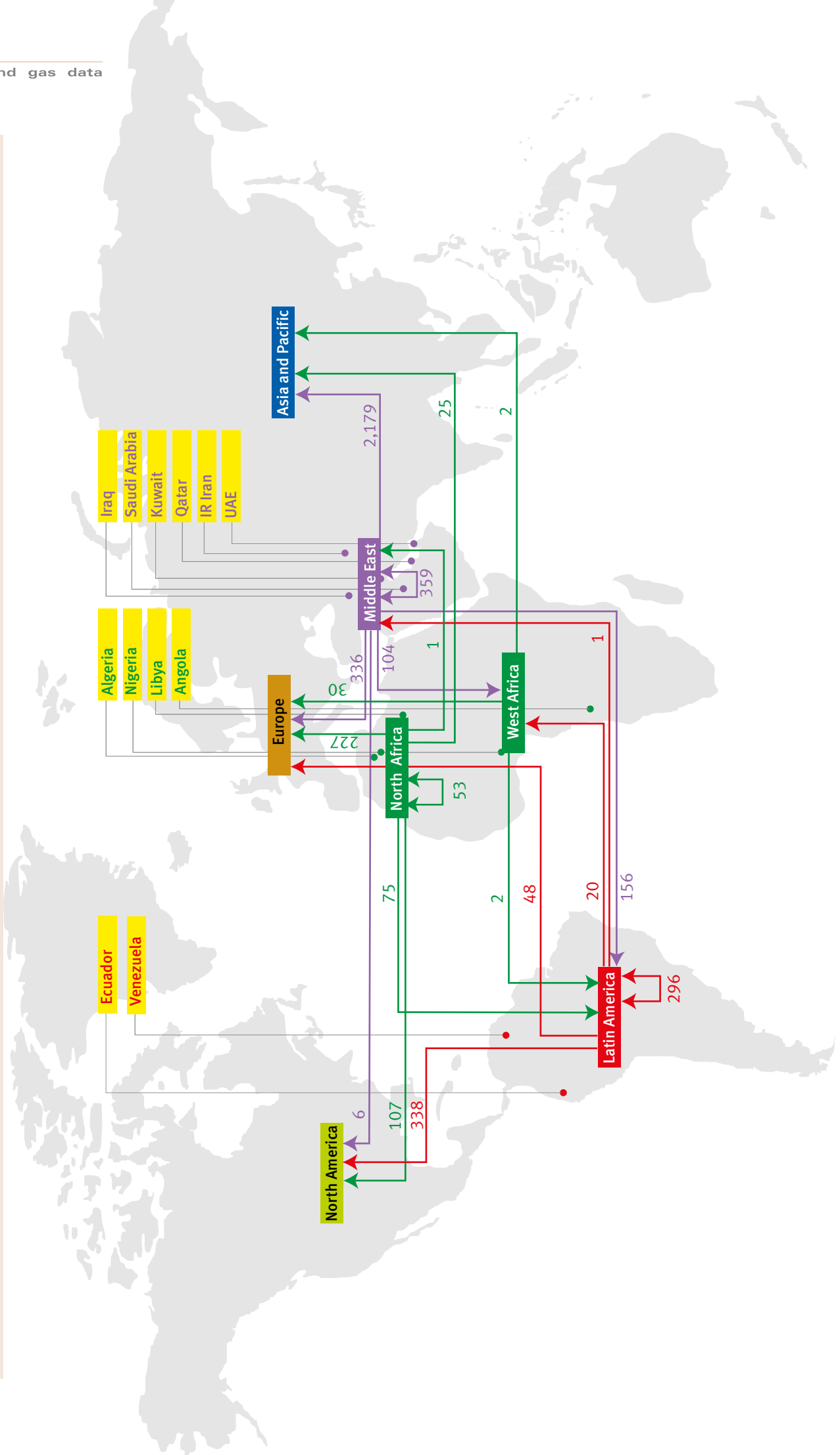
Graph 3.16: OPEC Members' oil demand (1,000 b/d)



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



Graph 3.18: OPEC Members' petroleum products by destination, 2012 (1,000 b/d)



## OPEC Members' petroleum products exports by destination, 2012 (1,000 b/d)

	Total world <sup>1</sup>	Europe	North America	Asia and Pacific	Latin America	Africa	Middle East
<b>Middle East</b>	<b>3,141</b>	<b>336</b>	<b>6</b>	<b>2,179</b>	<b>156</b>	<b>104</b>	<b>359</b>
IR Iran	456	–	–	456	–	–	–
Iraq	472	141	2	167	131	–	32
Kuwait	661	63	2	596	–	–	–
Qatar	465	21	–	399	2	3	40
Saudi Arabia	862	111	2	491	12	95	151
United Arab Emirates	225	1	1	71	10	6	136
<b>North Africa</b>	<b>490</b>	<b>227</b>	<b>107</b>	<b>25</b>	<b>75</b>	<b>53</b>	<b>1</b>
Algeria	450	189	106	25	75	53	1
Libya	40	38	1	–	–	–	1
<b>West Africa</b>	<b>34</b>	<b>30</b>	<b>–</b>	<b>2</b>	<b>2</b>	<b>–</b>	<b>–</b>
Angola	26	22	–	2	2	–	–
Nigeria	8	8	–	–	–	–	–
<b>Latin America</b>	<b>703</b>	<b>48</b>	<b>338</b>	<b>–</b>	<b>296</b>	<b>20</b>	<b>1</b>
Ecuador	28	–	2	–	26	–	–
Venezuela	675	48	336	–	271	20	1
<b>OPEC</b>	<b>4,367</b>	<b>640</b>	<b>451</b>	<b>2,206</b>	<b>529</b>	<b>178</b>	<b>362</b>

## 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)

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>2,086</b>	<b>2,221</b>	<b>2,474</b>	<b>2,934</b>	<b>3,166</b>	<b>7.9</b>
Canada	445	431	411	387	467	20.8
United States	1,641	1,790	2,063	2,547	2,698	5.9
Others	–	–	–	–	–	–
<b>Latin America</b>	<b>2,510</b>	<b>2,425</b>	<b>2,144</b>	<b>2,167</b>	<b>1,904</b>	<b>-12.2</b>
Brazil	163	155	124	124	121	-2.7
Ecuador	42	34	28	29	28	-4.4
Mexico	244	219	209	194	146	-24.8
Netherland Antilles	231	201	203	184	165	-10.5
Trinidad & Tobago	94	78	61	116	68	-40.9
Venezuela	912	956	751	786	675	-14.1
Virgin Islands	421	394	367	340	313	-7.9
Others	403	388	400	394	388	-1.5
<b>Eastern Europe and Eurasia</b>	<b>1,450</b>	<b>1,613</b>	<b>2,624</b>	<b>2,759</b>	<b>2,670</b>	<b>-3.2</b>
Romania	101	196	76	90	73	-18.9
Russia	1,127	1,221	2,243	2,208	2,280	3.2
Others	222	196	305	461	317	-31.2
<b>Western Europe</b>	<b>5,679</b>	<b>5,545</b>	<b>5,842</b>	<b>6,160</b>	<b>5,978</b>	<b>-3.0</b>
Belgium	400	343	339	378	383	1.3
France	571	466	446	430	414	-3.6
Germany	517	454	363	366	380	3.8
Italy	527	427	559	507	544	7.4
Netherlands	1,645	1,913	2,106	2,078	2,150	3.4
United Kingdom	561	521	543	575	558	-3.0
Others	1,459	1,421	1,486	1,826	1,549	-15.2
<b>Middle East</b>	<b>2,960</b>	<b>3,001</b>	<b>2,844</b>	<b>3,188</b>	<b>3,532</b>	<b>10.8</b>
Bahrain	238	222	231	217	247	13.6
IR Iran	275	301	371	441	456	3.4
Iraq	85	26	5	164	472	188.0
Kuwait	708	674	632	629	661	5.0
Qatar	98	249	322	509	465	-8.7
Saudi Arabia	1,058	1,008	951	902	862	-4.4
United Arab Emirates	359	374	188	227	225	-0.9
Others	139	146	146	99	144	46.4
<b>Africa</b>	<b>1,010</b>	<b>755</b>	<b>559</b>	<b>662</b>	<b>666</b>	<b>0.5</b>
Algeria	457	232	314	492	450	-8.5
Angola	41	41	8	26	26	-3.2
Egypt	67	64	29	21	51	142.9
Gabon	7	6	5	7	9	27.9
Nigeria	19	12	23	24	8	-65.1
Libya	157	136	48	21	40	93.9
Others	263	264	132	72	82	14.7
<b>Asia and Pacific</b>	<b>5,055</b>	<b>5,291</b>	<b>5,322</b>	<b>5,257</b>	<b>5,257</b>	<b>–</b>
Australia	50	49	43	36	47	30.7
China	456	523	583	621	524	-15.6
Indonesia	103	82	85	92	71	-23.2
Japan	406	391	369	345	269	-22.1
Malaysia	189	286	303	224	402	79.3
Singapore	1,623	1,766	1,767	1,671	1,731	3.6
Others	2,228	2,193	2,173	2,267	2,213	-2.4
<b>Total world</b>	<b>20,751.5</b>	<b>20,850.2</b>	<b>21,809.0</b>	<b>23,128.4</b>	<b>23,172.4</b>	<b>0.2</b>
<i>of which</i>						
OPEC	4,210.5	4,043.0	3,639.8	4,250.2	4,367.2	2.8
OPEC percentage	20.3	19.4	16.7	18.4	18.8	2.6
OECD	8,249	8,229	8,755	9,510	9,665	1.6
FSU	2,305.0	2,837.0	2,578.0	2,518.0	2,658.0	5.6

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)

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>3,650.4</b>	<b>3,755.7</b>	<b>3,905.3</b>	<b>4,668.9</b>	<b>4,982.1</b>	<b>6.7</b>
Canada	1,970.2	1,922.3	1,798.6	2,074.7	2,224.0	7.2
United States	1,680.1	1,833.3	2,106.6	2,594.2	2,758.0	6.3
Others	0.1	0.1	0.1	0.1	0.1	–
<b>Latin America</b>	<b>6,480.2</b>	<b>6,182.9</b>	<b>5,740.2</b>	<b>6,210.5</b>	<b>6,093.4</b>	<b>–1.9</b>
Ecuador	390.7	362.5	367.8	362.3	385.2	6.3
Mexico	1,689.3	1,530.5	1,667.9	1,614.0	1,479.4	–8.3
Netherland Antilles	231.5	201.5	203.5	184.1	164.8	–10.5
Trinidad & Tobago	104.5	87.4	105.2	155.1	99.1	–36.1
Venezuela	2,681.9	2,564.1	2,313.1	2,339.7	2,399.9	2.6
Virgin Islands	421.3	394.3	367.3	340.3	313.3	–7.9
Others	961.2	1,042.7	715.4	1,215.0	1,251.7	3.0
<b>Eastern Europe and Eurasia</b>	<b>6,508.2</b>	<b>7,243.3</b>	<b>8,255.7</b>	<b>8,568.8</b>	<b>8,555.8</b>	<b>–0.2</b>
Russia	6,173.2	6,828.8	7,852.2	7,994.3	8,136.6	1.8
Others	335.1	414.6	403.5	574.4	419.2	–27.0
<b>Western Europe</b>	<b>8,464.8</b>	<b>8,319.1</b>	<b>8,293.4</b>	<b>8,408.7</b>	<b>8,091.7</b>	<b>–3.8</b>
Belgium	400.3	343.1	339.1	378.1	383.0	1.3
France	570.7	465.6	445.8	429.8	414.3	–3.6
Germany	516.9	454.0	362.6	366.0	379.8	3.8
Italy	527.4	427.3	558.8	506.8	544.3	7.4
Netherlands	1,644.6	1,912.5	2,106.4	2,078.3	2,149.8	3.4
United Kingdom	1,400.6	1,296.8	1,284.1	1,138.3	1,133.8	–0.4
Others	1,702.0	1,646.6	1,591.3	2,088.6	1,783.6	–14.6
<b>Middle East</b>	<b>20,535.0</b>	<b>18,499.1</b>	<b>19,166.6</b>	<b>20,929.7</b>	<b>21,977.3</b>	<b>5.0</b>
Bahrain	237.9	222.3	230.6	217.1	217.1	–
IR Iran	2,848.9	2,706.8	2,953.6	2,978.3	2,557.8	–14.1
Iraq	1,940.1	1,931.8	1,895.5	2,329.5	2,895.3	24.3
Kuwait	2,446.4	2,021.8	2,061.2	2,445.3	2,730.9	11.7
Qatar	800.8	896.0	908.1	1,096.7	1,052.9	–4.0
Saudi Arabia	8,380.0	7,275.9	7,594.9	8,120.3	8,418.8	3.7
United Arab Emirates	2,693.5	2,327.5	2,291.1	2,556.6	2,882.3	12.7
Others	1,187.4	1,117.0	1,231.7	1,186.0	1,222.3	3.1
<b>Africa</b>	<b>7,407.4</b>	<b>7,640.6</b>	<b>8,072.7</b>	<b>7,834.9</b>	<b>7,636.3</b>	<b>–2.5</b>
Algeria	1,297.6	980.0	1,022.9	1,189.8	1,258.7	5.8
Angola	1,085.2	1,810.5	1,690.2	1,568.9	1,688.8	7.6
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	2,117.2	2,172.5	2,487.3	2,400.2	2,376.1	–1.0
Libya	1,560.0	1,306.5	1,166.2	320.1	1,002.0	213.0
Others	1,024.2	114.3	901.2	1,818.1	788.9	–56.6
<b>Asia and Pacific</b>	<b>6,798.9</b>	<b>6,903.7</b>	<b>6,827.7</b>	<b>6,656.1</b>	<b>6,640.8</b>	<b>–0.2</b>
Australia	289.5	297.5	356.6	308.0	310.2	0.7
China	562.7	627.0	623.3	671.7	573.3	–14.7
Indonesia	396.9	332.8	440.9	393.4	370.9	–5.7
Japan	405.8	391.0	368.5	345.3	268.8	–22.1
Malaysia	591.6	657.8	672.2	483.8	669.6	38.4
Singapore	1,623.4	1,766.0	1,767.3	1,671.1	1,731.0	3.6
Others	2,558.8	2,477.7	2,285.0	2,509.0	2,428.1	–3.2
<b>Total world</b>	<b>59,844.9</b>	<b>58,544.4</b>	<b>60,261.5</b>	<b>63,277.6</b>	<b>63,977.3</b>	<b>1.1</b>
<i>of which</i>						
OPEC	28,242.2	26,355.7	26,751.9	27,707.6	29,648.6	7.0
<i>OPEC percentage</i>	<i>47.2</i>	<i>45.0</i>	<i>44.4</i>	<i>43.8</i>	<i>46.3</i>	<i>5.8</i>
OECD	13,296.6	13,242.6	13,526.3	15,171.7	15,462.3	1.9
FSU	8,776.0	9,490.0	9,328.3	9,018.0	9,339.4	3.6

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*)

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>130,480</b>	<b>122,610</b>	<b>125,806</b>	<b>130,891</b>	<b>129,630</b>	<b>-1.0</b>
Canada	103,200	92,240	93,611	88,210	83,780	-5.0
United States	27,280	30,370	32,195	42,681	45,850	7.4
<b>Latin America</b>	<b>32,810</b>	<b>33,010</b>	<b>34,240</b>	<b>33,273</b>	<b>35,331</b>	<b>6.2</b>
Argentina	950	880	420	200	100	-50.0
Bolivia	11,790	9,790	11,650	13,320	14,540	9.2
Colombia	1,500	1,800	2,180	2,110	2,540	20.4
Mexico	1,210	790	850	13	11	-15.4
Trinidad & Tobago	17,360	19,750	19,140	17,630	18,140	2.9
<b>Eastern Europe and Eurasia</b>	<b>315,360</b>	<b>278,370</b>	<b>283,020</b>	<b>297,320</b>	<b>267,480</b>	<b>-10.0</b>
Azerbaijan	5,380	5,860	5,500	5,610	5,090	-9.3
Kazakhstan	800	10,100	1,200	12,600	11,720	-7.0
Russia	237,300	211,660	228,650	227,100	202,960	-10.6
Turkmenistan	55,800	29,900	30,740	36,860	33,830	-8.2
Ukraine	1,000	-	-	-	-	-
Uzbekistan	15,080	20,850	16,930	15,150	13,880	-8.4
<b>Western Europe</b>	<b>185,280</b>	<b>182,160</b>	<b>201,338</b>	<b>194,986</b>	<b>208,231</b>	<b>6.8</b>
Austria	-	-	5,439	4,704	4,234	-10.0
Belgium	2,600	2,460	2,460	2,511	2,561	2.0
Denmark	5,450	4,010	3,520	3,130	2,983	-4.7
France	1,000	840	2,945	6,483	5,994	-7.5
Germany	14,640	12,380	15,730	11,520	12,490	8.4
Italy	200	130	137	370	324	-12.4
Netherlands	54,500	50,320	53,300	50,410	54,510	8.1
Norway	95,230	98,850	100,600	96,800	110,510	14.2
Spain	160	1,000	1,152	3,098	2,645	-14.6
United Kingdom	11,500	12,170	16,055	15,960	11,980	-24.9
<b>Middle East</b>	<b>87,520</b>	<b>96,365</b>	<b>148,716</b>	<b>158,115</b>	<b>171,184</b>	<b>8.3</b>
IR Iran	4,110	5,670	8,429	9,114	9,152	0.4
Oman	10,890	11,540	11,450	10,930	10,870	-0.5
Qatar	56,780	63,535	107,437	113,551	128,710	13.3
United Arab Emirates	15,740	15,200	16,110	15,770	15,612	-1.0
Yemen	-	420	5,290	8,750	6,840	-21.8
<b>Africa</b>	<b>115,070</b>	<b>105,090</b>	<b>114,349</b>	<b>100,704</b>	<b>104,865</b>	<b>4.1</b>
Algeria	58,830	52,670	57,359	52,017	54,594	5.0
Egypt	16,920	18,320	15,170	10,520	7,460	-29.1
Equatorial Guinea	5,170	4,720	5,160	5,260	4,720	-10.3
Libya	10,400	9,890	9,970	3,666	6,225	69.8
Mozambique	3,200	3,500	3,040	3,300	3,600	9.1
Nigeria	20,550	15,990	23,650	25,941	28,266	9.0
<b>Asia and Pacific</b>	<b>104,740</b>	<b>108,580</b>	<b>116,230</b>	<b>114,670</b>	<b>110,650</b>	<b>-3.5</b>
Australia	20,240	24,250	25,350	25,240	27,410	8.6
Brunei	9,200	8,810	8,830	9,420	8,880	-5.7
Indonesia	36,170	36,500	41,250	38,870	34,730	-10.7
Malaysia	30,580	30,730	31,990	32,570	31,160	-4.3
Myanmar	8,550	8,290	8,810	8,570	8,470	-1.2
<b>Total world</b>	<b>971,260</b>	<b>926,185</b>	<b>1,023,699</b>	<b>1,029,959</b>	<b>1,027,371</b>	<b>-0.3</b>
<i>of which</i>						
OPEC	166,410	162,955	222,955	220,059	242,559	10.2
<i>OPEC percentage</i>	<i>17.1</i>	<i>17.6</i>	<i>21.8</i>	<i>21.4</i>	<i>23.6</i>	<i>10.5</i>
OECD	336,350	329,150	349,530	341,780	348,616	2.0
FSU	311,880	252,320	263,850	297,270	294,470	-0.9

