

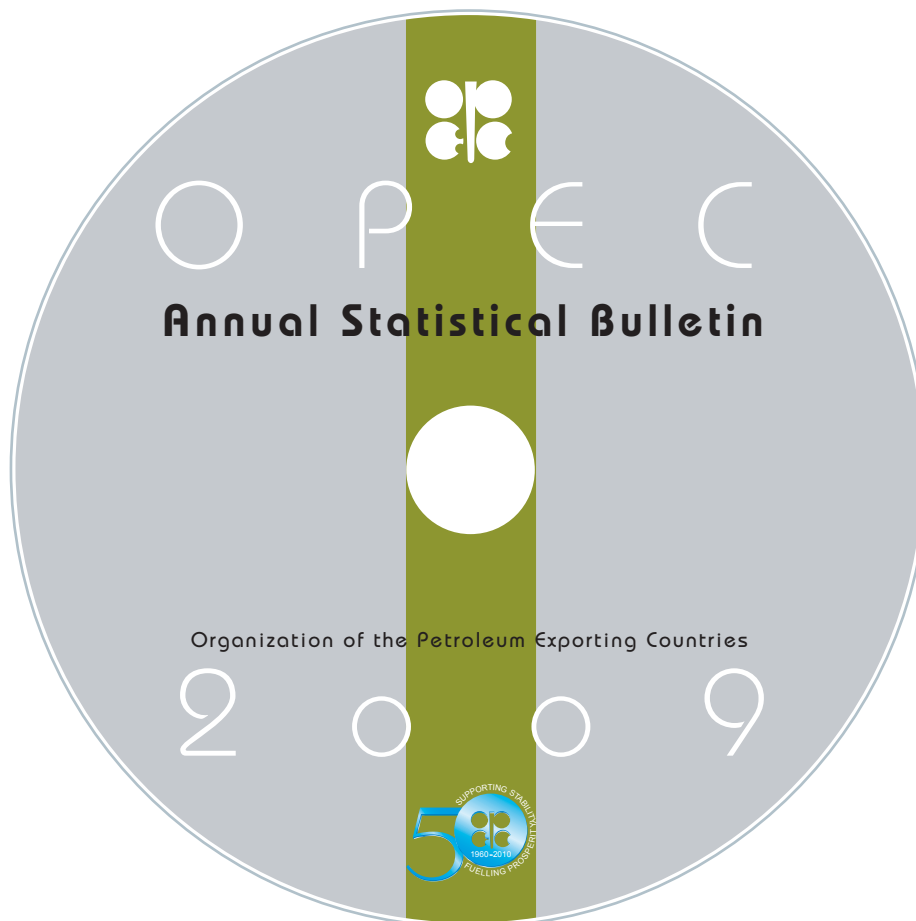


Annual Statistical Bulletin

2009



Organization of the Petroleum Exporting Countries



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HE Abdalla Salem El-Badri, OPEC Secretary General

On the 50th anniversary of OPEC, we are once again pleased to present the latest edition of the Annual Statistical Bulletin (ASB), one of OPEC's most respected publications.

This year marks the 45th edition of the ASB. This edition incorporates several important changes in the presentation of the data. But as with all previous editions, the 2009 ASB continues to provide detailed statistical data about oil and gas around the world. Its focus is naturally on the 12 countries that were Members of the Organization in 2009 — Algeria, Angola, Ecuador, the Islamic Republic of Iran, Iraq, Kuwait, the Socialist People's Libyan Arab Jamahiriya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates and Venezuela.

The ASB has been an invaluable source of data on the oil industry. With tables and graphs containing information on the global petroleum industry, regional imports and exports, as well as upstream and downstream activities, the ASB continues to provide detailed information about the various oil and gas activities of OPEC's Member Countries.

We hope that through the publication of the 2009 ASB, people will better understand the many important roles played by OPEC. For 50 years, since its founding in 1960, OPEC has played an increasingly important role in the production and transportation of energy supplies, in the stabilization of the world oil market and in the development of its Member Countries. The ASB is meant to share data and enhance transparency among the many stakeholders in the oil industry; such transparency remains an important element in ensuring market stability.

The 2009 ASB has been prepared over the course of many months and with the collaboration and input of many people in our Member Countries and at the OPEC Secretariat. I would like to acknowledge their diligence and commitment which have made the timely publication of the 2009 ASB possible.

A handwritten signature in dark ink, consisting of a large, stylized loop followed by a series of smaller, connected strokes.

Abdalla Salem El-Badri
Secretary General

Section 1 Summary



Table 1.1**S u m m a r y****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 |
| SP Libyan AJ | 750 | 1,100 | 990 | 990 | 999 | 999 | 948 | 996 | 996 | 1,037 | 1,093 |
| Nigeria | 1,300 | 1,300 | 1,300 | 1,300 | 1,304 | 1,304 | 1,238 | 1,301 | 1,301 | 1,355 | 1,428 |
| Qatar | 300 | 300 | 280 | 280 | 300 | 300 | 285 | 299 | 299 | 312 | 329 |
| Saudi Arabia | 7,150 | 5,000 | 4,353 | 4,353 | 4,353 | 4,353 | 4,133 | 4,343 | 4,343 | 4,524 | 4,769 |
| United Arab Emirates | 1,000 | 1,100 | 950 | 950 | 950 | 950 | 902 | 948 | 948 | 988 | 1,041 |
| Venezuela | 1,500 | 1,675 | 1,555 | 1,555 | 1,574 | 1,574 | 1,495 | 1,571 | 1,571 | 1,636 | 1,724 |
| OPEC | 16,050 | 16,050 | 14,674 | 14,674 | | | 14,515 | 15,251 | | 17,094 | 18,018 |
| OPEC excl Iraq | | | | | 13,608 | 13,686 | | | 13,711 | | |

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

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

– No production level allocated.

na No distribution made.

OPEC excluding Kuwait and Iraq.

OPEC excluding IR Iran and Iraq.

* Includes Indonesia and Gabon.

** Includes Indonesia.

Agreed at the:

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

Table 1.1
S u m m a r y

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/ 909 | 24/ 50 | 25/ 788 | 26/ 731 | 27/ 788 | 28/ 811 | 29/ 837 | 30/ 853 | 31/ 805 | 32/ 773 |
| 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 |
| SP Libyan AJ | 1,522 | 80 | 1,323 | 1,227 | 1,323 | 1,361 | 1,404 | 1,431 | 1,350 | 1,296 |
| Nigeria | 2,042 | 125 | 2,033 | 1,885 | 2,033 | 2,091 | 2,157 | 2,198 | 2,075 | 1,993 |
| Qatar | 414 | 30 | 640 | 593 | 640 | 658 | 679 | 692 | 653 | 627 |
| Saudi Arabia | 8,761 | 300 | 8,023 | 7,438 | 8,023 | 8,253 | 8,512 | 8,674 | 8,189 | 7,865 |
| United Arab Emirates | 2,366 | 125 | 2,157 | 2,000 | 2,157 | 2,219 | 2,289 | 2,333 | 2,201 | 2,113 |
| Venezuela | 2,583 | 200 | 2,845 | 2,720 | 2,845 | 2,926 | 3,019 | 3,077 | 2,902 | 2,786 |
| OPEC | 26,044 | | | | | | | | | |
| OPEC excl Iraq | | 1,175 | 23,107 | 21,789 | 19,789^{##} | 24,083 | 24,841 | 25,315 | 23,894 | 22,946 |
| Target | | 24,432 | | | | | | | | |

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

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

Table 1.1**S u m m a r y****OPEC crude oil production allocations (1,000 b/d)**

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

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.

Table 1.2
S u m m a r y

OPEC Members' facts and figures, 2009

| | Algeria | Angola | Ecuador | IR Iran | Iraq | Kuwait | SPLAJ | Nigeria | Qatar | Saudi Arabia | UAE | Venezuela | OPEC |
|---|----------|--------|---------|-----------|----------|----------|----------|----------|-----------|--------------|----------|-----------|-----------|
| Population <i>million inhabitants</i> | 35.40 | 18.50 | 14.01 | 74.10 | 31.23 | 3.48 | 6.41 | 156.04 | 1.64 | 25.40 | 4.62 | 28.38 | 399.21 |
| Land area <i>1,000 sq km</i> | 2,382 | 1,247 | 281 | 1,648 | 438 | 18 | 1,760 | 924 | 11 | 2,150 | 84 | 916 | 13,763 |
| GDP per capita <i>dollars</i> | 3,751 | 3,717 | 3,669 | 4,460 | 4,363 | 30,240 | 10,479 | 1,064 | 51,201 | 14,552 | 49,782 | 11,883 | 5,208 |
| GDP at market prices <i>billion \$</i> | 132.78 | 68.76 | 51.39 | 330.46 | 136.28 | 105.38 | 67.17 | 166.00 | 83.91 | 369.67 | 229.97 | 337.30 | 2,079.07 |
| Value of exports <i>billion \$</i> | 43.69 | 40.99 | 13.80 | 70.61 | 44.37 | 50.24 | 32.98 | 33.44 | 33.26 | 175.53 | 174.73 | 57.60 | 771.22 |
| Value of imports <i>billion \$</i> | 39.10 | 15.74 | 15.09 | 57.16 | 34.11 | 17.93 | 23.46 | 31.70 | 23.21 | 87.12 | 164.25 | 38.44 | 547.31 |
| Current account balance <i>billion \$</i> | 0.49 | -2.24 | -0.43 | 7.93 | 11.39 | 27.75 | 10.18 | 20.05 | 0.77 | 20.48 | -7.02 | 8.56 | 97.93 |
| Value of petroleum exports <i>billion \$</i> | 30.59 | 38.81 | 6.96 | 55.60 | 41.85 | 46.57 | 31.38 | 26.47 | 26.84 | 157.41 | 58.66 | 54.20 | 575.34 |
| Proven crude oil reserves <i>billion barrels</i> | 12.20 | 9.50 | 6.51 | 137.01 | 115.00 | 101.50 | 46.42 | 37.20 | 25.38 | 264.59 | 97.80 | 211.17 | 1,064.29 |
| Natural gas reserves <i>billion cu m</i> | 4,504.20 | 310.00 | 8.00 | 29,610.00 | 3,170.00 | 1,784.00 | 1,548.54 | 5,292.00 | 25,366.33 | 7,920.40 | 6,091.00 | 5,064.90 | 90,669.37 |
| Crude oil production <i>1,000 b/d</i> | 1,216 | 1,739 | 465 | 3,557 | 2,336 | 2,262 | 1,474 | 1,842 | 733 | 8,184 | 2,242 | 2,878 | 28,927 |
| Natural gas marketed production <i>billion cu m</i> | 81.43 | 0.69 | 0.30 | 175.74 | 1.15 | 11.49 | 15.90 | 23.21 | 89.30 | 78.45 | 48.84 | 18.43 | 544.92 |
| Refinery capacity <i>1,000 b/cd</i> | 652 | 39 | 188 | 1,474 | 824 | 936 | 380 | 445 | 80 | 2,109 | 466 | 981 | 8,575 |
| Consumption of petroleum products <i>1,000 b/d</i> | 310 | 62 | 205 | 1,795 | 603 | 274 | 271 | 225 | 106 | 1,405 | 235 | 668 | 6,160 |
| Crude oil exports <i>1,000 b/d</i> | 747 | 1,770 | 329 | 2,232 | 1,906 | 1,348 | 1,170 | 2,160 | 647 | 6,268 | 1,953 | 1,608 | 22,139 |
| Exports of petroleum products <i>1,000 b/d</i> | 232.5 | 40.8 | 33.5 | 300.8 | 26.2 | 673.5 | 136.1 | 12.1 | 120.5 | 1,008.4 | 374.1 | 963.6 | 3,922.1 |
| Natural gas exports <i>billion cu m</i> | 52.67 | - | - | 5.67 | - | - | 9.89 | 15.99 | 68.19 | - | 15.21 | - | 167.620 |
| Exchange rate <i>national currency/\$</i> | 72.6 | 79.3 | 1.0 | 9,864.3 | 1,170.0 | 0.3 | 1.3 | 148.8 | 3.6 | 3.8 | 3.7 | 2.1 | |

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

Section 2

Macro-economics



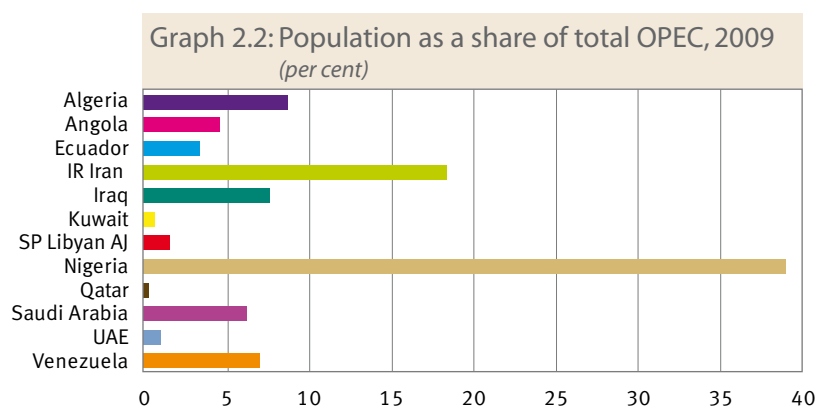
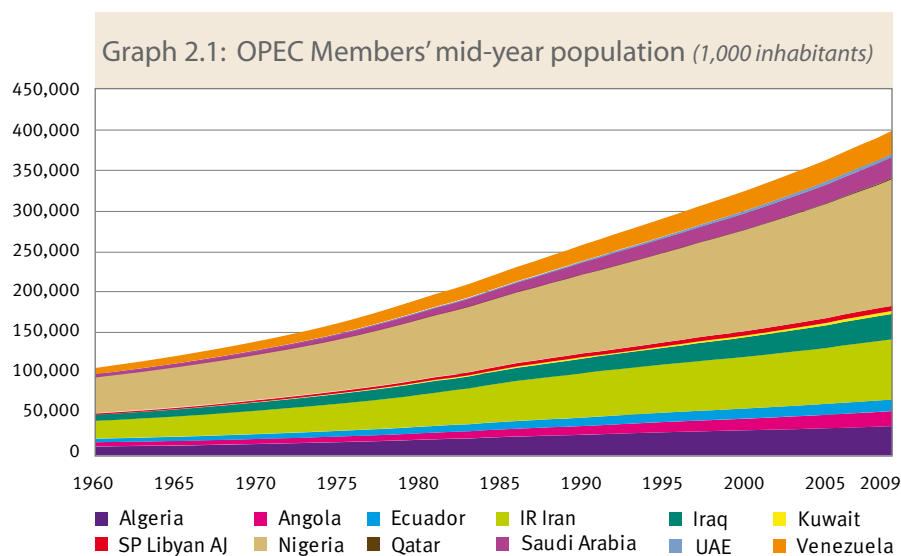
Table 2.1

Macro-economics

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

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------|----------------|----------------|----------------|----------------|----------------|
| Algeria | 32,906 | 33,481 | 34,096 | 34,745 | 35,400 |
| Angola | 16,618 | 17,089 | 17,555 | 18,021 | 18,498 |
| Ecuador | 13,215 | 13,408 | 13,605 | 13,805 | 14,005 |
| IR Iran | 68,588 | 70,473 | 71,662 | 72,871 | 74,100 |
| Iraq | 27,963 | 28,810 | 29,682 | 30,578 | 31,234 |
| Kuwait | 2,991 | 3,183 | 3,400 | 3,442 | 3,485 |
| SP Libyan AJ | 5,923 | 6,045 | 6,169 | 6,294 | 6,410 |
| Nigeria | 140,879 | 144,273 | 147,983 | 151,320 | 156,037 |
| Qatar | 888 | 1,042 | 1,226 | 1,448 | 1,639 |
| Saudi Arabia | 23,119 | 23,679 | 24,243 | 24,807 | 25,403 |
| United Arab Emirates | 4,089 | 4,233 | 4,364 | 4,485 | 4,620 |
| Venezuela | 26,577 | 27,031 | 27,483 | 27,935 | 28,384 |
| OPEC | 363,757 | 372,747 | 381,468 | 389,751 | 399,214 |

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 \$*)

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------|------------------|------------------|------------------|------------------|------------------|
| Algeria | 103,117 | 117,172 | 135,614 | 170,987 | 132,781 |
| Angola | 30,632 | 45,168 | 59,263 | 84,945 | 68,755 |
| Ecuador | 37,187 | 41,763 | 45,789 | 54,686 | 51,386 |
| IR Iran | 187,438 | 222,128 | 285,932 | 333,241 | 330,461 |
| Iraq | 49,955 | 64,805 | 88,038 | 129,339 | 136,281 |
| Kuwait | 80,799 | 101,584 | 114,579 | 148,184 | 105,382 |
| SP Libyan AJ | 42,844 | 55,977 | 69,869 | 100,071 | 67,172 |
| Nigeria | 110,273 | 144,301 | 181,581 | 204,917 | 166,004 |
| Qatar | 42,055 | 56,770 | 71,041 | 100,407 | 83,910 |
| Saudi Arabia | 315,337 | 356,155 | 383,871 | 468,800 | 369,671 |
| United Arab Emirates | 137,993 | 175,222 | 206,406 | 254,394 | 229,971 |
| Venezuela | 144,490 | 184,715 | 228,326 | 320,247 | 337,295 |
| OPEC | 1,282,120 | 1,565,761 | 1,870,309 | 2,370,217 | 2,079,068 |

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

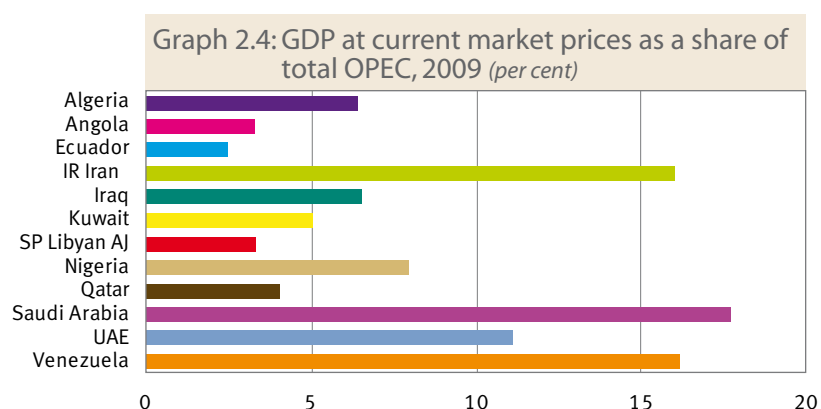
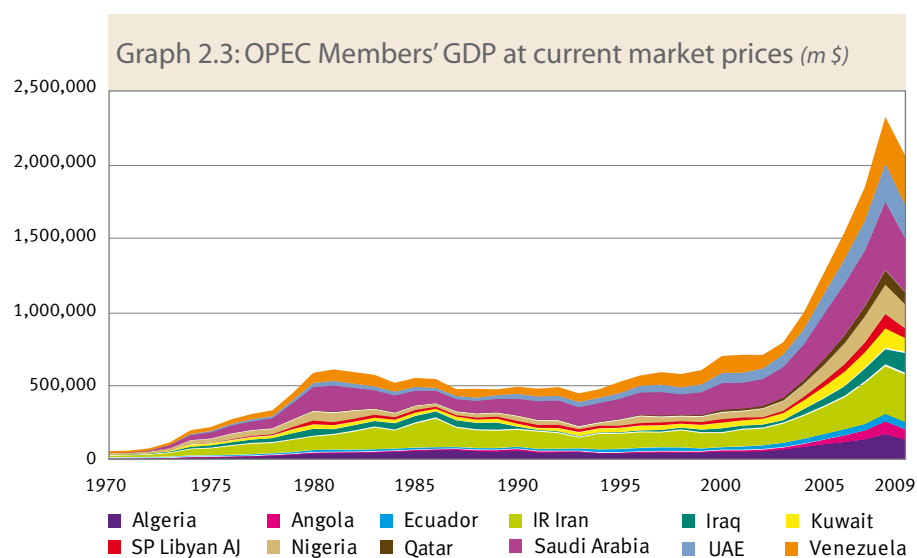


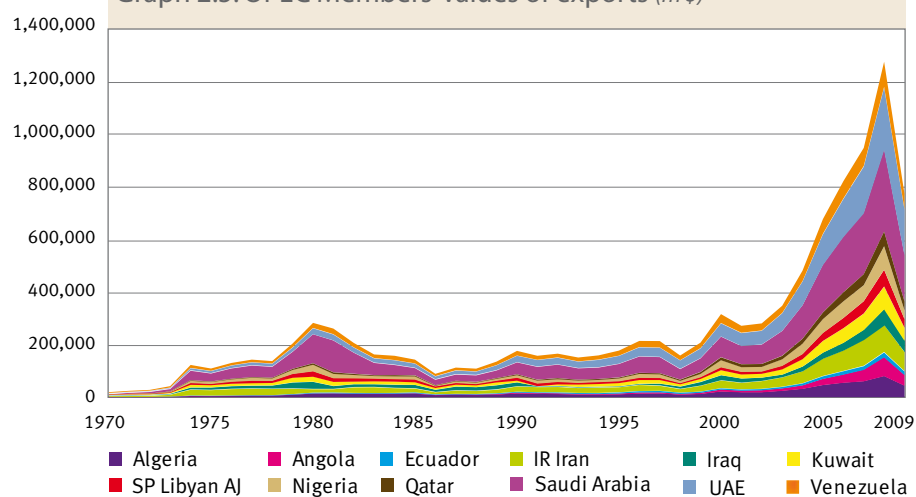
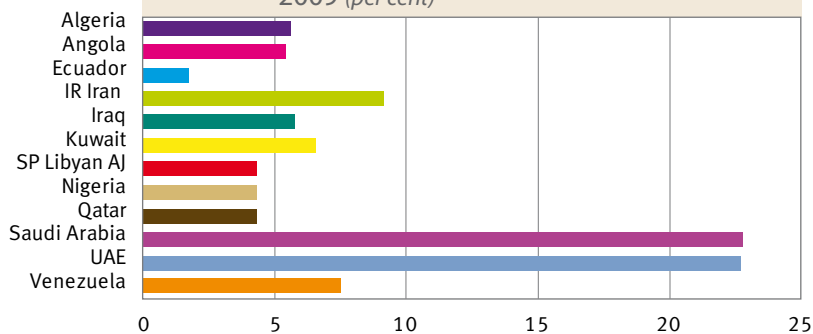
Table 2.3

Macro-economics

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

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------|----------------|----------------|----------------|------------------|----------------|
| Algeria | 46,001 | 54,613 | 60,163 | 79,298 | 43,689 |
| Angola | 24,105 | 31,862 | 44,396 | 72,179 | 40,985 |
| Ecuador | 10,100 | 12,728 | 13,852 | 18,511 | 13,797 |
| IR Iran | 64,366 | 76,055 | 97,401 | 100,572 | 70,614 |
| Iraq | 23,697 | 30,529 | 39,516 | 63,726 | 44,373 |
| Kuwait | 44,868 | 56,025 | 62,483 | 87,011 | 50,243 |
| SP Libyan AJ | 30,948 | 39,170 | 46,872 | 62,782 | 32,976 |
| Nigeria | 52,402 | 62,772 | 59,907 | 87,459 | 33,439 |
| Qatar | 25,339 | 34,051 | 41,490 | 54,912 | 33,256 |
| Saudi Arabia | 180,572 | 211,024 | 233,174 | 313,428 | 175,529 |
| United Arab Emirates | 117,287 | 145,586 | 178,631 | 239,213 | 174,725 |
| Venezuela | 55,716 | 65,578 | 69,010 | 95,138 | 57,595 |
| OPEC | 675,401 | 819,993 | 946,895 | 1,274,228 | 771,221 |

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

Graph 2.5: OPEC Members' values of exports (*m \$*)Graph 2.6: Values of exports as a share of total OPEC, 2009 (*per cent*)

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

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------|----------------|----------------|----------------|------------------|----------------|
| Algeria | 32,757 | 38,293 | 44,250 | 53,607 | 30,587 |
| Angola | 22,101 | 29,131 | 42,132 | 69,364 | 38,813 |
| Ecuador | 5,870 | 7,545 | 8,329 | 11,673 | 6,965 |
| IR Iran | 53,219 | 59,131 | 64,901 | 88,660 | 55,604 |
| Iraq | 23,648 | 30,465 | 39,433 | 56,843 | 41,852 |
| Kuwait | 42,440 | 53,188 | 59,001 | 82,682 | 46,569 |
| SP Libyan AJ | 28,300 | 35,700 | 40,400 | 54,175 | 31,377 |
| Nigeria | 49,722 | 54,607 | 51,170 | 74,033 | 26,471 |
| Qatar | 17,585 | 23,350 | 29,130 | 38,950 | 26,840 |
| Saudi Arabia | 161,871 | 190,468 | 205,452 | 280,998 | 157,407 |
| United Arab Emirates | 55,079 | 70,100 | 73,816 | 102,073 | 58,656 |
| Venezuela | 39,117 | 47,795 | 51,664 | 89,128 | 54,201 |
| OPEC | 531,709 | 639,772 | 709,678 | 1,002,186 | 575,341 |

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.

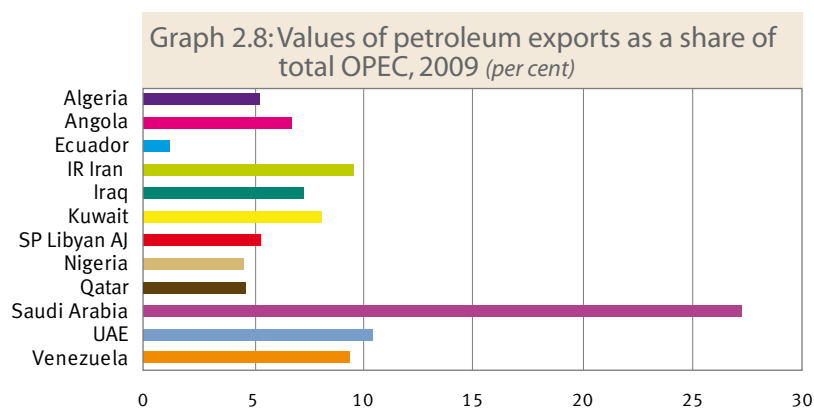
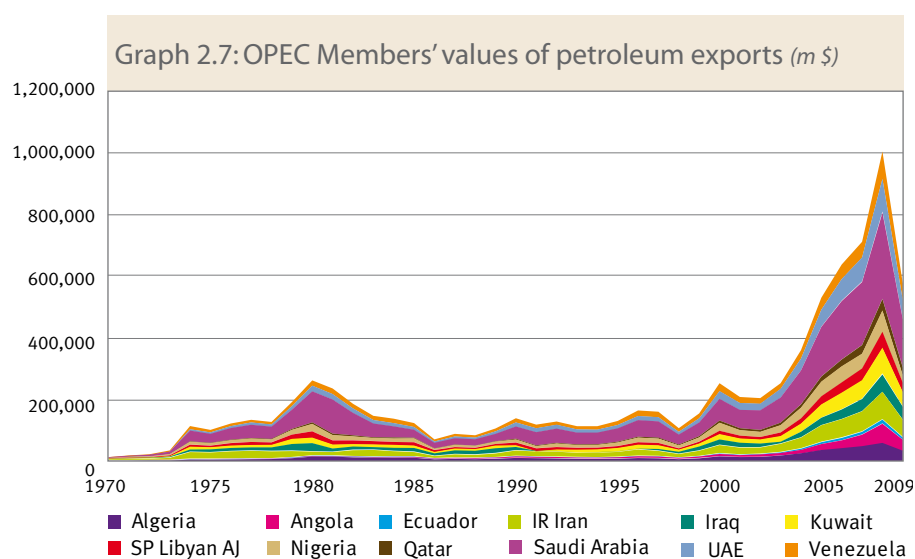


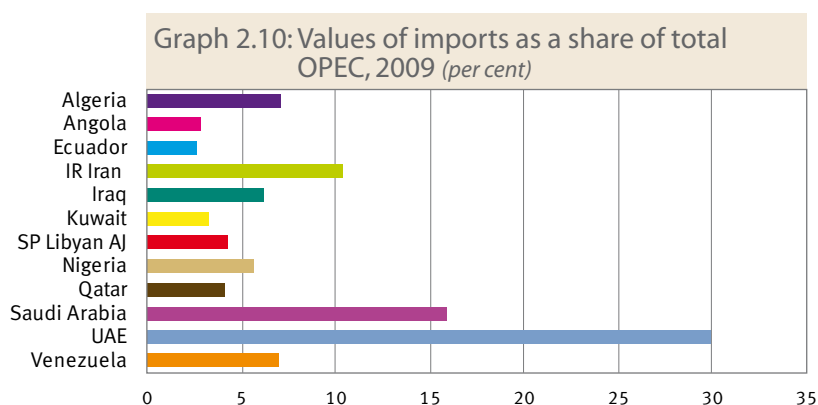
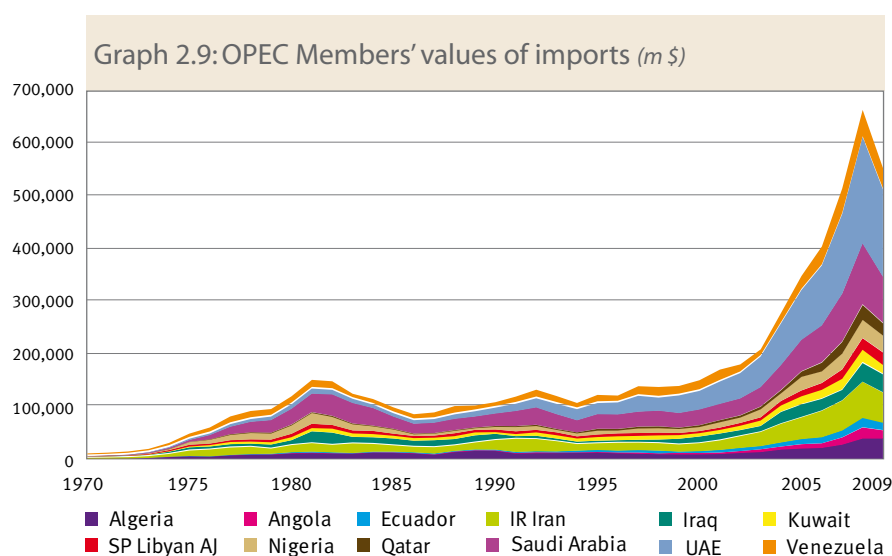
Table 2.5

Macro-economics

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

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------|----------------|----------------|----------------|----------------|----------------|
| Algeria | 20,357 | 21,456 | 27,631 | 39,181 | 39,103 |
| Angola | 8,353 | 8,778 | 13,662 | 20,982 | 15,737 |
| Ecuador | 10,287 | 12,114 | 13,893 | 18,685 | 15,093 |
| IR Iran | 40,969 | 50,020 | 56,582 | 68,533 | 57,159 |
| Iraq | 23,532 | 22,009 | 19,556 | 35,496 | 34,112 |
| Kuwait | 15,801 | 17,237 | 21,313 | 24,910 | 17,927 |
| SP Libyan AJ | 11,188 | 12,860 | 17,664 | 21,949 | 23,462 |
| Nigeria | 26,003 | 22,429 | 30,186 | 34,350 | 31,695 |
| Qatar | 10,061 | 16,440 | 22,005 | 27,928 | 23,209 |
| Saudi Arabia | 59,463 | 69,707 | 90,157 | 115,134 | 87,118 |
| United Arab Emirates | 84,642 | 100,043 | 150,103 | 200,300 | 164,251 |
| Venezuela | 24,008 | 33,583 | 46,031 | 49,482 | 38,442 |
| OPEC | 334,664 | 386,675 | 508,784 | 656,930 | 547,308 |

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 \$*)

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------|----------------|----------------|----------------|----------------|---------------|
| Algeria | 16,940 | 17,740 | 29,550 | 36,990 | 493 |
| Angola | 5,138 | 10,690 | 9,403 | 6,408 | -2,235 |
| Ecuador | 348 | 1,618 | 1,650 | 1,120 | -427 |
| IR Iran | 16,637 | 20,402 | 34,079 | 23,987 | 7,931 |
| Iraq | -7,513 | 1,252 | 20,063 | 32,344 | 11,391 |
| Kuwait | 30,156 | 45,437 | 46,796 | 64,821 | 27,748 |
| SP Libyan AJ | 14,945 | 22,170 | 28,394 | 36,041 | 10,181 |
| Nigeria | 37,225 | 38,570 | 31,185 | 42,262 | 20,050 |
| Qatar | 7,482 | 9,459 | 10,446 | 14,199 | 771 |
| Saudi Arabia | 89,990 | 98,934 | 93,329 | 134,046 | 20,478 |
| United Arab Emirates | 24,365 | 36,040 | 19,545 | 22,155 | -7,016 |
| Venezuela | 25,447 | 26,462 | 18,063 | 37,392 | 8,561 |
| OPEC | 261,160 | 328,773 | 342,504 | 451,766 | 97,926 |

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

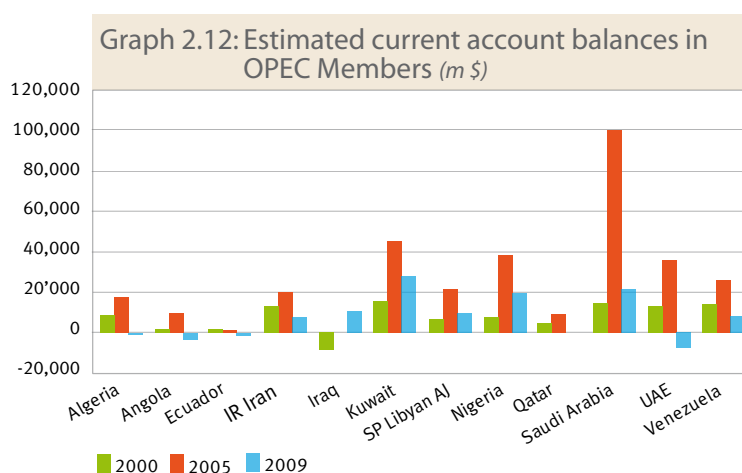
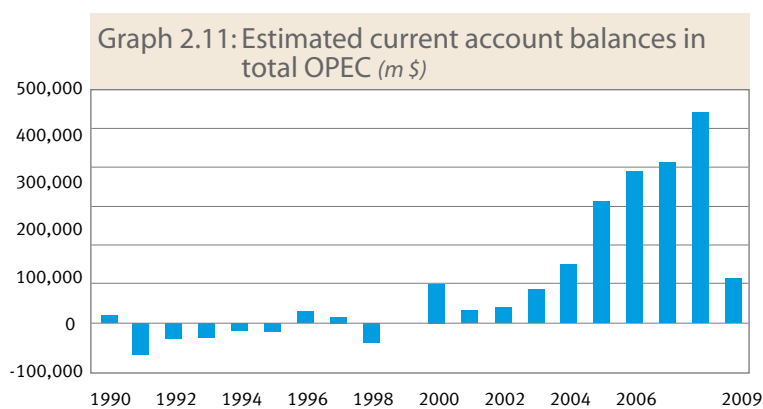


Table 2.7**Macro-economics**Annual average exchange rates for OPEC Members (*units of national currency/\$*)

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|----------------------|-----------|-----------|-----------|-----------|-----------|-------------------|
| Algeria | 73.276 | 72.647 | 69.292 | 64.583 | 72.647 | 12.5 |
| Angola | 87.159 | 80.368 | 76.706 | 75.033 | 79.328 | 5.7 |
| Ecuador | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | — |
| IR Iran | 8,963.960 | 9,170.940 | 9,281.150 | 9,428.530 | 9,864.300 | 4.6 |
| Iraq | 1,472.000 | 1,467.420 | 1,254.570 | 1,193.080 | 1,170.000 | −1.9 |
| Kuwait | 0.292 | 0.290 | 0.284 | 0.269 | 0.288 | 7.1 |
| SP Libyan AJ | 1.308 | 1.314 | 1.263 | 1.224 | 1.254 | 2.4 |
| Nigeria | 131.274 | 128.652 | 125.808 | 118.546 | 148.835 | 25.6 |
| Qatar | 3.640 | 3.640 | 3.640 | 3.640 | 3.640 | — |
| Saudi Arabia | 3.747 | 3.745 | 3.748 | 3.750 | 3.750 | — |
| United Arab Emirates | 3.673 | 3.673 | 3.673 | 3.673 | 3.673 | — |
| Venezuela | 2.108 | 2.166 | 2.166 | 2.166 | 2.148 | −0.8 |

Notes: On January 1, 2008, the new Venezuelan bolivar (VEF), equivalent to 1,000 old bolivares (VEB), was introduced.

Section 3

Oil and gas data



Table 3.1

Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| North America | 26,579 | 26,699 | 25,872 | 26,217 | 24,021 | -8.4 |
| Canada ¹ | 5,208 | 4,942 | 4,900 | 4,900 | 4,900 | – |
| United States | 21,371 | 21,757 | 20,972 | 21,317 | 19,121 | -10.3 |
| Latin America | 118,455 | 124,252 | 137,398 | 210,507 | 249,439 | 18.5 |
| Argentina | 2,320 | 2,468 | 2,587 | 2,616 | 2,520 | -3.7 |
| Brazil | 11,772 | 12,182 | 12,624 | 12,624 | 12,802 | 1.4 |
| Colombia | 1,453 | 1,506 | 1,510 | 1,510 | 1,510 | – |
| Ecuador | 5,180 | 5,180 | 6,368 | 6,511 | 6,511 | – |
| Mexico | 13,670 | 12,850 | 12,187 | 12,187 | 12,187 | – |
| Venezuela | 80,012 | 87,324 | 99,377 | 172,323 | 211,173 | 22.5 |
| Others | 4,048 | 2,743 | 2,744 | 2,736 | 2,736 | – |
| Eastern Europe | 127,266 | 128,852 | 128,981 | 128,598 | 128,959 | 0.3 |
| Azerbaijan | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | – |
| Belarus | 198 | 198 | 198 | 198 | 198 | – |
| Georgia | 35 | 35 | 35 | 35 | 35 | – |
| Kazakhstan | 39,828 | 39,828 | 39,828 | 39,828 | 39,800 | -0.1 |
| Kyrgyzstan | 40 | 40 | 40 | 40 | 40 | – |
| Lithuania | 12 | 12 | 12 | 12 | 12 | – |
| Russia | 77,712 | 79,306 | 79,432 | 79,049 | 79,432 | 0.5 |
| Tadzhikistan | 12 | 12 | 12 | 12 | 12 | – |
| Turkmenistan | 546 | 600 | 600 | 600 | 600 | – |
| Ukraine | 395 | 395 | 395 | 395 | 395 | – |
| Uzbekistan | 594 | 594 | 594 | 594 | 594 | – |
| Others | 894 | 832 | 835 | 835 | 841 | 0.8 |
| Western Europe | 16,952 | 15,369 | 14,913 | 13,931 | 13,841 | -0.6 |
| Denmark | 1,277 | 1,157 | 1,113 | 1,113 | 1,060 | -4.8 |
| Norway | 9,697 | 8,548 | 8,172 | 7,501 | 7,500 | – |
| United Kingdom | 3,870 | 3,593 | 3,593 | 3,390 | 3,400 | 0.3 |
| Others | 2,108 | 2,071 | 2,035 | 1,927 | 1,881 | -2.4 |
| Middle East | 751,690 | 754,616 | 750,619 | 752,258 | 752,079 | – |
| IR Iran | 136,270 | 138,400 | 136,150 | 137,620 | 137,010 | -0.4 |
| Iraq | 115,000 | 115,000 | 115,000 | 115,000 | 115,000 | – |
| Kuwait | 101,500 | 101,500 | 101,500 | 101,500 | 101,500 | – |
| Oman | 5,572 | 5,572 | 5,572 | 5,572 | 5,500 | -1.3 |
| Qatar | 25,288 | 26,185 | 25,090 | 25,405 | 25,382 | -0.1 |
| Saudi Arabia | 264,211 | 264,251 | 264,209 | 264,063 | 264,590 | 0.2 |
| Syrian Arab Republic | 3,000 | 3,000 | 2,500 | 2,500 | 2,500 | – |
| United Arab Emirates | 97,800 | 97,800 | 97,800 | 97,800 | 97,800 | – |
| Others | 3,049 | 2,908 | 2,798 | 2,798 | 2,798 | – |
| Africa | 117,372 | 118,794 | 121,349 | 122,311 | 124,427 | 1.7 |
| Algeria | 12,270 | 12,200 | 12,200 | 12,200 | 12,200 | – |
| Angola | 9,050 | 9,330 | 9,500 | 9,500 | 9,500 | – |
| Egypt | 3,720 | 3,720 | 4,070 | 4,340 | 4,300 | -0.9 |
| Gabon | 2,146 | 1,995 | 1,995 | 1,995 | 2,000 | 0.3 |
| SP Libyan AJ | 41,464 | 41,464 | 43,663 | 44,271 | 46,422 | 4.9 |
| Nigeria | 36,220 | 37,200 | 37,200 | 37,200 | 37,200 | – |
| Sudan | 6,402 | 6,615 | 6,700 | 6,700 | 6,700 | – |
| Others | 6,100 | 6,270 | 6,020 | 6,105 | 6,105 | – |
| Asia and Pacific | 40,640 | 40,964 | 40,223 | 40,278 | 44,433 | 10.3 |
| Australia | 4,158 | 4,158 | 4,158 | 4,158 | 4,158 | – |
| Brunei | 1,105 | 1,200 | 1,200 | 1,200 | 1,100 | -8.3 |
| China | 15,587 | 15,615 | 15,493 | 15,493 | 18,000 | 16.2 |
| India | 5,919 | 5,693 | 5,459 | 5,459 | 5,800 | 6.2 |
| Indonesia | 4,188 | 4,370 | 3,990 | 3,990 | 3,990 | – |
| Malaysia | 5,252 | 5,357 | 5,357 | 5,357 | 5,500 | 2.7 |
| Vietnam | 3,119 | 3,250 | 3,410 | 3,410 | 4,700 | 37.8 |
| Others | 1,313 | 1,321 | 1,156 | 1,211 | 1,185 | -2.1 |
| Total world | 1,198,953 | 1,209,545 | 1,219,353 | 1,294,100 | 1,337,200 | 3.3 |
| <i>of which</i> | | | | | | |
| OPEC | 924,265 | 935,834 | 948,058 | 1,023,393 | 1,064,288 | 4.0 |
| OPEC percentage | 77.1 | 77.4 | 77.8 | 79.1 | 79.6 | 0.6 |
| OECD | 61,547 | 59,176 | 57,213 | 56,581 | 54,307 | -4.0 |
| FSU | 126,372 | 128,020 | 128,146 | 127,763 | 128,118 | 0.3 |

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.

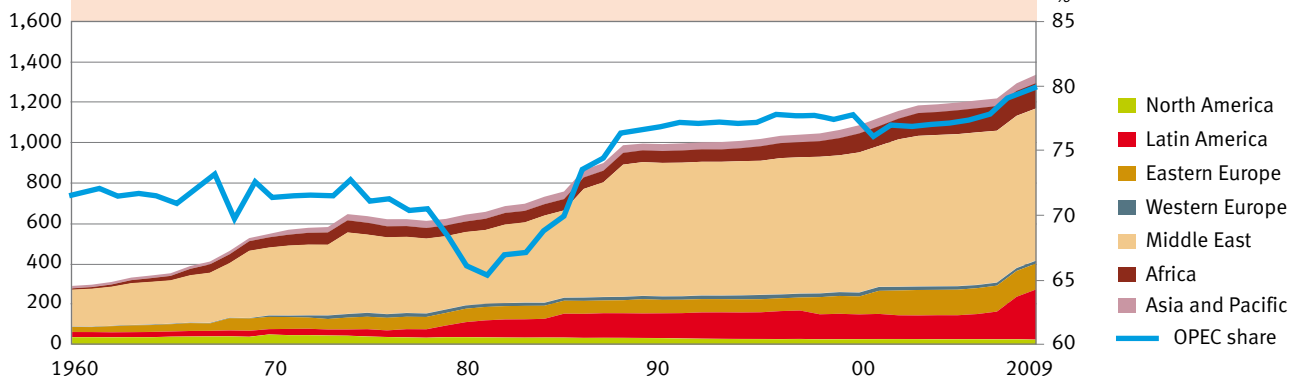
Table 3.2
Oil and gas data

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

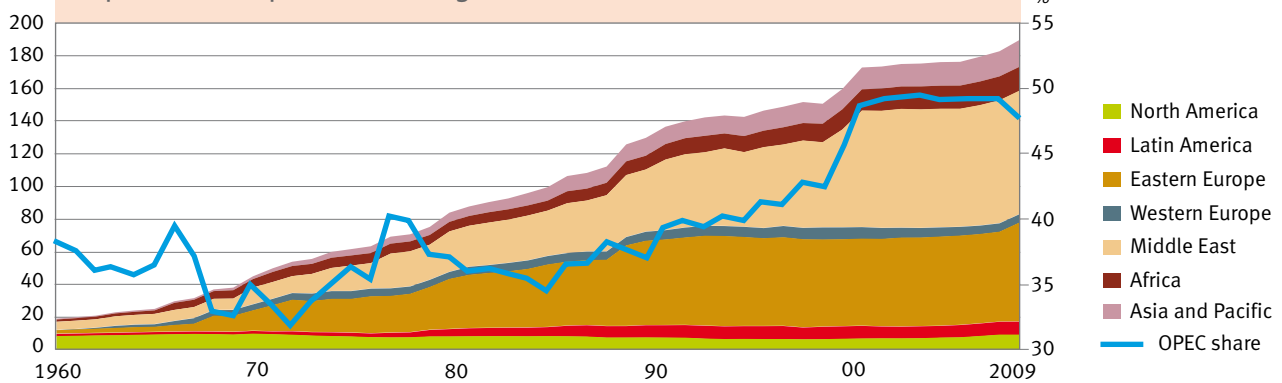
| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| North America | 7,421 | 7,599 | 8,360 | 9,168 | 9,168 | — |
| Canada | 1,633 | 1,622 | 1,630 | 1,700 | 1,700 | — |
| United States | 5,788 | 5,977 | 6,730 | 7,468 | 7,468 | — |
| Latin America | 7,263 | 7,624 | 7,768 | 8,017 | 8,065 | 0.6 |
| Argentina | 439 | 446 | 440 | 428 | 399 | -6.8 |
| Bolivia | 740 | 740 | 740 | 750 | 750 | — |
| Brazil | 306 | 348 | 365 | 380 | 365 | -3.9 |
| Chile | 43 | 42 | 44 | 46 | 46 | — |
| Colombia | 113 | 105 | 106 | 114 | 124 | 8.8 |
| Ecuador | 9 | 9 | 8 | 8 | 8 | — |
| Mexico | 408 | 392 | 373 | 359 | 359 | — |
| Peru | 338 | 335 | 355 | 415 | 415 | — |
| Trinidad & Tobago | 530 | 480 | 480 | 500 | 500 | — |
| Venezuela | 4,315 | 4,708 | 4,838 | 4,983 | 5,065 | 1.6 |
| Others | 22 | 19 | 19 | 34 | 34 | — |
| Eastern Europe | 54,526 | 54,588 | 54,650 | 55,006 | 60,487 | 10.0 |
| Armenia | 165 | 165 | 165 | 164 | 164 | — |
| Azerbaijan | 1,275 | 1,275 | 1,285 | 1,325 | 1,359 | 2.6 |
| Kazakhstan | 1,900 | 1,900 | 1,900 | 1,910 | 1,950 | 2.1 |
| Poland | 106 | 103 | 97 | 93 | 93 | — |
| Romania | 628 | 628 | 628 | 629 | 629 | — |
| Russia | 44,860 | 44,855 | 44,900 | 44,900 | 44,900 | — |
| Turkmenistan | 2,680 | 2,680 | 2,680 | 3,000 | 8,400 | 180.0 |
| Ukraine | 1,030 | 1,030 | 1,030 | 1,020 | 1,020 | — |
| Uzbekistan | 1,735 | 1,755 | 1,755 | 1,745 | 1,745 | — |
| Others | 147 | 197 | 210 | 220 | 227 | 3.2 |
| Western Europe | 5,836 | 5,524 | 5,344 | 5,292 | 5,246 | -0.9 |
| Denmark | 122 | 120 | 116 | 113 | 118 | 4.4 |
| Germany | 178 | 155 | 137 | 119 | 119 | — |
| Italy | 177 | 94 | 84 | 82 | 69 | -15.9 |
| Netherlands | 1,387 | 1,316 | 1,266 | 1,236 | 1,222 | -1.1 |
| Norway | 3,108 | 3,022 | 2,961 | 2,985 | 2,985 | — |
| United Kingdom | 728 | 684 | 647 | 625 | 601 | -3.8 |
| Others | 136 | 133 | 133 | 132 | 132 | — |
| Middle East | 72,518 | 72,235 | 73,643 | 75,289 | 75,540 | 0.3 |
| IR Iran | 27,580 | 26,850 | 28,080 | 29,610 | 29,610 | — |
| Iraq | 3,170 | 3,170 | 3,170 | 3,170 | 3,170 | — |
| Kuwait | 1,572 | 1,780 | 1,784 | 1,784 | 1,784 | — |
| Oman | 690 | 690 | 690 | 690 | 690 | — |
| Qatar | 25,636 | 25,636 | 25,636 | 25,466 | 25,366 | -0.4 |
| Saudi Arabia | 6,900 | 7,154 | 7,305 | 7,570 | 7,920 | 4.6 |
| United Arab Emirates | 6,060 | 6,040 | 6,072 | 6,091 | 6,091 | — |
| Others | 910 | 915 | 906 | 908 | 908 | — |
| Africa | 14,269 | 14,317 | 14,608 | 14,735 | 14,782 | 0.3 |
| Algeria | 4,504 | 4,504 | 4,504 | 4,504 | 4,504 | — |
| Angola | 270 | 270 | 270 | 272 | 310 | 14.0 |
| Cameroon | 230 | 230 | 235 | 235 | 235 | — |
| Congo | 130 | 130 | 130 | 130 | 130 | — |
| Egypt | 1,920 | 1,985 | 2,060 | 2,170 | 2,170 | — |
| SP Libyan AJ | 1,491 | 1,420 | 1,540 | 1,540 | 1,549 | 0.6 |
| Nigeria | 5,152 | 5,207 | 5,292 | 5,292 | 5,292 | — |
| Others | 572 | 571 | 578 | 593 | 593 | — |
| Asia and Pacific | 14,439 | 14,543 | 15,180 | 15,394 | 16,425 | 6.7 |
| Australia | 2,429 | 2,485 | 2,510 | 2,600 | 3,145 | 21.0 |
| Bangladesh | 407 | 383 | 374 | 370 | 344 | -7.0 |
| Brunei | 340 | 331 | 343 | 350 | 350 | — |
| China | 2,270 | 2,420 | 2,630 | 2,660 | 3,090 | 16.2 |
| India | 1,101 | 1,075 | 1,055 | 1,065 | 1,065 | — |
| Indonesia | 2,756 | 2,659 | 3,002 | 3,100 | 3,280 | 5.8 |
| Malaysia | 2,480 | 2,480 | 2,475 | 2,475 | 2,350 | -5.1 |
| Myanmar | 485 | 515 | 600 | 590 | 590 | — |
| Pakistan | 852 | 847 | 850 | 852 | 843 | -1.1 |
| Thailand | 304 | 331 | 317 | 304 | 340 | 11.8 |
| Vietnam | 220 | 220 | 220 | 217 | 217 | — |
| Others | 795 | 797 | 804 | 811 | 811 | — |
| Total world | 176,272 | 176,429 | 179,554 | 182,901 | 189,712 | 3.7 |
| <i>of which</i> | | | | | | |
| OPEC | 86,659 | 86,748 | 88,500 | 90,290 | 90,669 | 0.4 |
| OPEC share | 49.2 | 49.2 | 49.3 | 49.4 | 47.8 | -3.2 |
| OECD | 16,270 | 16,220 | 16,827 | 17,656 | 18,160 | 2.9 |
| FSU | 53,747 | 53,762 | 53,814 | 54,169 | 59,642 | 10.1 |

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

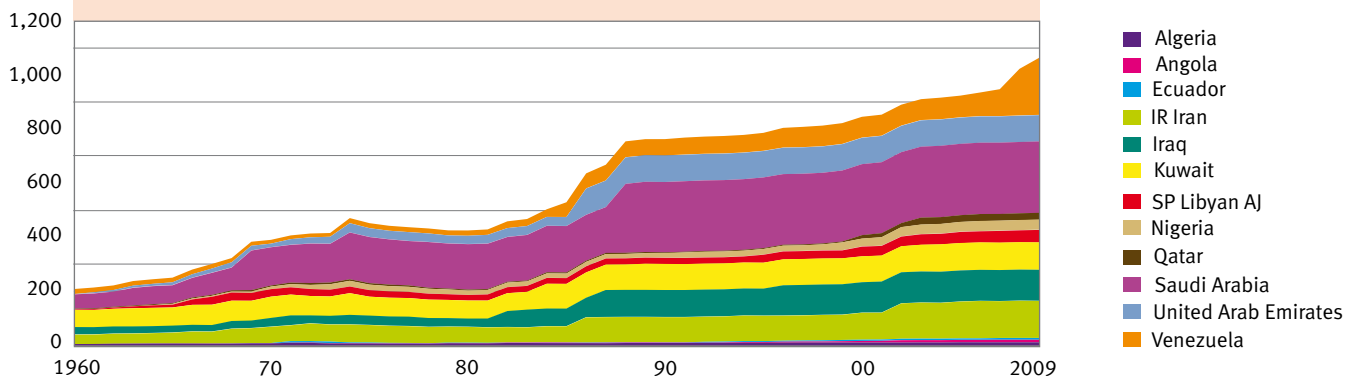
Graph 3.1: World proven crude oil reserves (bn b)



Graph 3.2: World proven natural gas reserves (1,000 bn standard cu m)



Graph 3.3: OPEC Members proven crude oil reserves (bn b)



Graph 3.4: OPEC Members proven natural gas reserves (1,000 bn standard cu m)

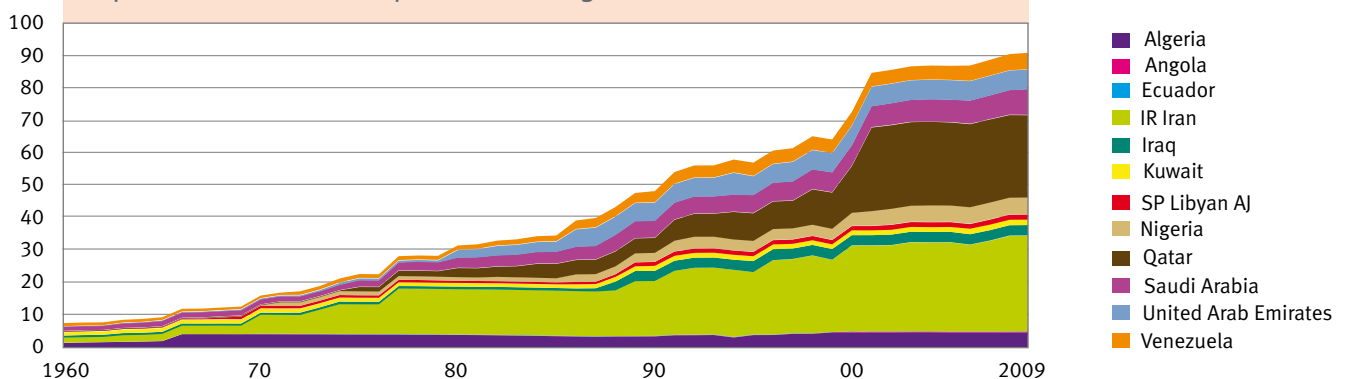


Table 3.3
Oil and gas data

Active rigs in OPEC Members and in world

| | 2005 | 2006 | 2007 | 2008 | 2009 | change 09/08 |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|-----------------|
| North America | 2,045 | 2,174 | 2,171 | 2,143 | 1,485 | -658 |
| Canada | 575 | 456 | 360 | 361 | 313 | -48 |
| United States | 1,470 | 1,718 | 1,811 | 1,782 | 1,172 | -610 |
| Latin America | 327 | 329 | 370 | 389 | 353 | -36 |
| Argentina | 81 | 81 | 87 | 70 | 55 | -15 |
| Bolivia | 5 | 3 | 2 | 3 | 4 | 1 |
| Brazil | 28 | 33 | 46 | 59 | 66 | 7 |
| Chile | - | 1 | 2 | 1 | 4 | 3 |
| Colombia | 21 | 24 | 40 | 42 | 31 | -11 |
| Ecuador | 14 | 12 | 9 | 13 | 10 | -3 |
| Mexico | 94 | 84 | 98 | 111 | 122 | 11 |
| Trinidad & Tobago | 5 | 7 | 5 | 4 | 3 | -1 |
| Venezuela | 75 | 76 | 71 | 78 | 49 | -29 |
| Western Europe | 120 | 103 | 120 | 152 | 125 | -27 |
| France | 1 | - | 1 | 1 | 1 | - |
| Germany | 3 | 4 | 5 | 10 | 5 | -5 |
| Italy | 3 | 5 | 5 | 4 | 4 | - |
| Netherlands | 5 | 3 | 2 | 5 | 5 | - |
| Norway | 15 | 15 | 19 | 25 | 22 | -3 |
| United Kingdom | 27 | 22 | 22 | 22 | 14 | -8 |
| Middle East | 292 | 337 | 356 | 361 | 333 | -28 |
| IR Iran | 38 | 52 | 52 | 52 | 52 | - |
| Iraq | 30 | 30 | 30 | 30 | 30 | - |
| Kuwait | 13 | 16 | 11 | 11 | 17 | 6 |
| Bahrain | na | na | na | na | na | na |
| Oman | 36 | 41 | 53 | 52 | 48 | -4 |
| Qatar | 14 | 9 | 16 | 10 | 8 | -2 |
| Saudi Arabia | 44 | 75 | 76 | 74 | 67 | -7 |
| Syrian Arab Republic | 23 | 25 | 19 | 20 | 19 | -1 |
| United Arab Emirates | 15 | 15 | 14 | 14 | 11 | -3 |
| Yemen | 14 | 15 | 16 | 15 | 12 | -3 |
| Africa | 49 | 67 | 74 | 67 | 70 | 3 |
| Algeria | 21 | 25 | 29 | 27 | 27 | - |
| Angola | 3 | 4 | 5 | 6 | 5 | -1 |
| Egypt | 32 | 39 | 50 | 60 | 49 | -11 |
| Gabon | 3 | 3 | 4 | 1 | 2 | 1 |
| SP Libyan AJ | 9 | 13 | 15 | 15 | 16 | 1 |
| Nigeria | 9 | 11 | 9 | 7 | 8 | 1 |
| South Africa | - | - | - | 1 | - | -1 |
| Asia and Pacific | 236 | 235 | 241 | 242 | 266 | 24 |
| Australia | 14 | 22 | 21 | 26 | 17 | -9 |
| Brunei | - | 1 | 1 | 1 | 1 | - |
| India | 83 | 85 | 84 | 82 | 104 | 22 |
| Indonesia | 60 | 53 | 66 | 61 | 58 | -3 |
| Malaysia | 12 | 14 | 11 | 19 | 13 | -6 |
| New Zealand | 6 | 6 | 5 | 4 | 5 | 1 |
| Pakistan | 11 | 17 | 19 | 21 | 18 | -3 |
| Total world¹ | 3,069 | 3,245 | 3,332 | 3,354 | 2,632 | -722 |
| <i>of which</i> | | | | | | |
| OPEC | 285 | 338 | 337 | 337 | 300 | -37 |
| <i>OPEC percentage</i> | <i>9.3</i> | <i>10.4</i> | <i>10.1</i> | <i>10.0</i> | <i>11.4</i> | |
| OECD | 2,237 | 2,363 | 2,368 | 2,364 | 1,681 | -683 |
| FSU | na | na | na | na | na | na |

Notes: Geographic area totals include all countries in the region, some of which may not have been mentioned in the breakdown. Totals may not add up due to independent rounding. Revisions have been made throughout the time series.