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

**Table 3.23**

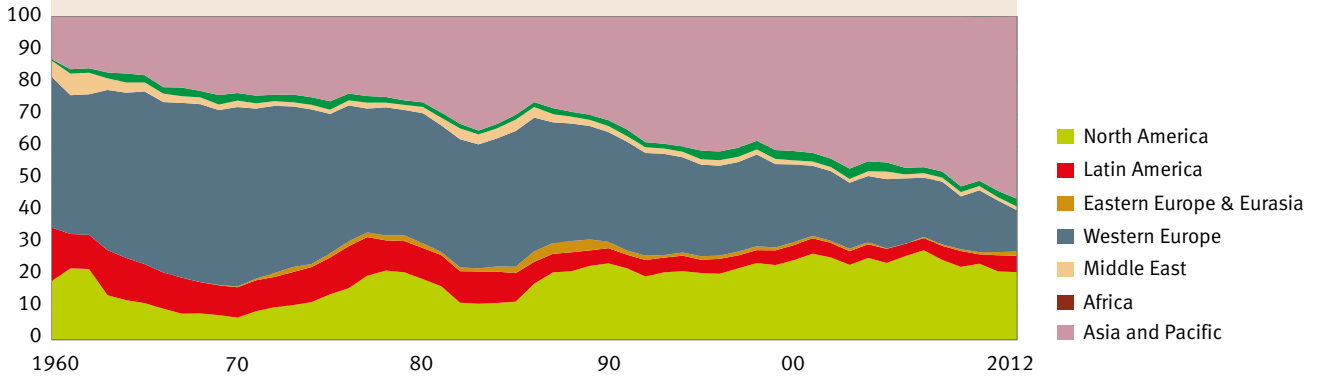
Oil and gas data

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

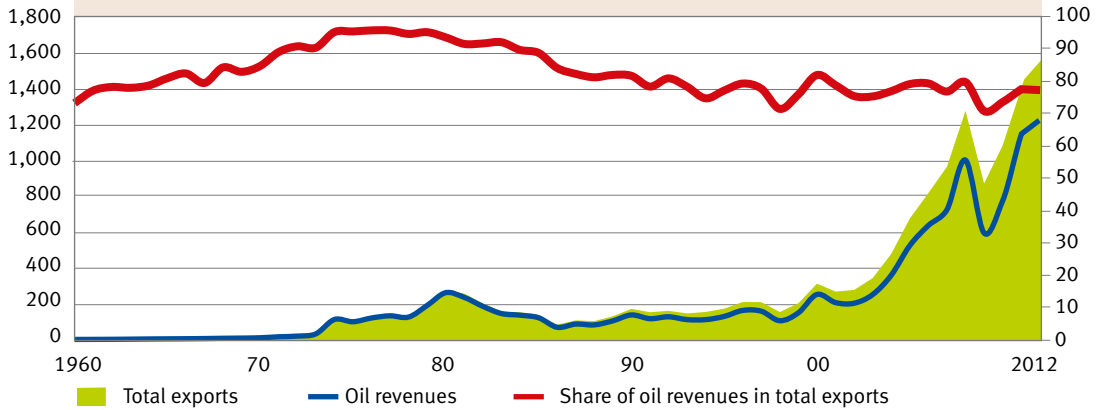
	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>11,359.8</b>	<b>10,429.5</b>	<b>10,503.8</b>	<b>9,595.1</b>	<b>9,206.3</b>	<b>-4.1</b>
Canada	836.9	798.7	770.0	680.7	714.1	4.9
United States	10,522.9	9,630.9	9,733.8	8,914.4	8,492.3	-4.7
<b>Latin America</b>	<b>2,044.6</b>	<b>2,362.6</b>	<b>2,280.8</b>	<b>2,510.4</b>	<b>2,584.7</b>	<b>3.0</b>
Brazil	390.9	384.0	311.6	318.2	311.5	-2.1
Chile	202.3	198.9	168.3	171.2	174.8	2.1
Netherlands Antilles	209.4	191.9	197.5	199.3	203.7	2.2
Cuba	97.9	131.4	178.8	198.8	237.0	19.2
Peru	98.5	100.8	94.9	93.8	90.3	-3.6
Trinidad & Tobago	92.6	98.5	68.8	83.3	57.2	-31.3
Others	953.2	1,257.1	1,260.9	1,446.0	1,510.2	4.4
<b>Eastern Europe and Eurasia</b>	<b>2,011.1</b>	<b>1,937.7</b>	<b>1,899.8</b>	<b>1,853.0</b>	<b>1,758.6</b>	<b>-5.1</b>
Bulgaria	145.8	124.3	132.9	123.2	117.9	-4.3
Czech Republic	163.7	145.1	161.0	161.0	142.5	-11.5
Romania	170.0	139.2	171.4	154.8	104.8	-32.3
Russia	49.6	36.0	47.9	38.7	29.5	-23.7
Others	1,482.0	1,493.0	1,386.6	1,375.2	1,363.8	-0.8
<b>Western Europe</b>	<b>11,619.1</b>	<b>10,585.3</b>	<b>10,610.3</b>	<b>10,535.2</b>	<b>11,035.6</b>	<b>4.7</b>
Belgium	683.0	630.5	662.1	605.3	639.4	5.6
France	1,670.3	1,441.8	1,295.1	1,294.4	1,142.8	-11.7
Germany	2,127.5	1,979.4	1,883.1	1,827.0	1,881.7	3.0
Greece	389.4	359.0	410.9	331.0	419.4	26.7
Italy	1,664.4	1,540.6	1,584.9	1,452.8	1,381.3	-4.9
Netherlands	994.9	973.3	1,032.7	987.2	1,004.0	1.7
Spain	1,181.4	1,056.0	1,059.3	1,054.0	1,183.1	12.2
Sweden	424.7	383.7	401.0	379.6	416.7	9.8
Turkey	438.7	287.1	351.7	364.8	392.4	7.6
United Kingdom	1,062.0	1,059.8	963.5	1,009.0	1,080.5	7.1
Others	982.8	874.2	966.1	1,230.2	1,494.3	21.5
<b>Middle East</b>	<b>647.5</b>	<b>498.5</b>	<b>550.5</b>	<b>465.0</b>	<b>347.7</b>	<b>-25.2</b>
Bahrain	212.1	213.1	235.5	243.6	219.9	-9.7
Others	435.4	285.4	315.0	221.4	127.8	-42.3
<b>Africa</b>	<b>948.6</b>	<b>882.1</b>	<b>922.6</b>	<b>906.2</b>	<b>850.7</b>	<b>-6.1</b>
Côte d'Ivoire	82.7	82.7	84.4	72.8	70.1	-3.8
Kenya	37.5	37.5	38.6	39.0	39.8	2.2
Morocco	147.3	147.3	149.4	151.5	105.0	-30.7
Others	681.1	614.6	650.2	643.0	635.8	-1.1
<b>Asia and Pacific</b>	<b>17,923.8</b>	<b>18,079.2</b>	<b>18,820.5</b>	<b>18,830.8</b>	<b>19,482.2</b>	<b>3.5</b>
China	3,612.0	4,112.1	4,805.9	5,073.8	5,423.9	6.9
Japan	3,851.1	3,416.4	3,441.5	3,558.4	3,457.7	-2.8
India	2,587.7	3,215.7	3,158.1	3,360.2	3,558.9	5.9
South Korea	2,348.4	2,323.8	2,377.8	2,520.7	2,555.0	1.4
Chinese Tapei	963.5	957.6	876.2	795.5	882.4	10.9
Singapore	1,016.0	892.0	714.8	716.0	832.2	16.2
Thailand	761.3	777.2	817.0	793.7	860.3	8.4
Australia	409.3	384.6	431.0	488.4	499.3	2.2
Indonesia	217.3	328.1	284.8	253.9	264.2	4.0
Pakistan	162.8	139.1	126.3	110.8	92.6	-16.5
Others	1,994.4	1,532.5	1,787.2	1,159.4	1,055.8	-8.9
<b>Total world</b>	<b>46,554.4</b>	<b>44,774.8</b>	<b>45,588.2</b>	<b>44,695.7</b>	<b>45,265.8</b>	<b>1.3</b>
<i>of which</i>						
OECD	30,808.7	28,255.5	28,516.7	28,778.0	27,632.0	-4.0

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.

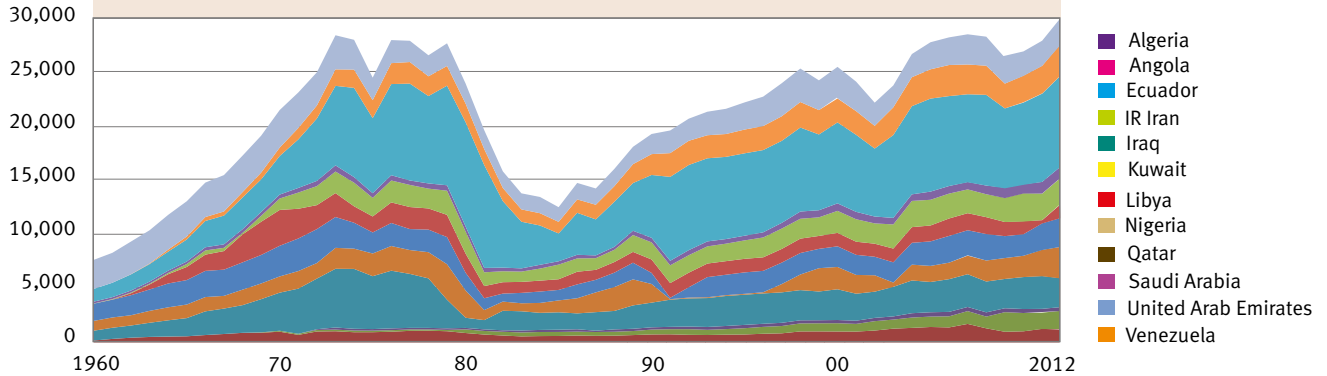
Graph 3.19: Percentage share of OPEC crude oil exports by regions



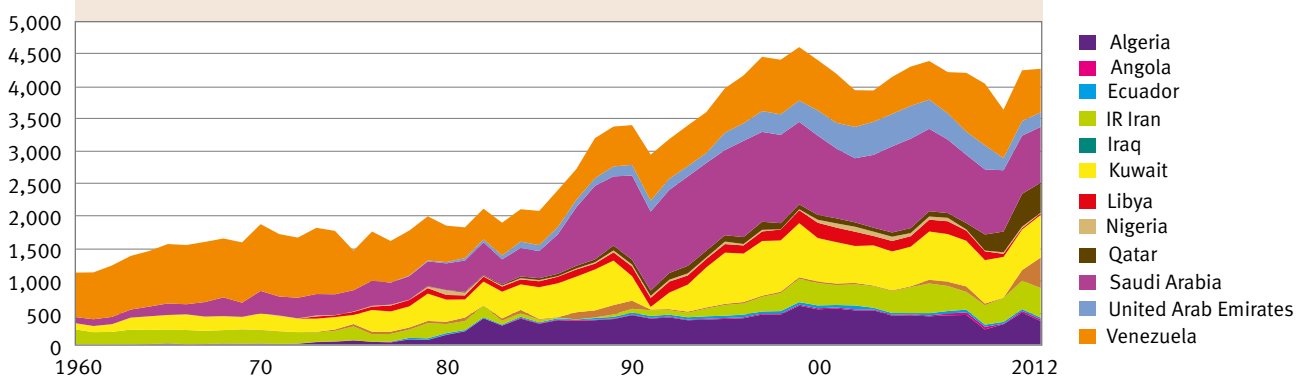
Graph 3.20: OPEC oil export revenues vs total exports (bn \$)



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)

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>2,415.1</b>	<b>2,103.3</b>	<b>2,087.1</b>	<b>1,930.3</b>	<b>1,525.6</b>	<b>-21.0</b>
Canada	329.8	279.4	238.3	266.4	224.6	-15.7
United States	2,080.4	1,819.2	1,844.1	1,659.8	1,296.8	-21.9
Others	5.0	4.7	4.7	4.2	4.2	-
<b>Latin America</b>	<b>2,052.6</b>	<b>2,012.3</b>	<b>2,061.3</b>	<b>2,501.7</b>	<b>2,649.9</b>	<b>5.9</b>
Brazil	343.5	310.6	311.6	495.3	569.0	14.9
Cuba	78.6	79.9	81.3	82.6	84.0	1.6
Mexico	477.7	454.5	451.9	612.2	601.3	-1.8
Netherland Antilles	66.0	66.0	69.7	73.4	77.2	5.1
Panama	43.0	42.9	23.8	50.5	66.2	31.0
Puerto Rico	106.3	101.3	96.3	91.3	86.3	-5.5
Others	937.6	957.2	1,026.8	1,096.3	1,165.9	6.3
<b>Eastern Europe and Eurasia</b>	<b>352.8</b>	<b>349.8</b>	<b>388.2</b>	<b>392.1</b>	<b>395.9</b>	<b>1.0</b>
Bulgaria	30.2	30.3	31.1	34.9	37.4	7.3
Russia	11.4	10.6	20.4	16.5	25.2	52.5
Hungary	44.8	44.1	48.4	58.0	36.8	-36.5
Poland	120.2	120.1	140.1	143.3	157.7	10.0
Others	146.2	144.7	148.2	139.4	138.8	-0.5
<b>Western Europe</b>	<b>6,207.3</b>	<b>6,399.0</b>	<b>6,677.3</b>	<b>6,431.1</b>	<b>6,666.1</b>	<b>3.7</b>
Belgium	439.0	360.8	675.3	532.6	371.6	-30.2
France	699.5	775.9	776.8	875.2	889.3	1.6
Germany	704.3	661.0	661.8	758.0	617.4	-18.6
Italy	230.3	223.9	224.8	398.1	182.4	-54.2
Netherlands	1,459.2	1,670.6	1,671.4	1,765.4	1,909.3	8.1
United Kingdom	436.7	485.4	486.2	580.2	530.1	-8.6
Others	2,238.4	2,221.4	2,181.0	1,521.4	2,166.0	42.4
<b>Middle East</b>	<b>555.2</b>	<b>543.1</b>	<b>465.6</b>	<b>588.1</b>	<b>543.3</b>	<b>-7.6</b>
Syrian Arab Republic	20.7	19.4	18.1	106.8	195.5	83.1
Others	534.5	523.8	447.5	481.3	347.9	-27.7
<b>Africa</b>	<b>853.2</b>	<b>894.5</b>	<b>1,184.4</b>	<b>1,353.3</b>	<b>1,379.5</b>	<b>1.9</b>
Egypt	103.1	139.0	140.1	157.3	217.2	38.1
Morocco	81.8	80.6	79.6	60.2	53.0	-11.9
Nigeria	156.4	162.0	375.4	412.4	350.7	-15.0
Senegal	25.3	25.3	27.3	22.4	23.4	4.5
Tunisia	67.8	67.8	78.4	58.4	60.2	3.1
Others	418.7	419.7	483.6	642.7	675.1	5.0
<b>Asia and Pacific</b>	<b>7,111.6</b>	<b>7,133.8</b>	<b>7,343.3</b>	<b>7,377.6</b>	<b>7,528.8</b>	<b>2.0</b>
Australia	337.3	339.0	303.8	334.2	390.3	16.8
China	803.5	777.2	835.2	960.1	895.2	-6.8
Hong Kong	330.8	388.9	432.5	398.8	361.0	-9.5
India	408.1	283.0	325.7	319.7	305.8	-4.3
Japan	933.5	829.3	929.7	1,300.3	1,075.3	-17.3
New Zealand	44.3	44.7	36.2	41.5	35.8	-13.6
Singapore	1,978.2	2,210.3	2,214.8	1,764.9	2,167.8	22.8
Others	2,275.9	2,261.5	2,265.6	2,258.1	2,297.5	1.7
<b>Total world</b>	<b>19,547.9</b>	<b>19,435.9</b>	<b>20,207.3</b>	<b>20,574.2</b>	<b>20,688.9</b>	<b>0.6</b>
<i>of which</i>						
OPEC	1,052	1,088	1,331	1,398	1,374	-1.7
<i>OPEC percentage</i>	5.4	5.6	6.6	6.8	6.6	-2.3
OECD	10,167	10,043	11,117	11,868	12,342	4.0
FSU	158	155	146	168	162	-3.5

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*)

	2008	2009	2010	2011	2012	% change 12/11
<b>North America</b>	<b>130,250</b>	<b>125,830</b>	<b>128,547</b>	<b>126,570</b>	<b>117,540</b>	<b>-7.1</b>
Canada	15,900	20,830	22,622	29,740	29,180	-1.9
United States	114,350	105,000	105,925	96,830	88,360	-8.7
<b>Latin America</b>	<b>29,810</b>	<b>28,910</b>	<b>37,868</b>	<b>43,531</b>	<b>53,527</b>	<b>23.0</b>
Argentina	1,300	2,660	3,610	7,560	8,940	18.3
Brazil	11,030	8,440	12,600	10,482	13,850	32.1
Chile	750	1,490	3,410	3,920	3,820	-2.6
Dominican Republic	470	560	802	882	1,280	45.1
Mexico	13,880	13,160	15,150	18,060	22,340	23.7
Puerto Rico	810	760	770	750	1,360	81.3
Uruguay	70	40	80	80	60	-25.0
Venezuela	1,500	1,800	1,446	1,797	1,877	4.5
<b>Eastern Europe and Eurasia</b>	<b>192,010</b>	<b>137,130</b>	<b>146,618</b>	<b>155,153</b>	<b>138,172</b>	<b>-10.9</b>
Armenia	2,300	2,050	1,750	1,873	1,900	1.4
Belarus	21,100	17,570	21,600	21,850	21,910	0.3
Bulgaria	3,100	2,640	2,160	2,640	2,370	-10.2
Czech Republic	8,610	9,570	11,140	11,280	10,200	-9.6
Estonia	630	710	360	650	610	-6.2
Georgia	1,130	200	200	200	172	-14.0
Hungary	11,500	8,100	7,510	6,910	6,060	-12.3
Kazakhstan	5,800	7,400	6,690	6,590	6,500	-1.4
Kyrgyzstan	1,200	1,200	190	250	250	0.0
Latvia	750	1,190	660	1,550	1,450	-6.5
Lithuania	3,090	2,740	2,630	3,000	2,450	-18.3
Moldova	2,800	2,900	2,920	2,900	2,900	0.0
Poland	10,280	9,150	10,894	11,170	11,270	0.9
Romania	4,500	2,050	2,150	2,650	2,040	-23.0
Russia	56,200	28,100	34,389	33,110	32,270	-2.5
Slovak Republic	5,600	5,400	6,425	5,830	4,230	-27.4
Tadzhikistan	700	700	700	700	700	0.0
Ukraine	52,720	35,460	34,250	42,000	30,890	-26.5
<b>Western Europe</b>	<b>406,925</b>	<b>395,597</b>	<b>424,424</b>	<b>414,672</b>	<b>405,601</b>	<b>-2.2</b>
Austria	8,100	7,190	7,530	9,780	7,810	-20.1
Belgium	21,140	21,760	31,330	28,510	29,190	2.4
Bosnia/Herzegovina	310	220	210	260	240	-7.7
Croatia	1,260	1,200	1,170	820	1,340	63.4
Denmark	0	0	150	370	250	-32.4
Finland	4,500	4,100	4,782	3,940	3,520	-10.7
France	49,250	49,060	46,199	47,320	45,080	-4.7
Germany	92,765	94,572	88,884	85,110	85,950	1.0
Greece	4,140	3,290	3,815	4,640	4,220	-9.1
Ireland	5,000	5,080	5,261	5,290	5,290	0.0