1. Excluding China and the Former Soviet Union.

Table 3.4

Oil and gas data

Wells completed in OPEC Members

| | 2005 | 2006 | 2007 | 2008 | 2009 | change 09/08 |
|---------------------|------------|------------|------------|------------|------------|-----------------|
| Algeria | 198 | 285 | 300 | 316 | 263 | -53 |
| Oil | 131 | 210 | 205 | 200 | 166 | -34 |
| Gas | 37 | 38 | 55 | 80 | 66 | -14 |
| Dry | 15 | 7 | 10 | 14 | 12 | -2 |
| Others | 16 | 30 | 30 | 30 | 19 | -11 |
| Average depth (ft) | 9,915 | 8,968 | 9,300 | 9,644 | 9,547 | -97 |
| Angola | 45 | 57 | 75 | 99 | 60 | -39 |
| Oil | 40 | 48 | 61 | 78 | 47 | -31 |
| Gas | na | na | na | na | na | na |
| Dry | 2 | 4 | 10 | 25 | 11 | -14 |
| Others | 3 | 5 | 4 | 3 | 2 | -1 |
| Average depth (ft) | 9,000 | 9,000 | 9,100 | 9,201 | 9,060 | -141 |
| Ecuador | 134 | 154 | 149 | 144 | 105 | -39 |
| Oil | 118 | 125 | 146 | 171 | 105 | -66 |
| Gas | na | na | na | na | na | na |
| Dry | 7 | 11 | 1 | - | - | - |
| Others | 9 | 18 | 2 | - | - | 2 |
| Average depth (ft) | 9,728 | 9,730 | 9,732 | 9,733 | 9,730 | -3 |
| IR Iran | 183 | 188 | 235 | 294 | 132 | -162 |
| Oil | 90 | 155 | 194 | 243 | 106 | -137 |
| Gas | 15 | 22 | 31 | 44 | 19 | -25 |
| Dry | 10 | 3 | 4 | 5 | 3 | -2 |
| Others | 68 | 8 | 6 | 5 | 4 | -1 |
| Average depth (ft) | 7,225 | 7,228 | 7,232 | 7,235 | 7,224 | -11 |
| Iraq | 15 | 19 | na | na | 23 | - |
| Oil | 10 | 14 | na | na | na | na |
| Gas | - | - | na | na | na | na |
| Dry | 1 | 1 | na | na | na | na |
| Others | 4 | 4 | na | na | na | na |
| Average depth (ft) | 6,562 | 6,565 | na | na | 5,435 | na |
| Kuwait | 67 | 73 | 73 | 73 | 83 | 10 |
| Oil | 59 | 60 | 60 | 60 | 68 | 8 |
| Gas | na | na | na | na | na | na |
| Dry | 2 | 1 | 1 | 1 | 1 | - |
| Others | 6 | 12 | 12 | 12 | 14 | 2 |
| Average depth (ft) | 8,175 | 8,175 | 8,193 | 8,211 | 8,181 | -30 |
| SP Libyan AJ | 115 | 128 | 153 | 183 | 163 | -20 |
| Oil | 102 | 108 | 139 | 179 | 151 | -28 |
| Gas | 2 | 3 | 4 | 5 | 4 | -1 |
| Dry | 4 | 4 | 5 | 6 | 5 | -1 |
| Others | 7 | 13 | 5 | 2 | 2 | - |
| Average depth (ft) | 6,710 | 6,555 | 6,500 | 6,446 | 6,583 | 137 |
| Nigeria | 95 | 143 | 183 | 234 | 140 | -94 |
| Oil | 69 | 104 | 153 | 225 | 130 | -95 |
| Gas | 8 | 12 | 14 | 16 | 5 | -11 |
| Dry | 10 | 15 | 1 | - | - | - |
| Others | 8 | 12 | 15 | 19 | 5 | -14 |
| Average depth (ft) | 9,015 | 9,015 | 9,150 | 9,287 | 9,095 | -192 |

Table 3.4
Oil and gas data

Wells completed in OPEC Members

| | 2005 | 2006 | 2007 | 2008 | 2009 | change 09/08 |
|----------------------------------|---------------|----------------|----------------|----------------|---------------|-----------------|
| Qatar | 62 | 85 | 88 | 91 | 73 | -18 |
| Oil | 12 | 17 | 20 | 24 | 8 | -16 |
| Gas | 31 | 44 | 66 | 99 | 65 | -34 |
| Dry | 4 | 5 | 1 | – | – | – |
| Others | 15 | 19 | 2 | – | – | – |
| Average depth (ft) | 9,479 | 9,480 | 9,450 | 9,420 | 10,039 | 619 |
| Saudi Arabia | 373 | 420 | 483 | 555 | 450 | -105 |
| Oil | na | 333 | 383 | 441 | 340 | -101 |
| Gas | na | 35 | 45 | 58 | 39 | -19 |
| Dry | na | 4 | 5 | 6 | 3 | -3 |
| Others | na | 24 | 50 | 104 | 68 | -36 |
| Average depth (ft) | 8,005 | 8,010 | 8,100 | 8,191 | 8,061 | -130 |
| Saudi-Kuwait Neutral Zone | 17 | 54 | 20 | 7 | 70 | 63 |
| Oil | 14 | 47 | 18 | 7 | 70 | 63 |
| Gas | na | na | 2 | na | na | na |
| Dry | 1 | 1 | na | na | na | na |
| Others | 2 | 6 | na | na | na | na |
| Average depth (ft) | 6,525 | 6,520 | 6,568 | 6,616 | 6,550 | -66 |
| United Arab Emirates | 109 | 105 | 112 | 119 | 173 | 54 |
| Oil | 94 | 93 | 96 | 99 | 144 | 45 |
| Gas | 6 | 5 | 7 | 10 | 10 | – |
| Dry | 4 | 3 | 2 | 1 | 1 | – |
| Others | 5 | 4 | 7 | 12 | 18 | 6 |
| Average depth (ft) | 8,905 | 8,910 | 8,512 | 8,132 | 8,679 | 547 |
| Venezuela | 1,281 | 1,508 | 1,550 | 1,593 | 775 | -818 |
| Oil | 997 | 1,170 | 1,195 | 1,221 | 566 | -655 |
| Gas | 7 | 10 | 35 | 123 | 57 | -66 |
| Dry | 12 | 15 | 30 | 60 | 29 | -31 |
| Others | 265 | 313 | 290 | 269 | 123 | -146 |
| Average depth (ft) | 5,755 | 5,756 | 5,760 | 5,764 | 5,757 | -7 |
| OPEC | 2,694 | 3,219 | 3,421 | 3,709 | 2,510 | -1,199 |
| Oil | 1,736 | 2,484 | 2,670 | 2,946 | 1,900 | -1,046 |
| Gas | 106 | 169 | 259 | 434 | 266 | -168 |
| Dry | 72 | 74 | 70 | 120 | 65 | -55 |
| Others | 408 | 468 | 423 | 456 | 255 | -201 |
| Average depth (ft) | 8,077 | 7,993 | 8,133 | 8,157 | 7,995 | -161 |
| Total world¹ | 97,430 | 104,009 | 105,831 | 107,685 | 87,225 | -20,460 |
| Oil | 36,358 | 44,328 | 45,160 | 46,008 | 39,567 | -6,441 |
| Gas | 46,623 | 41,715 | 44,083 | 46,585 | 39,644 | -6,941 |
| Dry | 7,146 | 7,247 | 7,306 | 7,365 | 6,228 | -1,137 |
| Others | 1,788 | 4,560 | 3,079 | 2,079 | 1,787 | -292 |
| Average depth (ft) | 5,605 | 5,842 | 6,376 | 6,959 | 6,077 | -882 |

Notes: Others = service and suspended wells. Figures include development and exploration wells.

1. Excluding Eastern Europe. Summation of wells by category may not equal total due to unavailability of individual data for some countries.

Table 3.5

Oil and gas data

Producing wells in OPEC Members

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|----------------------------------|----------------|------------------|------------------|------------------|------------------|-------------------|
| Algeria | 1,475 | 1,580 | 1,790 | 2,028 | 1,587 | -21.8 |
| Flowing | 1,098 | 1,195 | 1,350 | 1,525 | 1,193 | -21.8 |
| Artificial lift | 377 | 385 | 440 | 503 | 394 | -21.8 |
| Angola | 1,110 | 1,183 | 1,250 | 1,321 | 1,307 | -1.1 |
| Flowing | 599 | 651 | 689 | 729 | 721 | -1.1 |
| Artificial lift | 511 | 532 | 561 | 592 | 586 | -1.0 |
| Ecuador | 765 | 807 | 3,134 | 3,447 | 3,295 | -4.4 |
| Flowing | 18 | 18 | 75 | 83 | 79 | -4.4 |
| Artificial lift | 747 | 789 | 3,059 | 3,365 | 3,217 | -4.4 |
| IR Iran | 1,540 | 1,435 | 1,737 | 2,074 | 1,853 | -10.7 |
| Flowing | 1,540 | 1,435 | 1,717 | 2,054 | 1,834 | -10.7 |
| Artificial lift | – | – | 20 | 20 | 19 | -2.7 |
| Iraq | 1,480 | 1,490 | 1,508 | 1,526 | 1,657 | 8.6 |
| Flowing | 1,250 | 1,258 | 1,273 | 1,288 | 1,439 | 11.7 |
| Artificial lift | 230 | 232 | 235 | 238 | 218 | -8.3 |
| Kuwait | 1,030 | 1,055 | 1,103 | 1,286 | 997 | -22.5 |
| Flowing | 1,020 | 1,040 | 1,043 | 1,046 | 926 | -11.5 |
| Artificial lift | 10 | 15 | 60 | 240 | 72 | -70.2 |
| SP Libyan AJ | 1,685 | 1,725 | 1,875 | 2,060 | 1,682 | -18.4 |
| Flowing | 1,010 | 1,035 | 1,030 | 1,025 | 985 | -3.9 |
| Artificial lift | 675 | 690 | 845 | 1,035 | 697 | -32.6 |
| Nigeria | 2,775 | 2,825 | 2,984 | 3,152 | 2,347 | -25.5 |
| Flowing | 2,081 | 2,125 | 2,243 | 2,368 | 1,779 | -24.9 |
| Artificial lift | 694 | 700 | 741 | 784 | 568 | -27.6 |
| Qatar | 320 | 332 | 413 | 516 | 428 | -17.1 |
| Flowing | 219 | 227 | 295 | 383 | 288 | -24.7 |
| Artificial lift | 101 | 105 | 118 | 133 | 139 | 4.7 |
| Saudi Arabia | 1,885 | 1,900 | 2,310 | 2,811 | 1,823 | -35.2 |
| Flowing | 1,760 | 1,771 | 2,170 | 2,659 | 1,710 | -35.7 |
| Artificial lift | 125 | 129 | 140 | 152 | 113 | -25.6 |
| Saudi-Kuwait Neutral Zone | 662 | 679 | 719 | 761 | 761 | – |
| Flowing | 238 | 241 | 259 | 278 | 278 | – |
| Artificial lift | 424 | 438 | 460 | 483 | 483 | – |
| United Arab Emirates | 1,583 | 1,659 | 1,719 | 1,782 | 1,516 | -14.9 |
| Flowing | 1,186 | 1,247 | 1,276 | 1,306 | 1,132 | -13.4 |
| Artificial lift | 397 | 412 | 443 | 476 | 384 | -19.3 |
| Venezuela | 13,625 | 14,430 | 14,540 | 14,651 | 12,941 | -11.7 |
| Flowing | 610 | 720 | 740 | 761 | 614 | -19.4 |
| Artificial lift | 13,015 | 13,710 | 13,800 | 13,891 | 12,328 | -11.3 |
| OPEC¹ | 29,935 | 31,100 | 35,082 | 37,415 | 32,194 | -14.0 |
| Flowing | 12,629 | 12,963 | 14,160 | 15,505 | 12,977 | -16.3 |
| Artificial lift | 17,306 | 18,137 | 20,922 | 21,912 | 19,218 | -12.3 |
| Total world^{1,2} | 942,963 | 1,452,860 | 1,482,727 | 1,509,416 | 1,479,228 | -2.0 |
| Flowing | 50,382 | 51,486 | 30,521 | 31,070 | 30,449 | -2.0 |
| Artificial lift | 760,406 | 763,932 | 1,247,388 | 1,269,841 | 1,244,444 | -2.0 |

Notes: Excluding shut-in wells. Figures as at year-end.

1. Summation of wells by category may not equal the total for OPEC due to lack of data for some countries.

2. Including Eastern Europe.

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

Crude oil production, daily average

| | 1960 | 1970 | 1980 | 1990 | 2000 | 2009 |
|---------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Algeria | 181.1 | 1,029.1 | 1,019.9 | 783.5 | 796.0 | 1,216.0 |
| Angola | 1.1 | 83.9 | 150.0 | 473.8 | 736.1 | 1,738.9 |
| Ecuador | 7.5 | 4.1 | 204.1 | 286.1 | 392.2 | 464.7 |
| IR Iran | 1,067.7 | 3,829.0 | 1,467.4 | 3,135.3 | 3,661.3 | 3,557.1 |
| Iraq | 972.2 | 1,548.6 | 2,646.4 | 2,112.6 | 2,810.0 | 2,336.2 |
| Kuwait ¹ | 1,691.8 | 2,989.6 | 1,663.7 | 858.6 | 1,996.1 | 2,261.6 |
| SP Libyan AJ | – | 3,318.0 | 1,831.6 | 1,389.1 | 1,347.2 | 1,473.9 |
| Nigeria | 17.4 | 1,083.1 | 2,058.0 | 1,726.7 | 2,053.6 | 1,842.0 |
| Qatar | 174.6 | 362.4 | 471.4 | 405.6 | 648.2 | 733.0 |
| Saudi Arabia ¹ | 1,313.5 | 3,799.1 | 9,900.5 | 6,412.5 | 8,094.5 | 8,184.0 |
| United Arab Emirates | – | 779.6 | 1,701.9 | 1,762.6 | 2,174.7 | 2,241.6 |
| Venezuela | 2,846.1 | 3,708.0 | 2,165.0 | 2,135.2 | 2,891.0 | 2,878.1 |
| OPEC | 8,273.0 | 22,534.5 | 25,279.9 | 21,481.6 | 27,600.8 | 28,927.1 |

Cumulative crude oil production up to and including year

| | 1960 | 1970 | 1980 | 1990 | 2000 | 2009 |
|---------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| Algeria | 81,372 | 2,569,469 | 6,404,548 | 8,974,340 | 11,837,030 | 15,644,724 |
| Angola | 1,127 | 76,423 | 623,359 | 1,681,478 | 3,972,081 | 8,176,829 |
| Ecuador | 2,745 | 26,191 | 617,927 | 1,526,131 | 2,843,162 | 4,373,577 |
| IR Iran | 4,167,717 | 12,357,977 | 29,969,896 | 38,410,483 | 51,367,070 | 63,859,184 |
| Iraq | 2,750,439 | 7,476,078 | 15,826,156 | 22,246,208 | 26,918,241 | 33,736,232 |
| Kuwait ¹ | 4,333,049 | 13,028,906 | 21,993,164 | 25,857,094 | 32,092,887 | 39,704,181 |
| SP Libyan AJ | – | 5,476,384 | 12,810,843 | 16,929,582 | 21,993,272 | 27,052,067 |
| Nigeria | 12,318 | 1,138,896 | 8,389,456 | 13,656,562 | 20,572,881 | 27,450,737 |
| Qatar | 451,617 | 1,428,583 | 3,199,374 | 4,334,808 | 6,032,088 | 8,451,078 |
| Saudi Arabia ¹ | 4,345,242 | 13,283,848 | 42,306,785 | 61,814,608 | 91,266,532 | 119,407,329 |
| United Arab Emirates | – | 1,160,471 | 7,164,231 | 11,921,927 | 19,785,670 | 27,417,603 |
| Venezuela | 13,865,487 | 26,301,976 | 36,046,663 | 42,528,079 | 51,772,971 | 61,322,309 |
| OPEC | 30,011,111 | 84,325,201 | 185,352,402 | 249,881,299 | 340,453,882 | 436,595,850 |

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)

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| North America | 6,538.3 | 6,447.8 | 6,489.5 | 6,303.5 | 6,526.7 | 3.5 |
| Canada | 1,360.0 | 1,345.7 | 1,388.4 | 1,348.7 | 1,216.6 | -9.8 |
| United States | 5,178.4 | 5,102.1 | 5,101.1 | 4,954.8 | 5,310.1 | 7.2 |
| Latin America | 10,130.3 | 10,077.8 | 9,828.0 | 9,636.0 | 9,516.4 | -1.2 |
| Argentina | 664.6 | 657.7 | 641.5 | 641.6 | 623.1 | -2.9 |
| Brazil | 1,633.6 | 1,722.7 | 1,748.0 | 1,812.1 | 1,950.4 | 7.6 |
| Chile | 4.0 | 3.0 | 2.0 | 2.0 | 2.0 | - |
| Colombia | 525.8 | 531.0 | 529.5 | 587.8 | 670.2 | 14.0 |
| Ecuador | 511.9 | 518.4 | 511.4 | 501.4 | 464.7 | -7.3 |
| Mexico | 3,333.6 | 3,255.7 | 3,081.7 | 2,798.5 | 2,601.4 | -7.0 |
| Peru | 111.3 | 77.6 | 77.0 | 76.6 | 71.8 | -6.3 |
| Trinidad & Tobago | 145.0 | 144.9 | 120.5 | 114.7 | 112.0 | -2.3 |
| Venezuela | 3,066.8 | 3,035.6 | 2,981.9 | 2,957.5 | 2,878.1 | -2.7 |
| Others | 133.9 | 131.2 | 134.4 | 143.9 | 142.7 | -0.9 |
| Eastern Europe | 11,083.2 | 11,532.4 | 12,003.7 | 12,041.4 | 12,386.1 | 2.9 |
| Albania | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | - |
| Azerbaijan | 438.2 | 643.2 | 855.2 | 899.7 | 1,014.4 | 12.7 |
| Hungary | 19.0 | 17.8 | 16.6 | 16.0 | 15.9 | -0.3 |
| Kazakhstan | 986.7 | 1,056.5 | 1,079.3 | 1,142.7 | 1,256.3 | 9.9 |
| Romania | 106.2 | 98.3 | 100.2 | 92.8 | 88.5 | -4.6 |
| Russia | 9,147.6 | 9,358.5 | 9,572.1 | 9,498.5 | 9,650.4 | 1.6 |
| Others | 378.4 | 351.1 | 373.3 | 384.7 | 353.6 | -8.1 |
| Western Europe | 4,905.1 | 4,501.5 | 4,319.9 | 4,046.9 | 3,820.1 | -5.6 |
| Denmark | 377.1 | 342.0 | 304.6 | 279.8 | 261.3 | -6.6 |
| France | 21.6 | 21.4 | 19.6 | 19.6 | 18.2 | -6.8 |
| Germany | 68.4 | 66.7 | 66.3 | 61.7 | 54.6 | -11.6 |
| Italy | 114.5 | 110.2 | 107.7 | 99.5 | 82.8 | -16.8 |
| Netherlands | 29.0 | 26.2 | 40.2 | 33.6 | 25.5 | -24.1 |
| Norway | 2,552.7 | 2,353.6 | 2,210.5 | 2,107.5 | 1,989.2 | -5.6 |
| Turkey | 43.5 | 41.6 | 41.9 | 41.6 | 46.2 | 11.1 |
| United Kingdom | 1,644.2 | 1,486.4 | 1,477.4 | 1,352.5 | 1,291.7 | -4.5 |
| Others | 53.9 | 53.4 | 51.6 | 51.1 | 50.6 | -1.0 |
| Middle East | 22,722.0 | 22,900.8 | 22,361.6 | 23,141.6 | 20,856.7 | -9.9 |
| Bahrain | 186.5 | 183.3 | 184.7 | 184.5 | 182.0 | -1.4 |
| IR Iran | 4,091.5 | 4,072.6 | 4,030.7 | 4,055.7 | 3,557.1 | -12.3 |
| Iraq | 1,853.2 | 1,957.2 | 2,035.2 | 2,280.5 | 2,336.2 | 2.4 |
| Kuwait ¹ | 2,573.4 | 2,664.5 | 2,574.5 | 2,676.0 | 2,261.6 | -15.5 |
| Oman | 714.8 | 687.1 | 653.0 | 669.3 | 712.6 | 6.5 |
| Qatar | 765.9 | 802.9 | 845.3 | 842.8 | 733.0 | -13.0 |
| Saudi Arabia ¹ | 9,353.3 | 9,207.9 | 8,816.0 | 9,198.0 | 8,184.0 | -11.0 |
| Syrian Arab Republic | 415.8 | 400.0 | 380.0 | 377.0 | 377.0 | - |
| United Arab Emirates | 2,378.0 | 2,568.0 | 2,529.0 | 2,572.2 | 2,241.6 | -12.9 |
| Yemen | 389.6 | 357.3 | 313.2 | 285.7 | 271.6 | -4.9 |
| Africa | 8,815.7 | 8,952.2 | 9,097.5 | 9,315.2 | 8,561.5 | -8.1 |
| Algeria | 1,352.0 | 1,368.8 | 1,371.6 | 1,356.0 | 1,216.0 | -10.3 |
| Angola | 1,241.4 | 1,384.6 | 1,694.6 | 1,896.3 | 1,738.9 | -8.3 |
| Cameroon | 82.3 | 87.5 | 82.2 | 80.0 | 75.7 | -5.4 |
| Congo | 241.1 | 247.2 | 243.1 | 259.7 | 274.9 | 5.9 |
| Egypt | 578.9 | 533.1 | 516.4 | 516.8 | 496.0 | -4.0 |
| Gabon | 253.5 | 250.0 | 250.1 | 243.8 | 264.6 | 8.6 |
| SP Libyan AJ | 1,693.2 | 1,751.2 | 1,673.9 | 1,721.5 | 1,473.9 | -14.4 |
| Nigeria | 2,365.9 | 2,233.9 | 2,059.3 | 2,017.4 | 1,842.0 | -8.7 |
| Tunisia | 69.6 | 67.2 | 90.6 | 90.0 | 82.4 | -8.5 |
| Others | 937.8 | 1,028.6 | 1,115.8 | 1,133.8 | 1,097.1 | -3.2 |
| Asia and Pacific | 7,328.4 | 7,322.6 | 7,322.5 | 7,416.9 | 7,358.5 | -0.8 |
| Australia | 443.7 | 424.1 | 448.7 | 463.7 | 463.7 | - |
| Brunei | 187.8 | 198.1 | 169.7 | 157.5 | 154.4 | -2.0 |
| China | 3,617.2 | 3,673.5 | 3,736.0 | 3,802.1 | 3,793.0 | -0.2 |
| India | 652.1 | 675.6 | 684.1 | 682.0 | 666.3 | -2.3 |
| Indonesia | 941.8 | 894.8 | 843.8 | 853.4 | 826.1 | -3.2 |
| Malaysia | 726.9 | 704.0 | 695.3 | 694.2 | 659.9 | -4.9 |
| New Zealand | 18.5 | 18.2 | 41.7 | 60.1 | 55.9 | -7.1 |
| Others | 740.5 | 734.2 | 703.3 | 703.9 | 739.3 | 5.0 |
| Total world | 71,523.0 | 71,734.9 | 71,422.7 | 71,901.7 | 69,025.9 | -4.0 |
| <i>of which</i> | | | | | | |
| OPEC | 31,246.4 | 31,565.6 | 31,123.4 | 32,075.4 | 28,927.1 | -9.8 |
| OPEC percentage | 43.7 | 44.0 | 43.6 | 44.6 | 41.9 | -6.1 |
| OECD | 15,255.6 | 14,659.6 | 14,392.3 | 13,685.8 | 13,478.2 | -1.5 |
| FSU | 10,927.5 | 11,388.0 | 11,860.6 | 11,904.6 | 12,256.9 | 3.0 |

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*)

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|---------------------|---------|---------|---------|---------|---------|-------------------|
| Algeria | | | | | | |
| Gross production | 193,101 | 194,782 | 198,182 | 201,186 | 196,917 | -2.1 |
| Marketed production | 89,235 | 88,209 | 84,827 | 86,505 | 81,426 | -5.9 |
| Flaring | 2,996 | 3,340 | 4,675 | 4,953 | 5,503 | 11.1 |
| Reinjection | 86,563 | 90,216 | 93,045 | 92,918 | 95,007 | 2.2 |
| Shrinkage | 14,307 | 13,017 | 15,635 | 16,810 | 14,981 | -10.9 |
| Angola | | | | | | |
| Gross production | 8,500 | 9,400 | 10,810 | 10,050 | 10,100 | 0.5 |
| Marketed production | 650 | 680 | 830 | 680 | 690 | 1.5 |
| Flaring | 6,500 | 6,500 | 7,300 | 6,920 | 6,907 | -0.2 |
| Reinjection | 1,200 | 2,070 | 2,500 | 2,300 | 2,290 | -0.4 |
| Shrinkage | 150 | 150 | 180 | 150 | 213 | 42.2 |
| Ecuador | | | | | | |
| Gross production | 1,240 | 1,250 | 1,240 | 1,250 | 1,400 | 12.0 |
| Marketed production | 260 | 280 | 275 | 260 | 296 | 13.8 |
| Flaring | 780 | 770 | 770 | 770 | 570 | -26.0 |
| Reinjection | 200 | 200 | 195 | 220 | – | -100.0 |
| Shrinkage | – | – | – | – | 534 | – |
| IR Iran | | | | | | |
| Gross production | 161,500 | 167,800 | 174,200 | 180,423 | 210,334 | 16.6 |
| Marketed production | 103,500 | 108,600 | 111,900 | 116,300 | 175,742 | 51.1 |
| Flaring | 12,000 | 15,830 | 15,695 | 16,811 | 15,874 | -5.6 |
| Reinjection | 30,500 | 26,663 | 28,479 | 27,412 | 18,719 | -31.7 |
| Shrinkage | 15,500 | 16,707 | 18,126 | 19,900 | – | -100.0 |
| Iraq | | | | | | |
| Gross production | 11,350 | 11,900 | 13,596 | 14,781 | 16,577 | 12.2 |
| Marketed production | 1,450 | 1,450 | 1,460 | 1,880 | 1,149 | -38.9 |
| Flaring | 7,900 | 6,600 | 6,621 | 6,005 | 6,984 | 16.3 |
| Reinjection | 800 | 800 | 763 | 900 | 968 | 7.5 |
| Shrinkage | 1,200 | 3,050 | 4,752 | 5,996 | 7,477 | 24.7 |
| Kuwait | | | | | | |
| Gross production | 13,300 | 13,670 | 13,310 | 13,870 | 11,689 | -15.7 |
| Marketed production | 12,300 | 12,410 | 12,060 | 12,700 | 11,489 | -9.5 |
| Flaring | 1 | 260 | 250 | 200 | 200 | – |
| Reinjection | – | – | – | – | – | – |
| Shrinkage | 1,000 | 1,000 | 1,000 | 970 | – | -100.0 |
| SP Libyan AJ | | | | | | |
| Gross production | 21,845 | 27,064 | 29,219 | 30,310 | 29,289 | -3.4 |
| Marketed production | 11,300 | 13,195 | 15,280 | 15,900 | 15,900 | – |
| Flaring | 2,584 | 2,980 | 2,909 | 3,940 | 3,261 | -17.2 |
| Reinjection | 3,544 | 3,634 | 3,366 | 3,526 | 3,570 | 1.3 |
| Shrinkage | 4,417 | 7,255 | 7,664 | 6,944 | 6,557 | -5.6 |