**Table 3.25**

Oil and gas data

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

	2008	2009	2010	2011	2012	% change 12/11
<b>Western Europe</b> ( <i>cont'd</i> )						
Italy	76,870	69,310	75,348	69,930	67,202	-3.9
Luxembourg	1,200	1,300	1,366	1,250	1,280	2.4
Macedonia, f Yug Rep	70	80	77	100	100	0.0
Netherlands	17,970	16,980	16,970	14,300	15,410	7.8
Portugal	4,560	4,410	5,109	5,000	4,580	-8.4
Serbia/Montenegro	2,150	1,550	1,933	1,878	2,240	19.3
Slovenia	1,000	890	880	770	730	-5.2
Spain	39,060	35,430	36,716	35,520	32,900	-7.4
Sweden	1,000	1,310	1,642	1,296	1,129	-12.9
Switzerland	3,190	3,625	3,165	3,190	3,420	7.2
Turkey	36,850	33,180	38,037	42,560	44,620	4.8
United Kingdom	36,540	41,060	53,850	52,838	49,100	-7.1
<b>Middle East</b>	<b>35,280</b>	<b>39,100</b>	<b>41,048</b>	<b>45,844</b>	<b>41,299</b>	<b>-9.9</b>
IR Iran	7,100	5,800	7,243	11,659	6,720	-42.4
Jordan	2,720	2,850	2,520	830	1,500	80.7
Kuwait		890	890	688	688	0.0
Oman	350	1,500	1,900	1,950	1,950	0.0
Syrian Arab Republic	140	910	690	552	350	-36.6
United Arab Emirates	24,970	25,450	25,705	28,275	28,201	-0.3
Others	-	1,700	2,100	1,890	1,890	0.0
<b>Africa</b>	<b>4,950</b>	<b>5,250</b>	<b>4,790</b>	<b>5,230</b>	<b>5,990</b>	<b>14.5</b>
Morocco	500	500	500	550	500	-9.1
South Africa	3,200	3,500	3,040	3,300	3,600	9.1
Tunisia	1,250	1,250	1,250	1,380	1,890	37.0
<b>Asia and Pacific</b>	<b>175,130</b>	<b>172,251</b>	<b>206,285</b>	<b>235,620</b>	<b>258,810</b>	<b>9.8</b>
China	4,440	7,630	16,350	30,490	39,660	30.1
India	10,790	12,620	12,150	16,390	17,610	7.4
Japan	92,250	85,900	98,015	104,000	116,000	11.5
South Korea	36,550	34,320	43,579	48,780	48,120	-1.4
Malaysia	500	900	2,938	1,990	2,340	17.6
Singapore	9,970	10,800	8,553	8,460	8,310	-1.8
Chinese Taipei	12,080	11,790	15,890	15,930	17,010	6.8
Thailand	8,550	8,291	8,810	9,580	9,760	1.9
<b>Total world</b>	<b>974,355</b>	<b>904,068</b>	<b>989,580</b>	<b>1,026,620</b>	<b>1,020,939</b>	<b>-0.6</b>
<i>of which</i>						
OPEC	33,570	33,940	35,284	42,419	37,486	-11.6
<i>OPEC share</i>	3.4	3.8	3.6	4.1	3.7	-11.1
OECD	713,435.0	687,877.0	748,164.0	751,723.0	742,426.0	-1.2
FSU	143,950	102,720	102,220	109,590	99,660	-9.1







# SECTION 4

## Transportation

**Table 4.1**

## Transportation

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

	2008		2009		2010		2011		2012	
	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	8	1186	30	4,775
Ecuador	8	269	8	269	8	269	10	579	14	957
IR Iran	42	9,560	42	9,560	47	10,994	47	10,994	47	10,994
Iraq	2	26	4	53	4	53	4	53	4	53
Kuwait	21	3,113	20	3,110	16	2,223	16	2,223	21	3,404
Libya	8	627	8	627	8	627	5	548	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	46	10,483	40	8,662	35	6,993	32	5766	20	5,051
United Arab Emirates	13	660	13	660	13	660	13	660	13	660
Venezuela	16	1,091	16	1,091	16	1,091	18	1,348	19	1,452
<b>OPEC</b>	<b>165</b>	<b>27,081</b>	<b>160</b>	<b>25,284</b>	<b>156</b>	<b>24,162</b>	<b>162</b>	<b>24,609</b>	<b>182</b>	<b>29,146</b>
Total world	4,825	398,196	5,713	481,185	5,147	444,815	5,406	462,549	5,188	485,470
<i>OPEC percentage</i>		6.8		5.3		5.4		5.3		6.0

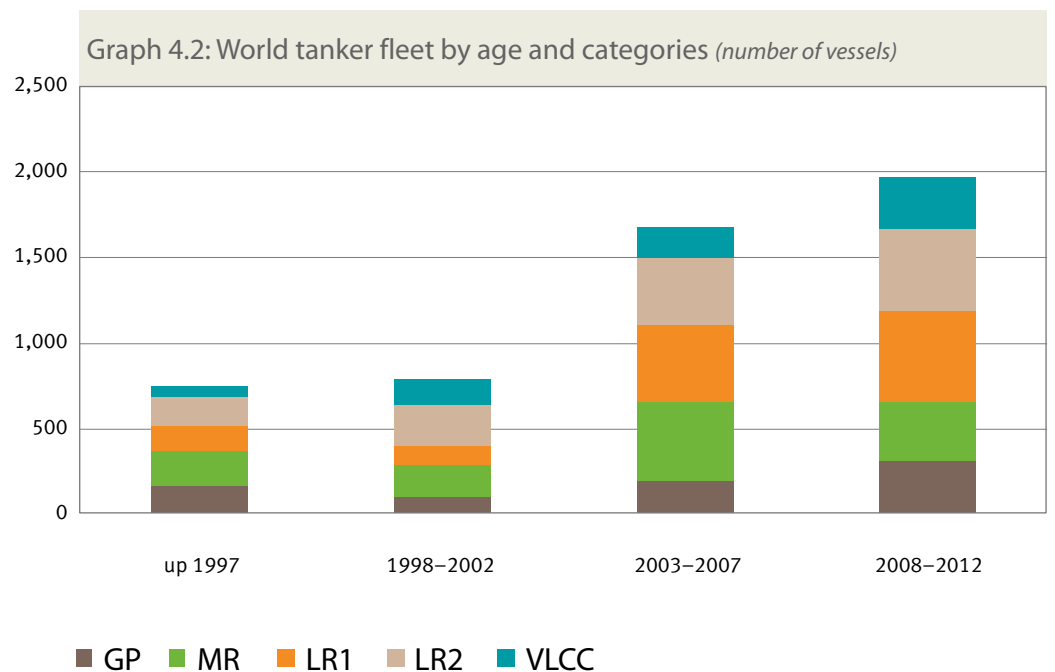
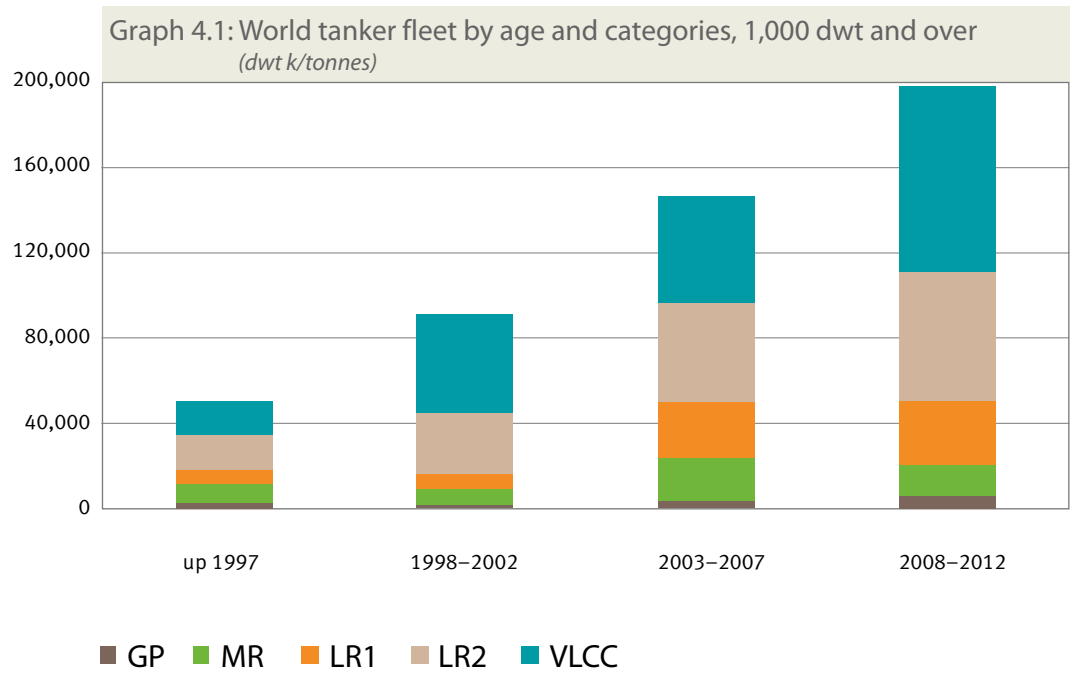
Notes: Figures as at year-end. Totals may not add up due to independent rounding. Including crude oil, petroleum and chemical carriers.

**Table 4.2**

## World tanker fleet by age and categories (1,000 dwt)

		no up to 1997		no 1998–2002		no 2003–2007		no 2008–2012		no	Total
GP	16.5-24.9	152	2,548.4	86	1,427.3	191	3,125.3	299	4,884.9	728	11,985.9
MR	25.0-44.9	224	8,265.9	197	8,391.5	460	19,997.6	357	15,921.7	1,238	52,576.7
LR1	45.0-79.9	130	6,089.0	108	5,876.7	457	26,354.9	528	29,719.9	1,222	68,040.4
LR2	80.0-159.9	185	17,008.3	238	28,854.1	391	46,905.2	483	59,977.5	1,297	152,745.1
VLCC	160.0-319.9	65	16,522.4	160	46,332.7	177	49,792.0	301	87,474.6	703	200,121.6
<b>Total world</b>		<b>756</b>	<b>50,433.8</b>	<b>789</b>	<b>90,882.3</b>	<b>1,676</b>	<b>146,175.0</b>	<b>1,968</b>	<b>197,978.6</b>	<b>5,188</b>	<b>485,469.7</b>

Notes: Figures as at year-end. Totals may not add up due to independent rounding. Data is adjusted to take into account different categories of vessels. Data includes clean, dirty and chemical tankers. Dwt d includes clean, dirty and chemical tankers. GP = general purpose (16.5–24.9 dwt); MR = medium range (25–44.9 dwt); LR1 = large range 1 (45–79.9 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.



**Table 4.3**

## Transportation

World liquid gas carrier fleet by size and type, 2012 (1,000 cu m)

	no	LPG capacity	no	LNG capacity	no	Total capacity
up to 999	66	43	–	–	66	43
1,000–1,999	272	394	–	–	272	394
2,000–4,999	328	1,113	–	–	328	1,113
5,000–9,999	232	1,563	–	–	232	1,563
10,000–19,999	62	858	19	183	81	1,041
20,000–39,999	117	3,346	3	94	120	3,440
40,000–59,999	19	1,707	3	122	22	1,829
60,000–99,999	144	11,520	14	1,070	158	12,590
100,000 and over	–	–	334	51,526	334	51,526
<b>Total world</b>	<b>1,240</b>	<b>20,544</b>	<b>373</b>	<b>52,995</b>	<b>1,613</b>	<b>73,539</b>

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, 2012 (1,000 cu m)

	no	LPG capacity	no	LNG capacity	no	Total capacity
Algeria	8	324	9	1,057	17	1,381
Angola	5	203	3	263	8	466
Ecuador	5	110	–	–	5	110
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
<b>OPEC</b>	<b>34</b>	<b>1,490</b>	<b>73</b>	<b>11,372</b>	<b>107</b>	<b>12,862</b>
Total world	1,240	20,544	373	52,995	1,613	73,539
<i>OPEC percentage</i>		<i>7.25</i>		<i>21.46</i>		<i>17.49</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)

	2008		2009		2010		2011		2012	
	no	dwt	no	dwt	no	dwt	no	dwt	no	dwt
10,000–19,999	2	28	2	28	1	13	1	13	1	13
20,000–29,999	1	26	1	26	1	28	1	28	1	28
30,000–39,999	–	–	–	–	–	–	–	–	–	–
40,000–49,999	8	375	8	375	8	375	8	375	3	135
50,000–59,999	3	164	2	108	2	108	2	108	2	108
60,000–69,999	2	133	2	133	5	–	5	–	1	66
70,000–79,999	5	375	5	375	5	375	4	200	3	225
80,000–99,999	7	608	6	511	7	609	6	409	4	333
100,000–124,999	13	1,488	13	1,488	13	1,425	10	1,205	10	1,098
125,000–129,999	3	487	1	120	1	121	1	121	2	241
130,000–199,999	1	164	3	468	3	469	3	469	–	–
200,000–249,999	–	–	–	–	–	–	–	–	–	–
250,000–319,999	–	–	–	–	5	1,599	5	1,599	5	1,599
<b>Total world</b>	<b>45</b>	<b>3,849</b>	<b>43</b>	<b>3,633</b>	<b>51</b>	<b>5,123</b>	<b>46</b>	<b>4,527</b>	<b>32</b>	<b>3,847</b>

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

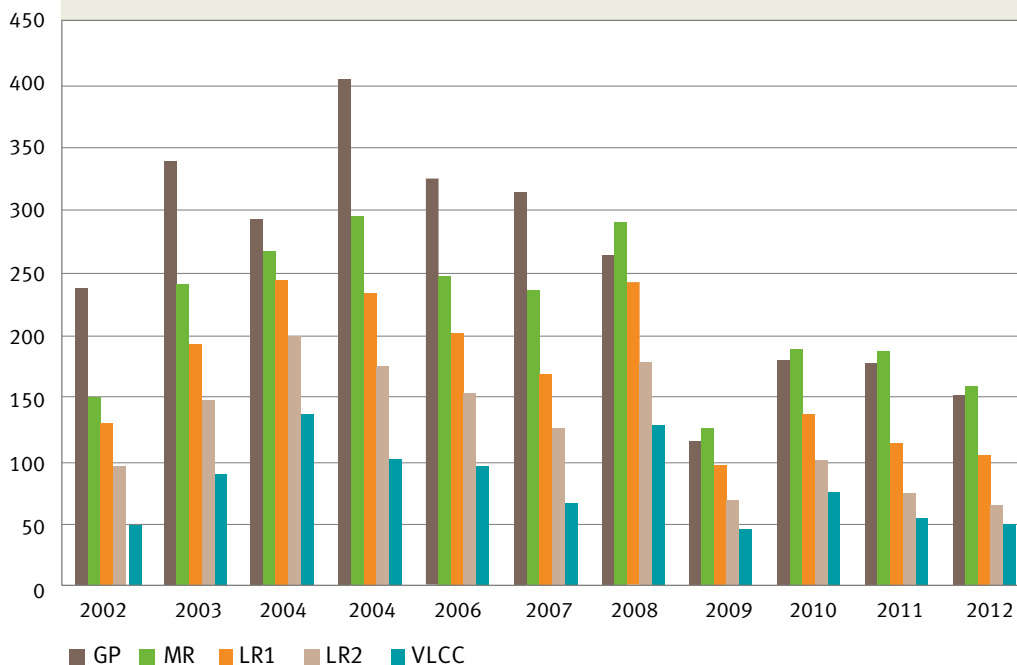
**Table 4.6**

## 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
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
2012	151.8	159.4	103.9	64.9	49.3

Notes: GP = general purpose (16.5–24.9 dwt); MR = medium range (25–44.9 dwt); LR1 = large range 1 (45–79.9 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.