Table 3.8

Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-----------------------------|---------|---------|---------|---------|---------|-------------------|
| Nigeria | | | | | | |
| Gross production | 58,350 | 61,800 | 68,400 | 72,638 | 56,717 | -21.9 |
| Marketed production | 22,400 | 28,500 | 32,500 | 32,825 | 23,206 | -29.3 |
| Flaring | 23,000 | 22,300 | 22,300 | 19,073 | 13,328 | -30.1 |
| Reinjection | 11,000 | 9,000 | 10,000 | 14,423 | 14,245 | -1.2 |
| Shrinkage | 1,950 | 2,000 | 3,600 | 6,317 | 5,937 | -6.0 |
| Qatar | | | | | | |
| Gross production | 57,600 | 64,200 | 77,200 | 90,887 | 102,800 | 13.1 |
| Marketed production | 45,800 | 50,700 | 63,200 | 76,981 | 89,300 | 16.0 |
| Flaring | 3,900 | 4,100 | 4,200 | 3,597 | 3,966 | 10.2 |
| Reinjection | 2,000 | 3,400 | 3,500 | 4,758 | 3,886 | -18.3 |
| Shrinkage | 5,900 | 6,000 | 6,300 | 5,551 | 5,648 | 1.8 |
| Saudi Arabia | | | | | | |
| Gross production | 81,350 | 85,001 | 83,280 | 86,400 | 89,610 | 3.7 |
| Marketed production | 71,240 | 73,461 | 74,420 | 80,440 | 78,450 | -2.5 |
| Flaring | 200 | 70 | 200 | – | – | – |
| Reinjection | 160 | 217 | 100 | 160 | 50 | -68.8 |
| Shrinkage | 9,750 | 11,253 | 8,560 | 5,800 | 11,110 | 91.6 |
| United Arab Emirates | | | | | | |
| Gross production | 70,470 | 76,194 | 78,963 | 80,055 | 75,840 | -5.3 |
| Marketed production | 47,790 | 48,790 | 50,290 | 50,240 | 48,840 | -2.8 |
| Flaring | 910 | 950 | 970 | 980 | 967 | -1.4 |
| Reinjection | 16,500 | 20,984 | 22,033 | 23,135 | 22,051 | -4.7 |
| Shrinkage | 5,270 | 5,470 | 5,670 | 5,700 | 3,983 | -30.1 |
| Venezuela | | | | | | |
| Gross production | 73,348 | 73,471 | 71,622 | 71,978 | 72,170 | 0.3 |
| Marketed production | 23,444 | 20,340 | 20,729 | 20,750 | 18,430 | -11.2 |
| Flaring | 7,077 | 5,182 | 7,184 | 9,173 | 8,753 | -4.6 |
| Reinjection | 30,375 | 32,318 | 30,974 | 30,200 | 31,626 | 4.7 |
| Shrinkage | 12,452 | 15,631 | 12,735 | 11,855 | 13,362 | 12.7 |
| OPEC | | | | | | |
| Gross production | 751,954 | 786,532 | 820,022 | 853,828 | 873,443 | 2.3 |
| Marketed production | 429,369 | 446,615 | 467,771 | 495,461 | 544,917 | 10.0 |
| Flaring | 67,848 | 68,882 | 73,074 | 72,422 | 66,312 | -8.4 |
| Reinjection | 182,842 | 189,502 | 194,955 | 199,952 | 192,412 | -3.8 |
| Shrinkage | 71,896 | 81,533 | 84,222 | 85,993 | 69,803 | -18.8 |

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*)

| | 2005 | 2006 | 2007 | 2008 | 2009* | % change 09/08 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| North America | 696,600 | 709,140 | 719,570 | 745,250 | 734,660 | -1.4 |
| Canada | 185,770 | 185,490 | 179,350 | 171,190 | 150,360 | -12.2 |
| United States | 510,830 | 523,650 | 540,220 | 574,060 | 584,300 | 1.8 |
| Latin America | 172,184 | 180,520 | 187,534 | 193,940 | 188,716 | -2.7 |
| Argentina | 45,630 | 46,100 | 44,830 | 44,060 | 41,360 | -6.1 |
| Bolivia | 12,350 | 13,190 | 14,090 | 14,660 | 12,620 | -13.9 |
| Brazil | 9,770 | 9,880 | 9,840 | 12,620 | 10,280 | -18.5 |
| Chile | 2,050 | 1,960 | 1,760 | 1,870 | 1,700 | -9.1 |
| Colombia | 6,670 | 7,220 | 7,640 | 9,000 | 10,490 | 16.6 |
| Cuba | 400 | 400 | 400 | 1,160 | 1,150 | -0.9 |
| Ecuador | 260 | 280 | 275 | 260 | 296 | 13.8 |
| Mexico | 39,050 | 42,930 | 46,290 | 46,610 | 48,320 | 3.7 |
| Peru | 1,580 | 1,780 | 2,670 | 3,650 | 3,470 | -4.9 |
| Trinidad & Tobago | 30,980 | 36,440 | 39,010 | 39,300 | 40,600 | 3.3 |
| Venezuela | 23,444 | 20,340 | 20,729 | 20,750 | 18,430 | -11.2 |
| Eastern Europe | 785,300 | 804,370 | 814,620 | 832,690 | 729,460 | -12.4 |
| Azerbaijan | 5,700 | 6,650 | 10,800 | 12,500 | 12,810 | 2.5 |
| Hungary | 2,800 | 3,000 | 2,600 | 2,610 | 3,090 | 18.4 |
| Kazakhstan | 23,680 | 24,350 | 27,800 | 31,400 | 33,470 | 6.6 |
| Poland | 4,500 | 4,300 | 4,300 | 4,100 | 4,110 | 0.2 |
| Romania | 12,400 | 12,080 | 11,600 | 10,700 | 10,950 | 2.3 |
| Russia | 601,000 | 615,500 | 611,500 | 621,300 | 546,800 | -12.0 |
| Turkmenistan | 59,100 | 59,300 | 64,600 | 66,100 | 35,720 | -46.0 |
| Ukraine | 19,300 | 19,500 | 19,500 | 19,800 | 19,880 | 0.4 |
| Uzbekistan | 55,600 | 58,800 | 61,200 | 63,400 | 62,300 | -1.7 |
| Others | 1,220 | 890 | 720 | 780 | 330 | -57.7 |
| Western Europe | 295,780 | 284,260 | 271,700 | 289,410 | 271,790 | -6.1 |
| Austria | 1,640 | 1,830 | 1,850 | 1,530 | 1,670 | 9.2 |
| Croatia | 1,640 | 1,580 | 1,580 | 1,580 | 1,410 | -10.8 |
| Denmark | 10,470 | 10,440 | 9,210 | 10,090 | 8,450 | -16.3 |
| France | 1,150 | 1,230 | 1,080 | 920 | 880 | -4.3 |
| Germany | 18,960 | 18,800 | 17,100 | 15,600 | 14,590 | -6.5 |
| Ireland | 530 | 420 | 380 | 360 | 320 | -11.1 |
| Italy | 11,960 | 10,840 | 9,710 | 9,140 | 8,020 | -12.3 |
| Netherlands | 73,120 | 70,740 | 68,300 | 79,960 | 74,060 | -7.4 |
| Norway | 87,000 | 87,600 | 89,700 | 99,200 | 103,470 | 4.3 |
| United Kingdom | 88,290 | 79,820 | 72,300 | 69,900 | 58,560 | -16.2 |
| Others | 1,020 | 960 | 490 | 1,130 | 360 | -68.1 |
| Middle East | 320,150 | 337,991 | 356,540 | 382,581 | 450,439 | 17.7 |
| Bahrain | 10,710 | 11,330 | 11,780 | 12,640 | 12,500 | -1.1 |
| IR Iran | 103,500 | 108,600 | 111,900 | 116,300 | 175,742 | 51.1 |

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*)

| | 2005 | 2006 | 2007 | 2008 | 2009* | % change 09/08 |
|------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Iraq | 1,450 | 1,450 | 1,460 | 1,880 | 1,149 | -38.9 |
| Kuwait | 12,300 | 12,410 | 12,060 | 12,700 | 11,489 | -9.5 |
| Oman | 19,970 | 23,710 | 24,040 | 24,060 | 24,760 | 2.9 |
| Qatar | 45,800 | 50,700 | 63,200 | 76,981 | 89,300 | 16.0 |
| Saudi Arabia | 71,240 | 73,461 | 74,420 | 80,440 | 78,450 | -2.5 |
| Syrian Arab Republic | 6,100 | 6,250 | 6,000 | 5,900 | 6,250 | 5.9 |
| United Arab Emirates | 47,790 | 48,790 | 50,290 | 50,240 | 48,840 | -2.8 |
| Others | 1,290 | 1,290 | 1,390 | 1,440 | 1,960 | 36.1 |
| Africa | 169,225 | 186,994 | 193,257 | 213,520 | 202,622 | -5.1 |
| Algeria | 89,235 | 88,209 | 84,827 | 86,505 | 81,426 | -5.9 |
| Angola | 650 | 680 | 830 | 680 | 690 | 1.5 |
| Egypt | 35,000 | 45,200 | 46,500 | 58,970 | 62,690 | 6.3 |
| Equatorial Guinea | 1,300 | 1,300 | 2,920 | 6,670 | 5,900 | -11.5 |
| Côte d'Ivoire | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | - |
| SP Libyan AJ | 11,300 | 13,195 | 15,280 | 15,900 | 15,900 | - |
| Mozambique | 2,400 | 2,750 | 3,000 | 3,300 | 3,600 | 9.1 |
| Nigeria | 22,400 | 28,500 | 32,500 | 32,825 | 23,206 | -29.3 |
| South Africa | 2,760 | 2,900 | 3,000 | 3,250 | 3,600 | 10.8 |
| Tunisia | 2,500 | 2,550 | 2,200 | 2,970 | 2,970 | - |
| Others | 380 | 410 | 900 | 1,150 | 1,340 | 16.5 |
| Asia Pacific | 364,620 | 378,170 | 390,740 | 415,400 | 434,140 | 4.5 |
| Australia | 42,140 | 43,600 | 43,700 | 47,500 | 52,580 | 10.7 |
| Bangladesh | 14,500 | 15,320 | 16,270 | 17,900 | 19,750 | 10.3 |
| Brunei | 13,000 | 13,800 | 13,450 | 13,400 | 11,500 | -14.2 |
| China | 49,950 | 58,550 | 67,900 | 76,100 | 81,960 | 7.7 |
| India | 30,910 | 30,800 | 31,380 | 32,200 | 38,650 | 20.0 |
| Indonesia | 71,850 | 71,140 | 68,590 | 70,000 | 72,410 | 3.4 |
| Japan | 3,100 | 3,420 | 3,900 | 3,950 | 3,740 | -5.3 |
| Malaysia | 55,700 | 55,860 | 55,500 | 61,200 | 58,600 | -4.2 |
| Myanmar | 12,200 | 12,600 | 13,520 | 12,400 | 11,540 | -6.9 |
| Pakistan | 35,500 | 36,120 | 36,800 | 37,500 | 37,900 | 1.1 |
| Philippines | 2,100 | 2,200 | 2,900 | 2,940 | 3,090 | 5.1 |
| Thailand | 23,690 | 24,320 | 26,000 | 28,760 | 30,880 | 7.4 |
| Vietnam | 5,300 | 5,700 | 5,900 | 6,980 | 7,090 | 1.6 |
| New Zealand | 3,920 | 4,000 | 4,130 | 3,880 | 3,970 | 2.3 |
| Others | 760 | 740 | 800 | 690 | 480 | -30.4 |
| Total world | 2,803,859 | 2,881,445 | 2,933,961 | 3,072,791 | 3,011,827 | -2.0 |
| <i>of which</i> | | | | | | |
| OPEC | 429,369 | 446,615 | 467,771 | 495,461 | 544,917 | 10.0 |
| <i>OPEC percentage</i> | <i>15.31</i> | <i>15.50</i> | <i>15.94</i> | <i>16.12</i> | <i>18.09</i> | <i>12.2</i> |
| OECD | 1,086,350 | 1,093,220 | 1,094,950 | 1,142,130 | 1,120,810 | -1.9 |
| FSU | 764,760 | 784,250 | 795,550 | 814,650 | 711,130 | -12.7 |

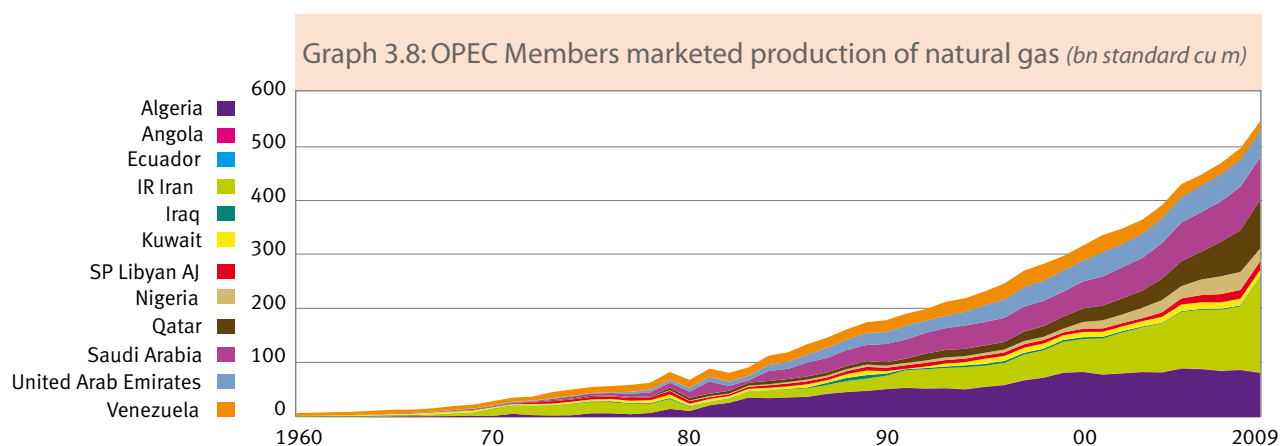
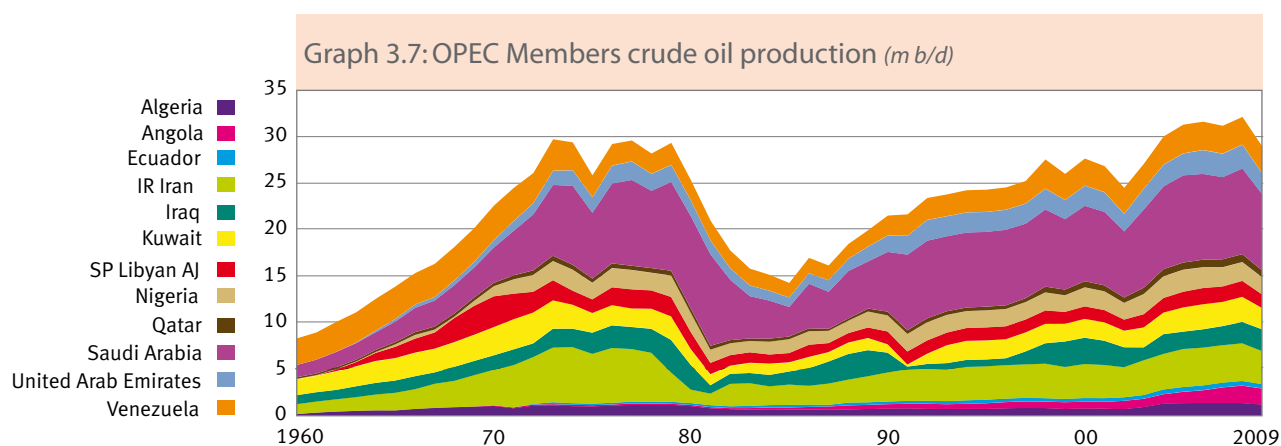
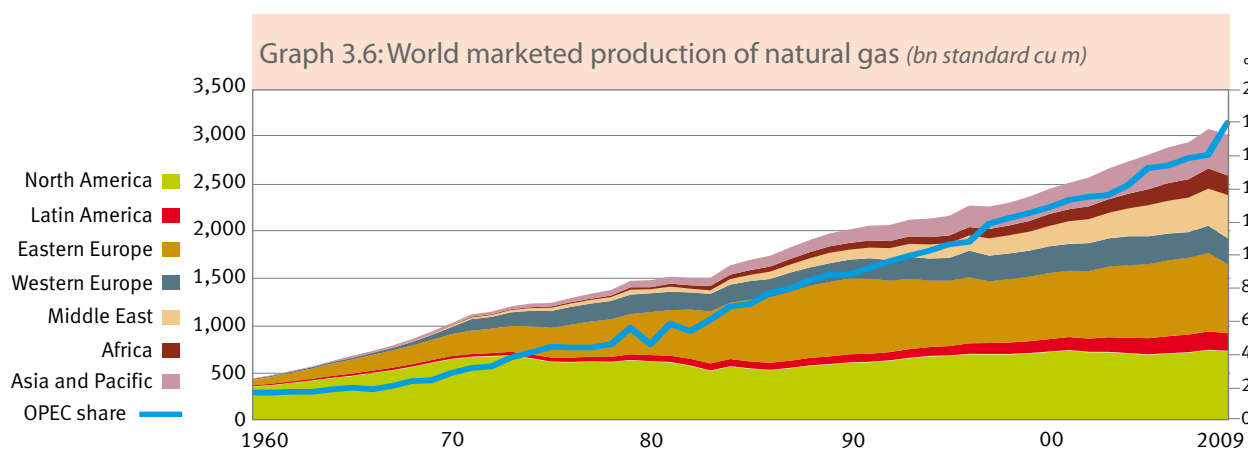
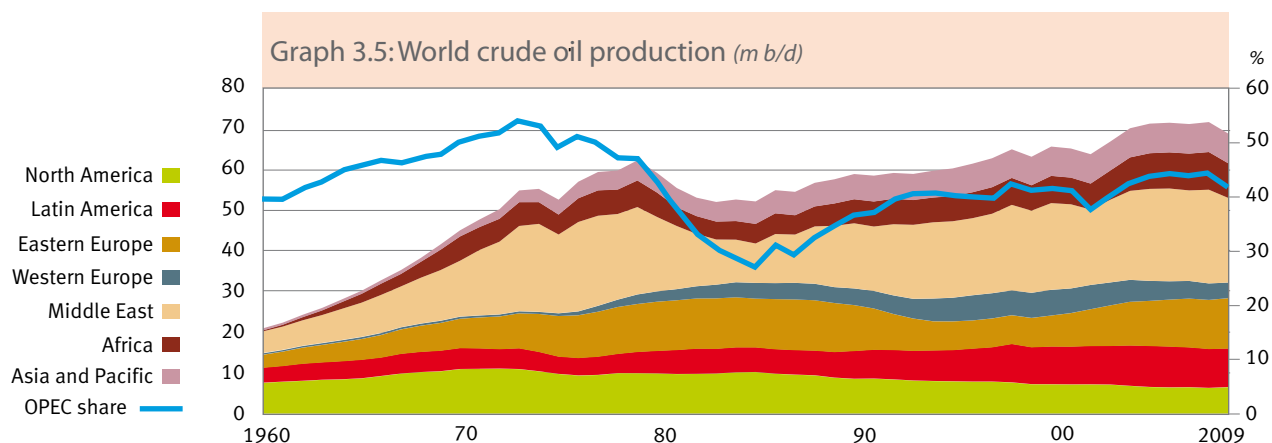


Table 3.10

Oil and gas data

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

| | Location | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|
| Algeria | | 462.2 | 455.2 | 475.0 | 523.1 | 652.4 |
| Sonatrach | Skikda | 323.4 | 309.8 | 323.4 | 359.1 | 352.7 |
| | Arzew | 53.9 | 57.5 | 53.9 | 59.8 | 58.5 |
| | El Harrach | 58.2 | 60.4 | 58.2 | 58.5 | 63.4 |
| | Hassi Messaoud | 26.7 | 27.5 | 26.7 | 31.4 | 163.5 |
| | In Amenas | – | – | – | – | – |
| | Adrar | – | – | 12.8 | 14.4 | 14.4 |
| Angola | | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 |
| Fina Petroleos de Angola | Luanda | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 |
| Ecuador | | 176.0 | 176.0 | 188.4 | 188.4 | 188.4 |
| Petroindustrial | Esmeraldas | 110.0 | 110.0 | 110.0 | 110.0 | 110.0 |
| | Santa Elens | 38.0 | 38.0 | 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 |
| Andes Petroleum | Sucumbios | – | – | 3.5 | 3.5 | 3.5 |
| Repsol YPF | Orellana | 7.0 | 7.0 | 7.2 | 7.2 | 7.2 |
| IR Iran | | 1,474.0 | 1,474.0 | 1,474.0 | 1,474.0 | 1,474.0 |
| NIOC | Abadan | 400.0 | 400.0 | 400.0 | 400.0 | 400.0 |
| | Arak | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 |
| | Tehran | 225.0 | 225.0 | 225.0 | 225.0 | 225.0 |
| | Isfahan | 265.0 | 265.0 | 265.0 | 265.0 | 265.0 |
| | Tabriz | 112.0 | 112.0 | 112.0 | 112.0 | 112.0 |
| | Shiraz | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| | Kermanshah | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| | Lavan | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| | Masjid-I-Sulaiman | – | – | – | – | – |
| | Bandar Abbas | 232.0 | 232.0 | 232.0 | 232.0 | 232.0 |
| Iraq | | 603.0 | 638.5 | 638.5 | 658.5 | 824.0 |
| INOC | Basrah | 126.0 | 150.0 | 150.0 | 160.0 | 140.0 |
| | Daurah | 100.0 | 110.0 | 110.0 | 90.0 | 142.3 |
| | Kirkuk | 27.0 | 10.0 | 10.0 | 10.0 | 30.0 |
| | Baiji (Salaheddin) | 140.0 | 150.0 | 150.0 | 150.0 | 135.8 |
| | Baiji (North) | 150.0 | 160.0 | 160.0 | 170.0 | 170.0 |
| | Khanaqin/Alwand | 10.5 | 10.0 | 10.0 | 10.0 | 12.0 |
| | Samawah | 27.0 | 20.0 | 20.0 | 20.0 | 30.0 |
| | Haditha | 14.0 | 10.0 | 10.0 | 20.0 | 16.0 |
| | Muftiah | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | Gaiyarah | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | Najaf | – | 10.0 | 10.0 | 20.0 | 30.0 |
| | Others | – | – | – | – | 109.4 |
| Kuwait | | 936.0 | 932.0 | 936.0 | 936.0 | 936.0 |
| KNPC | Mina Al-Ahmadi | 466.0 | 462.0 | 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 |

Table 3.10
Oil and gas data

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

| | Location | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------------|---------------------------|----------------|----------------|----------------|----------------|----------------|
| SP Libyan AJ | | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 |
| NOC | Zawia | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| | Marsa El-Brega | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| | Ras Lanuf | 220.0 | 220.0 | 220.0 | 220.0 | 220.0 |
| | Tobruk | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| | Sarir | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Nigeria | | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 |
| WRPC | Warri | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 |
| KRPC | Kaduna | 110.0 | 110.0 | 110.0 | 110.0 | 110.0 |
| PHRC | Port Hartcourt | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 |
| | Port Hartcourt New | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 |
| Qatar | | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 |
| Qatar Petroleum | Mesaieed I | – | – | – | – | – |
| Qatar Petroleum | Mesaieed II | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 |
| Saudi Arabia | | 2,091.0 | 2,135.5 | 2,130.0 | 2,135.0 | 2,109.0 |
| Saudi Aramco | Ras Tanura | 535.0 | 550.0 | 550.0 | 550.0 | 550.0 |
| Saudi Aramco | Jeddah | 84.0 | 88.0 | 85.0 | 88.0 | 88.0 |
| Saudi Aramco | Riyadh | 121.0 | 127.5 | 120.0 | 122.0 | 124.0 |
| Getty | Mina Saud | – | – | – | – | – |
| AOC | Khafji | 30.0 | 30.0 | 30.0 | 30.0 | – |
| Saudi Aramco | Yanbu (Domestic) | 235.0 | 235.0 | 235.0 | 235.0 | 235.0 |
| Saudi Aramco/Mobil | Yanbu (Export) | 403.0 | 400.0 | 400.0 | 400.0 | 400.0 |
| Saudi Aramco/Shell | Jubail | 308.0 | 305.0 | 310.0 | 310.0 | 310.0 |
| Saudi Aramco/Petrola | Rabigh | 375.0 | 400.0 | 400.0 | 400.0 | 402.0 |
| United Arab Emirates | | 466.3 | 466.3 | 466.3 | 466.3 | 466.3 |
| ADNOC | Al-Ruwais | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| ADNOC | Umm Al-Narr | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 |
| Metro Oil | Fujairah | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 |
| Emirate Oil | Jebel Ali | 120.0 | 120.0 | 120.0 | 120.0 | 120.0 |
| Sharjah Oil Refinery | Hamriyah | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 |
| Venezuela | | 1,054.3 | 1,039.8 | 1,034.7 | 1,027.2 | 981.2 |
| PDVSA | Amuay | – | – | 454.3 | 454.3 | – |
| | Caripito | – | – | – | – | – |
| | Cardon | – | – | 260.0 | 260.0 | – |
| | Paraguaná Refining Centre | 736.7 | 720.4 | – | – | 707.7 |
| | San Lorenzo | – | – | – | – | – |
| | Bajo Grande | 11.1 | 12.1 | 13.1 | 4.7 | – |
| | Moron | – | – | – | – | – |
| | Tucupita | – | – | – | – | – |
| | Puerto La Cruz/San Roque | 173.1 | 175.2 | 175.2 | 175.3 | 178.4 |
| | San Roque | 0.0 | 0.0 | 0.0 | 5.1 | 4.4 |
| | El Palito | 133.4 | 132.1 | 132.1 | 127.8 | 90.8 |
| | Barinas | – | – | – | – | – |
| OPEC | | 8,206.8 | 8,261.3 | 8,286.8 | 8,352.5 | 8,575.2 |

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

Table 3.11

Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| North America | 19,143.2 | 19,313.8 | 19,416.7 | 19,409.1 | 19,802.8 | 2.0 |
| Canada | 2,017.0 | 2,041.2 | 1,969.5 | 2,029.5 | 2,039.3 | 0.5 |
| United States | 17,126.2 | 17,272.6 | 17,447.2 | 17,379.7 | 17,763.5 | 2.2 |
| Latin America | 8,147.0 | 7,980.4 | 7,991.0 | 8,135.9 | 8,135.9 | – |
| Argentina | 624.6 | 624.6 | 626.1 | 626.1 | 627.1 | 0.2 |
| Brazil | 1,908.3 | 1,908.3 | 1,908.3 | 1,908.3 | 1,908.3 | – |
| Colombia | 285.9 | 285.9 | 285.9 | 285.9 | 285.9 | – |
| Ecuador | 176.0 | 176.0 | 188.4 | 188.4 | 188.4 | – |
| Mexico | 1,684.0 | 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 | 175.0 | 168.0 | 168.0 | 168.0 | 168.0 | – |
| Venezuela | 1,054.3 | 1,039.8 | 1,034.7 | 1,027.2 | 981.2 | –4.5 |
| Virgin Islands | 495.0 | 500.0 | 500.0 | 500.0 | 500.0 | – |
| Eastern Europe | 9,822.4 | 9,859.4 | 9,921.4 | 9,624.9 | 9,521.8 | –1.1 |
| Russia | 5,432.8 | 5,341.0 | 5,339.0 | 5,428.5 | 5,428.5 | – |
| Others | 4,389.6 | 4,518.4 | 4,582.4 | 4,196.4 | 4,093.3 | –2.5 |
| Western Europe | 15,415.9 | 15,445.4 | 15,405.2 | 15,439.2 | 15,736.3 | 1.9 |
| Belgium | 857.6 | 790.6 | 797.6 | 797.6 | 797.6 | – |
| France | 1,979.5 | 1,958.8 | 1,938.1 | 1,986.2 | 1,986.2 | – |
| Germany | 2,428.2 | 2,417.4 | 2,417.1 | 2,417.5 | 2,417.5 | – |
| Italy | 2,324.4 | 2,337.2 | 2,337.2 | 2,337.2 | 2,337.2 | – |
| Netherlands | 1,221.9 | 1,211.9 | 1,226.9 | 1,207.7 | 1,207.7 | – |
| Spain | 1,271.5 | 1,271.5 | 1,277.0 | 1,271.5 | 1,271.5 | – |
| United Kingdom | 1,876.9 | 1,887.1 | 1,857.7 | 1,857.7 | 1,857.7 | – |
| Middle East | 6,707.7 | 6,903.0 | 6,914.6 | 7,036.2 | 7,245.4 | 3.0 |
| IR Iran | 1,474.0 | 1,474.0 | 1,474.0 | 1,474.0 | 1,474.0 | – |
| Iraq | 603.0 | 638.5 | 638.5 | 658.5 | 824.0 | 25.1 |
| Kuwait | 936.0 | 932.0 | 936.0 | 936.0 | 936.0 | – |
| Qatar | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | – |
| Saudi Arabia | 2,091.0 | 2,135.5 | 2,130.0 | 2,135.0 | 2,109.0 | –1.2 |
| United Arab Emirates | 466.3 | 466.3 | 466.3 | 466.3 | 466.3 | – |
| Africa | 3,288.8 | 3,250.6 | 3,275.4 | 3,278.4 | 3,278.4 | – |
| Algeria | 462.2 | 455.2 | 475.0 | 523.1 | 652.4 | 24.7 |
| Angola | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | – |
| Egypt | 726.3 | 726.3 | 726.3 | 726.3 | 726.3 | – |
| Gabon | 17.3 | 17.3 | 17.3 | 24.0 | 24.0 | – |
| SP Libyan AJ | 380.0 | 380.0 | 380.0 | 380.0 | 380.0 | – |
| Nigeria | 445.0 | 445.0 | 445.0 | 445.0 | 445.0 | – |
| Asia and Pacific | 22,863.6 | 23,900.5 | 24,438.1 | 23,089.8 | 23,534.6 | 1.9 |
| China | 6,246.0 | 6,246.0 | 6,246.0 | 6,446.0 | 6,446.0 | – |
| India | 2,254.6 | 2,255.5 | 2,255.5 | 2,255.5 | 2,255.5 | – |
| Indonesia | 1,057.0 | 1,057.0 | 1,050.8 | 1,050.8 | 1,050.8 | – |
| Japan | 4,671.9 | 4,676.7 | 4,650.7 | 4,690.7 | 4,690.7 | – |
| South Korea | 2,576.5 | 2,633.5 | 2,633.5 | 2,576.5 | 2,606.5 | 1.2 |
| Singapore | 1,318.6 | 1,318.6 | 1,344.0 | 1,344.0 | 1,344.0 | – |
| Taiwan | 1,220.0 | 1,290.0 | 1,290.0 | 1,290.0 | 1,290.0 | – |
| Australia | 701.6 | 704.7 | 701.1 | 707.1 | 724.7 | 2.5 |
| Total world | 85,388.6 | 86,653.1 | 87,362.4 | 86,013.5 | 87,255.1 | 1.4 |
| <i>of which</i> | | | | | | |
| OPEC | 8,206.8 | 8,261.3 | 8,286.8 | 8,352.5 | 8,575.2 | 2.7 |
| OPEC percentage | 9.6 | 9.5 | 9.5 | 9.7 | 9.8 | – |
| OECD | 45,023.2 | 45,023.2 | 45,053.2 | 45,138.9 | 45,592.9 | 1.0 |
| FSU | 8,223.8 | 8,260.8 | 8,311.3 | 8,014.9 | 8,014.9 | – |

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

Charge refinery capacity in OPEC Members, 2009 (1,000 b/cd)

| | No of refineries | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating |
|----------------------|------------------|----------------|---------------------|----------|--------------------|--------------------|---------------------|-------------------------|-------------------------|
| Algeria | 4 | 652.4 | 555.3 | – | – | 7.1 | 89.7 | – | 17.4 |
| Angola | 1 | 39.0 | 2.5 | – | – | – | 2.4 | – | 6.6 |
| Ecuador | 3 | 188.4 | 45.3 | – | 31.5 | 18.0 | 10.0 | 24.5 | 13.0 |
| IR Iran | 9 | 1,474.0 | 404.4 | – | 156.8 | 30.0 | 160.5 | 139.2 | 139.3 |
| Iraq | 9 | 824.0 | 36.3 | – | – | – | 195.8 | – | 118.2 |
| Kuwait | 3 | 936.0 | 341.8 | – | 80.0 | 43.0 | 54.6 | 204.5 | 243.9 |
| SP Libyan AJ | 5 | 380.0 | – | – | – | – | – | – | – |
| Nigeria | 4 | 445.0 | 127.8 | – | – | 86.0 | 73.5 | – | 119.3 |
| Qatar | 2 | 80.0 | – | – | – | 28.0 | 14.1 | – | 31.6 |
| Saudi Arabia | 7 | 2,109.0 | – | – | – | – | – | – | – |
| United Arab Emirates | 5 | 466.3 | 55.0 | – | – | – | 45.2 | 27.0 | 168.0 |
| Venezuela | 5 | 981.2 | 437.4 | – | – | 124.2 | 69.3 | – | 165.0 |
| OPEC | 57 | 8,575.2 | 2,005.8 | – | 268.3 | 336.3 | 715.1 | 395.2 | 1,022.2 |

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.

Table 3.13

Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| Algeria | 451.9 | 451.2 | 501.8 | 516.5 | 411.6 | -20.3 |
| Gasoline | 49.3 | 49.4 | 44.8 | 60.9 | 60.9 | 0.1 |
| Kerosene | 23.1 | 20.9 | 22.6 | 21.6 | 57.2 | 165.1 |
| Distillates | 128.7 | 138.2 | 141.4 | 178.0 | 166.5 | -6.5 |
| Residuals | 112.6 | 100.9 | 104.3 | 121.6 | 92.6 | -23.8 |
| Others | 138.1 | 141.7 | 188.7 | 134.5 | 34.3 | -74.5 |
| Angola | 41.9 | 49.8 | 60.6 | 47.8 | 46.2 | -3.3 |
| Gasoline | – | 1.5 | 1.4 | 1.8 | 0.9 | -51.3 |
| Kerosene | – | 6.3 | 7.6 | 7.0 | 10.0 | 42.9 |
| Distillates | – | 9.3 | 10.5 | 10.8 | 10.4 | -3.1 |
| Residuals | – | 10.5 | 11.3 | 11.0 | 13.7 | 24.8 |
| Others | – | 22.3 | 29.8 | 17.2 | 11.2 | -35.1 |
| Ecuador | 132.0 | 133.0 | 170.2 | 194.3 | 189.3 | -2.6 |
| Gasoline | 16.3 | 19.3 | 43.0 | 44.7 | 46.1 | 3.1 |
| Kerosene | 3.6 | 4.5 | 8.5 | 8.5 | 8.2 | -3.5 |
| Distillates | 34.6 | 33.0 | 31.0 | 32.9 | 35.6 | 8.1 |
| Residuals | 58.2 | 56.8 | 68.3 | 65.0 | 66.9 | 2.9 |
| Others | 19.2 | 19.3 | 19.4 | 15.3 | 32.5 | 112.8 |
| IR Iran | 1,439.8 | 1,447.9 | 1,498.0 | 1,587.0 | 1,726.1 | 8.8 |
| Gasoline | 208.0 | 274.2 | 319.0 | 306.3 | 332.6 | 8.6 |
| Kerosene | 177.7 | 132.8 | 133.5 | 159.5 | 119.2 | -25.3 |
| Distillates | 402.8 | 506.1 | 475.8 | 503.1 | 556.3 | 10.6 |
| Residuals | 436.1 | 482.6 | 442.8 | 462.2 | 494.4 | 7.0 |
| Others | 215.2 | 52.2 | 126.9 | 155.9 | 223.7 | 43.4 |
| Iraq | 477.4 | 484.2 | 480.8 | 453.2 | 456.6 | 0.7 |
| Gasoline | – | – | – | 59.9 | 60.1 | 0.3 |
| Kerosene | – | – | – | 46.7 | 47.8 | 2.3 |
| Distillates | – | – | – | 83.7 | 85.5 | 2.2 |
| Residuals | – | – | – | 209.5 | 210.9 | 0.7 |
| Others | – | – | – | 53.3 | 52.2 | -2.2 |
| Kuwait | 910.8 | 886.7 | 877.4 | 1,003.2 | 892.7 | -11.0 |
| Gasoline | 65.6 | 65.7 | 59.3 | 54.2 | 55.7 | 2.9 |
| Kerosene | 102.4 | 169.1 | 182.5 | 171.8 | 182.6 | 6.3 |
| Distillates | 360.0 | 295.7 | 249.1 | 243.3 | 300.6 | 23.5 |
| Residuals | 128.7 | 180.5 | 192.5 | 184.8 | 144.4 | -21.8 |
| Others | 254.0 | 175.7 | 194.0 | 349.1 | 209.4 | -40.0 |

Table 3.13
Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| SP Libyan AJ | 459.8 | 468.3 | 497.0 | 362.7 | 350.0 | -3.5 |
| Gasoline | 17.9 | 18.4 | 19.5 | 18.2 | 17.6 | -3.3 |
| Kerosene | 32.9 | 31.8 | 32.8 | 34.3 | 41.9 | 22.3 |
| Distillates | 84.9 | 87.7 | 87.8 | 84.4 | 89.4 | 5.9 |
| Residuals | 118.3 | 136.1 | 134.0 | 141.2 | 131.3 | -7.0 |
| Others | 205.9 | 194.2 | 222.9 | 84.6 | 69.9 | -17.5 |
| Nigeria | 388.0 | 369.4 | 378.7 | 372.2 | 249.4 | -33.0 |
| Gasoline | 70.2 | – | – | 56.2 | 10.5 | -81.3 |
| Kerosene | 49.1 | – | – | 26.9 | 8.3 | -69.4 |
| Distillates | 95.7 | – | – | 21.3 | 22.9 | 7.4 |
| Residuals | 76.2 | – | – | 0.4 | 0.9 | 143.0 |
| Others | 96.8 | – | – | 267.4 | 206.9 | -22.6 |
| Qatar | 119.1 | 131.8 | 131.8 | 126.2 | 126.3 | 0.1 |
| Gasoline | 38.4 | 39.7 | 45.7 | 44.6 | 40.7 | -8.6 |
| Kerosene | 19.9 | 24.4 | 24.0 | 24.2 | 22.8 | -5.8 |
| Distillates | 19.4 | 20.6 | 21.0 | 24.3 | 31.8 | 31.1 |
| Residuals | 9.4 | 13.6 | 7.8 | 3.9 | 4.2 | 7.8 |
| Others | 31.9 | 33.4 | 33.3 | 29.3 | 26.8 | -8.4 |
| Saudi Arabia | 1,974.4 | 1,960.1 | 1,873.6 | 1,970.9 | 1,911.0 | -3.0 |
| Gasoline | 313.2 | 281.0 | 351.7 | 338.8 | 355.1 | 4.8 |
| Kerosene | 221.7 | 211.9 | 184.3 | 190.4 | 174.0 | -8.6 |
| Distillates | 647.6 | 662.4 | 653.4 | 676.1 | 623.8 | -7.7 |
| Residuals | 487.6 | 495.9 | 477.8 | 476.5 | 497.6 | 4.4 |
| Others | 304.4 | 308.9 | 206.3 | 289.2 | 260.5 | -9.9 |
| United Arab Emirates | 441.6 | 423.8 | 393.0 | 395.9 | 400.4 | 1.1 |
| Gasoline | 43.6 | 61.2 | 54.6 | 50.6 | 55.9 | 10.6 |
| Kerosene | 117.4 | 117.0 | 107.5 | 106.4 | 111.7 | 5.0 |
| Distillates | 87.1 | 90.5 | 86.7 | 86.0 | 89.2 | 3.7 |
| Residuals | 23.7 | 21.4 | 20.1 | 16.5 | 31.3 | 89.5 |
| Others | 169.9 | 133.7 | 124.1 | 136.5 | 112.3 | -17.7 |
| Venezuela | 1,198.4 | 1,079.7 | 1,056.2 | 1,142.7 | 1,232.4 | 7.8 |
| Gasoline | 284.9 | 288.6 | 298.1 | 309.3 | 307.5 | -0.6 |
| Kerosene | 80.4 | 79.1 | 81.4 | 78.7 | 79.2 | 0.7 |
| Distillates | 331.4 | 307.5 | 274.8 | 316.5 | 339.2 | 7.2 |
| Residuals | 271.8 | 252.0 | 216.3 | 286.4 | 308.8 | 7.8 |
| Others | 229.9 | 152.6 | 185.7 | 151.9 | 197.7 | 30.2 |

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)

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| North America | 19,883.8 | 19,960.4 | 20,051.0 | 19,977.6 | 19,806.6 | -0.9 |
| Canada | 2,084.3 | 2,055.1 | 2,095.1 | 2,006.4 | 1,944.1 | -3.1 |
| United States | 17,799.5 | 17,905.3 | 17,955.9 | 17,971.2 | 17,862.5 | -0.6 |
| Latin America | 7,235.0 | 7,320.1 | 7,263.9 | 7,605.6 | 7,786.5 | 2.4 |
| Argentina | 603.3 | 627.4 | 671.8 | 673.4 | 612.7 | -9.0 |
| Brazil | 1,781.3 | 1,913.7 | 1,754.3 | 1,941.9 | 1,952.3 | 0.5 |
| Ecuador | 132.0 | 133.0 | 170.2 | 194.3 | 189.3 | -2.6 |
| Mexico | 1,474.7 | 1,474.0 | 1,457.0 | 1,434.1 | 1,514.9 | 5.6 |
| Venezuela | 1,198.4 | 1,079.7 | 1,056.2 | 1,142.7 | 1,232.4 | 7.8 |
| Virgin Islands | 445.2 | 446.9 | 452.0 | 457.7 | 462.9 | 1.1 |
| Others | 1,600.1 | 1,645.4 | 1,702.4 | 1,761.4 | 1,821.9 | 3.4 |
| Eastern Europe | 6,979.3 | 7,175.0 | 7,414.3 | 7,676.3 | 8,036.6 | 4.7 |
| Bulgaria | 131.3 | 150.8 | 150.5 | 149.8 | 138.3 | -7.7 |
| Romania | 319.5 | 306.7 | 290.5 | 287.3 | 253.7 | -11.7 |
| Russia | 5,693.2 | 5,869.7 | 6,108.5 | 6,357.1 | 6,425.1 | 1.1 |
| Others | 835.3 | 847.9 | 864.8 | 882.0 | 1,219.6 | 38.3 |
| Western Europe | 15,002.3 | 14,851.3 | 14,761.0 | 15,289.7 | 13,796.0 | -9.8 |
| Belgium | 761.7 | 747.3 | 785.8 | 815.0 | 691.3 | -15.2 |
| France | 1,798.6 | 1,808.8 | 1,789.9 | 1,846.3 | 1,659.0 | -10.1 |
| Germany | 2,516.6 | 2,485.3 | 2,450.8 | 2,534.8 | 2,257.8 | -10.9 |
| Italy | 2,027.3 | 1,965.7 | 2,024.8 | 2,093.2 | 1,754.3 | -16.2 |
| Netherlands | 1,800.6 | 1,721.6 | 1,546.5 | 1,606.2 | 1,414.6 | -11.9 |
| Norway | 319.3 | 338.3 | 337.0 | 348.2 | 312.6 | -10.2 |
| Portugal | 281.6 | 290.0 | 270.0 | 278.8 | 225.9 | -19.0 |
| Spain | 1,218.8 | 1,240.3 | 1,210.2 | 1,250.3 | 1,186.8 | -5.1 |
| United Kingdom | 1,782.3 | 1,677.9 | 1,671.4 | 1,740.1 | 1,547.3 | -11.1 |
| Others | 2,495.5 | 2,576.2 | 2,674.7 | 2,776.9 | 2,746.4 | -1.1 |
| Middle East | 6,394.5 | 6,387.5 | 6,334.2 | 6,643.1 | 6,522.8 | -1.8 |
| IR Iran | 1,439.8 | 1,447.9 | 1,498.0 | 1,587.0 | 1,726.1 | 8.8 |
| Iraq | 477.4 | 484.2 | 480.8 | 453.2 | 456.6 | 0.7 |
| Kuwait | 910.8 | 886.7 | 877.4 | 1,003.2 | 892.7 | -11.0 |
| Qatar | 119.1 | 131.8 | 131.8 | 126.2 | 126.3 | 0.1 |
| Saudi Arabia | 1,974.4 | 1,960.1 | 1,873.6 | 1,970.9 | 1,911.0 | -3.0 |
| United Arab Emirates | 441.6 | 423.8 | 393.0 | 395.9 | 400.4 | 1.1 |
| Others | 1,031.4 | 1,053.0 | 1,079.5 | 1,106.7 | 1,009.7 | -8.8 |
| Africa | 2,931.1 | 2,887.6 | 3,067.2 | 2,965.2 | 2,544.2 | -14.2 |
| Algeria | 451.9 | 451.2 | 501.8 | 516.5 | 411.6 | -20.3 |
| Angola | 41.9 | 49.8 | 60.6 | 47.8 | 46.2 | -3.3 |
| Egypt | 562.4 | 500.4 | 553.9 | 558.8 | 479.8 | -14.1 |
| Gabon | 17.3 | 17.5 | 17.8 | 18.1 | 13.4 | -25.9 |
| SP Libyan AJ | 459.8 | 468.3 | 497.0 | 362.7 | 350.0 | -3.5 |
| Nigeria | 388.0 | 369.4 | 378.7 | 372.2 | 249.4 | -33.0 |
| Others | 1,009.8 | 1,031.0 | 1,057.3 | 1,089.2 | 993.8 | -8.8 |
| Asia and Pacific | 20,765.0 | 21,505.6 | 22,477.4 | 22,883.6 | 22,934.0 | 0.2 |
| Australia | 679.1 | 631.7 | 686.6 | 667.2 | 657.8 | -1.4 |
| China | 5,684.8 | 6,137.3 | 6,627.8 | 6,962.8 | 7,542.3 | 8.3 |
| India | 2,491.5 | 2,784.6 | 3,026.7 | 3,171.2 | 3,161.2 | -0.3 |
| Indonesia | 1,054.1 | 1,053.5 | 1,213.2 | 1,184.1 | 1,184.1 | - |
| Japan | 4,503.7 | 4,397.6 | 4,338.2 | 4,262.0 | 3,956.8 | -7.2 |
| Philippines | 217.1 | 205.3 | 205.3 | 184.1 | 146.7 | -20.3 |
| Singapore | 995.4 | 1,025.8 | 1,062.7 | 1,106.8 | 1,054.8 | -4.7 |
| South Korea | 2,556.5 | 2,613.7 | 2,600.5 | 2,567.8 | 2,498.8 | -2.7 |
| New Zealand | 109.3 | 106.8 | 102.5 | 107.2 | 105.0 | -2.0 |
| Taiwan | 970.9 | 1,001.6 | 1,011.2 | 1,002.3 | 1,035.2 | 3.3 |
| Others | 1,502.6 | 1,548.0 | 1,602.8 | 1,668.1 | 1,591.4 | -4.6 |
| Total world | 79,191.1 | 80,087.5 | 81,368.9 | 83,041.0 | 81,426.7 | -1.9 |
| <i>of which</i> | | | | | | |
| OPEC | 8,035.1 | 7,885.8 | 7,919.2 | 8,172.6 | 7,992.1 | -2.2 |
| <i>OPEC percentage</i> | <i>10.1</i> | <i>9.8</i> | <i>9.7</i> | <i>9.8</i> | <i>9.8</i> | - |
| OECD | 44,758.8 | 44,677.1 | 44,459.3 | 43,960.3 | 42,519.1 | -3.3 |
| FSU | 6,228.3 | 6,461.4 | 6,655.2 | 6,983.0 | 7,018.8 | 0.5 |

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

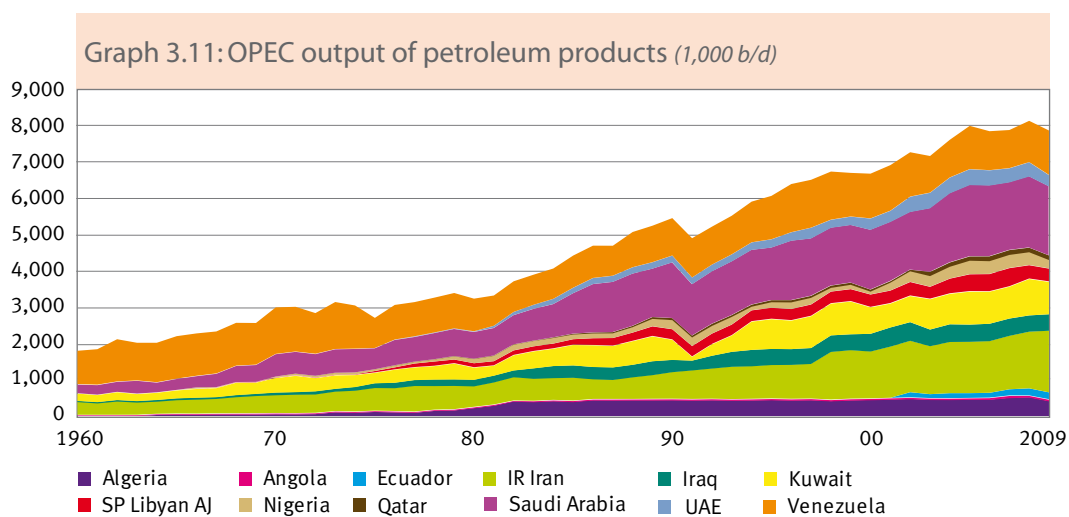
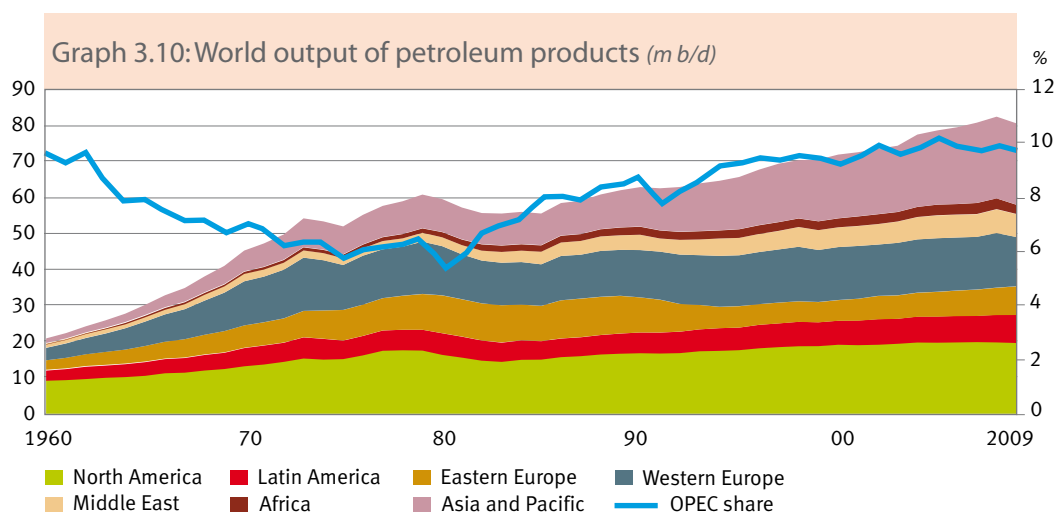
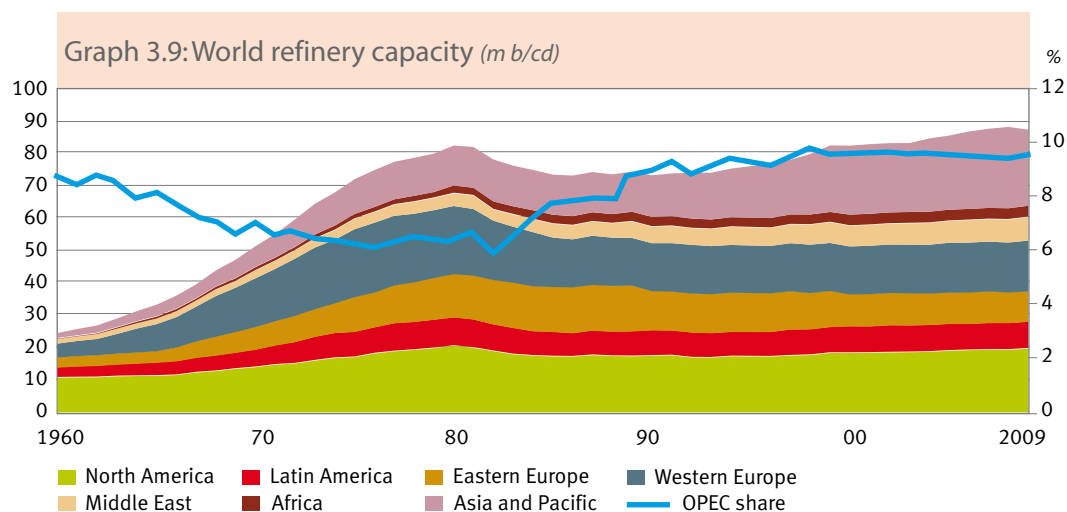


Table 3.15

Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|---------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| Algeria | 245.9 | 255.2 | 277.6 | 299.6 | 309.8 | 3.4 |
| Gasoline | 47.2 | 49.3 | 48.3 | 52.4 | 54.7 | 4.3 |
| Kerosene | 8.2 | 8.0 | 8.1 | 8.9 | 9.6 | 7.9 |
| Distillates | 120.6 | 124.4 | 144.4 | 158.9 | 163.2 | 2.7 |
| Residuals | 0.2 | 0.5 | 0.5 | 0.4 | 0.5 | 1.7 |
| Others | 69.6 | 73.0 | 76.3 | 79.0 | 81.9 | 3.7 |
| Angola | 52.5 | 57.4 | 59.1 | 62.3 | 62.2 | -0.3 |
| Gasoline | 8.7 | 9.5 | 9.8 | 10.4 | 10.5 | 0.6 |
| Kerosene | 11.3 | 11.9 | 12.4 | 13.1 | 13.2 | 0.5 |
| Distillates | 23.5 | 27.3 | 28.0 | 29.7 | 29.8 | 0.2 |
| Residuals | 3.0 | 3.5 | 3.7 | 3.8 | 3.5 | -8.2 |
| Others | 6.0 | 5.2 | 5.3 | 5.3 | 5.3 | -0.7 |
| Ecuador | 153.4 | 164.2 | 174.5 | 181.3 | 205.4 | 13.3 |
| Gasoline | 31.1 | 32.1 | 34.2 | 36.7 | 39.3 | 7.3 |
| Kerosene | 7.3 | 7.5 | 7.8 | 7.3 | 7.5 | 2.1 |
| Distillates | 54.0 | 58.3 | 60.7 | 64.5 | 74.3 | 15.2 |
| Residuals | 24.1 | 25.6 | 26.2 | 24.5 | 32.6 | 33.0 |
| Others | 36.8 | 40.8 | 45.6 | 48.4 | 51.8 | 7.0 |
| IR Iran | 1,479.2 | 1,598.6 | 1,680.1 | 1,776.1 | 1,795.2 | 1.1 |
| Gasoline | 371.0 | 383.1 | 389.4 | 414.4 | 423.1 | 2.1 |
| Kerosene | 143.4 | 142.5 | 148.0 | 159.3 | 159.0 | -0.2 |
| Distillates | 483.8 | 513.3 | 534.0 | 551.7 | 560.0 | 1.5 |
| Residuals | 233.1 | 296.3 | 337.0 | 368.7 | 370.3 | 0.4 |
| Others | 247.8 | 263.4 | 271.7 | 282.0 | 282.8 | 0.3 |
| Iraq | 536.9 | 563.7 | 567.5 | 589.3 | 603.3 | 2.4 |
| Gasoline | 82.6 | 87.8 | 92.1 | 94.8 | 99.3 | 4.8 |
| Kerosene | 53.4 | 58.1 | 46.4 | 48.5 | 51.5 | 6.4 |
| Distillates | 179.1 | 187.0 | 191.6 | 198.5 | 200.8 | 1.2 |
| Residuals | 170.3 | 177.0 | 181.9 | 191.4 | 194.4 | 1.6 |
| Others | 51.6 | 53.8 | 55.6 | 56.2 | 57.2 | 1.8 |
| Kuwait | 248.7 | 241.3 | 251.8 | 263.8 | 273.8 | 3.8 |
| Gasoline | 49.1 | 51.8 | 53.5 | 55.2 | 56.9 | 3.1 |
| Kerosene | 13.1 | 12.7 | 13.9 | 15.7 | 17.4 | 10.6 |
| Distillates | 21.7 | 31.6 | 39.3 | 42.2 | 55.3 | 31.0 |
| Residuals | 158.6 | 139.2 | 138.3 | 143.7 | 137.0 | -4.7 |
| Others | 6.2 | 6.2 | 6.9 | 7.1 | 7.4 | 4.2 |
| SP Libyan AJ | 229.5 | 228.7 | 231.9 | 251.5 | 271.2 | 7.8 |
| Gasoline | 54.1 | 56.7 | 60.1 | 64.7 | 66.8 | 3.2 |
| Kerosene | 13.9 | 13.6 | 13.2 | 11.6 | 12.3 | 5.6 |
| Distillates | 78.2 | 77.0 | 78.9 | 88.8 | 104.9 | 18.1 |
| Residuals | 46.6 | 44.8 | 39.7 | 42.1 | 49.7 | 18.0 |
| Others | 36.7 | 36.7 | 40.1 | 44.2 | 37.5 | -15.1 |

Table 3.15
Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| Nigeria | 257.5 | 232.3 | 211.9 | 235.3 | 225.3 | -4.3 |
| Gasoline | 164.3 | 156.2 | 142.4 | 163.0 | 168.2 | 3.2 |
| Kerosene | 37.4 | 36.2 | 35.4 | 34.8 | 25.3 | -27.4 |
| Distillates | 40.6 | 30.6 | 24.5 | 26.0 | 24.1 | -7.6 |
| Residuals | 10.1 | 4.2 | 5.0 | 6.9 | 3.1 | -54.5 |
| Others | 5.1 | 5.1 | 4.5 | 4.6 | 4.6 | 0.7 |
| Qatar | 60.1 | 82.2 | 93.2 | 101.3 | 105.7 | 4.4 |
| Gasoline | 16.7 | 19.1 | 20.6 | 22.3 | 24.7 | 10.4 |
| Kerosene | 10.7 | 16.8 | 17.0 | 18.4 | 19.7 | 6.9 |
| Distillates | 15.3 | 23.9 | 32.2 | 36.3 | 36.3 | 0.2 |
| Residuals | – | – | – | – | – | – |
| Others | 17.4 | 22.5 | 23.5 | 24.3 | 25.1 | 3.0 |
| Saudi Arabia | 1,175.2 | 1,258.3 | 1,345.3 | 1,440.3 | 1,405.3 | -2.4 |
| Gasoline | 298.1 | 315.9 | 347.2 | 373.5 | 397.6 | 6.5 |
| Kerosene | 56.2 | 55.9 | 57.8 | 61.8 | 60.9 | -1.5 |
| Distillates | 462.0 | 503.9 | 532.3 | 577.8 | 605.0 | 4.7 |
| Residuals | 262.0 | 278.1 | 299.3 | 311.4 | 228.1 | -26.7 |
| Others | 97.0 | 104.5 | 108.7 | 115.8 | 113.7 | -1.9 |
| United Arab Emirates | 204.3 | 213.9 | 224.1 | 233.3 | 235.1 | 0.8 |
| Gasoline | 75.3 | 79.0 | 83.5 | 86.9 | 91.3 | 5.0 |
| Kerosene | 3.6 | 4.0 | 4.2 | 4.5 | 4.4 | -1.4 |
| Distillates | 87.0 | 91.4 | 95.9 | 98.8 | 96.1 | -2.8 |
| Residuals | 20.5 | 20.6 | 21.1 | 22.0 | 22.1 | 0.3 |
| Others | 18.0 | 18.9 | 19.4 | 21.0 | 21.2 | 1.1 |
| Venezuela | 520.6 | 569.6 | 604.2 | 637.9 | 667.9 | 4.7 |
| Gasoline | 240.1 | 256.9 | 274.0 | 286.9 | 289.9 | 1.1 |
| Kerosene | 5.6 | 5.2 | 5.6 | 5.4 | 5.7 | 6.7 |
| Distillates | 120.9 | 132.3 | 136.6 | 148.5 | 152.2 | 2.5 |
| Residuals | 39.6 | 44.5 | 41.2 | 34.1 | 54.0 | 58.4 |
| Others | 114.4 | 130.6 | 146.9 | 163.1 | 166.1 | 1.8 |
| OPEC | 5,163.7 | 5,465.4 | 5,721.3 | 6,072.2 | 6,160.2 | 1.5 |
| Gasoline | 1,438.3 | 1,497.4 | 1,555.1 | 1,661.2 | 1,722.2 | 3.7 |
| Kerosene | 363.9 | 372.1 | 369.6 | 389.3 | 386.4 | -0.7 |
| Distillates | 1,686.9 | 1,801.0 | 1,898.3 | 2,021.7 | 2,101.9 | 4.0 |
| Residuals | 968.0 | 1,034.3 | 1,093.8 | 1,149.0 | 1,095.2 | -4.7 |
| Others | 706.6 | 760.6 | 804.5 | 850.9 | 854.5 | 0.4 |

Notes: Revisions have been made throughout the time series.