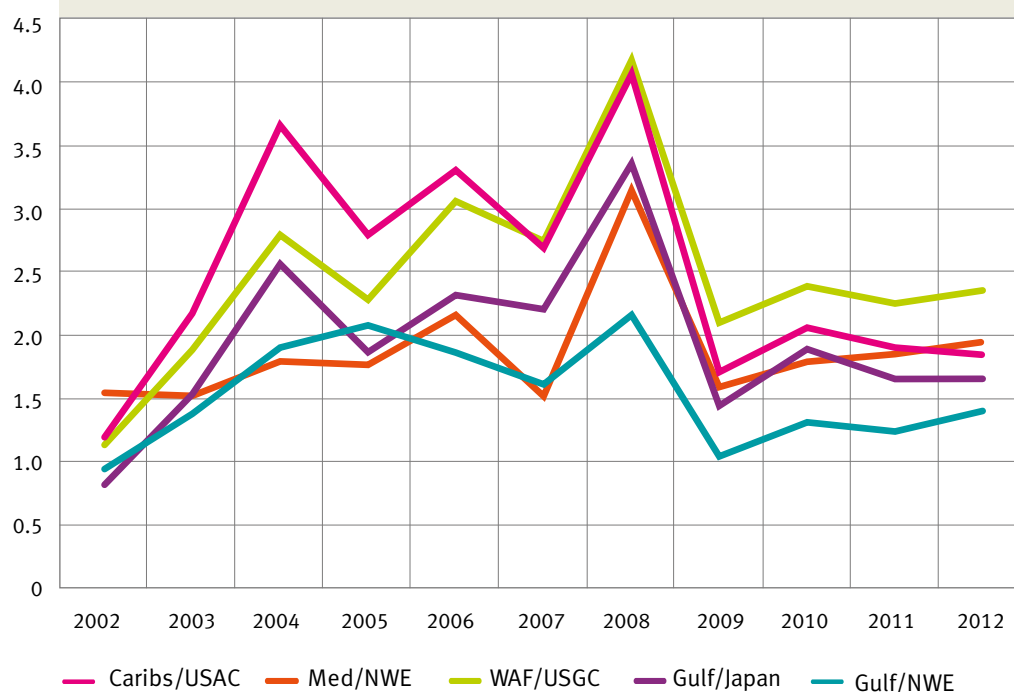
Graph 4.3: Spot freight rates for AFRA sizes (*% of Worldscale*)

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
<b>2002</b>	0.93	1.53	1.12	0.80	1.18	2.54	0.69	0.98	1.42
<b>2003</b>	1.37	1.51	1.88	1.52	2.16	3.24	0.96	1.22	1.83
<b>2004</b>	1.89	1.79	2.79	2.56	3.66	3.65	1.21	1.69	2.20
<b>2005</b>	2.07	1.76	2.27	1.86	2.79	4.99	1.31	1.69	2.86
<b>2006</b>	1.85	2.15	3.05	2.31	3.30	6.22	1.36	1.96	3.62
<b>2007</b>	1.60	1.51	2.74	2.20	2.68	4.44	1.76	2.49	2.82
<b>2008</b>	2.15	3.14	4.17	3.35	4.06	6.45	2.56	2.81	3.22
<b>2009</b>	1.03	1.58	2.09	1.43	1.70	2.98	1.29	1.35	1.38
<b>2010</b>	1.30	1.78	2.38	1.88	2.05	3.17	1.66	1.60	1.63
<b>2011</b>	1.23	1.84	2.24	1.64	1.89	3.34	1.80	2.09	2.32
<b>2012</b>	1.39	1.92	2.33	1.66	1.84	3.70	1.93	1.40	2.19

**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.

Graph 4.4: Spot freight rate costs for major routes of crude oil (\$/b)



**Table 4.8**

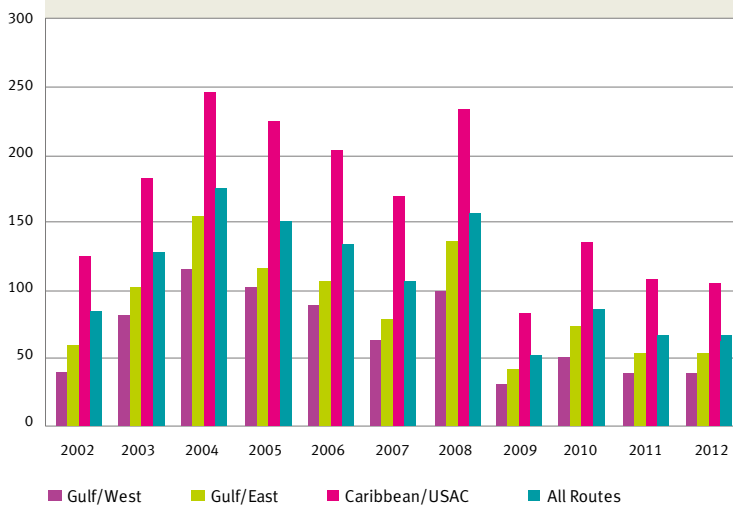
Transportation

Spot tanker freight rates for all sizes

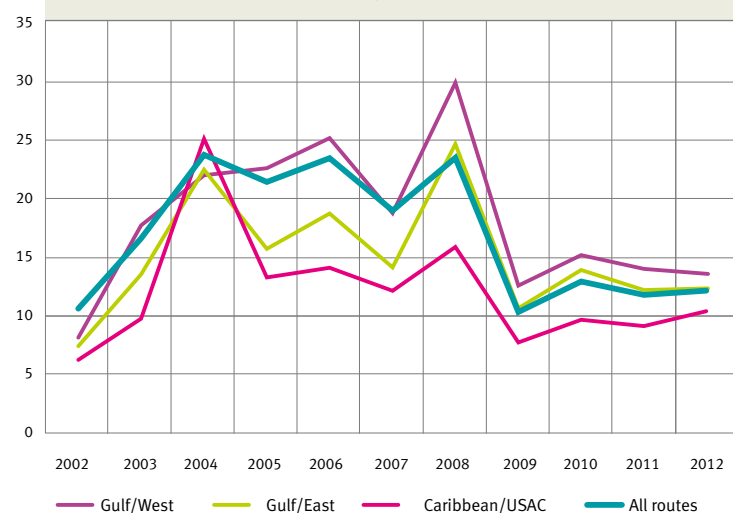
	Gulf/West		Gulf/East		Caribbean/USAC		all routes	
	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t	% of Worldscale	equivalent \$/t
2002	40	7.99	60	7.25	125	6.10	85	10.48
2003	82	17.60	102	13.38	182	9.61	128	16.46
2004	116	21.88	155	22.35	245	24.99	175	23.61
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
2012	33	13.47	48	12.19	105	10.22	62	11.96

Notes: The above rates are calculated from all spot fixtures reported during the month for each route. USAC = US Atlantic Coast.

Graph 4.5: Spot tanker freight rates (% of Worldscale)



Graph 4.6: Spot tanker freight costs (% of Worldscale)





**Table 4.9**  
Transportation

Crude oil pipelines in OPEC Members, 2012

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
<b>Algeria</b>					
Haoud El Hamra/Bejaia	Sonatrach/TRC	415	24	12,000,000	11,550,000
Haoud El Hamra/Skikda	Sonatrach/TRC	400	34	30,000,000	14,060,000
Haoud El Hamra/Arzew	Sonatrach/TRC	498	28	11,000,000	
Haoud El Hamra/Arzew	Sonatrach/TRC	511	34	34,000,000	23,870,000
Haoud El Hamra/La Skhira (Tunisia)	Sonatrach/TRC	165	24	8,000,000	170,000
<b>Angola</b>					
PAM F1/PAL P2	SNL P & P	23	16	na	na
Rosa/Rosa	Total	26	8	na	na
Rosa/Rosa	Total	40	8	na	na
Acacia /FPSO PazFlor	Total	35	16	na	na
South Produciton Loop	BP	20	12	na	na
Production North	BP	21–22	12	na	na
Service North/Looped with SPL	BP	21	12	na	na
North	BP	25	14	na	na
South	BP	29	12	na	na
South Nemba / East Kokongo	Chevron	22	18	na	na
GIP – FOX /Sanha FSO	Chevron	39	6	na	na
South Nemba/Gip Fox	Chevron	44	16	na	na
TL/BB	Chevron	30	14	na	na
Loop/PSVM	BP	40	12	na	na
<b>Ecuador</b>					
Lago Agrio/Esmeraldas	Transpecuador (state)	305	26/20/26	19,590,000	17,169,786
Lago Agrio/Esmeraldas	Pesados Ecuador SA (private)	301	24/36	24,660,000	7,210,877
<b>IR Iran</b>					
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
<b>Iraq</b>					
Kirkuk/Salaheldien	OPC	84	26	15,034,216	12,016,189
Baiji (K2)/Daura	OPC	213	12/16	4,510,265	3,497,128
East Baghdad/Daura	OPC	60	16	1,879,277	–
Nafut Khana/Daura	OPC	130	12	902,053	264,840
Strategy/Theqar refinery	OPC	32	20	6,577,469	1,327,290
Strategy/Daura refinery	OPC	110	18	4,948,763	1,312,548
Strategy/Musaib PWR St	OPC	48	16	–	–

**Table 4.9**

## Transportation

## Crude oil pipelines in OPEC Members, 2012

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
<b>Kuwait</b>					
Wafa/Mab	KGOC	32.3	16	na	641,795
Wafa/Burgan	KGOC	23.8	16	na	3,575,593
Wafa/Burgan	KGOC	37.9	20	na	1,195,477
Kadji Offshore/KJO onshore	KJO	4 x 31	26/26/36/24	na	na
<b>Libya</b>					
Sarir/Tobruk	Arabian Oil	318.06	34	24,897,681	na
Messla/Amal	Arabian Oil	127.72	42	23,652,797	na
Magid/Nafoora	Arabian Oil	65.1	14	2,788,540	na
Nafoora/Amal	Arabian Oil	32.24	32	16,183,492	na
Hamada/Az-Zawiyah	Arabian Oil	239.94	18	4,481,583	na
Zaggut/Es-Sider	Waha Oil	165.54	24	10,954,980	na
Waha/Zaggut	Waha Oil	26.66	24	24,748,295	na
Waha/Samah	Waha Oil	39.68	24	15,038,199	na
Gialo/Waha	Waha Oil	94.24	30	19,918,145	na
Zaggut/Samah	Waha Oil	21.7	24	13,793,315	na
Samah/Dahra	Waha Oil	114.08	32	31,620,055	na
Dahra/Bahi Gathering	Waha Oil	42.78	30	34,209,413	na
Bahi Gathering/Es-Sider	Waha Oil	44.02	30	31,371,078	na
Bahi Gathering/Es-Sider	Waha Oil	44.02	30	20,914,052	na
Faregh/Gialo	Waha Oil	40.3	12	2,489,768	na
Nasser/Al-Brayqah	Sirte	106.64	36	38,840,382	na
Raguba/NasserAl-Brayqah line	Sirte	54.56	20	7,469,304	na
Asharara/Az-Zawiyah	Akakus	450.74	30	9,959,072	na
Intisar (A103)/Azzuwaytinah	Zuetina	136.4	40	49,795,362	na
Sabah/Zella	Zuetina	56.42	16	1,991,814	na
Zella/Hofra	Zuetina	70.06	20	3,734,652	na
Amal/Ras Lanuf	Harouge	169.26	36	23,752,387	na
Amal/Ras Lanuf	Harouge	169.26	30	13,195,771	na
Hofra/Aseida gathering	Harouge	35.34	24	7,469,304	na
(Ora-Beda)/Aseida gathering	Harouge	84.32	24	7,469,304	na
Aseida/Ras Lanuf	Harouge	54.56	30	12,448,840	na
Dor Marada/Ora	Harouge	50.84	10	995,907	na
Bu-Attifel/Intesar	Mellitah Oil and Gas	82.46	30	18,025,921	na
Rimal/Bu-Attifel	Mellitah Oil and Gas	47.12	12	2,639,154	na
El-Feel/Asharara	Mellitah Oil and Gas	46.5	24	16,283,083	na
Asharara/Mellitah	Mellitah Oil and Gas	450.74	30	9,959,072	na
<b>Nigeria</b>					
Alakiri/Bonny	SPDC	21	24	na	na
Bonny/Ph refinery	NNPC/PPMC	34	24	na	na
Brass creek/Forcados	SPDC	34	24	na	na
Edop/Qit	MPN	30	24	na	na
Escravos/Warri/Kaduna	NNPC/PPMC	421	24-16	na	na
Idoho PP/Qit	MPNU	48	24	na	na
Ogoda/Brass	NAOC	62	24	na	na

**Table 4.9**  
Transportation

Crude oil pipelines in OPEC Members, 2012

<b>Nigeria</b> ( <i>cont'd</i> )	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
Oso/Qit	MPNU	31	18	na	na
Qit/tanker berth	MPN	45	42	na	na
Qit/Oso	MPNU	37	36	na	na
Rapele/Forcados	SPDC	31	28	na	na
Tebidaba/Brass	NAOC	57	24	na	na
Sapele/Forcados	SPDC	49	28	na	na
Tebidaba/Brass terminal	NAOC	57	24	na	na
TNP/Bonny	SPDC	80	36	na	na
<b>Qatar</b>					
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
<b>Saudi Arabia</b>					
Abqaiq/Yanbu	Saudi Aramco	748	56	na	na
Shaybah/Abqaiq	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, 3x34	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

**Table 4.9**

## Transportation

## Crude oil pipelines in OPEC Members, 2012

<b>Saudi Arabia</b> ( <i>cont'd</i> )	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
Khoobar 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
<b>United Arab Emirates</b>					
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
<b>Venezuela</b>					
PT Bachaquero/T Puerto Miranda	PDVSA	66.5	30	23,503,588	8,404,023
PT Bachaquero/T Puerto Miranda	PDVSA	66.5	30	20,874,897	3,939,486
T Puerto Miranda/T Cardon	PDVSA	141.4	30	14,519,799	10,453,383
TPTA De Palma/T Puerto Miranda	PDVSA	42.3	24	14,586,183	2,357,348
PT Ulé (línea 1)/T Amuay	PDVSA	25.9	24	–	–
PT Ulé (línea 1)/T Amuay	PDVSA	117.2	26	15,336,598	8,805,247
PT Ulé (línea 2)/T Amuay	PDVSA	143	26	16,562,414	9,497,132
PT Lagunillas/T La Salina	PDVSA	26.1	34	28,642,854	1,815,900
PTT (T-54) SB/Km52	PDVSA	62.1	26	29,877,217	6,977,417
Km52 (T-54) SB/PLC (T-54)	PDVSA	32.3	16	6,971,351	2,083,947
Km52 (T-52 Mobil) SB/PLC (T-52)	PDVSA	32.3	16	6,971,351	2,083,947
Km52 (T-52 Evengas) SB/PTA	PDVSA	32.3	16	5,975,443	2,533,028
Km52 (T254) SB/José (T-54)	PDVSA	29.2	36	24,897,681	253,329
PTT (T-54) MA/Km52	PDVSA	62.1	16	6,971,351	6,885,445
PTT (T-54) MA/Naricual (T-54)	PDVSA	81.4	30	38,342,428	24,412,031
Km52 (T-54) MA/José (T-54)	PDVSA	29.2	36	24,897,681	14,118,427
Jus_Ma/Azagua	PDVSA	36.7	20	5,975,443	3,066,259
Azagua Ma/Mor	PDVSA	88.2	30	6,971,351	1,862,248
EPM-1/PTO	PDVSA	91.264	36	19,906,931	15,829,210
QQ (Diluenducto Quiriquire)/EPT-1	PDVSA	84.32	30	6,092,480	5,080,825
PTO/José	PDVSA	97.5598	42	29,860,396	27,724,328
PTO/TAEG	PDVSA	96.6277	30	11,210,164	9,475,143
Km-52/TAEJ	PDVSA	34.177	36	25,344,719	18,950,285
Km27 (T-52 Evengas) MO/Plc	PDVSA	16.9	16	7,962,772	87,416
Km52 (T-52 Evengas) SB/PTA	PDVSA	32.5	16	3,667,438	2,429,140
PTA (T-52) SB/PTO	PDVSA	32.5	16	3,438,223	2,533,921
ACO (T-53)/Plc (T-53)	PDVSA	62.5	16	3,335,858	1,063,256
Matalarga/PTS	PDVSA	164.92	20	7,469,304	969,752
Barinas/Elpalito	PDVSA	215.14	20	7,469,304	1,104,546
La Victoria/Las Monas	PDVSA	24.8	16	2,987,722	322,793
ZPS/JPS	PDVSA	124.274	36	25,707,914	12,751,810
Copen/PTO	PDVSA	88.2347	30	15,612,092	16,037,552
Cijja/PTO	PDVSA	96.1	20	5,570	5,346,771

Notes: Figures as at year-end.

**Table 4.10**  
Transportation

Gas pipelines in OPEC Members, 2012

	Owner or operator	Length (miles)	Diameter (inches)	Capacity	Amount transported
<b>Algeria</b>					
				(1,000 scm/yr)	
Hassi R'Mel/Arzew (GZ0)	Sonatrach	316	20/20	980,000	511,472
Hassi R'Mel/Arzew (GZ1/GZ2/GZ3)	Sonatrach	315/318/318	40/40/42	32,720,000	24,021,299
Hassi R'Mel/Arzew–Beni Saf (GZ4)	Sonatrach	321	48	11,250,000	7,213,008
Hassi R'Mel/Bordj Menail (GG1)	Sonatrach	272	42	11,300,000	5,634,201
Hassi R'Mel/Skikda (GK1/GK2)	Sonatrach	357	42/42	20,470,000	10,162,986
Hassi R'Mel/Skikda E kala (GK3)	Sonatrach	433	48	9,670,000	32,228
Hassi R'Mel/Oued Safsaf (GEM)	Sonatrach	–	48	32,720,000	23,724,447
Hassi R'Mel/El Aricha (GEM)	Sonatrach	324	48	11,600,000	10,622,299
Alrar/Hassi R'Mel (GR1–GR2)	Sonatrach	597/597	42/48	35,010,000	30,395,143
<b>Angola</b>					
Block15-Block14-Block17-Block18/ Soyo	Sonangás	310	18/22/24	na	na
<b>Ecuador</b>					
Marina Amistad/Válvula de Playa	EDC Ecuador Ltd	41.78	13	1,188,600	435,368
<b>IR Iran</b>					
Bid Boland–1 refinery/Astara		685	56	110,000	na
Kangan/Gazvin	NIOC	685	42, 48	110,000	na
Asaluyeh/Rasht (Gilan province)	NIOC	264	56	110,000	na
Asaluyeh/Saveh (Markazi province)	NIOC	712	56	110,000	na
Asaluyeh/Aghajari oil field	NIOC	313	42	95,000	na
Asaluyeh/Bid Boland–1 refinery/Dehgolan	NIOC	306	56	110,000	na
Asaluyeh/Iranshahr	NIOC	561	56	100,000	na
Asaluyeh/Tehran	NIOC	668	56	110,000	na
Asaluyeh/Astara	NIOC	1,158	56	110,000	na
Asaluyeh/Tiran (Esfahan province)	NIOC	108	56		
<b>Iraq</b>					
North Gas/Baiji	OPC	90	24	8,900,000	1,054,451
Baiji–K3–/Al Kaem	OPC	268	16	2,410,000	20,957
Baiji/Al Mushraq	OPC	131	18	4,700,000	631,395
North Gas Co/K1	OPC	21	18	5,264,000	481,933
North Gas Co/Taji	OPC	272	16	3,087,000	806,707
Taji/South Baghdad PWR St	OPC	35	18	2,000,000	298,651
Strategy/Kabesa Cement	OPC	24	10	671,000	40,273
Strategy/Hilla PWR St	OPC	45	16	700,000	207,941
Strategy/Najaf PWR St	OPC	23	16	2,100,000	91,797
North Rumela/Khor Al–Zubair	OPC	54	42	10,000,000	927,745
Khor Al–Zubair/Hartha PWR St	OPC	48	24	4,808,000	45,885
Rumela/Nasriyaha	OPC	134	24	10,420,000	–
Trans–Iraq/Nasriyaha	OPC	321	42	11,033,000	435,677
Abu Alkhaseeb pipeline		50	18/10	98,400	–
<b>Kuwait</b>					
Kafdji Offshore/KJO (42)	KJO	na	42	na	na
Kafdji Offshore/KJO (12)	KJO	na	12	na	na
Wafa/KOCBS (18)	WJO	na	18	na	na
<b>Libya</b>					
Wafa/Mellitah	Mellitah Oil and Gas	325.5	32	4,651,657	na
Bahr Assalam/Mellitah	Mellitah Oil and Gas	68.2	36	9,199,943	na
Mellitah/Gela	Green Stream	334.8	32	10,957,236	na
Intesar/Brega	Zueitina	128.34	42	15,505,523	na
103D/103A	Zueitina	16.12	40	6,512,319	na
Bu–Attifel/Intesar	Mellitah Oil and Gas	82.46	34	4,134,806	na
Bouri/Bahr Assalam	Mellitah Oil and Gas	12.4	10	1,416,171	na
Waha/Nasser	Waha	68.2	24	2,067,403	na
Faregh/Intesar	Waha	68.2	24	2,584,254	na
Brega/Benghazi	Sirte Oil	152.52	34	5,168,508	na