Table 3.16

Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| North America | 22,347.6 | 22,153.0 | 22,180.2 | 20,953.8 | 20,168.6 | -3.7 |
| Canada | 2,247.4 | 2,162.0 | 2,212.9 | 2,163.0 | 2,069.9 | -4.3 |
| United States | 20,097.5 | 19,988.3 | 19,964.6 | 18,788.2 | 18,096.1 | -3.7 |
| Others | 2.7 | 2.7 | 2.7 | 2.6 | 2.6 | -1.9 |
| Latin America | 6,710.6 | 6,873.8 | 7,209.3 | 7,426.9 | 7,446.2 | 0.3 |
| Argentina | 461.9 | 501.3 | 550.1 | 562.9 | 565.9 | 0.5 |
| Brazil | 2,120.0 | 2,167.4 | 2,254.5 | 2,379.2 | 2,417.7 | 1.6 |
| Colombia | 226.0 | 236.4 | 247.2 | 250.3 | 251.2 | 0.3 |
| Ecuador | 153.4 | 164.2 | 174.5 | 181.3 | 205.4 | 13.3 |
| Mexico | 1,991.3 | 2,000.9 | 2,059.6 | 2,049.0 | 2,000.9 | -2.3 |
| Venezuela | 520.6 | 569.6 | 604.2 | 637.9 | 667.9 | 4.7 |
| Others | 1,237.4 | 1,234.0 | 1,319.2 | 1,366.3 | 1,337.2 | -2.1 |
| Eastern Europe | 4,872.8 | 5,066.9 | 5,155.7 | 5,240.1 | 5,106.0 | -2.6 |
| Czech Republic | 208.6 | 207.6 | 206.6 | 208.6 | 203.7 | -2.3 |
| Hungary | 153.9 | 161.9 | 159.9 | 160.9 | 156.9 | -2.5 |
| Kazakhstan | 207.1 | 227.4 | 243.8 | 229.5 | 225.6 | -1.7 |
| Poland | 462.4 | 491.8 | 510.4 | 533.9 | 533.9 | - |
| Romania | 217.4 | 213.9 | 223.2 | 205.1 | 176.9 | -13.7 |
| Russia | 2,551.4 | 2,658.0 | 2,653.9 | 2,743.6 | 2,694.9 | -1.8 |
| Slovakia | 58.2 | 58.9 | 61.9 | 63.4 | 59.7 | -5.9 |
| Ukraine | 294.1 | 317.7 | 324.7 | 326.3 | 322.6 | -1.1 |
| Others | 719.7 | 729.6 | 771.3 | 768.8 | 731.7 | -4.8 |
| Western Europe | 14,789.5 | 14,757.4 | 14,371.3 | 14,315.3 | 13,581.8 | -5.1 |
| France | 1,879.0 | 1,873.3 | 1,857.3 | 1,874.3 | 1,769.5 | -5.6 |
| Germany | 2,623.4 | 2,668.0 | 2,448.9 | 2,546.1 | 2,415.2 | -5.1 |
| Italy | 1,715.5 | 1,703.8 | 1,650.0 | 1,602.1 | 1,517.1 | -5.3 |
| Netherlands | 693.4 | 678.5 | 671.0 | 654.0 | 626.9 | -4.2 |
| Spain | 1,423.1 | 1,406.3 | 1,426.7 | 1,383.3 | 1,312.4 | -5.1 |
| United Kingdom | 1,631.8 | 1,614.8 | 1,555.7 | 1,530.6 | 1,493.9 | -2.4 |
| Others | 4,823.3 | 4,812.8 | 4,761.7 | 4,724.9 | 4,446.7 | -5.9 |
| Middle East | 4,609.0 | 4,867.4 | 5,112.6 | 5,400.7 | 5,446.4 | 0.8 |
| IR Iran | 1,479.2 | 1,598.6 | 1,680.1 | 1,776.1 | 1,795.2 | 1.1 |
| Iraq | 536.9 | 563.7 | 567.5 | 589.3 | 603.3 | 2.4 |
| Kuwait | 248.7 | 241.3 | 251.8 | 263.8 | 273.8 | 3.8 |
| Qatar | 60.1 | 82.2 | 93.2 | 101.3 | 105.7 | 4.4 |
| Saudi Arabia | 1,175.2 | 1,258.3 | 1,345.3 | 1,440.3 | 1,405.3 | -2.4 |
| Syrian Arab Republic | 247.2 | 263.1 | 280.2 | 292.1 | 300.5 | 2.9 |
| United Arab Emirates | 204.3 | 213.9 | 224.1 | 233.3 | 235.1 | 0.8 |
| Others | 657.4 | 646.3 | 670.3 | 704.4 | 727.4 | 3.3 |
| Africa | 2,217.8 | 2,261.2 | 2,332.9 | 2,469.7 | 2,519.5 | 2.0 |
| Algeria | 245.9 | 255.2 | 277.6 | 299.6 | 309.8 | 3.4 |
| Angola | 52.5 | 57.4 | 59.1 | 62.3 | 62.2 | -0.3 |
| Egypt | 599.6 | 617.9 | 634.7 | 663.2 | 675.8 | 1.9 |
| SP Libyan AJ | 229.5 | 228.7 | 231.9 | 251.5 | 271.2 | 7.8 |
| Nigeria | 257.5 | 232.3 | 211.9 | 235.3 | 225.3 | -4.3 |
| Tunisia | 84.2 | 82.2 | 83.5 | 84.7 | 85.5 | 0.9 |
| Others | 748.8 | 787.5 | 834.1 | 873.0 | 889.8 | 1.9 |
| Asia and Pacific | 22,428.4 | 22,879.9 | 23,465.0 | 23,646.7 | 23,705.9 | 0.3 |
| Australia | 864.7 | 867.5 | 880.6 | 895.7 | 888.1 | -0.8 |
| China | 6,341.7 | 6,815.9 | 7,170.6 | 7,579.4 | 7,803.3 | 3.0 |
| India | 2,536.4 | 2,712.6 | 2,899.4 | 2,983.7 | 3,139.1 | 5.2 |
| Indonesia | 1,200.0 | 1,151.3 | 1,149.7 | 1,172.6 | 1,187.3 | 1.3 |
| Japan | 5,242.0 | 5,113.1 | 4,954.7 | 4,707.8 | 4,291.6 | -8.8 |
| New Zealand | 136.8 | 138.6 | 139.4 | 135.9 | 135.9 | - |
| South Korea | 2,182.9 | 2,171.9 | 2,232.7 | 2,167.0 | 2,207.8 | 1.9 |
| Thailand | 761.9 | 763.9 | 769.5 | 719.9 | 736.1 | 2.2 |
| Others | 3,161.9 | 3,145.1 | 3,268.2 | 3,284.7 | 3,316.6 | 1.0 |
| Total world | 77,975.7 | 78,859.5 | 79,826.9 | 79,453.2 | 77,974.2 | -1.9 |
| <i>of which</i> | | | | | | |
| OPEC | 5,163.7 | 5,465.4 | 5,721.3 | 6,072.2 | 6,160.2 | 1.5 |
| OPEC percentage | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 3.4 |
| OECD | 47,028.7 | 46,733.1 | 46,412.4 | 44,874.6 | 42,903.0 | -4.4 |
| FSU | 3,643.7 | 3,802.1 | 3,864.8 | 3,949.5 | 3,855.1 | -2.4 |

Notes: Revisions have been made throughout the time series.

OPEC Members' crude oil exports by destination (1,000 b/d), 2009

| | Total world ¹ | Europe | North America | Asia and Pacific | Latin America | Africa | Middle East |
|----------------------|--------------------------|--------------|---------------|------------------|---------------|------------|-------------|
| Middle East | | | | | | | |
| IR Iran | 2,232 | 568 | – | 1,538 | – | 127 | – |
| Iraq | 1,906 | 517 | 479 | 830 | 70 | – | 10 |
| Kuwait | 1,348 | 51 | 95 | 1,162 | – | 40 | – |
| Qatar | 647 | – | 11 | 647 | – | – | – |
| Saudi Arabia | 6,268 | 626 | 1,058 | 4,070 | 63 | 165 | 286 |
| United Arab Emirates | 1,953 | 3 | 37 | 1,868 | – | 45 | 1 |
| North Africa | | | | | | | |
| Algeria | 747 | 203 | 393 | 125 | 27 | – | – |
| SP Libyan AJ | 1,170 | 875 | 59 | 168 | 40 | 29 | – |
| Africa | | | | | | | |
| Nigeria | 2,160 | 652 | 1,423 | 85 | – | – | – |
| Angola | 1,770 | 300 | 933 | 537 | – | – | – |
| Latin America | | | | | | | |
| Ecuador | 329 | – | 167 | 2 | 160 | – | – |
| Venezuela | 1,608 | 123 | 625 | 115 | 745 | – | – |
| OPEC | 22,139 | 3,917 | 5,279 | 11,146 | 1,105 | 406 | 296 |

Notes:

1. Includes 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, 2009 (1,000 b/d)

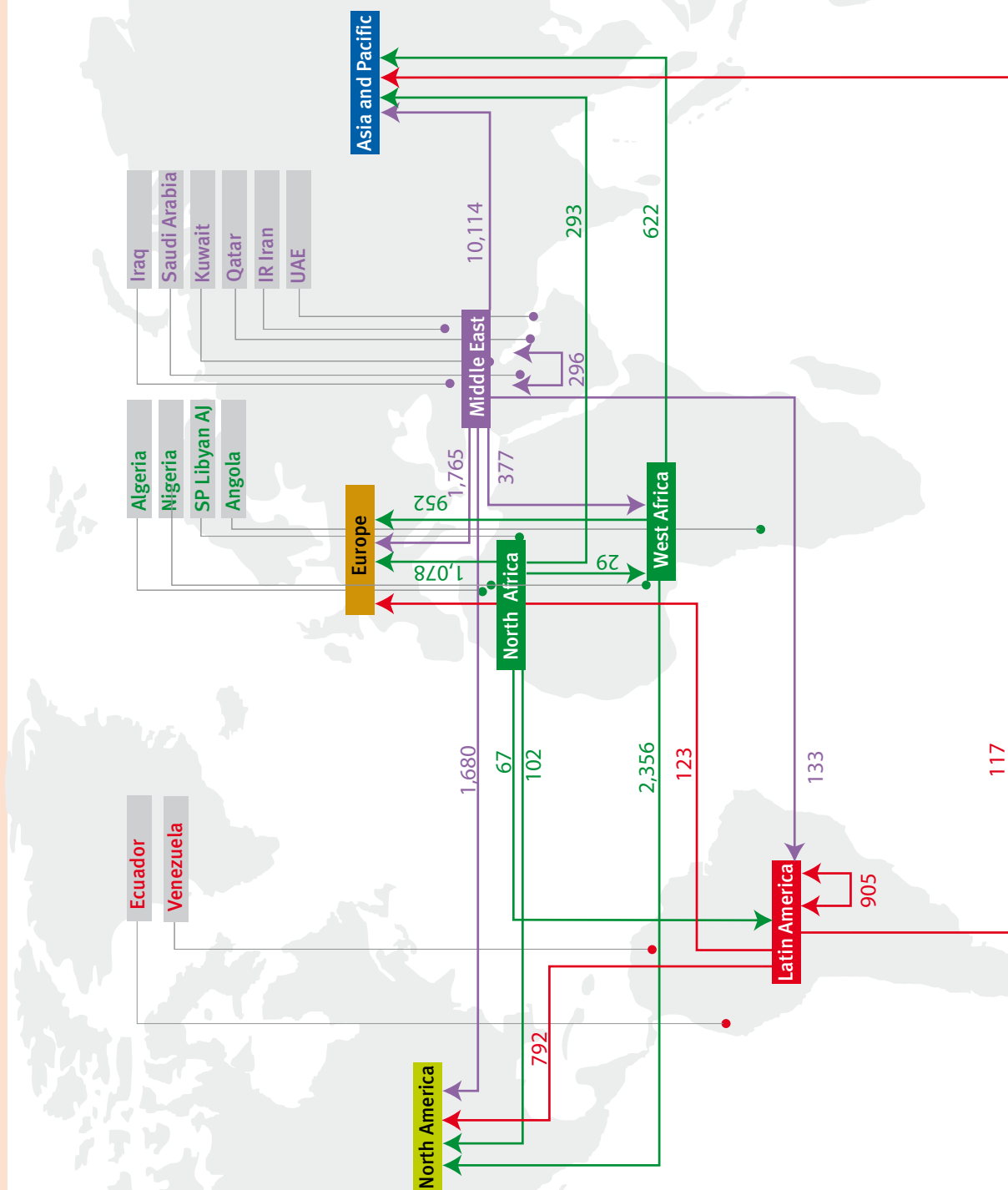


Table 3.18

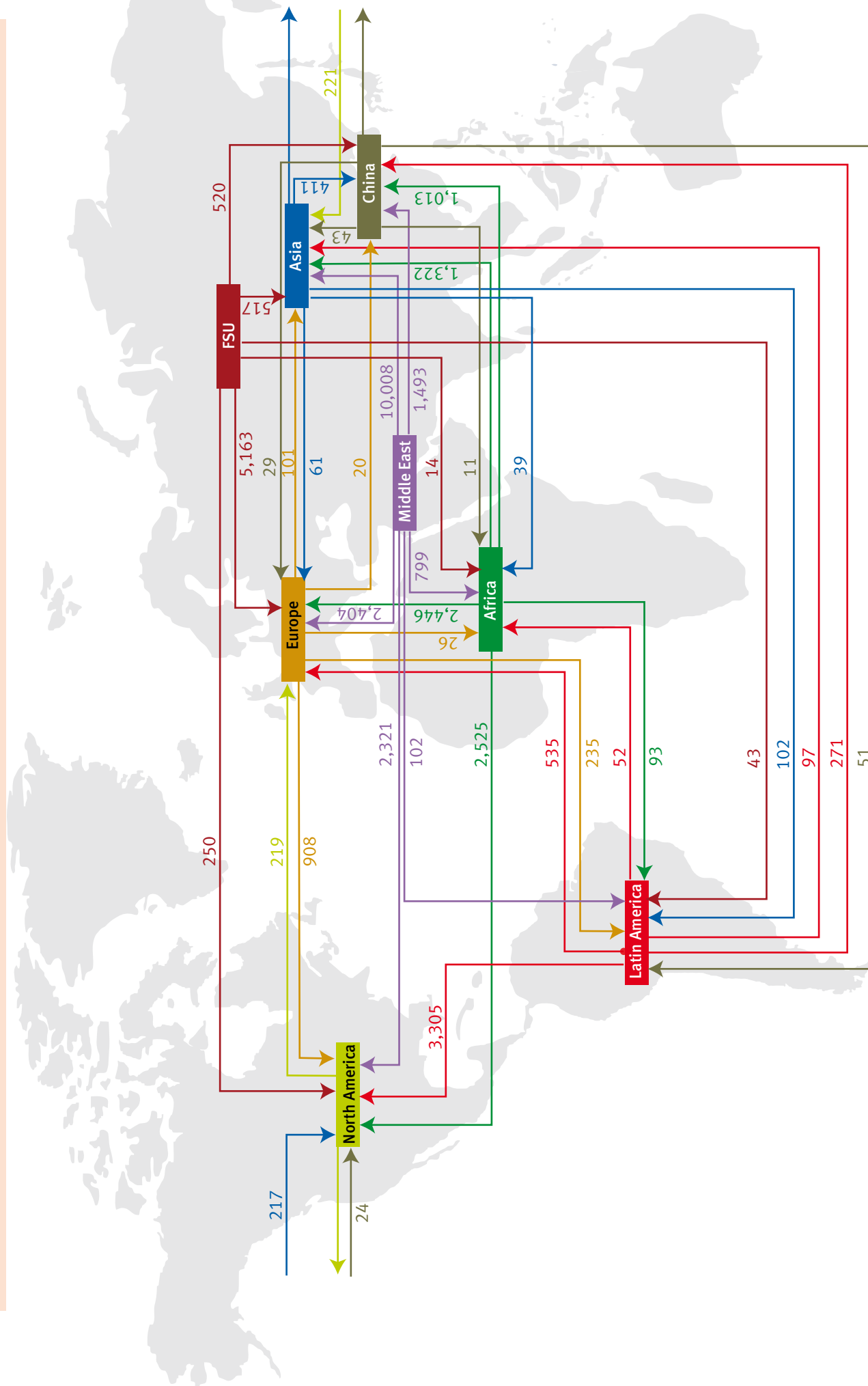
Oil and gas data

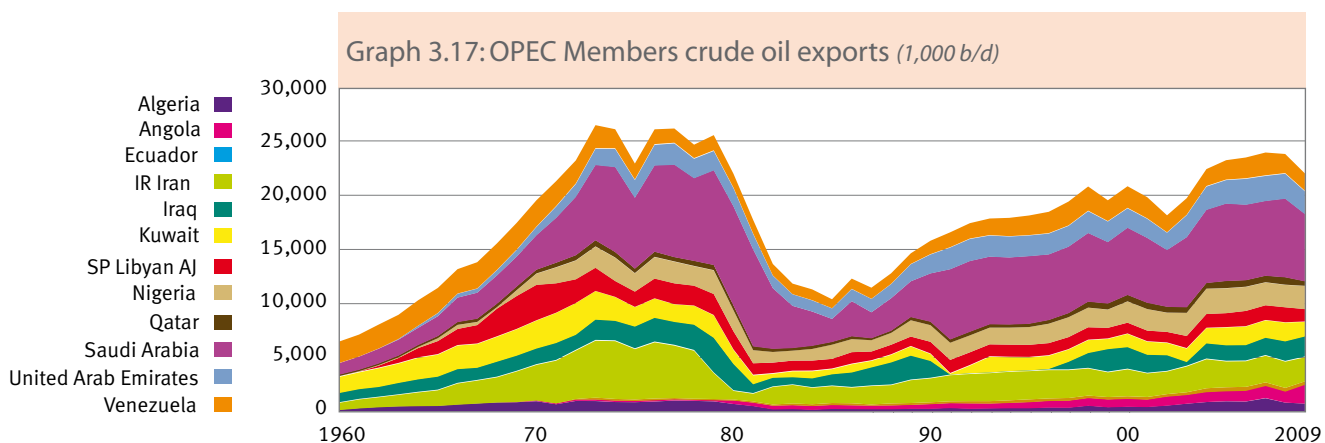
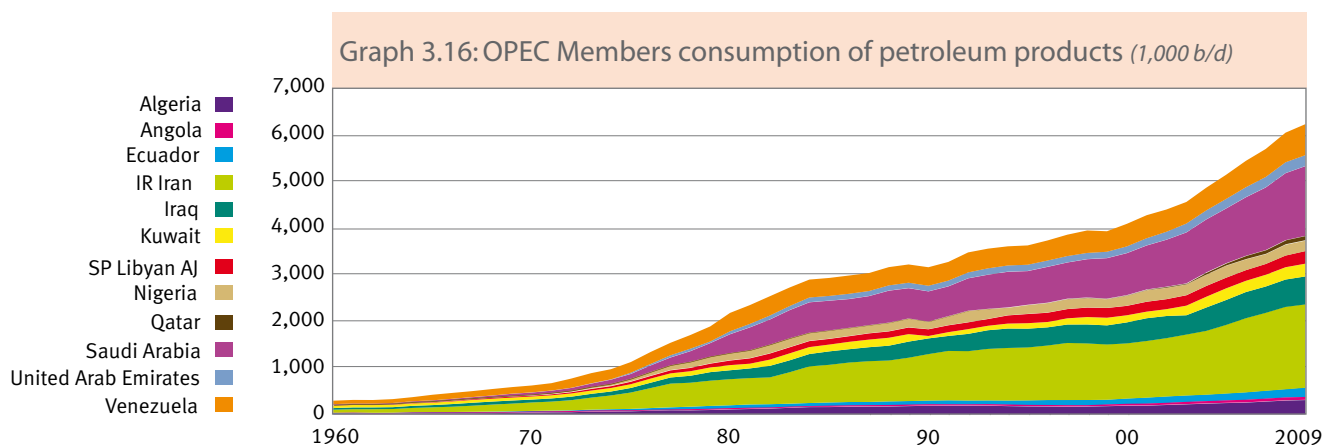
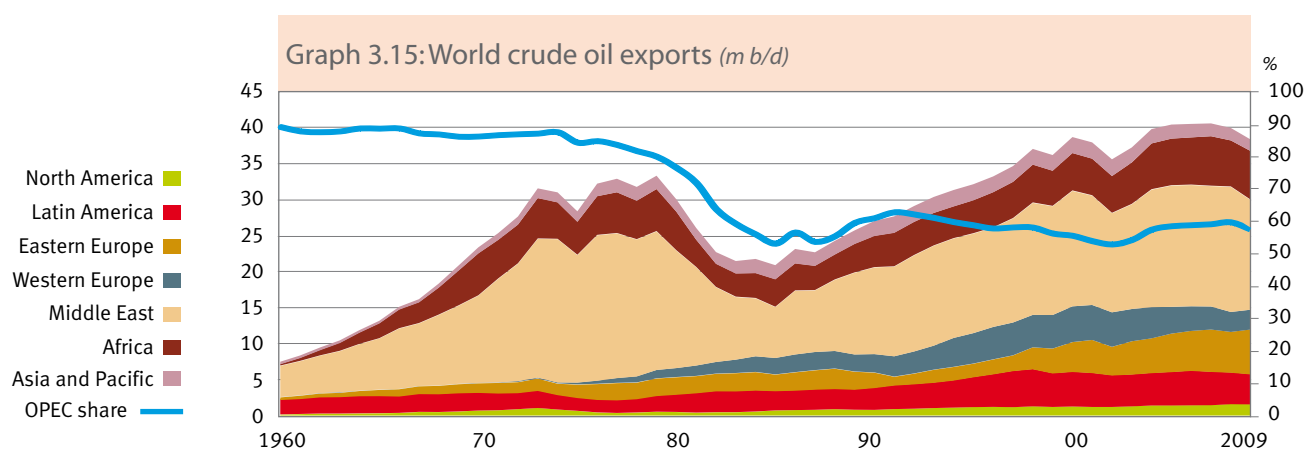
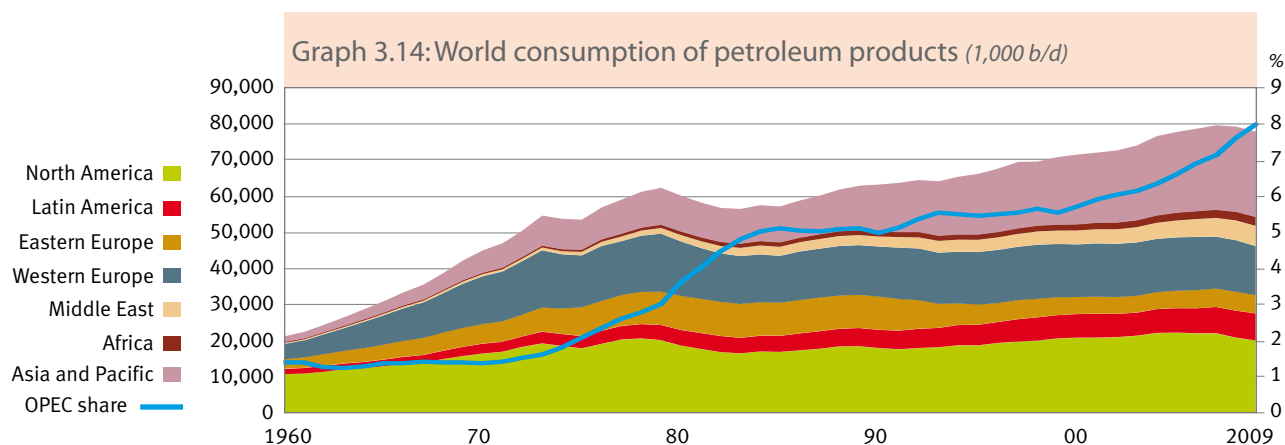
World crude oil exports by country (1,000 b/d)

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| North America | 1,378.2 | 1,393.4 | 1,422.1 | 1,564.1 | 1,534.9 | -1.9 |
| Canada | 1,357.9 | 1,372.8 | 1,401.2 | 1,525.4 | 1,491.3 | -2.2 |
| United States | 20.3 | 20.6 | 20.9 | 38.7 | 43.7 | 12.9 |
| Latin America | 4,739.1 | 4,900.2 | 4,727.2 | 4,478.8 | 4,271.3 | -4.6 |
| Columbia | 231.2 | 233.8 | 243.6 | 346.1 | 358.4 | 3.6 |
| Ecuador | 380.0 | 376.3 | 341.7 | 348.4 | 329.0 | -5.6 |
| Mexico | 2,021.4 | 2,047.7 | 1,738.4 | 1,445.8 | 1,311.7 | -9.3 |
| Trinidad & Tobago | 69.7 | 71.0 | 26.0 | 10.3 | 9.2 | -10.6 |
| Venezuela | 1,787.8 | 1,919.4 | 2,115.6 | 1,769.6 | 1,608.3 | -9.1 |
| Others | 249.1 | 252.1 | 261.9 | 558.6 | 654.7 | 17.2 |
| Eastern Europe | 5,344.4 | 5,542.7 | 5,878.7 | 5,658.2 | 6,230.1 | 10.1 |
| Russia | 4,835.1 | 4,923.9 | 5,264.3 | 5,046.3 | 5,607.8 | 11.1 |
| Others | 9.3 | 18.8 | 14.5 | 12.0 | 22.2 | 85.7 |
| Western Europe | 3,740.1 | 3,443.2 | 3,222.2 | 2,785.6 | 2,774.5 | -0.4 |
| Norway | 2,377.1 | 2,209.8 | 2,011.6 | 1,702.3 | 1,773.3 | 4.2 |
| United Kingdom | 1,009.4 | 927.9 | 933.2 | 839.8 | 775.5 | -7.7 |
| Others | 353.6 | 305.5 | 277.5 | 243.5 | 225.8 | -7.3 |
| Middle East | 16,896.9 | 16,893.7 | 16,776.1 | 17,439.3 | 15,324.4 | -12.1 |
| IR Iran | 2,394.5 | 2,377.2 | 2,466.8 | 2,438.1 | 2,232.0 | -8.5 |
| Iraq | 1,472.2 | 1,467.8 | 1,643.0 | 1,855.2 | 1,905.6 | 2.7 |
| Kuwait | 1,650.8 | 1,723.4 | 1,612.9 | 1,738.5 | 1,348.3 | -22.4 |
| Oman | 760.8 | 769.2 | 683.0 | 592.7 | 573.7 | -3.2 |
| Qatar | 677.3 | 620.3 | 615.1 | 703.1 | 646.7 | -8.0 |
| Saudi Arabia | 7,208.9 | 7,029.4 | 6,962.1 | 7,321.7 | 6,267.6 | -14.4 |
| Syrian Arab Republic | 247.8 | 247.8 | 250.2 | 252.7 | 250.2 | -1.0 |
| United Arab Emirates | 2,195.0 | 2,420.3 | 2,342.7 | 2,334.4 | 1,953.4 | -16.3 |
| Others | 289.6 | 238.3 | 200.2 | 202.9 | 147.0 | -27.5 |
| Africa | 6,481.5 | 6,582.9 | 6,883.2 | 6,396.9 | 6,771.2 | 5.9 |
| Algeria | 970.3 | 947.2 | 1,253.5 | 840.9 | 747.5 | -11.1 |
| Angola | 946.9 | 1,010.3 | 1,157.6 | 1,044.5 | 1,769.6 | 69.4 |
| Cameroon | 95.3 | 97.4 | 98.9 | 99.3 | 89.4 | -10.0 |
| Congo | 236.6 | 237.5 | 239.3 | 240.2 | 216.2 | -10.0 |
| Egypt | 45.0 | 57.2 | 44.0 | 98.0 | 102.3 | 4.4 |
| Gabon | 202.0 | 203.8 | 207.1 | 208.7 | 187.8 | -10.0 |
| SP Libyan AJ | 1,306.3 | 1,425.6 | 1,377.8 | 1,403.4 | 1,170.4 | -16.6 |
| Nigeria | 2,326.0 | 2,248.4 | 2,144.1 | 2,098.1 | 2,160.4 | 3.0 |
| Others | 353.3 | 355.6 | 360.8 | 363.9 | 327.5 | -10.0 |
| Asia and Pacific | 1,961.1 | 1,876.6 | 1,790.9 | 1,743.4 | 1,612.8 | -7.5 |
| Australia | 230.0 | 234.6 | 239.3 | 239.3 | 248.1 | 3.7 |
| Brunei | 198.9 | 200.7 | 182.3 | 163.9 | 151.8 | -7.3 |
| China | 161.2 | 125.8 | 76.1 | 107.1 | 104.2 | -2.7 |
| Indonesia | 374.4 | 301.3 | 319.3 | 294.1 | 250.4 | -14.9 |
| Malaysia | 382.6 | 390.7 | 400.6 | 402.3 | 371.8 | -7.6 |
| Vietnam | 362.8 | 365.0 | 275.6 | 206.4 | 202.1 | -2.1 |
| Others | 251.2 | 258.7 | 297.8 | 330.3 | 284.4 | -13.9 |
| Total world | 40,541.3 | 40,632.7 | 40,700.4 | 40,066.3 | 38,519.1 | -3.9 |
| <i>of which</i> | | | | | | |
| OPEC | 23,315.9 | 23,565.6 | 24,033.0 | 23,895.8 | 22,138.7 | -7.4 |
| <i>OPEC percentage</i> | <i>57.5</i> | <i>58.0</i> | <i>59.0</i> | <i>59.6</i> | <i>57.5</i> | - |
| OECD | 5,883.0 | 5,578.3 | 5,372.0 | 5,047.9 | 5,013.3 | -2.7 |
| FSU | 5,118.6 | 5,341.7 | 5,622.1 | 5,471.0 | 6,011.1 | 5.4 |

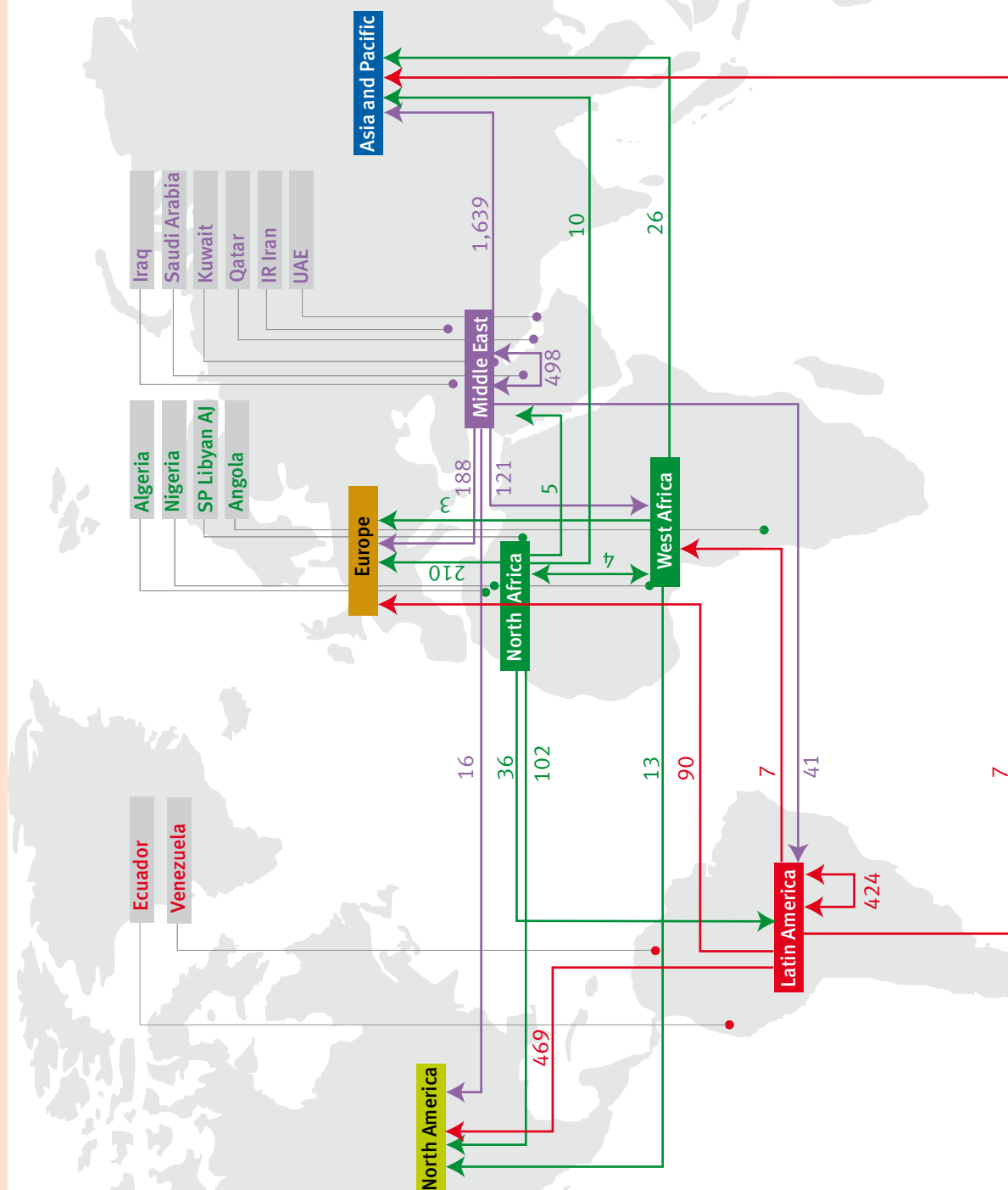
Notes: Revisions have been made throughout the time series. Data includes re-exports. Nigerian exports include condensates. Includes changes in the quantity of oil in transit, movements not otherwise shown, unspecified use, etc.

Graph 3.13: World crude oil exports by destination, 2009 (1,000 b/d)





Graph 3.18: OPEC Members petroleum products by destination, 2009 (1,000 b/d)



OPEC Members' petroleum products exports by destination, 2009 (1,000 b/d)

| | Total world ¹ | Europe | North America | Asia and Pacific | Latin America | Africa | Middle East |
|----------------------|--------------------------|------------|---------------|------------------|---------------|------------|-------------|
| Middle East | | | | | | | |
| IR Iran | 300.8 | 37 | – | 264 | – | – | – |
| Iraq | 26.2 | – | – | – | – | – | 26 |
| Kuwait | 673.5 | 52 | 1 | 620 | – | – | – |
| Qatar | 120.5 | 10 | 1 | 109 | – | – | – |
| Saudi Arabia | 1,008.4 | 86 | 13 | 583 | 21 | 110 | 197 |
| United Arab Emirates | 374.1 | 2 | 1 | 64 | 20 | 12 | 275 |
| North Africa | | | | | | | |
| Algeria | 232.5 | 94 | 95 | 10 | 32 | – | 2 |
| SP Libyan AJ | 136.1 | 117 | 7 | 1 | 3 | 4 | 4 |
| West Africa | | | | | | | |
| Angola | 40.8 | 1 | 3 | 26 | – | 11 | – |
| Nigeria | 12.1 | 2 | 10 | – | – | – | – |
| Latin America | | | | | | | |
| Ecuador | 33.5 | – | 4 | – | 29 | – | – |
| Venezuela | 963.6 | 90 | 465 | 7 | 395 | 7 | – |
| OPEC | 3,922.1 | 491 | 601 | 1,683 | 501 | 144 | 503 |

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)

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| North America | 1,474.9 | 1,633.3 | 1,673.0 | 2,086.3 | 2,220.8 | 6.4 |
| Canada | 442.0 | 463.3 | 443.1 | 444.8 | 431.1 | -3.1 |
| United States | 1,032.8 | 1,169.8 | 1,229.8 | 1,641.4 | 1,789.6 | 9.0 |
| Others | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | - |
| Latin America | 2,160.0 | 2,229.8 | 2,299.4 | 2,510.3 | 2,432.8 | -3.1 |
| Brazil | 186.7 | 179.8 | 192.8 | 162.8 | 154.8 | -4.9 |
| Ecuador | 19.7 | 34.5 | 40.0 | 42.2 | 33.5 | -20.6 |
| Mexico | 177.7 | 228.0 | 221.4 | 243.5 | 218.8 | -10.1 |
| Netherland Antilles | 219.6 | 224.2 | 229.6 | 231.5 | 201.5 | -13.0 |
| Trinidad & Tobago | 130.2 | 133.0 | 104.4 | 94.2 | 78.2 | -17.0 |
| Venezuela | 609.3 | 598.5 | 638.8 | 912.3 | 963.6 | 5.6 |
| Virgin Islands | 402.7 | 410.3 | 419.0 | 421.3 | 394.3 | -6.4 |
| Others | 414.2 | 421.5 | 453.4 | 402.6 | 388.1 | -3.6 |
| Eastern Europe | 2,076.1 | 2,113.5 | 2,015.4 | 1,450.0 | 1,613.3 | 11.3 |
| Romania | 67.7 | 68.6 | 95.3 | 101.4 | 196.0 | 93.3 |
| Russia | 1,836.0 | 1,864.0 | 1,729.5 | 1,126.9 | 1,220.9 | 8.3 |
| Others | 172.4 | 180.9 | 190.6 | 221.7 | 196.3 | -11.4 |
| Western Europe | 5,586.9 | 5,781.5 | 5,679.5 | 5,679.3 | 5,544.6 | -2.4 |
| Belgium | 456.6 | 432.4 | 429.5 | 400.3 | 343.1 | -14.3 |
| France | 562.9 | 535.0 | 530.8 | 570.7 | 465.6 | -18.4 |
| Germany | 535.8 | 556.7 | 571.8 | 516.9 | 454.0 | -12.2 |
| Italy | 550.2 | 501.6 | 584.8 | 527.4 | 427.3 | -19.0 |
| Netherlands | 1,604.8 | 1,789.0 | 1,565.3 | 1,644.6 | 1,912.5 | 16.3 |
| United Kingdom | 615.5 | 579.5 | 611.1 | 560.8 | 521.3 | -7.1 |
| Others | 1,261.2 | 1,387.3 | 1,386.4 | 1,458.5 | 1,420.8 | -2.6 |
| Middle East | 3,375.8 | 3,450.8 | 3,199.3 | 2,959.8 | 2,871.9 | -3.0 |
| Bahrain | 253.0 | 246.3 | 253.2 | 237.9 | 222.3 | -6.5 |
| IR Iran | 402.1 | 461.6 | 388.3 | 274.9 | 300.8 | 9.4 |
| Iraq | 13.5 | 56.3 | 65.6 | 84.9 | 26.2 | -69.2 |
| Kuwait | 614.2 | 749.5 | 739.1 | 707.9 | 673.5 | -4.9 |
| Qatar | 76.8 | 81.1 | 73.9 | 97.8 | 120.5 | 23.3 |
| Saudi Arabia | 1,385.4 | 1,277.6 | 1,138.8 | 1,058.3 | 1,008.4 | -4.7 |
| United Arab Emirates | 509.0 | 452.8 | 407.7 | 359.0 | 374.1 | 4.2 |
| Others | 121.9 | 125.6 | 132.7 | 139.1 | 146.1 | 5.0 |
| Africa | 1,019.7 | 1,025.8 | 1,077.0 | 1,010.5 | 755.1 | -25.3 |
| Algeria | 451.9 | 435.1 | 451.3 | 456.7 | 232.5 | -49.1 |
| Angola | 13.9 | 14.2 | 26.6 | 40.7 | 40.8 | 0.4 |
| Egypt | 73.7 | 68.4 | 64.7 | 67.0 | 63.6 | -5.1 |
| Gabon | 7.3 | 7.3 | 7.4 | 7.4 | 6.1 | -17.5 |
| Nigeria | 49.3 | 50.3 | 53.4 | 19.2 | 12.1 | -37.1 |
| SP Libyan AJ | 162.5 | 183.1 | 198.4 | 156.7 | 136.1 | -13.1 |
| Others | 261.1 | 267.5 | 275.2 | 262.8 | 263.8 | 0.4 |
| Asia and Pacific | 3,673.4 | 3,910.3 | 4,262.9 | 5,055.4 | 5,291.0 | 4.7 |
| Australia | 96.9 | 84.3 | 63.9 | 50.2 | 49.4 | -1.5 |
| China | 329.7 | 323.2 | 313.3 | 455.6 | 522.8 | 14.8 |
| Indonesia | 142.3 | 225.7 | 106.9 | 102.8 | 82.5 | -19.8 |
| Japan | 173.4 | 203.6 | 287.1 | 405.8 | 391.0 | -3.6 |
| Malaysia | 229.6 | 238.4 | 247.9 | 189.3 | 286.0 | 51.1 |
| Singapore | 1,124.6 | 1,167.3 | 1,474.5 | 1,623.4 | 1,766.0 | 8.8 |
| Others | 1,576.8 | 1,667.7 | 1,769.3 | 2,228.5 | 2,193.3 | -1.6 |
| Total world | 19,366.8 | 20,145.0 | 20,206.7 | 20,751.5 | 20,729.3 | -0.1 |
| <i>of which</i> | | | | | | |
| OPEC | 4,307.4 | 4,394.4 | 4,222.0 | 4,210.5 | 3,922.1 | -6.8 |
| OPEC percentage | 22.2 | 21.8 | 20.9 | 20.3 | 19.2 | -5.4 |
| OECD | 7,332.1 | 7,702.7 | 7,703.5 | 8,221.5 | 8,205.8 | -0.2 |
| FSU | 1,868.5 | 1,902.2 | 1,813.9 | 1,305.0 | 1,451.9 | 11.3 |

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

Table 3.21
Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| North America | 2,853.0 | 3,026.6 | 3,095.1 | 3,650.4 | 3,755.7 | 2.9 |
| Canada | 1,799.9 | 1,836.1 | 1,844.3 | 1,970.2 | 1,922.3 | -2.4 |
| United States | 1,053.1 | 1,190.4 | 1,250.7 | 1,680.1 | 1,833.3 | 9.1 |
| Others | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | - |
| Latin America | 6,899.1 | 7,130.1 | 7,026.6 | 6,989.0 | 6,704.0 | -4.1 |
| Ecuador | 399.6 | 410.8 | 381.7 | 390.7 | 362.5 | -7.2 |
| Mexico | 2,199.1 | 2,275.7 | 1,959.8 | 1,689.3 | 1,530.5 | -9.4 |
| Netherland Antilles | 219.6 | 224.2 | 229.6 | 231.5 | 201.5 | -13.0 |
| Trinidad & Tobago | 199.8 | 204.0 | 130.4 | 104.5 | 87.4 | -16.4 |
| Venezuela | 2,397.1 | 2,517.8 | 2,754.4 | 2,681.9 | 2,571.9 | -4.1 |
| Virgin Islands | 402.7 | 410.3 | 419.0 | 421.3 | 394.3 | -6.4 |
| Others | 1,081.2 | 1,087.2 | 1,151.6 | 1,470.0 | 1,556.0 | 5.8 |
| Eastern Europe | 7,420.5 | 7,656.2 | 7,894.1 | 7,108.2 | 7,843.3 | 10.3 |
| Russia | 6,671.1 | 6,787.9 | 6,993.8 | 6,173.2 | 6,828.8 | 10.6 |
| Others | 749.4 | 868.3 | 900.4 | 935.1 | 1,014.6 | 8.5 |
| Western Europe | 9,327.0 | 9,224.7 | 8,901.8 | 8,464.8 | 8,319.1 | -1.7 |
| Belgium | 456.6 | 432.4 | 429.5 | 400.3 | 343.1 | -14.3 |
| France | 562.9 | 535.0 | 530.8 | 570.7 | 465.6 | -18.4 |
| Germany | 535.8 | 556.7 | 571.8 | 516.9 | 454.0 | -12.2 |
| Italy | 550.2 | 501.6 | 584.8 | 527.4 | 427.3 | -19.0 |
| Netherlands | 1,604.8 | 1,789.0 | 1,565.3 | 1,644.6 | 1,912.5 | 16.3 |
| United Kingdom | 1,624.9 | 1,507.4 | 1,544.3 | 1,400.6 | 1,296.8 | -7.4 |
| Others | 3,991.8 | 3,902.6 | 3,675.5 | 3,404.3 | 3,419.8 | 0.5 |
| Middle East | 20,272.7 | 20,344.5 | 19,975.5 | 20,399.1 | 18,196.3 | -10.8 |
| Bahrain | 253.0 | 246.3 | 253.2 | 237.9 | 222.3 | -6.5 |
| IR Iran | 2,796.5 | 2,838.8 | 2,855.1 | 2,713.0 | 2,532.8 | -6.6 |
| Iraq | 1,485.7 | 1,524.1 | 1,708.6 | 1,940.1 | 1,931.8 | -0.4 |
| Kuwait | 2,265.0 | 2,472.9 | 2,352.0 | 2,446.4 | 2,021.8 | -17.4 |
| Qatar | 754.1 | 701.4 | 689.0 | 800.8 | 767.2 | -4.2 |
| Saudi Arabia | 8,594.3 | 8,306.9 | 8,100.9 | 8,380.0 | 7,275.9 | -13.2 |
| United Arab Emirates | 2,704.0 | 2,873.1 | 2,750.4 | 2,693.5 | 2,327.5 | -13.6 |
| Others | 1,420.1 | 1,380.9 | 1,266.2 | 1,187.4 | 1,117.0 | -5.9 |
| Africa | 7,501.2 | 7,608.8 | 7,960.2 | 7,407.4 | 7,526.2 | 1.6 |
| Algeria | 1,422.2 | 1,382.3 | 1,704.8 | 1,297.6 | 980.0 | -24.5 |
| Angola | 960.8 | 1,024.5 | 1,184.2 | 1,085.2 | 1,810.5 | 66.8 |
| Egypt | 118.7 | 125.6 | 108.7 | 165.0 | 165.9 | 0.6 |
| Gabon | 209.3 | 211.1 | 214.5 | 216.1 | 194.0 | -10.3 |
| Nigeria | 2,375.2 | 2,298.7 | 2,197.5 | 2,117.2 | 2,172.5 | 2.6 |
| SP Libyan AJ | 1,468.8 | 1,608.7 | 1,576.2 | 1,560.0 | 1,306.5 | -16.2 |
| Others | 946.2 | 957.9 | 974.2 | 966.3 | 896.9 | -7.2 |
| Asia and Pacific | 5,634.5 | 5,786.9 | 6,053.8 | 6,798.9 | 6,903.7 | 1.5 |
| Australia | 326.8 | 318.9 | 303.2 | 289.5 | 297.5 | 2.8 |
| China | 490.9 | 449.0 | 389.3 | 562.7 | 627.0 | 11.4 |
| Indonesia | 516.7 | 527.0 | 426.2 | 396.9 | 332.8 | -16.1 |
| Japan | 173.4 | 203.6 | 287.1 | 405.8 | 391.0 | -3.6 |
| Malaysia | 612.3 | 629.0 | 648.5 | 591.6 | 657.8 | 11.2 |
| Singapore | 1,124.6 | 1,167.3 | 1,474.5 | 1,623.4 | 1,766.0 | 8.8 |
| Others | 2,389.7 | 2,492.1 | 2,525.0 | 2,929.1 | 2,831.6 | -3.3 |
| Total world | 59,908.0 | 60,777.7 | 60,907.1 | 60,817.8 | 59,248.4 | -2.6 |
| <i>of which</i> | | | | | | |
| OPEC | 27,623.3 | 27,960.0 | 28,255.0 | 28,106.3 | 26,060.8 | -7.3 |
| OPEC percentage | 46.1 | 46.0 | 46.4 | 46.2 | 44.0 | -4.8 |
| OECD | 13,215.1 | 13,281.0 | 13,075.5 | 13,269.3 | 13,219.0 | -0.4 |
| FSU | 6,987.1 | 7,243.9 | 7,436.0 | 6,776.0 | 7,463.0 | 10.1 |

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 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*)

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| North America | 125,270 | 119,950 | 129,830 | 130,490 | 122,560 | -6.1 |
| Canada | 104,650 | 99,750 | 107,300 | 103,200 | 92,240 | -10.6 |
| United States | 20,620 | 20,200 | 22,530 | 27,290 | 30,320 | 11.1 |
| Latin America | 33,000 | 34,060 | 34,560 | 32,810 | 32,430 | -1.2 |
| Argentina | 6,540 | 6,550 | 2,590 | 950 | 880 | -7.4 |
| Bolivia | 10,360 | 11,180 | 11,580 | 11,790 | 9,790 | -17.0 |
| Colombia | - | - | 100 | 1,500 | 1,800 | 20.0 |
| Mexico | 250 | 80 | 1,530 | 1,210 | 790 | -34.7 |
| Trinidad & Tobago | 15,850 | 16,250 | 18,760 | 17,360 | 19,170 | 10.4 |
| Eastern Europe | 285,090 | 308,160 | 303,390 | 315,360 | 255,220 | -19.1 |
| Azerbaijan | - | - | 1,280 | 5,380 | 5,860 | 8.9 |
| Kazakhstan | 4,980 | 8,000 | 640 | 800 | - | - |
| Russia | 222,610 | 237,910 | 231,830 | 237,300 | 207,660 | -12.5 |
| Turkmenistan | 47,000 | 46,340 | 52,400 | 55,800 | 29,900 | -46.4 |
| Ukraine | 2,500 | 2,100 | 2,600 | 1,000 | - | -100.0 |
| Uzbekistan | 8,000 | 13,810 | 14,640 | 15,080 | 11,800 | -21.8 |
| Western Europe | 165,630 | 169,290 | 168,730 | 185,780 | 180,320 | -2.9 |
| Austria | 1,110 | 330 | 130 | - | - | - |
| Belgium | 4,400 | 4,500 | 3,100 | 2,600 | 2,460 | -5.4 |
| Denmark | 5,410 | 4,970 | 4,400 | 5,450 | 4,010 | -26.4 |
| France | 900 | 900 | 1,100 | 1,000 | 840 | -16.0 |
| Germany | 15,740 | 14,800 | 13,850 | 14,640 | 12,800 | -12.6 |
| Italy | 400 | 370 | 70 | 200 | 130 | -35.0 |
| Netherlands | 46,750 | 49,000 | 50,400 | 55,000 | 48,060 | -12.6 |
| Norway | 81,700 | 84,220 | 85,280 | 95,230 | 98,850 | 3.8 |
| Spain | - | - | - | 160 | 1,000 | 525.0 |
| United Kingdom | 9,220 | 10,200 | 10,400 | 11,500 | 12,170 | 5.8 |
| Middle East | 58,380 | 66,500 | 80,130 | 87,530 | 101,030 | 15.4 |
| IR Iran | 4,320 | 5,690 | 6,160 | 4,110 | 5,670 | 38.0 |
| Oman | 10,620 | 12,940 | 13,150 | 10,890 | 11,540 | 6.0 |
| Qatar | 27,100 | 31,090 | 43,500 | 56,780 | 68,190 | 20.1 |
| United Arab Emirates | 16,340 | 16,780 | 17,320 | 15,750 | 15,210 | -3.4 |
| Yemen | - | - | - | - | 420 | - |
| Africa | 93,340 | 107,050 | 110,430 | 115,070 | 105,090 | -8.7 |
| Algeria | 65,270 | 61,560 | 58,370 | 58,830 | 52,670 | -10.5 |
| Egypt | 8,290 | 16,900 | 15,870 | 16,920 | 18,320 | 8.3 |
| Equatorial Guinea | - | - | 1,430 | 5,170 | 4,720 | -8.7 |
| SP Libyan AJ | 5,470 | 8,410 | 9,960 | 10,400 | 9,890 | -4.9 |
| Mozambique | 2,270 | 2,600 | 2,900 | 3,200 | 3,500 | 9.4 |
| Nigeria | 12,040 | 17,580 | 21,900 | 20,550 | 15,990 | -22.2 |
| Asia and Pacific | 84,120 | 82,200 | 83,990 | 84,500 | 84,330 | -0.2 |
| Australia | 14,850 | 18,030 | 20,060 | 20,240 | 24,240 | 19.8 |
| Brunei | 9,150 | 9,810 | 9,350 | 9,200 | 8,810 | -4.2 |
| Indonesia | 36,290 | 34,170 | 33,940 | 36,170 | 36,500 | 0.9 |
| Malaysia | 29,820 | 29,240 | 31,300 | 30,580 | 30,730 | 0.5 |
| Myanmar | 8,860 | 8,980 | 9,400 | 8,550 | 8,290 | -3.0 |
| Total world | 859,680 | 905,240 | 931,120 | 971,780 | 905,220 | -6.8 |
| <i>of which</i> | | | | | | |
| OPEC | 130,540 | 141,110 | 157,210 | 166,420 | 167,620 | 0.7 |
| <i>OPEC percentage</i> | <i>15.2</i> | <i>15.6</i> | <i>16.9</i> | <i>17.1</i> | <i>18.5</i> | <i>8.1</i> |
| OECD | 306,000 | 307,350 | 320,150 | 337,720 | 327,910 | -2.9 |
| FSU | 285,090 | 308,160 | 303,390 | 315,360 | 255,220 | -19.1 |