**Table 4.10**

## Transportation

## Gas pipelines in OPEC Members, 2012

	Owner or operator	Length (miles)	Diameter (inches)	Capacity	Amount transported
<b>Libya (cont'd)</b>					
<i>(1,000 scm/yr)</i>					
Brega/Khoms	Sirte Oil	399.9	34	7,235,911	na
Khoms/Tripoli	Sirte Oil	77.5	34	7,235,911	na
Tripoli/Mellitah	Sirte Oil	60.76	34	7,235,911	na
Nasser/Brega	Sirte Oil	106.64	36	5,426,933	na
Attahaddy/km-91.5	Sirte Oil	15.5	30	10,337,015	na
Km-81.5/Brega	Sirte Oil	50.84	30	3,101,105	na
Raguba/km-110	Sirte Oil	54.56	20	1,447,182	na
Intesar/Sahel	Sirte Oil	49.6	30	7,235,911	na
Sahel/km-81.5	Sirte Oil	30.38	30	7,132,540	na
Km-91.5/Brega	Sirte Oil	57.04	36	7,752,761	na
Jakhira/Intesar	Wintershall	49.6	20	878,646	na
Wafa/Mellitah	Mellitah Oil and Gas	325.5	16	795,950	na
Bahr Assalam/Mellitah	Mellitah Oil and Gas	68.2	10	465,166	na
Intesar (103A)/Zueitina	Zueitina	136.4	20	702,917	na
Km-91.5/Brega	Sirte Oil	57.04	16	258,425	na
Attahaddy/Km-91.5	Sirte Oil	15.5	12	516,851	na
Bu-Attifel/Intesar (103A)	Eni Oil	82.46	10	258,425	na
Bouri (offshore)/Bahr Asslam (Sabratah platform)	Mellitah Oil and Gas	12.4	4	37,213	na
Jakhira/Intesar (103A)	Wintershall	49.6	8	139,550	na
<b>Nigeria</b>					
Aladja/Aladja	Nigerian Gas Company	65	6,8,14,16	654,206	0
Oben/Ajaokuta	Nigerian Gas Company	122	24	1,869,159	3,493
Ajaokuta/Obajana	Nigerian Gas Company	56	18	1,074,766	442,176,914
Oben/Sapele	Nigerian Gas Company	22	18	1,121,495	781,336,333
Oben/Geregu	Nigerian Gas Company	122	36	1,869,159	426,081,076
Escravos/Wgtp	Nigerian Gas Company	35	20/24	2,803,738	
Utorogu/Ughelli	Nigerian Gas Company	22	30	2,523,364	676,224,063
Warri/Egbin node (PS4)	Nigerian Gas Company	213	36	10,280,374	
WGTP/WRPC	Nigerian Gas Company	35	20/24	2,803,738	105,802,045
KP 331/Itoki	Nigerian Gas Company	25	24	10,280,374	468,606,794
Imo River/Aba	Nigerian Gas Company	20	12	327,103	16,204,728
Alakiri/Ikot-Abasi	Nigerian Gas Company	73	14/16/24	1,495,327	0
Int Scrapper Station/Ikot-Abasi	Nigerian Gas Company	23	24	1,495,327	238,026,480
Ikpe Anang/Ehgc	Nigerian Gas Company	67	18	1,682,243	0
Ewekoro node/Abeokuta	Nigerian Gas Company	20	24	934,579	0
Alagbado/Ota-Agbara	Nigerian Gas Company	25	24	1,598,131	255,334,352
Kew Metal/Ogijo	Nigerian Gas Company	62	6	233,645	0
Itoki/Ibese	Nigerian Gas Company	21	18	841,121	357,408,560
Ubeta/RumujiE (GTS-1)	Nig LNG Ltd	21	28	7,234,886	na
Soku/Rumuji (GTS-1)	Nig LNG Ltd	25	28	6,201,331	na
Rumuji/Bonny (NLNG)	Nig LNG Ltd	53	36	12,919,439	na
Soku/Bonny (NLNG)	Shell PDC Ltd	51	40	14,469,772	na
Bonga/Riser (OGGS/GTS-3)	Shell PDC Ltd	56	16	2,067,110	na
Riser/Bonny (NLNG)	Shell PDC Ltd	164	32	12,402,662	na
Obiafu/Rumuji (GTS-4)	Nig Agip Oil Co Ltd	39	24	5,167,776	na
Rumuji/Bonny (NLNG )	Nig Agip Oil Co Ltd	51	36	7,234,886	na
Akpo/Amenan (GTS-5)	TOTAL EPNG Ltd	93	16	3,307,376	na
Amenan/Bonny (NLNG)	TOTAL EPNG Ltd	34	24	7,338,242	na
Gbaran/Soku	Shell PDC Ltd	34	40	14,469,772	na
Gbaran/Soku	Shell PDC Ltd	33	40"	na	na
Ogboinbri/Obiafu Okrikom	Nig Agip Oil Co Ltd	75	24"	na	na
Obama/Brass	Nig Agip Oil Co Ltd	25	4.5"	na	na
Edop/Oso Riser	Mobil Producing Nig	25	32"	na	na
Oso/Bonny (terminal)	Mobil Producing Nig	40	24"	na	na
Ggsp/Escravos	Chevron Nigeria Ltd	22	20"	na	na

**Table 4.10**  
Transportation

Gas pipelines in OPEC Members, 2012

	Owner or operator	Length (miles)	Diameter (inches)	Capacity	Amount transported
<b>Nigeria (cont'd)</b>					
				(1,000 scm/yr)	
Escravos/FSO vessel	Chevron Nigeria Ltd	22	8.6	na	na
Escravos/FSO Vessel	Chevron Nigeria Ltd	28	8.6	na	na
<b>Qatar</b>					
Ras-Laffan (Qatar)/Abu Dhabi (UAE)	Dolphin Energy	230	48	412,420,800	10,471,233
<b>Saudi Arabia</b>					
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/Juanyamah	Saudi Aramco	127	28/30/38/40	na	na
Safaniah PS/Juanyamah	Saudi Aramco	123	40	na	na
AY-1 KP 943/Riyadh	Saudi Aramco	95	48	na	na
Tanajib/Berri	Saudi Aramco	90	30	na	na
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
<b>United Arab Emirates</b>					
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/AI Ain	ADNOC	100	30	na	na
Murgam/Jabel Ali	Dubai-Government	47	24	na	na
Sajaa/Sharjah	Emmarat	27	18/6/4	na	na
<b>Venezuela</b>					
Anaco/Barquisimeto	PDVSA	1,565	36, 30, 26, 20, 16, 12, 10, 8	14,252	9,168,345
Anaco/PTO Ordaz	PDVSA	400	36, 26, 20, 16	7,798	3,317,970
Anaco/PTO La Cruz	PDVSA	230	36, 26, 20, 16, 12	9,024	7,111,411
Estacion de Flujo/Estacion de Vavulas	EM Petrodelta	63.31	12	1,033,680	107,804
Centro de Operaciones Muscar/ Estacion de Vavulas Sota	PDVSA	71.5	26	7,751,737	4,609,809
Planta de Extraccion Santa Barbara/ Planta Aguasay	PDVSA	40.73	36	11,885,996	7,262,574
Planta Quiriquire/Planta Jusepin	PDVSA	32.32	20	3,617,443	2,169,873
Antonio Ricaute 3	PDVSA	125.71	26	1,460,000	206,000
Interconexion	PDVSA	164.25	30-36	1,642,500	205,000
Siestema Ule (Son 2 Líneas)	PDVSA	221.92	16/20	949,000	206,502
San Genaro de Boconoito/Obispo	PDVSA	27.34	12	826,856	320,208

**Table 4.11**

## Transportation

## Petroleum product pipelines in OPEC Members, 2012

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
<b>Algeria</b>					
Sidi Arcine/Chiffa (Blida)	Naftal	29.78	10	1,608,000	837,000
Skikda/Khroub	Naftal	55.61	12	1,809,000	1,845,000
Arzew/Sidi Bel Abbès	Naftal	45.16	12	1,407,000	735,000
Sidi Bel Abbès/Sidi Abdeli	Naftal	31.61	10		
Sidi Abdeli/Remchi	Naftal	14.12	8		
Arzew/Oran	Naftal	18.63	8	1,608,000	811,000
Skikda/Berrahal <sup>1</sup>	Naftal	52.82	12	2,154,000	–
Khroub/Kroub <sup>1</sup>	Naftal	65.1	16	2,908,000	–
Skikda/EIEulma <sup>1</sup>	Naftal	63.86	16	2,908,000	–
Sidi Arcine/Blida	Naftal	24	10	660,000	140,000
Skikda/Khroub	Naftal	57	10	528,000	353,000
Arzew/Sidi Bel Abbès	Naftal	45	10	330,000	202,000
Sidi Bel Abbès/Tlemcen	Naftal	44	8		
Skikda/Berrahal <sup>1</sup>	Naftal	46	8	800,000	–
<b>Angola</b>					
Angola-Zambia <sup>1</sup>	Sonangol	868	na	na	200,000
<b>Ecuador</b>					
Esmeraldas/Santo Domingo	Petrocomercial	101	16	2,967,945	na
Santo Domingo/Beaterio (Quito)	Petrocomercial	54	12	2,374,356	na
Santo Domingo/Pascuales (Guayaquil)	Petrocomercial	170	10	1,780,767	na
Libertad/Barbasquilo (Guayaquil)	Petrocomercial	104	6	373,961	na
Libertad/Pascuales (Guayaquil)	Petrocomercial	78	10	676,691	na
Shushufindi/Beaterio (Quito)	Petrocomercial	187	6	316,846	na
Quito/Ambato	Petrocomercial	69	6	534,230	na
<b>IR Iran</b>					
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



**Table 4.11**  
Transportation

Petroleum product pipelines in OPEC Members, 2012

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
<b>Iraq</b>					
Baiji/Hamam Alil	OPC	167	16	12,851,296	939,431
Hamam Alil/Felfel	OPC	65	32	12,851,296	
Baiji/Kirkuk	OPC	86	12	5,140,518	854,879
Baiji/T1	OPC	242	16	4,283,765	0
Baiji/Mushahdah	OPC	168	22	21,418,827	519,576
Baiji/Mushahdah	OPC	168		8 179,061,392	288,461
North Gas/Salah Al-Dean refinery	OPC	86	8	2,484,584	0
Mushahdah/Karkh	OPC	111	12	7,796,453	0
Mushahdah/Rusafa	OPC	52	12	7,282,401	400,615
Duara/Rusafa	OPC	51	10	5,140,518	295,536
Rusafa/Diala	OPC	25.4	8	4,283,765	114,088
Nasuria/Duara	OPC	379	10/14	4,712,142	1,267,305
Shuaiba/Nasuria	OPC	162	14	5,140,518	238,111
Shuaiba/Nasuria	OPC	164	10	5,140,518	1,207,689
Shuaiba/Khour Al-Zubair	OPC	45	8/10	2,998,636	1,072,173
Shuaiba/Khour Al-Zubair	OPC	45	10	7,710,778	1,804,161
Shuaiba/Muftia	OPC	21	10	2,570,259	633,334
Nasuria/Kut	OPC	186	8	1,850,587	400,410
Daura/Baghdad international airport	OPC	28	8	2,707,340	42,336
Karkh/Habania	OPC	156	16x31, 12x125	3,855,389	–
<b>Kuwait</b>					
MAA refinery/Suhan (Mogas)	KNPC	20	12	na	na
MAA refinery/Kafco	KNPC	25	8	na	na
MAA refinery/Suhan (kero and gas oil)	KNPC	20	8	na	na
MAA refinery/Al-Zour	KNPC	52	18/16	na	7,288,916
Shuaiba/Kafco	KNPC	22	8	1,577,000	532,968
Shuaiba/ML (unleaded gasoline)	KNPC	22	10	1,883,000	1,170,473
Shuaiba/Kafco LM (gas oil)	KNPC	22	8	2,260,000	592,144
<b>Libya</b>					
Azzawiya/Airport Road Depots	Elbrega Co	34.1	16	2,480,646	na
Azzawiya/Airport Road Depots	Elbrega Co	34.1	10	1,879,277	na
Azzawiya/Janzour	Elbrega Co	21.08	8	751,711	na
Azzawiya/Elwettia	Elbrega Co	55.8	16	3,006,843	na
Azzawiya/Al-Jmail	Elbrega Co	40.3	16	3,006,843	na
<b>Nigeria</b>					
Warri/Benin	PPMC	55.93	16	32,300	na
Benin/Ore	PPMC	70.84	14		na
Ore/Moisimi	PPMC	93.83	12		na
Auchi/Benin	PPMC	66.49	12	8,000	na
Atlascove/Moisimi	PPMC	30.45	16	8,800	na
Moisimi/Ibadan	PPMC	49.09	12	6,000	na

**Table 4.11**

## Transportation

## Petroleum product pipelines in OPEC Members, 2012

	Owner or operator	Length (miles)	Diameter (inches)	Capacity (m t)	Volume (m t)
<b>Nigeria (cont'd)</b>					
Ibadan/Ilorin	PPMC	105.64	6	3,300	na
Enugu/Auchi	PPMC	105.02	12	12,500	na
Auchi/Suleja	PPMC	155.35	12	18,500	na
Suleja/Minna	PPMC	49.71	8	3,000	na
Suleja/Kaduna	PPMC	93.21	12	11,000	na
<b>Qatar</b>					
QP Refinery/WOQOD, Doha	QP Refinery	27	12	2,202,677	2,163,307
QP Refinery/WOQOD, Doha	QP Refinery	26	18	6,147,352	1,877,349
QP Refinery/WOQOD, Doha	QP Refinery	19	6	299,592	89,529
QP Refinery/Export berth	QP Refinery	4	16	11,269,513	12,599
QP Refinery/Export berth	QP Refinery	4	20	7,161,957	310,981
<b>Saudi Arabia</b>					
Dharan/Riyadh	Saudi Aramco	246	20	na	na
Riyadh/Qasim	Saudi Aramco	225	16	na	na
Yanbu/Madina	Saudi Aramco	93	14	na	na
Ras Tanura/Dhahran	Saudi Aramco	66	20	na	na
Ras Tanura/Dhahran	Saudi Aramco	23, 22	12, 12	na	na
Abqaiq/Alhasa	Saudi Aramco	40	8	na	na
<b>United Arab Emirates</b>					
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
<b>Venezuela</b>					
Puerto La Cruz/San Tomé	PDVSA	99.4	16	1,217,585	604,727
San Tomé/Maturin	PDVSA	99.4	8	936,604	776,939
San Tomé/Puerto Ordaz	PDVSA	124.27	12	1,217,585	735,521
Puerto Ordaz/Ciudad Bolivar	PDVSA	43.5	8	1,217,585	315,083
Bajo Grande/San Lorenzo	PDVSA	70	12	3,199,875	986,843
San Lorenzo/El Vigia	PDVSA	104	12	2,687,895	1,550,569
Carenero plant/Guatire plant	PDVSA	45	16	3,278,113	2,484,375
El Palito refinery/Yagua plant	PDVSA	29.3	16	2,506,792	2,615,852
El Palito refinery/Barquisimeto plant	PDVSA	95	12	2,154,189	2,690,556

Notes: Figures as at year-end. Pipelines shorter than 20 km are not reported.

1. Project underway.



# SECTION 5

## Prices

**Table 5.1**

P r i c e s

## OPEC Reference Basket (ORB) and corresponding spot components prices (\$/b)

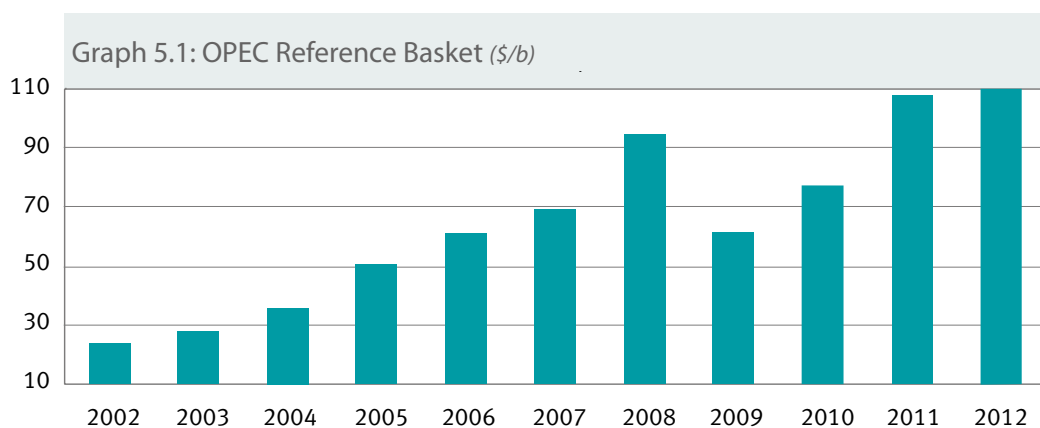
	Algeria	Angola	Ecuador	IR Iran	Iraq	Kuwait	Libya	Nigeria	Qatar	Saudi Arabia	UAE	Venezuela	ORB	ORB	Coefficient of
	Saharan Blend	Girassol	Oriente	Iran Heavy	Basra Light	Kuwait Export	Ess Sider	Bonny Light	Marine	Arab Light	Murban	Merey <sup>1</sup>	volatility <sup>2</sup>	variation <sup>3</sup>	
2002	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	3.09	13
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	2.17	8
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	4.52	13
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	5.40	11
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	5.17	8
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	11.56	17
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	28.43	30
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	12.65	21
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	5.38	7
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	6.50	6
2012	111.49	112.21	102.76	109.06	107.96	108.93	111.86	113.66	109.26	110.22	111.76	100.06	109.45	7.96	7

**Notes:** OPEC Reference Basket (ORB): 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.

2. Standard deviation of daily price quotations.

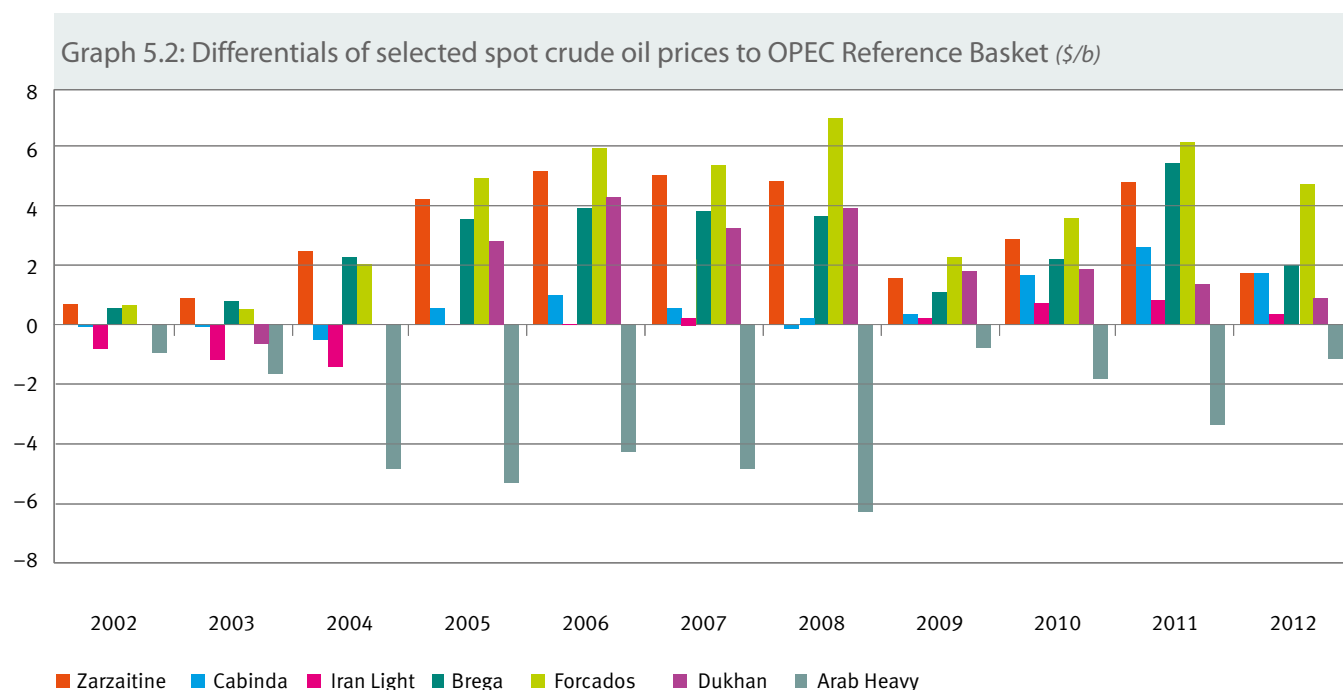
3. Ratio of standard deviation to average annual price, expressed as percentage.



## Selected spot crude oil prices (\$/b)

	Algeria Zarzaitine	Angola Cabinda	IR Iran Iran Light	Libya Brega	Nigeria Forcados	Qatar Dukhan	Saudi Arabia Arab Heavy
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
2012	111.18	112.10	109.79	111.45	114.21	110.34	108.32

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



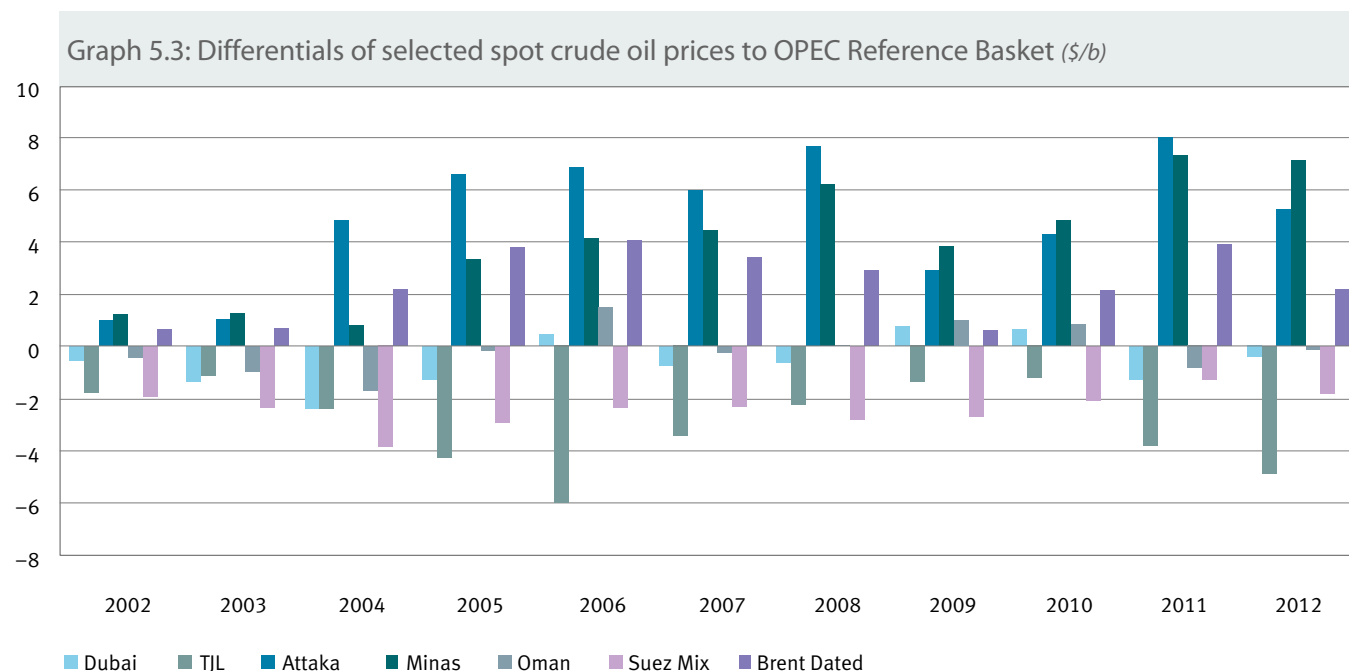
**Table 5.2**

P r i c e s

## Selected spot crude oil prices (\$/b)

	UAE Dubai	Venezuela TJL	Indonesia Attaka	Indonesia Minas	Oman Oman	Egypt Suez Blend	UK Brent Dtd
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
2012	109.07	104.60	114.71	116.60	109.35	107.62	111.62

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



Selected spot crude oil prices (\$/b)

	UK Forties	Norway Ekofisk	Norway Oseberg	Mexico Isthmus	Mexico Maya	China Daqing	Malaysia Tapis
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
2012	111.62	112.76	112.98	106.55	99.65	113.41	116.98

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

Graph 5.4: Differentials of selected spot crude oil prices to OPEC Reference Basket (\$/b)



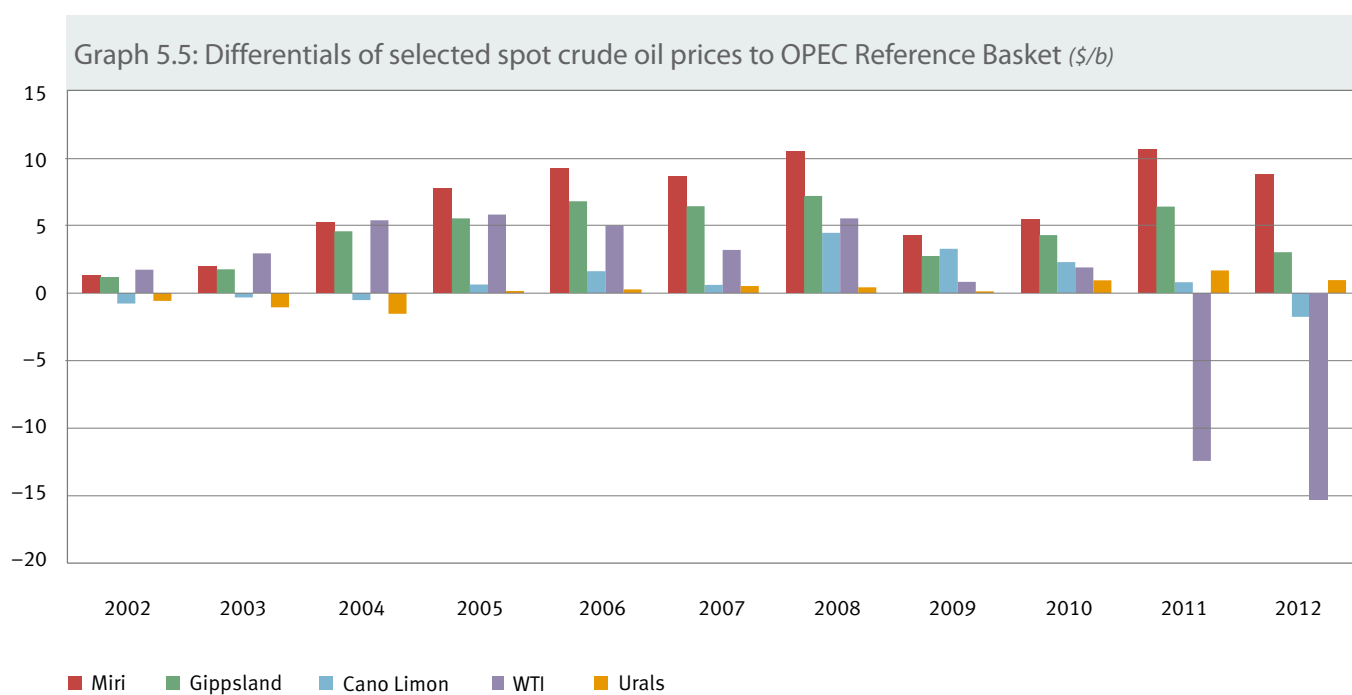
**Table 5.2**

P r i c e s

## Selected spot crude oil prices (\$/b)

	Malaysia Miri	Australia Gippssland	Colombia Cano Limon	USA WTI	Russia Urals
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
2012	118.25	112.49	107.66	94.10	110.49

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





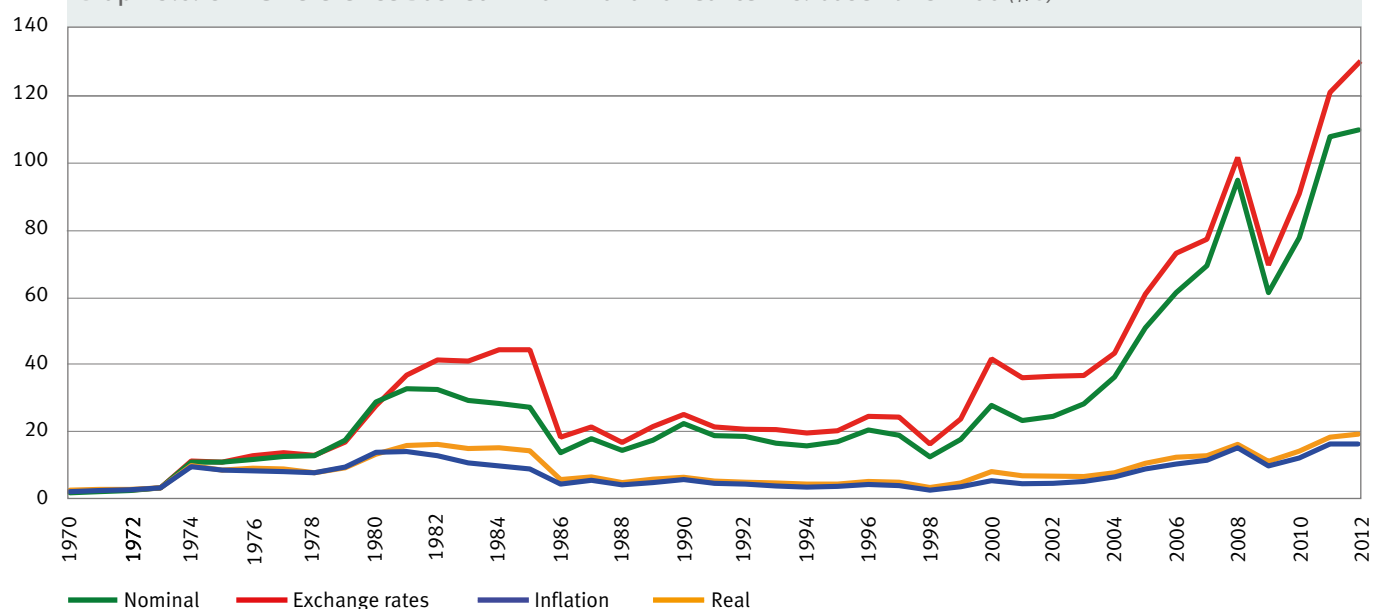
OPEC Reference Basket in nominal and real terms (\$/b)

	Nominal ORB <sup>1</sup>	Exchange rates <sup>2</sup>	Nominal ORB adjusted for Inflation <sup>3</sup>	Combined <sup>4</sup>
2002	24.36	36.24	4.44	6.61
2003	28.10	36.44	5.02	6.51
2004	36.05	43.12	6.31	7.55
2005	50.64	60.60	8.67	10.38
2006	61.08	72.74	10.23	12.18
2007	69.08	76.96	11.32	12.61
2008	94.45	101.28	14.98	16.06
2009	61.06	69.26	9.65	10.94
2010	77.45	90.40	12.02	14.03
2011	107.46	120.55	16.19	18.16
2012	109.45	129.32	16.11	19.03

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: OPEC Reference Basket 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 <sup>1</sup>	fuel oil	gasoline <sup>1</sup>	gasoil <sup>2</sup>	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
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
2012	121.73	126.02	99.36	126.41	128.15	103.17	127.29	129.24	100.10

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.

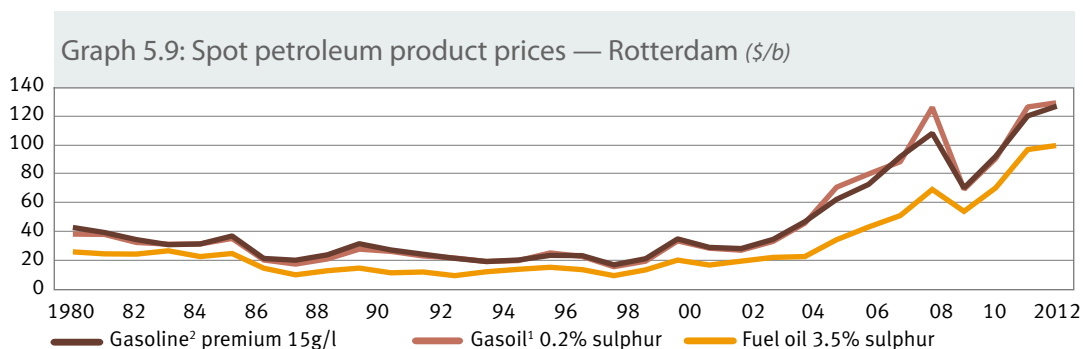
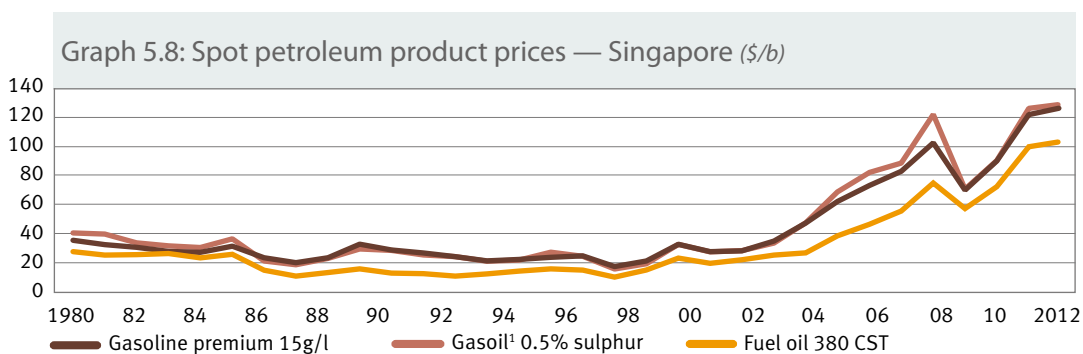
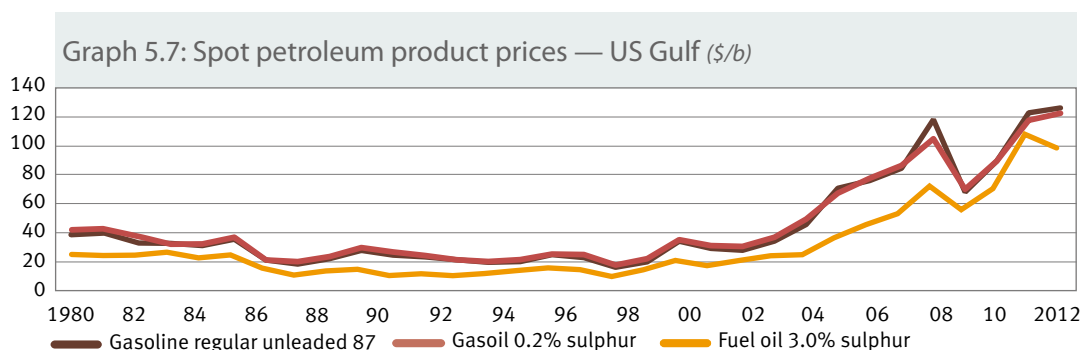


Table 5.5

P r i c e s

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

	FX rate to \$	2008	FX rate to \$	2009	FX rate to \$	2010	FX rate to \$	2011	FX rate to \$	2012
<b>Algeria</b>	64.6		72.0		74.4		72.9		77.6	
Gasoline		2,226.7		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		na		na		na		na		na
<b>Angola</b>	75.0		78.2		78.2		78.2		96.4	
Gasoline		na		28,084.2		28,084.2		9,540.0		9,540.0
Diesel oil		na		14,028.6		14,028.6		6,360.0		6,360.0
Kerosene		na		15,690.1		15,690.1		3,339.0		3,339.0
Fuel oil		na		50.8		50.8		49.0		49.0
<b>Ecuador</b>	1.0		1.0		1.0		1.0		1.0	
Gasoline		238.1		238.1		238.1		238.1		238.1
Diesel oil		143.4		143.4		143.4		143.4		143.4
Kerosene		143.4		143.4		143.4		143.4		143.4
Fuel oil		89.5		89.5		89.5		89.5		89.5
<b>IR Iran</b>	9,467.0		9,878.4		10,066.5		1,225.0		1,250.0	
Gasoline		174,900.0		198,750.0		198,750.0		755,250.0		1,192,500.0
Diesel oil		26,235.0		26,235.0		26,235.0		238,500.0		159,000.0
Kerosene		26,235.0		26,235.0		26,235.0		238,500.0		159,000.0
Fuel oil		10,104.5		10,104.5		20,208.9		318,000.0		318,000.0
<b>Iraq</b>	1,193.1		1,160.2		1,167.2		1,167.2		1,167.2	
Gasoline		71,550.0		71,550.0		67,575.0		71,550.0		71,550.0
Diesel oil		63,600.0		63,600.0		186,030.0		63,600.0		63,600.0
Kerosene		35,775.0		35,775.0		15,900.0		23,850.0		23,850.0
Fuel oil		41,737.5		41,737.5		na		15,900.0		15,900.0
<b>Kuwait</b>	0.3		0.3		0.3		0.3		0.3	
Gasoline		11.4		11.4		11.4		11.4		11.4
Diesel oil		8.7		8.7		8.7		8.7		8.7
Kerosene		8.7		8.7		8.7		8.7		8.7
Fuel oil		na		na		na		na		na
<b>Libya</b>	1.2		1.3		1.3		1.3		1.3	
Gasoline		28.6		31.8		31.8		23.9		23.9
Diesel oil		27.0		30.2		27.0		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
<b>Nigeria</b>	118.7		149.6		149.6		155.5		158.88	
Gasoline		11,130.0		14,531.0		10,335.0		10,335.0		15,423.0
Diesel oil		14,310.0		14,922.2		16,641.7		24,686.3		25,110.9
Kerosene		7,950.0		15,357.8		18,614.1		26,988.7		7,950.0
Fuel oil		4,038.6		11,452.8		na		9,978.8		18,585.5
<b>Qatar</b>	3.6		3.6		3.6		3.7		3.7	
Gasoline		119.3		119.3		119.3		143.1		143.1
Diesel oil		143.1		na		na		111.3		111.3
Kerosene		na		na		na		na		na
Fuel oil		na		na		na		na		na
<b>Saudi Arabia</b>	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		68.4		69.2		69.2
Fuel oil		na		na		na		na		na
<b>United Arab Emirates</b>	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
<b>Venezuela</b>	4.3		4.3		4.3		4.3		4.3	
Gasoline		13.3		13.3		13.3		13.3		13.3
Diesel oil		7.6		7.6		7.6		7.6		7.6
Kerosene		369.2		369.2		369.2		422.2		468.9
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. For conversion to US dollars direct communication of internal clearing rate is used.

**Table 5.6**

P r i c e s

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

	2008	2009	2010	2011	2012
<b>Algeria</b>					
Gasoline	34.5	30.9	29.9	30.6	28.7
Diesel oil	21.2	19.0	18.4	18.8	18.0
Kerosene	na	na	na	na	na
Fuel oil	na	na	na	na	na
<b>Angola</b>					
Gasoline	na	359.3	359.3	380.0	400.7
Diesel oil	na	194.9	194.9	197.6	200.3
Kerosene	na	218.0	218.0	223.5	229.0
Fuel oil	na	na	na	na	92.2
<b>Ecuador</b>					
Gasoline	238.1	238.1	238.1	238.1	238.1
Diesel oil	143.4	143.4	143.4	143.4	143.4
Kerosene	143.4	143.4	143.4	143.4	143.4
Fuel oil	89.5	89.5	89.5	89.5	89.5
<b>IR Iran</b>					
Gasoline	18.5	20.1	19.7	616.5	954.0
Diesel oil	2.8	2.7	2.6	194.7	127.2
Kerosene	2.8	2.7	2.6	194.7	127.2
Fuel oil	1.1	1.0	2.0	259.6	254.4
<b>Iraq</b>					
Gasoline	60.0	61.7	58.3	60.4	60.4
Diesel oil	53.3	54.8	na	54.1	54.1
Kerosene	30.0	30.8	127.3	20.7	20.7
Fuel oil	35.0	36.0	na	12.7	12.7
<b>Kuwait</b>					
Gasoline	42.4	39.5	39.5	39.5	39.5
Diesel oil	32.5	30.3	30.3	30.3	30.3
Kerosene	32.5	30.3	30.3	30.3	30.3
Fuel oil	na	na	na	na	na
<b>Libya</b>					
Gasoline	23.5	25.4	25.4	25.4	25.4
Diesel oil	22.2	24.1	21.6	21.6	21.6
Kerosene	10.4	10.2	10.2	10.2	10.2
Fuel oil	2.9	2.8	2.8	2.8	2.8
<b>Nigeria</b>					
Gasoline	93.8	97.1	68.4	66.5	97.0
Diesel oil	120.6	99.7	110.9	158.8	157.4
Kerosene	67.0	102.6	124.1	173.6	49.3
Fuel oil	34.0	76.5	na	64.2	114.5
<b>Qatar</b>					
Gasoline	32.8	32.7	32.7	39.0	39.0
Diesel oil	39.3	na	na	30.2	30.2
Kerosene	na	na	na	na	na
Fuel oil	na	na	na	na	na
<b>Saudi Arabia</b>					
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
<b>United Arab Emirates</b>					
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
<b>Venezuela</b>					
Gasoline	3.1	3.1	3.1	3.1	3.1
Diesel oil	1.8	1.8	1.8	1.8	1.8
Kerosene	85.9	85.9	85.9	98.2	109.0
Fuel oil	2.2	2.2	2.2	2.2	2.2

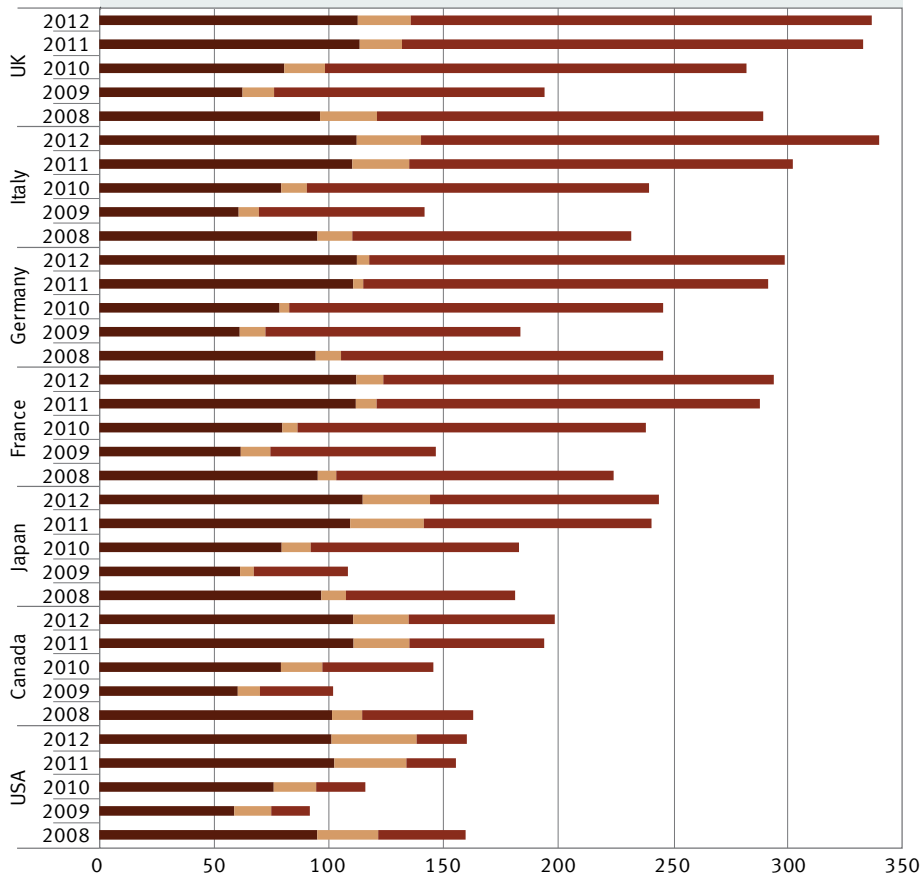
Notes: Prices partly estimated and preliminary. Quotations converted from national currency to US dollars. For conversion to US dollars direct communication of internal clearing rate is used.

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

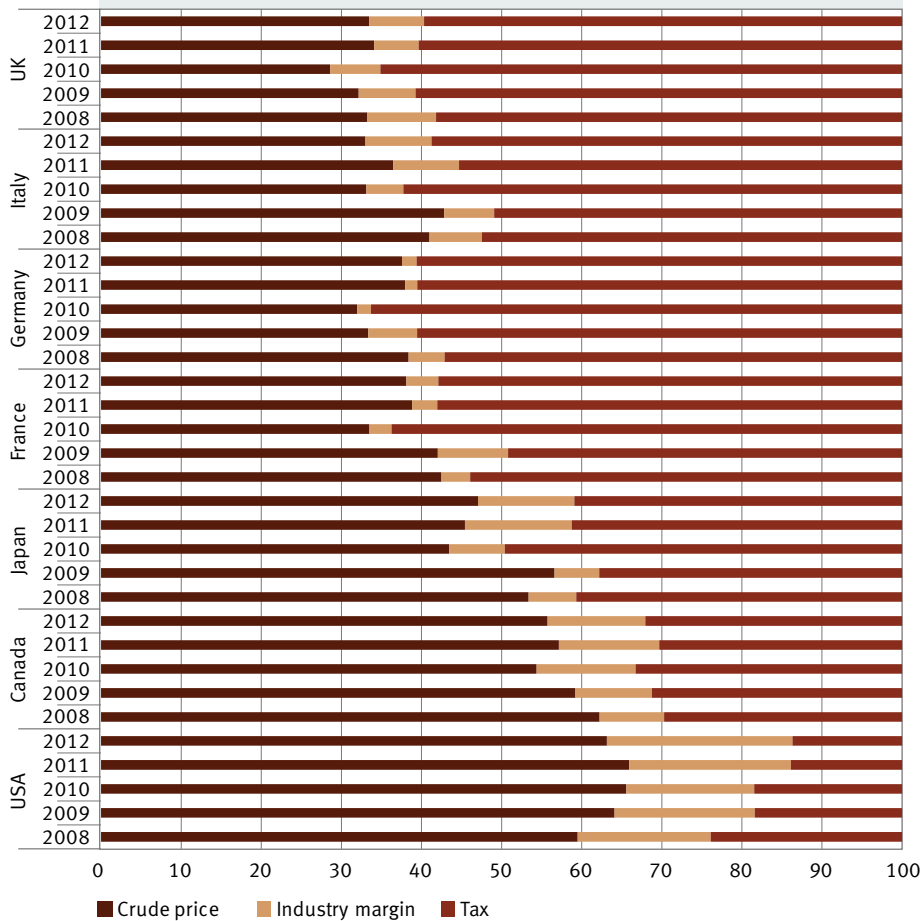
	2008			2009			2010			2011			2012		
	\$/b	% share	% change y-o-y	\$/b	% share	% change y-o-y	\$/b	% share	y-o-y	\$/b	% share	% change y-o-y	\$/b	% share	% change y-o-y
<b>United States</b>															
Composite barrel	159.6		33.4	91.8		-42.5	115.9		26.3	155.4		34.1	160.2		3.1
Crude cif price	95.0	59.5	42.2	58.8	64.1	-38.1	76.0	65.6	29.2	102.4	65.9	34.7	101.2	63.2	-1.2
Tax	38.1	23.9	42.3	16.9	18.4	-55.7	21.4	18.4	26.7	21.6	13.9	0.8	21.9	13.7	1.7
Industry margin	26.5	16.6	1.5	16.1	17.5	-39.5	18.5	16.0	15.2	31.4	20.2	69.7	37.1	23.2	18.1
<b>Canada</b>															
Composite barrel	162.9		33.1	101.8		-37.5	145.6		42.9	193.9		33.2	198.4		2.4
Crude cif price	101.4	62.2	44.8	60.3	59.2	-40.5	79.1	54.4	31.3	110.8	57.2	40.0	110.6	55.7	-0.2
Tax	48.4	29.7	45.0	31.8	31.2	-34.3	48.4	33.3	52.3	58.8	30.3	21.4	63.6	32.0	8.2
Industry margin	13.1	8.0	-30.8	9.7	9.6	-25.7	18.0	12.4	84.9	24.3	12.5	34.9	24.2	12.2	-0.2
<b>Japan</b>															
Composite barrel	181.2		32.2	108.3		-40.2	182.9		68.9	240.6		31.6	243.9		1.4
Crude cif price	101.0	55.7	44.1	61.3	56.6	-39.3	79.4	43.4	29.6	109.3	45.4	37.6	114.8	47.1	5.0
Tax	73.7	40.7	44.2	40.9	37.8	-44.4	90.7	49.6	121.6	99.2	41.2	9.4	99.8	40.9	0.5
Industry margin	6.5	3.6	-58.8	6.1	5.6	-6.9	12.7	7.0	109.9	32.1	13.3	152.4	29.4	12.0	-8.5
<b>France</b>															
Composite barrel	224.1		25.2	146.6		-34.6	238.2		62.4	287.9		20.9	293.9		2.1
Crude cif price	97.6	43.6	35.2	61.6	42.0	-36.9	79.8	33.5	29.4	111.8	38.8	40.1	112.0	38.1	0.2
Tax	120.8	53.9	35.2	72.1	49.2	-40.3	151.8	63.8	110.5	167.0	58.0	10.0	170.1	57.9	1.9
Industry margin	8.0	3.6	-59.0	12.9	8.8	60.1	6.6	2.8	-49.0	9.1	3.1	38.1	11.8	4.0	29.7
<b>Germany</b>															
Composite barrel	245.7		31.9	193.5		-21.2	245.7		27.0	291.4		18.6	298.7		2.5
Crude cif price	96.7	39.4	35.1	61.2	31.6	-36.7	78.5	32.0	28.3	110.6	38.0	40.9	112.2	37.6	1.4
Tax	140.3	57.1	35.1	111.1	57.4	-20.8	162.9	66.3	46.6	176.4	60.5	8.3	181.1	60.6	2.7
Industry margin	11.1	4.5	-13.0	21.2	11.0	91.9	4.3	1.7	-79.8	4.4	1.5	2.5	5.4	1.8	23.5
<b>Italy</b>															
Composite barrel	231.8		33.0	151.7		-34.6	239.5		57.9	302.3		26.2	339.8		12.4
Crude cif price	96.7	41.7	37.7	60.7	40.0	-37.2	79.3	33.1	30.6	110.2	36.5	39.0	112.2	33.0	1.8
Tax	121.6	52.5	37.7	72.1	47.6	-40.7	149.1	62.3	106.7	167.2	55.3	12.1	199.7	58.8	19.4
Industry margin	15.2	6.6	-11.7	18.9	12.4	24.1	11.1	4.6	-41.1	24.8	8.2	123.7	28.0	8.2	12.7
<b>United Kingdom</b>															
Composite barrel	289.3		22.1	194.0		-33.0	282.0		45.4	332.8		18.0	336.6		1.1
Crude cif price	99.3	34.3	34.6	62.4	32.2	-37.2	80.6	28.6	29.2	113.5	34.1	40.8	112.6	33.5	-0.8
Tax	168.4	58.2	19.7	117.9	60.8	-30.0	183.6	65.1	55.8	200.9	60.4	9.4	200.9	59.7	0.0
Industry margin	24.8	8.6	-2.2	13.7	7.1	-44.7	17.7	6.3	29.1	18.4	5.5	3.9	23.1	6.9	25.3
<b>G7</b>															
Composite barrel	213.5		29.3	138.2		-35.3	207.1		49.8	257.8		24.5	267.4		3.7
Crude cif price	98.2	46.0	39.0	60.9	44.1	-38.0	79.0	38.1	29.7	109.8	42.6	39.1	110.8	41.4	0.9
Tax	101.6	47.6	33.3	66.1	47.8	-34.9	115.4	55.7	74.6	127.3	49.4	10.3	133.9	50.1	5.2
Industry margin	15.0	7.0	-22.5	11.2	8.1	-25.4	12.7	6.1	13.2	20.6	8.0	62.5	22.7	8.5	10.0

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.

Graph 5.10: Composite barrel and its components (\$/b)



Graph 5.11: Composite barrel and its components (%)





# SECTION 6

## Major oil companies



**Table 6.1**

Major oil companies

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

	2008	2009	2010	2011	2012
<b>BP</b>					
Crude oil & NGL reserves <sup>1</sup>	5,665	5,658	5,559	5,153	4,477
Natural gas reserves <sup>2</sup>	40,005	40,388	37,809	36,381	33,264
Crude oil produced	2,401	2,535	2,374	2,157	2,056
Crude oil processed	2,155	2,287	2,426	2,352	2,354
Refined products sold	5,698	5,887	5,927	5,776	5,657
Natural gas sold <sup>3</sup>	8,334	8,485	8,401	7,518	7,393
<b>ExxonMobil</b>					
Crude oil & NGL reserves <sup>1</sup>	12,006	11,651	11,673	12,228	12,816
Natural gas reserves <sup>2</sup>	65,879	68,007	78,815	76,222	74,091
Crude oil produced	2,405	2,387	2,422	2,312	2,185
Crude oil processed	5,416	5,350	5,253	5,214	5,014
Refined products sold	6,761	6,428	6,414	6,413	6,174
Natural gas sold <sup>3</sup>	9,095	9,273	12,148	13,162	12,322
<b>Total</b>					
Crude oil & NGL reserves <sup>1</sup>	5,695	5,689	5,987	5,784	5,686
Natural gas reserves <sup>2</sup>	26,218	26,318	25,788	30,717	30,877
Crude oil produced	1,456	1,381	1,340	1,226	1,220
Crude oil processed	2,362	2,151	2,009	1,863	1,786
Refined products sold	3,658	3,616	3,776	3,639	3,403
Natural gas sold <sup>3</sup>	4,837	4,923	5,648	6,098	5,880
<b>Royal Dutch/Shell</b>					
Crude oil & NGL reserves <sup>1</sup>	2,620	4,693	5,179	5,098	5,317
Natural gas reserves <sup>2</sup>	25,927	29,961	28,983	30,286	26,424
Crude oil produced	1,693	1,581	1,619	1,536	1,488
Crude oil processed	3,388	3,067	3,197	2,845	2,819
Refined products sold	6,568	6,156	6,460	6,196	6,235
Natural gas sold <sup>3</sup>	8,569	8,483	9,305	8,986	9,449
<b>Chevron</b>					
Crude oil & NGL reserves <sup>1</sup>	4,735	4,610	4,270	4,295	4,353
Natural gas reserves <sup>2</sup>	19,022	22,153	20,755	25,229	25,654
Crude oil produced	1,649	1,846	1,923	1,849	1,764
Crude oil processed	1,858	1,878	1,894	1,787	1,702
Refined products sold	3,429	3,254	3,113	2,949	2,765
Natural gas sold <sup>3</sup>	11,441	9,963	10,425	10,197	9,785
<b>Total majors</b>					
Crude oil & NGL reserves <sup>1</sup>	30,721	32,301	32,668	32,558	32,649
Natural gas reserves <sup>2</sup>	177,051	186,827	192,150	198,835	190,310
Crude oil produced	9,604	9,730	9,678	9,080	8,713
Crude oil processed	15,179	14,733	14,779	14,061	13,675
Refined products sold	26,114	25,341	25,690	24,973	24,234
Natural gas sold <sup>3</sup>	42,276	41,127	45,927	45,961	44,829

## Notes:

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



**Table 6.2**  
Major oil companies

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

	2008	2009	2010	2011	2012
<b>BP</b>					
Revenues <sup>1</sup>	367,053	246,138	308,928	386,463	388,285
Cost of sales <sup>2</sup>	328,843	223,818	315,343	349,826	369,299
Income tax (benefit)	12,617	8,365	-1,501	12,737	6,993
Special deductions	na	na	na	na	na
Net income (loss)	25,593	13,955	-4,914	23,900	11,993
<b>ExxonMobil</b>					
Revenues <sup>3</sup>	477,359	310,586	383,221	486,429	482,295
Cost of sales <sup>4</sup>	395,609	276,187	331,200	414,318	406,370
Income tax (benefit)	36,530	15,119	21,561	31,051	31,045
Special deductions	na	na	na	na	na
Net income (loss)	45,220	19,280	30,460	41,060	44,880
<b>Total</b>					
Revenues <sup>3</sup>	264,709	183,175	211,143	257,093	257,038
Cost of sales <sup>4</sup>	228,327	160,582	183,570	220,415	226,511
Income tax (benefit)	20,806	10,811	13,559	19,590	16,787
Special deductions	na	na	na	na	na
Net income (loss)	15,576	11,782	14,014	17,088	13,740
<b>Royal Dutch/Shell</b>					
Revenues <sup>3</sup>	458,361	278,188	368,056	470,171	467,153
Cost of sales <sup>4</sup>	407,740	257,368	333,059	414,778	417,112
Income tax (benefit)	24,344	8,302	14,870	24,475	23,449
Special deductions	na	na	na	na	na
Net income (loss)	26,277	12,518	20,127	30,918	26,592
<b>Chevron</b>					
Revenues <sup>3</sup>	273,005	171,636	204,928	253,706	241,909
Cost of sales <sup>4</sup>	229,948	153,108	172,873	206,072	195,577
Income tax (benefit)	19,026	7,965	12,919	20,626	19,996
Special deductions	100	80	112	113	157
Net income (loss)	23,931	10,483	19,024	26,895	26,179
<b>Total majors</b>					
Revenues <sup>3</sup>	1,840,487	1,189,723	1,476,276	1,853,862	1,836,680
Cost of sales <sup>4</sup>	1,590,467	1,071,063	1,336,045	1,605,409	1,614,869
Income tax (benefit)	113,323	50,562	61,408	108,479	98,270
Special deductions	100	80	112	113	157
Net income (loss)	136,597	68,018	78,711	139,861	123,384

**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**

Major oil companies

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

	2008	2009	2010	2011	2012
<b>BP</b>					
Revenues	100.0	100.0	100.0	100.0	100.0
Cost of sales	89.6	90.9	102.1	90.5	95.1
Income tax (benefit)	3.4	3.4	-0.5	3.3	1.8
Special deductions	na	na	na	na	na
Net income (loss)	7.0	5.7	-1.6	6.2	3.1
<b>ExxonMobil</b>					
Revenues	100.0	100.0	100.0	100.0	100.0
Cost of sales	82.9	88.9	86.4	85.2	84.26
Income tax (benefit)	7.7	4.9	5.6	6.4	6.4
Special deductions	na	na	na	na	na
Net income (loss)	9.5	6.2	7.9	8.4	9.3
<b>Total</b>					
Revenues	100.0	100.0	100.0	100.0	100.0
Cost of sales	86.3	87.7	86.9	85.7	88.12
Income tax (benefit)	7.9	5.9	6.4	7.6	6.5
Special deductions	na	na	na	na	na
Net income (loss)	5.9	6.4	6.6	6.6	5.4
<b>Royal Dutch/Shell</b>					
Revenues	100.0	100.0	100.0	100.0	100.0
Cost of sales	89.0	92.5	90.5	88.2	89.3
Income tax (benefit)	5.3	3.0	4.0	5.2	5.0
Special deductions	na	na	na	na	na
Net income (loss)	5.7	4.5	5.5	6.6	5.7
<b>Chevron</b>					
Revenues	100.0	100.0	100.0	100.0	100.0
Cost of sales	84.2	89.2	84.4	81.2	80.9
Income tax (benefit)	7.0	4.6	6.3	8.1	8.3
Special deductions	-	0.1	0.1	0.1	0.1
Net income (loss)	8.8	6.1	9.3	10.6	10.8
<b>Total majors</b>					
Revenues	100.0	100.0	100.0	100.0	100.0
Cost of sales	86.4	90.0	90.5	86.6	87.9
Income tax (benefit)	6.2	4.2	4.2	5.9	5.4
Special deductions	-	-	-	-	-
Net income (loss)	7.4	5.7	5.3	7.5	6.7

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

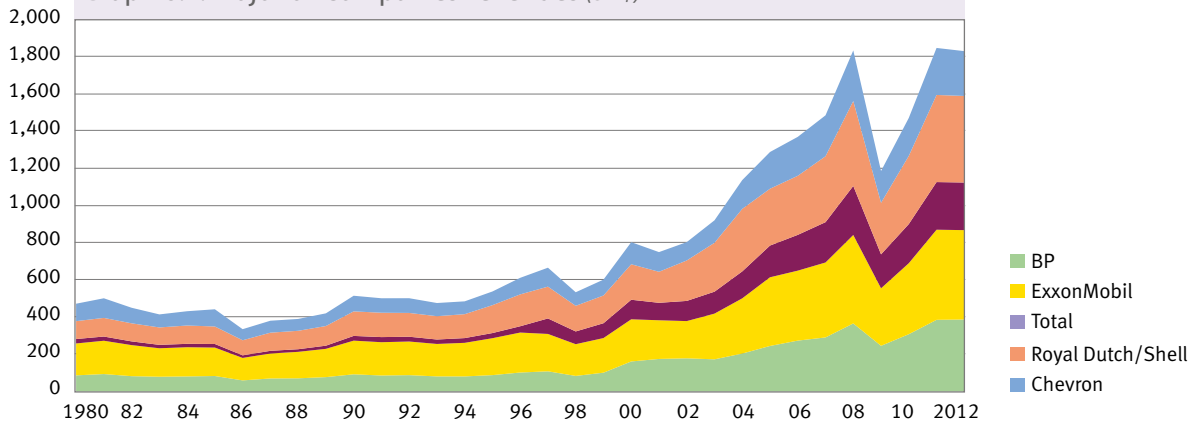
	2008	2009	2010	2011	2012
<b>BP</b>	<b>30,700</b>	<b>20,309</b>	<b>23,016</b>	<b>31,518</b>	<b>24,342</b>
Upstream	22,227	14,896	17,753	25,535	17,859
Downstream	6,634	4,114	4,029	4,130	5,048
Other business and corporate	1,839	1,299	1,234	1,853	1,435
<b>ExxonMobil</b>	<b>26,143</b>	<b>27,092</b>	<b>32,226</b>	<b>36,766</b>	<b>39,799</b>
Upstream	19,734	20,704	27,319	33,091	36,084
Downstream	6,348	6,344	4,720	3,570	3,680
Other business and corporate	61	44	187	105	35
<b>Total</b>	<b>20,062</b>	<b>18,619</b>	<b>21,573</b>	<b>34,161</b>	<b>29,477</b>
Upstream	14,733	13,746	17,510	30,191	25,204
Downstream	5,136	4,745	3,956	3,782	4,170
Other business and corporate	193	128	107	188	103
<b>Royal Dutch/Shell</b>	<b>35,065</b>	<b>26,516</b>	<b>26,940</b>	<b>26,301</b>	<b>32,576</b>
Upstream	28,947	20,264	22,323	20,681	27,930
Downstream	5,877	5,979	4,523	5,479	4,433
Other business and corporate	241	273	94	141	213
<b>Chevron</b>	<b>22,775</b>	<b>22,237</b>	<b>21,755</b>	<b>29,066</b>	<b>34,229</b>
Upstream	18,361	18,296	18,904	25,872	30,444
Downstream	3,789	3,536	2,552	2,611	3,172
Other business and corporate	625	405	299	583	613
<b>Total majors</b>	<b>134,745</b>	<b>114,773</b>	<b>125,510</b>	<b>157,812</b>	<b>160,423</b>
Upstream	104,002	87,906	103,809	135,370	137,521
Downstream	27,784	24,718	19,780	19,572	20,503
Other business and corporate	2,959	2,149	1,921	2,870	2,399

**Notes:**

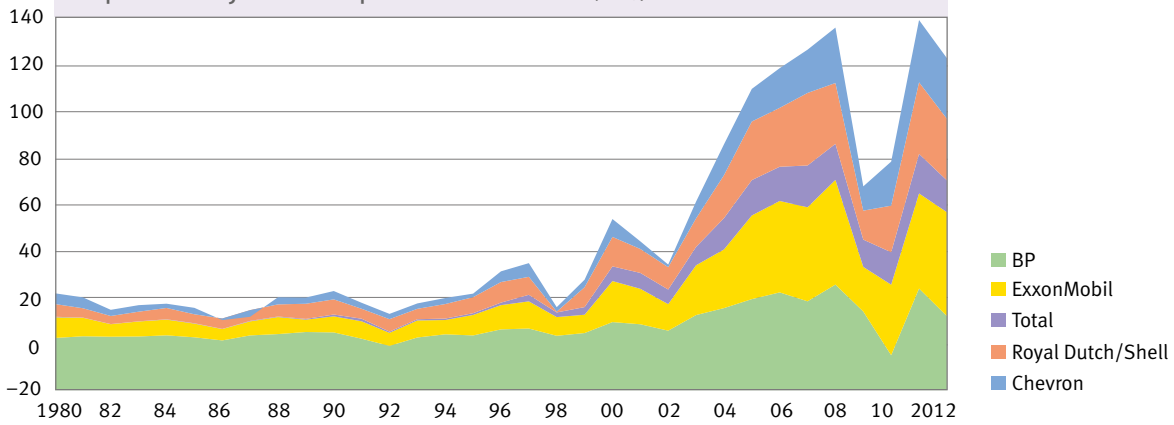
Upstream: Exploration and production.

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

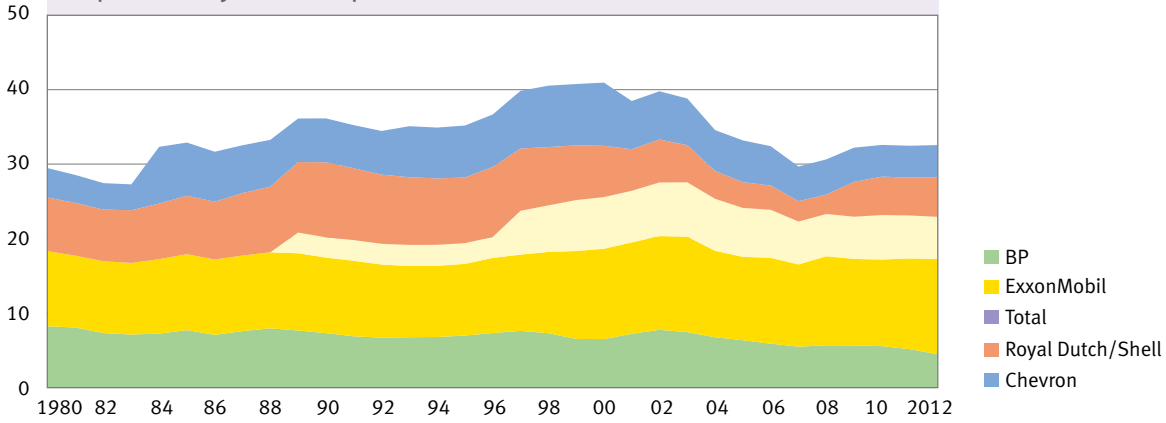
Graph 6.1: Major oil companies' revenues (bn \$)



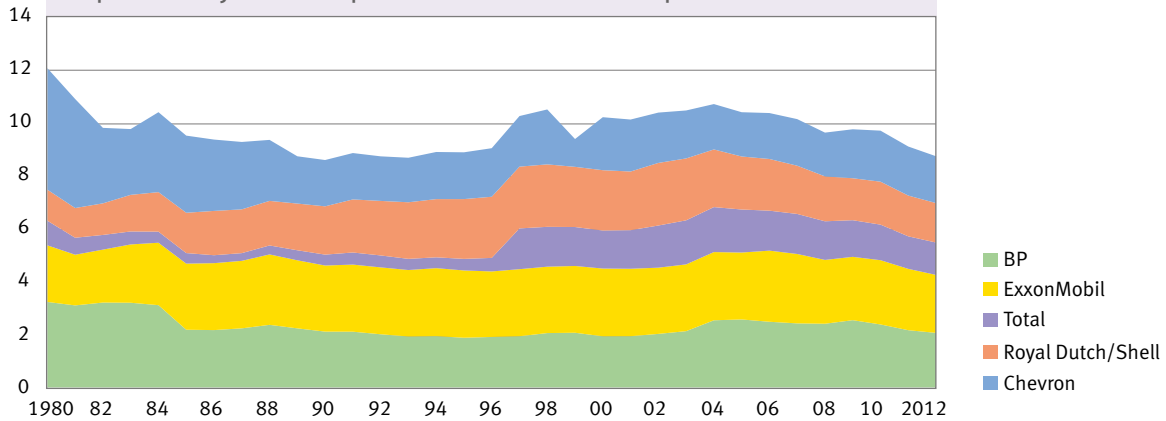
Graph 6.2: Major oil companies' net income (bn \$)



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 demand:** 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); Es Sider (Libya); Bonny Light (Nigeria); Qatar Marine (Qatar); Arab Light (Saudi Arabia); Murban (United Arab Emirates); and Meroy (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	ORB	OPEC Reference Basket
cif	cost, insurance and freight	LNG	liquefied natural gas	t	tonne

## 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
<b>OPEC</b>	<b>7.3580</b>

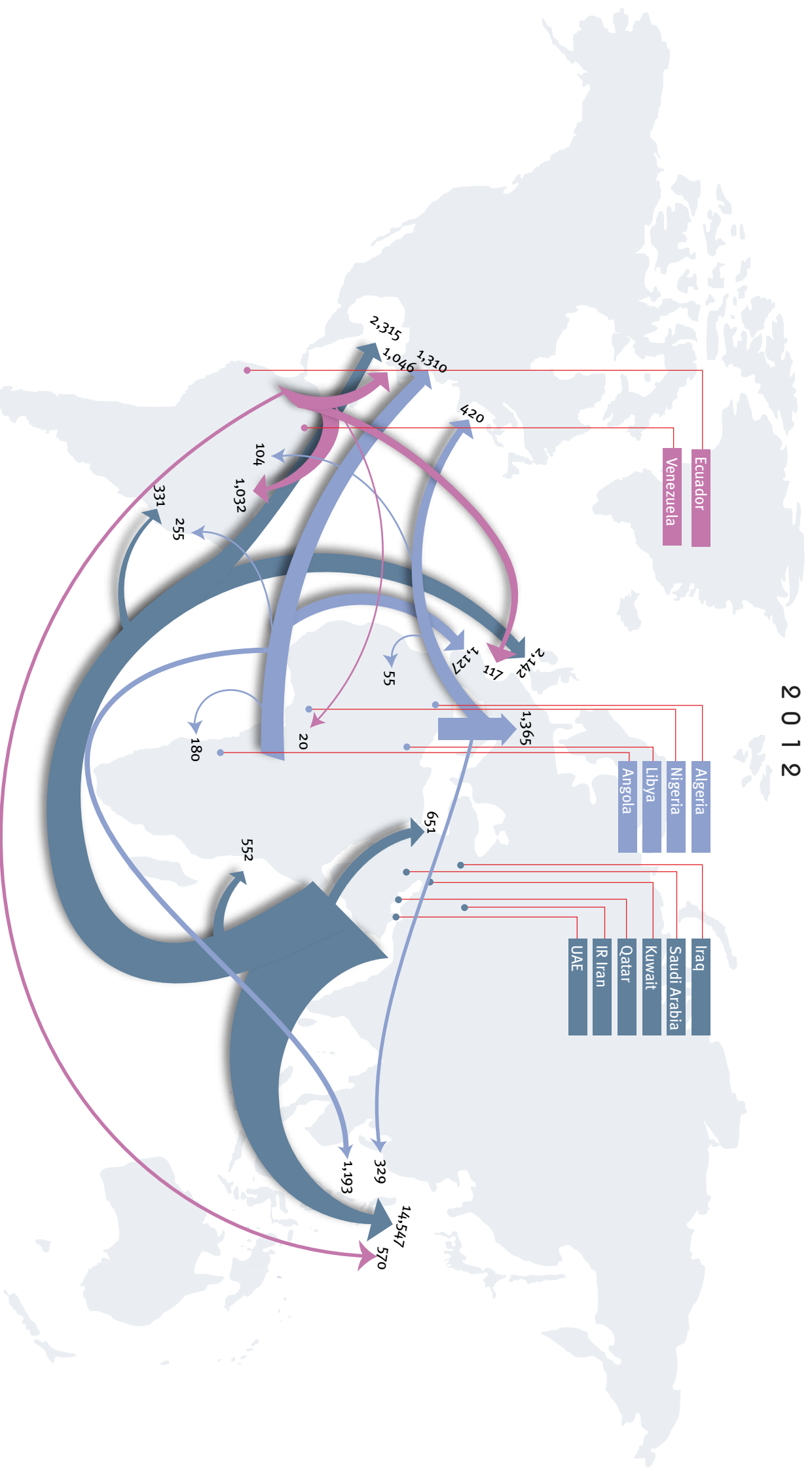
### Petroleum products (b/tonne)

Gasoline	8.4998
Kerosene	7.7652
Distillates	7.2296
Residuals	6.6208

# Major OPEC Flows of crude and refined oil

(1,000 b/d)

2012



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

- OPEC Africa
- OPEC Latin America
- OPEC Middle East



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