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

Table 3.23

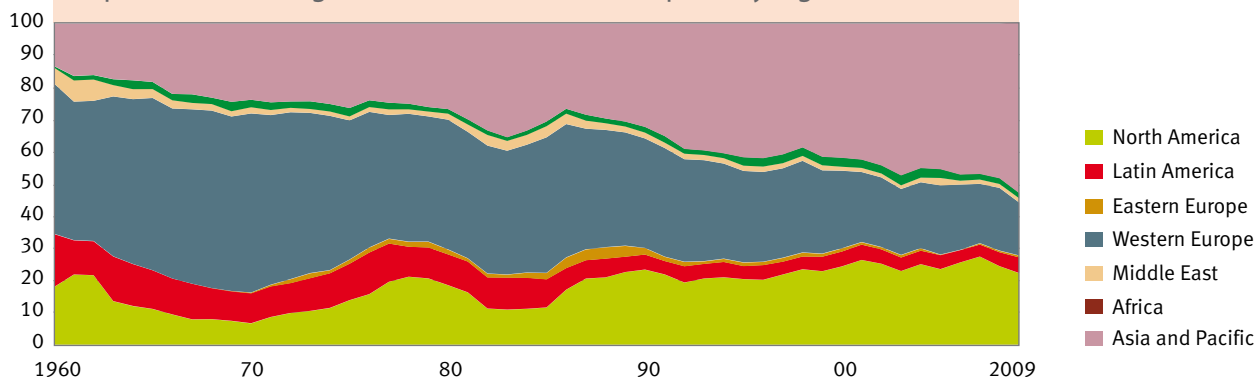
Oil and gas data

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

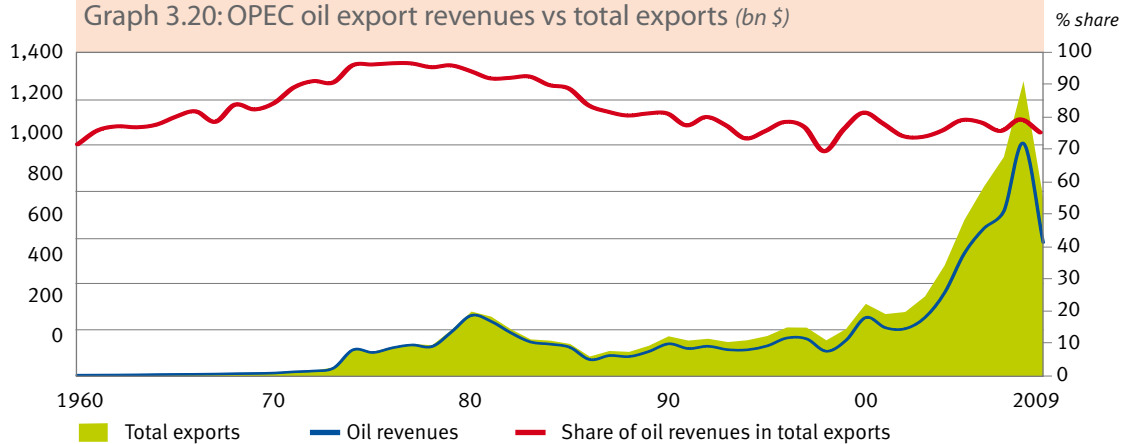
| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| North America | 11,024.2 | 10,943.1 | 10,849.8 | 10,569.2 | 9,860.6 | -6.7 |
| Canada | 898.2 | 825.1 | 832.8 | 815.8 | 798.3 | -2.1 |
| United States | 10,126.0 | 10,118.0 | 10,017.0 | 9,753.4 | 9,062.3 | -7.1 |
| Latin America | 1,925.3 | 1,935.6 | 1,948.9 | 1,940.9 | 1,863.3 | -4.0 |
| Brazil | 419.6 | 426.8 | 391.8 | 371.9 | 360.1 | -3.2 |
| Chile | 211.5 | 222.3 | 210.8 | 208.9 | 139.2 | -33.4 |
| Cuba | 44.5 | 45.2 | 46.0 | 46.0 | 46.0 | - |
| Netherlands Antilles | 221.9 | 225.9 | 230.2 | 230.5 | 230.5 | - |
| Puerto Rico | 126.9 | 128.4 | 130.2 | 130.4 | 130.4 | - |
| Virgin Islands | 450.7 | 454.3 | 458.4 | 458.8 | 458.8 | - |
| Others | 450.2 | 432.7 | 481.6 | 494.3 | 498.2 | 0.8 |
| Eastern Europe | 1,096.9 | 1,173.2 | 1,205.6 | 1,141.0 | 1,131.5 | -0.8 |
| Bulgaria | 123.8 | 142.1 | 142.7 | 134.0 | 132.3 | -1.3 |
| Czech Republic | 155.3 | 155.8 | 144.3 | 162.6 | 161.6 | -0.6 |
| Romania | 177.4 | 179.1 | 175.8 | 172.8 | 171.7 | -0.6 |
| Russia | 40.0 | 44.3 | 62.3 | 48.2 | 47.5 | -1.4 |
| Others | 600.4 | 651.9 | 680.5 | 623.5 | 618.5 | -0.8 |
| Western Europe | 12,035.0 | 11,815.0 | 11,682.7 | 11,623.6 | 11,600.4 | -0.2 |
| Belgium | 645.4 | 636.8 | 665.7 | 681.1 | 678.6 | -0.4 |
| France | 1,722.3 | 1,670.6 | 1,646.0 | 1,682.4 | 1,682.4 | - |
| Germany | 2,301.3 | 2,246.5 | 2,189.8 | 2,152.7 | 2,152.3 | - |
| Greece | 377.0 | 399.1 | 409.6 | 387.7 | 386.2 | -0.4 |
| Italy | 1,804.6 | 1,752.8 | 1,775.8 | 1,650.8 | 1,650.3 | - |
| Netherlands | 1,051.8 | 959.7 | 985.8 | 983.4 | 981.6 | -0.2 |
| Spain | 1,189.2 | 1,207.5 | 1,149.7 | 1,165.5 | 1,163.2 | -0.2 |
| Sweden | 405.9 | 390.8 | 363.7 | 423.2 | 421.9 | -0.3 |
| Turkey | 470.3 | 484.3 | 472.7 | 440.2 | 439.1 | -0.2 |
| United Kingdom | 1,078.2 | 1,048.7 | 1,028.8 | 1,062.0 | 1,059.8 | -0.2 |
| Others | 989.1 | 1,018.3 | 995.2 | 994.8 | 985.1 | -1.0 |
| Middle East | 507.0 | 510.5 | 514.6 | 647.5 | 648.5 | 0.2 |
| Bahrain | 227.3 | 228.4 | 229.7 | 212.1 | 213.1 | 0.5 |
| Syrian Arab Republic | - | - | - | - | - | - |
| Yemen | - | - | - | - | - | - |
| Others | 279.8 | 282.1 | 284.9 | 435.4 | 435.4 | - |
| Africa | 911.9 | 892.0 | 914.8 | 948.6 | 882.1 | -7.0 |
| Côte d'Ivoire | 81.0 | 81.7 | 82.6 | 82.7 | 82.7 | - |
| Kenya | 35.8 | 36.6 | 37.5 | 37.5 | 37.5 | - |
| Morocco | 140.8 | 143.8 | 147.0 | 147.3 | 147.3 | - |
| Others | 654.3 | 629.9 | 647.6 | 681.1 | 614.6 | -9.8 |
| Asia and Pacific | 15,028.7 | 15,647.1 | 16,025.9 | 16,133.1 | 16,200.0 | 0.4 |
| Australia | 382.7 | 388.2 | 385.0 | 378.5 | 378.2 | -0.1 |
| India | 1,942.7 | 2,213.6 | 2,412.3 | 2,552.8 | 2,597.9 | 1.8 |
| Indonesia | 341.5 | 289.6 | 298.3 | 260.8 | 324.9 | 24.6 |
| Japan | 4,130.6 | 4,062.9 | 3,985.6 | 3,966.4 | 3,445.1 | -13.1 |
| New Zealand | 94.7 | 94.6 | 92.5 | 100.8 | 100.5 | -0.2 |
| Philippines | 211.5 | 214.0 | 207.4 | 188.8 | 138.7 | -26.5 |
| Singapore | 707.4 | 730.3 | 698.6 | 639.0 | 600.3 | -6.1 |
| South Korea | 2,329.3 | 2,412.5 | 2,392.3 | 2,331.6 | 2,325.9 | -0.2 |
| Taiwan | 1,045.8 | 999.2 | 964.8 | 909.4 | 945.3 | 3.9 |
| Thailand | 826.8 | 828.1 | 801.1 | 810.7 | 810.7 | - |
| Others | 3,015.7 | 3,414.2 | 3,788.2 | 3,994.4 | 4,532.5 | 13.5 |
| Total world | 42,529.1 | 42,916.5 | 43,142.4 | 43,003.9 | 42,186.3 | -1.9 |
| <i>of which</i> | | | | | | |
| OECD | 31,053.4 | 30,845.1 | 30,531.1 | 30,062.9 | 28,794.7 | -4.2 |

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.

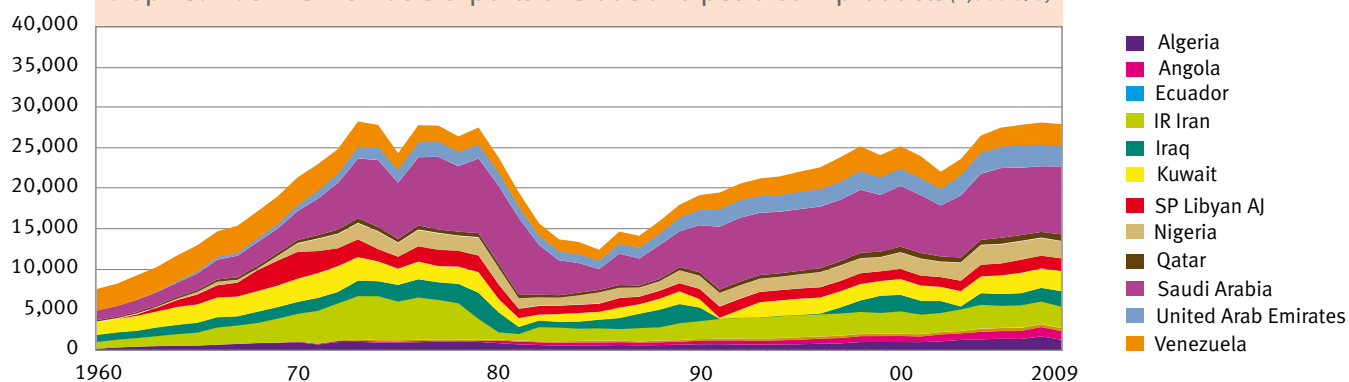
Graph 3.19: Percentage share of OPEC crude oil exports by regions



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)

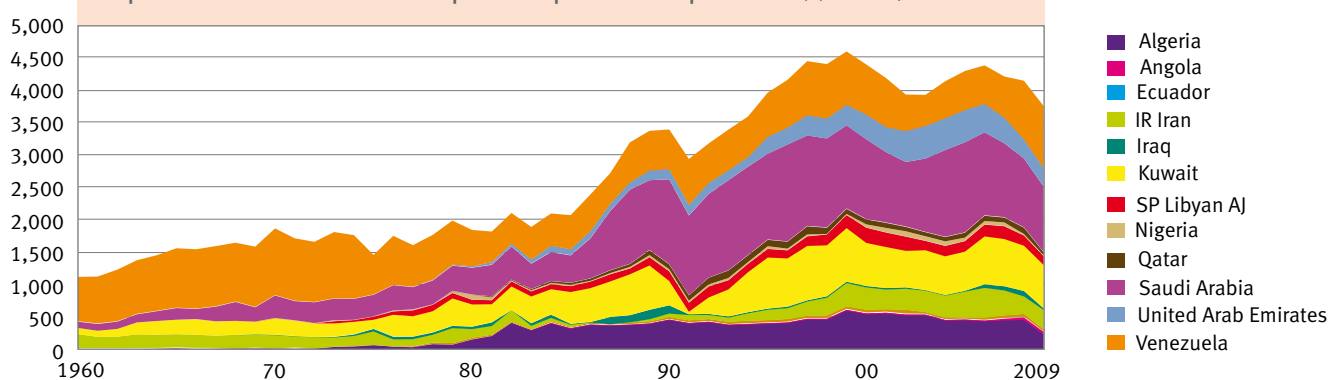


Table 3.24

Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| North America | 2,914.1 | 2,754.8 | 2,713.1 | 2,415.1 | 2,103.6 | -12.9 |
| Canada | 298.5 | 291.8 | 282.3 | 329.8 | 279.4 | -15.3 |
| United States | 2,610.9 | 2,458.2 | 2,425.9 | 2,080.4 | 1,819.2 | -12.6 |
| Others | 4.6 | 4.8 | 5.0 | 5.0 | 5.0 | - |
| Latin America | 1,526.1 | 1,696.6 | 1,960.3 | 2,052.6 | 1,904.7 | -7.2 |
| Brazil | 222.1 | 261.3 | 320.1 | 343.5 | 310.6 | -9.6 |
| Cuba | 72.4 | 74.7 | 77.2 | 78.6 | 79.9 | 1.7 |
| Mexico | 343.0 | 364.2 | 426.6 | 477.7 | 454.5 | -4.8 |
| Netherland Antilles | 61.3 | 63.5 | 65.9 | 66.0 | 66.0 | - |
| Panama | 29.9 | 24.5 | 43.1 | 43.0 | 42.9 | -0.2 |
| Puerto Rico | 105.2 | 108.1 | 111.2 | 106.3 | 101.3 | -4.7 |
| Others | 692.1 | 800.3 | 916.3 | 937.6 | 849.5 | -9.4 |
| Eastern Europe | 398.9 | 418.2 | 397.7 | 352.8 | 349.8 | -0.9 |
| Bulgaria | 36.3 | 37.6 | 34.1 | 30.2 | 30.3 | 0.3 |
| Hungary | 10.4 | 10.7 | 11.1 | 11.4 | 10.6 | -7.1 |
| Poland | 42.4 | 44.1 | 47.3 | 44.8 | 44.1 | -1.6 |
| Russia | 160.7 | 165.8 | 138.8 | 120.2 | 120.1 | -0.1 |
| Others | 149.1 | 160.1 | 166.4 | 146.2 | 144.7 | -1.0 |
| Western Europe | 6,118.5 | 6,449.8 | 5,984.0 | 6,207.3 | 6,399.0 | 3.1 |
| Belgium | 415.3 | 394.5 | 356.8 | 439.0 | 360.8 | -17.8 |
| France | 743.1 | 718.3 | 693.4 | 699.5 | 775.9 | 10.9 |
| Germany | 711.8 | 755.3 | 582.8 | 704.3 | 661.0 | -6.1 |
| Italy | 269.6 | 270.4 | 241.9 | 230.3 | 223.9 | -2.8 |
| Netherlands | 1,340.9 | 1,555.7 | 1,368.1 | 1,459.2 | 1,670.6 | 14.5 |
| United Kingdom | 467.4 | 556.4 | 494.6 | 436.7 | 485.4 | 11.2 |
| Others | 2,170.3 | 2,199.3 | 2,246.3 | 2,238.4 | 2,221.4 | -0.8 |
| Middle East | 461.9 | 512.2 | 577.3 | 555.2 | 543.1 | -2.2 |
| Syrian Arab Republic | 20.5 | 21.2 | 22.0 | 20.7 | 19.4 | -6.3 |
| Others | 441.3 | 490.9 | 555.3 | 534.5 | 523.8 | -2.0 |
| Africa | 773.7 | 805.0 | 867.3 | 826.1 | 862.8 | 4.4 |
| Egypt | 75.9 | 82.1 | 91.8 | 103.1 | 139.0 | 34.8 |
| Morocco | 77.2 | 80.0 | 83.0 | 81.8 | 80.6 | -1.5 |
| Nigeria | 154.3 | 154.8 | 171.3 | 129.3 | 130.3 | 0.8 |
| Senegal | 23.9 | 24.6 | 25.3 | 25.3 | 25.3 | - |
| Tunisia | 63.8 | 65.7 | 67.8 | 67.8 | 67.8 | - |
| Others | 378.7 | 397.8 | 428.1 | 418.7 | 419.7 | 0.2 |
| Asia and Pacific | 5,872.8 | 6,412.7 | 6,451.3 | 6,813.9 | 7,009.3 | 2.9 |
| Australia | 224.6 | 255.0 | 252.9 | 339.6 | 340.2 | 0.2 |
| China | 634.1 | 733.4 | 680.8 | 803.5 | 877.2 | 9.2 |
| Hong Kong | 324.8 | 343.9 | 364.5 | 330.8 | 398.8 | 20.5 |
| India | 233.3 | 281.6 | 415.2 | 408.1 | 483.0 | 18.4 |
| Japan | 1,044.9 | 1,058.7 | 954.2 | 933.5 | 929.3 | -0.4 |
| New Zealand | 38.5 | 42.5 | 50.7 | 44.3 | 44.2 | -0.3 |
| Singapore | 1,293.9 | 1,496.1 | 1,648.5 | 1,678.2 | 1,668.0 | -0.6 |
| Others | 2,078.7 | 2,201.5 | 2,084.6 | 2,275.9 | 2,268.6 | -0.3 |
| Total world | 18,065.9 | 19,049.3 | 18,951.0 | 19,223.1 | 19,172.3 | -0.3 |
| <i>of which</i> | | | | | | |
| OPEC | 409.0 | 547.3 | 632.2 | 555.4 | 581.8 | 4.8 |
| OPEC percentage | 2.3 | 2.9 | 3.3 | 2.9 | 3.0 | - |
| OECD | 10,548.4 | 10,780.9 | 10,163.4 | 10,167.5 | 10,043.2 | -1.2 |
| FSU | 159.5 | 170.8 | 177.5 | 157.7 | 155.4 | -1.5 |

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*)

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|-----------------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| North America | 132,910 | 125,760 | 143,850 | 130,250 | 126,660 | -2.8 |
| Canada | 10,140 | 9,370 | 13,200 | 15,900 | 20,830 | 31.0 |
| United States | 122,770 | 116,390 | 130,650 | 114,350 | 105,830 | -7.5 |
| Latin America | 26,460 | 28,750 | 26,300 | 29,810 | 28,910 | -3.0 |
| Argentina | 1,730 | 1,800 | 1,680 | 1,300 | 2,660 | 104.6 |
| Brazil | 8,970 | 9,860 | 10,020 | 11,030 | 8,440 | -23.5 |
| Chile | 6,100 | 5,950 | 2,380 | 750 | 1,490 | 98.7 |
| Dominican Republic | 250 | 250 | 480 | 470 | 560 | 19.1 |
| Mexico | 8,640 | 10,050 | 10,810 | 13,880 | 13,160 | -5.2 |
| Puerto Rico | 670 | 720 | 740 | 810 | 760 | -6.2 |
| Uruguay | 100 | 120 | 90 | 70 | 40 | -42.9 |
| Venezuela | - | - | 100 | 1,500 | 1,800 | 20.0 |
| Eastern Europe¹ | 174,830 | 198,170 | 187,110 | 195,490 | 143,460 | -26.6 |
| Armenia | 1,700 | 1,700 | 1,900 | 2,300 | 2,050 | -10.9 |
| Azerbaijan | 3,800 | 4,000 | - | - | - | - |
| Belarus | 19,800 | 20,500 | 20,600 | 21,100 | 17,570 | -16.7 |
| Bulgaria | 2,850 | 2,850 | 3,050 | 3,100 | 2,640 | -14.8 |
| Czech Republic | 9,480 | 9,480 | 8,630 | 8,610 | 8,030 | -6.7 |
| Estonia | 900 | 1,000 | 1,000 | 630 | 710 | 12.7 |
| Georgia | 1,450 | 1,900 | 1,200 | 1,130 | 200 | -82.3 |
| Hungary | 12,290 | 11,600 | 10,450 | 11,500 | 8,100 | -29.6 |
| Kazakhstan | 4,000 | 5,000 | 6,600 | 5,800 | 5,400 | -6.9 |
| Kyrgyzstan | - | 900 | 900 | 1,200 | 1,200 | - |
| Latvia | 1,700 | 1,700 | 1,200 | 750 | 1,190 | 58.7 |
| Lithuania | 2,900 | 2,900 | 3,400 | 3,090 | 2,770 | -10.4 |
| Moldova | 2,600 | 2,550 | 2,700 | 2,800 | 2,900 | 3.6 |
| Poland | 10,210 | 10,390 | 9,280 | 10,280 | 9,150 | -11.0 |
| Romania | 6,250 | 5,300 | 4,500 | 4,500 | 2,050 | -54.4 |
| Russia | 27,400 | 53,500 | 51,500 | 56,200 | 28,400 | -49.5 |
| Slovak Republic | 6,400 | 6,300 | 5,600 | 5,600 | 5,400 | -3.6 |
| Tadzhikistan | - | 600 | 600 | 700 | 700 | - |
| Ukraine | 61,100 | 56,000 | 54,000 | 56,200 | 45,000 | -19.9 |
| Western Europe | 364,480 | 379,860 | 378,760 | 400,860 | 389,570 | -2.8 |
| Austria | 8,810 | 7,700 | 7,000 | 8,100 | 7,980 | -1.5 |
| Belgium | 21,980 | 22,450 | 21,080 | 20,740 | 21,000 | 1.3 |
| Bosnia/Herzegovina | 400 | 400 | 320 | 310 | 220 | -29.0 |
| Croatia | 1,150 | 1,100 | 1,200 | 1,260 | 1,200 | -4.8 |
| Denmark | 280 | 80 | - | - | - | - |
| Finland | 4,200 | 4,520 | 4,320 | 4,500 | 4,100 | -8.9 |
| France | 49,030 | 49,580 | 46,920 | 49,250 | 49,060 | -0.4 |
| Germany | 90,750 | 90,920 | 82,900 | 87,100 | 88,820 | 2.0 |
| Greece | 2,860 | 3,190 | 4,010 | 4,140 | 3,290 | -20.5 |

Table 3.25
Oil and gas data

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

| | 2005 | 2006 | 2007 | 2008 | 2009 | % change 09/08 |
|---|----------------|----------------|----------------|----------------|----------------|-------------------|
| Western Europe (<i>cont'd</i>) | | | | | | |
| Ireland | 2,950 | 3,400 | 4,700 | 5,000 | 5,080 | 1.6 |
| Italy | 73,630 | 77,350 | 73,880 | 76,870 | 69,310 | -9.8 |
| Luxembourg | 1,400 | 1,500 | 1,300 | 1,200 | 1,300 | 8.3 |
| Macedonia, f Yug Rep | 100 | 100 | 80 | 70 | 80 | 14.3 |
| Netherlands | 18,190 | 18,610 | 18,360 | 17,970 | 17,210 | -4.2 |
| Portugal | 4,200 | 4,070 | 4,140 | 4,560 | 4,410 | -3.3 |
| Serbia/Montenegro | 2,150 | 2,100 | 2,100 | 2,150 | 1,550 | -27.9 |
| Slovenia | 1,130 | 1,150 | 1,100 | 1,000 | 890 | -11.0 |
| Spain | 33,440 | 35,160 | 35,130 | 39,060 | 35,430 | -9.3 |
| Sweden | 1,030 | 1,080 | 1,110 | 1,000 | 1,310 | 31.0 |
| Switzerland | 3,250 | 2,980 | 2,990 | 3,190 | 3,090 | -3.1 |
| Turkey | 27,030 | 31,060 | 36,160 | 36,850 | 33,180 | -10.0 |
| United Kingdom | 16,520 | 21,360 | 29,960 | 36,540 | 41,060 | 12.4 |
| Middle East | 17,680 | 18,830 | 25,800 | 35,310 | 39,100 | 10.7 |
| IR Iran | 5,800 | 5,800 | 7,300 | 7,100 | 5,800 | -18.3 |
| Israel | - | - | - | - | 1,700 | - |
| Jordan | 1,280 | 1,930 | 2,350 | 2,750 | 2,850 | 3.6 |
| Kuwait | - | - | - | - | 890 | - |
| Oman | - | - | - | 350 | 1,500 | 328.6 |
| Syrian Arab Republic | - | - | - | 140 | 910 | 550.0 |
| United Arab Emirates | 10,600 | 11,100 | 16,150 | 24,970 | 25,450 | 1.9 |
| Africa | 4,070 | 3,900 | 4,150 | 4,950 | 5,250 | 6.1 |
| Morocco | - | - | - | 500 | 500 | - |
| South Africa | 2,270 | 2,600 | 2,900 | 3,200 | 3,500 | 9.4 |
| Tunisia | 1,800 | 1,300 | 1,250 | 1,250 | 1,250 | - |
| Asia and Pacific | 139,250 | 149,970 | 165,150 | 175,130 | 172,260 | -1.6 |
| China | | 1,000 | 3,870 | 4,440 | 7,630 | 71.8 |
| India | 6,040 | 7,990 | 9,980 | 10,790 | 12,620 | 17.0 |
| Japan | 78,160 | 81,860 | 88,820 | 92,250 | 85,900 | -6.9 |
| South Korea | 30,450 | 34,140 | 34,390 | 36,550 | 34,330 | -6.1 |
| Malaysia | - | - | - | 500 | 900 | 80.0 |
| Singapore | 6,130 | 5,800 | 7,680 | 9,970 | 10,800 | 8.3 |
| Taiwan | 9,610 | 10,200 | 11,010 | 12,080 | 11,790 | -2.4 |
| Thailand | 8,860 | 8,980 | 9,400 | 8,550 | 8,290 | -3.0 |
| Total world | 859,680 | 905,240 | 931,120 | 971,800 | 905,210 | -6.9 |
| <i>of which</i> | | | | | | |
| OPEC | 16,400 | 16,900 | 23,550 | 33,570 | 33,940 | 1.1 |
| <i>OPEC share</i> | <i>1.9</i> | <i>1.9</i> | <i>2.5</i> | <i>3.5</i> | <i>3.7</i> | <i>8.5</i> |
| OECD | 648,090 | 664,590 | 685,790 | 704,990 | 676,360 | -4.1 |
| FSU | 127,350 | 152,250 | 145,600 | 151,900 | 108,090 | -28.8 |

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

Section 4

Transportation



Table 4.1**Transportation**

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

| | 2005 | | 2006 | | 2007 | | 2008 | | 2009 | |
|------------------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|------------|---------------|
| | number | dwt | number | dwt | number | dwt | number | dwt | number | dwt |
| Algeria | 1 | 23 | 1 | 23 | 1 | 23 | 5 | 331 | 5 | 331 |
| Angola | na | na | na | na | na | na | na | na | na | na |
| Ecuador | na | na | na | na | na | na | 8 | 269 | 8 | 269 |
| IR Iran | 32 | 6,050 | 32 | 6,050 | 29 | 6,202 | 42 | 9,560 | 42 | 9,560 |
| Iraq | 1 | 37 | 1 | 37 | 1 | 37 | 2 | 26 | 4 | 53 |
| Kuwait | 19 | 2,941 | 18 | 2,802 | 22 | 3,241 | 21 | 3,113 | 20 | 3,110 |
| SP Libyan AJ | 6 | 275 | 6 | 275 | 8 | 627 | 8 | 627 | 8 | 627 |
| Nigeria | 2 | 409 | 2 | 409 | 2 | 409 | 2 | 409 | 2 | 409 |
| Qatar | 6 | 438 | 6 | 438 | 6 | 528 | 6 | 528 | 6 | 528 |
| Saudi Arabia | 19 | 1,721 | 41 | 10,055 | 41 | 10,055 | 46 | 10,483 | 40 | 8,662 |
| United Arab Emirates | 9 | 400 | 6 | 218 | 6 | 218 | 13 | 660 | 13 | 442 |
| Venezuela | 21 | 1,348 | 21 | 1,348 | 21 | 1,348 | 16 | 1,091 | 16 | 1,091 |
| OPEC | 116 | 13,642 | 134 | 21,655 | 137 | 22,688 | 169 | 27,097 | 164 | 25,082 |
| Total world | 3,892 | 340,214 | 4,177 | 359,618 | 4,418 | 375,591 | 4,825 | 398,196 | 5,713 | 481,185 |
| <i>OPEC percentage</i> | | <i>4.3</i> | | <i>6.3</i> | | <i>6.4</i> | | <i>7.1</i> | | <i>5.2</i> |

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

Table 4.2

World tanker fleet by age (1,000 dwt)

| | up to 1994 | | 1995–1999 | | 2000–2004 | | 2005–2009 | | Total | |
|--------------------|--------------|-----------------|------------|-----------------|--------------|------------------|--------------|------------------|--------------|------------------|
| | no | dwt | no | dwt | no | dwt | no | dwt | no | dwt |
| 10,000–19,999 | 268 | 4,038.5 | 159 | 2,288.9 | 181 | 2,853.3 | 553 | 8,206.2 | 1,161 | 17,386.9 |
| 20,000–29,999 | 147 | 4,013.5 | 11 | 285.0 | 46 | 1,125.6 | 63 | 1,565.3 | 267 | 6,989.4 |
| 30,000–39,999 | 157 | 5,722.0 | 94 | 3,281.4 | 188 | 6,742.0 | 218 | 7,975.3 | 657 | 23,720.8 |
| 40,000–49,999 | 168 | 7,395.6 | 143 | 6,472.7 | 264 | 12,009.6 | 425 | 19,359.2 | 1,000 | 45,237.1 |
| 50,000–59,999 | 21 | 1,122.1 | 1 | 55.1 | 5 | 255.7 | 180 | 9,218.7 | 207 | 10,651.6 |
| 60,000–69,999 | 77 | 5,059.1 | 13 | 870.6 | 33 | 2,249.7 | 32 | 2,100.4 | 155 | 10,279.7 |
| 70,000–74,999 | 5 | 344.5 | 3 | 184.1 | 33 | 2,358.0 | 102 | 7,494.9 | 141 | 10,381.7 |
| 75,000–89,999 | 98 | 8,897.3 | 35 | 3,252.4 | 47 | 3,704.8 | 103 | 7,639.5 | 282 | 23,494.0 |
| 90,000–99,999 | 68 | 6,465.3 | 31 | 2,983.3 | 10 | 925.3 | 2 | 144.6 | 110 | 10,518.4 |
| 100,000–109,999 | 23 | 2,403.2 | 80 | 8,486.0 | 176 | 18,647.7 | 220 | 23,366.4 | 499 | 52,903.3 |
| 110,000–119,999 | 10 | 1,119.6 | 7 | 790.8 | 51 | 5,796.1 | 133 | 15,192.8 | 201 | 22,899.3 |
| 120,000–129,999 | 16 | 2,006.8 | 11 | 1,387.0 | 6 | 755.8 | – | – | 33 | 4,149.6 |
| 130,000–139,999 | 6 | 815.6 | 4 | 525.7 | – | – | – | – | 10 | 1,341.2 |
| 140,000–149,999 | 33 | 4,848.1 | 29 | 4,294.1 | 21 | 3,101.7 | 15 | 2,219.5 | 98 | 14,463.4 |
| 150,000–159,999 | 28 | 4,315.1 | 29 | 4,496.1 | 82 | 12,853.6 | 80 | 12,581.9 | 219 | 34,246.7 |
| 160,000–199,999 | 2 | 355.1 | – | – | 19 | 3,124.0 | 47 | 7,838.0 | 68 | 11,317.0 |
| 200,000–229,999 | 1 | 214.9 | – | – | – | – | – | – | 1 | 214.9 |
| 230,000–259,999 | 22 | 5,550.0 | 2 | 518.1 | – | – | – | – | 24 | 6,068.1 |
| 260,000–299,999 | 61 | 17,102.7 | 53 | 15,123.1 | 89 | 26,238.8 | 44 | 13,103.8 | 247 | 71,568.3 |
| 300,000–349,999 | 23 | 6,976.9 | 61 | 18,592.2 | 108 | 33,277 | 137 | 42,740.6 | 329 | 101,586.6 |
| 350,000 and over | – | – | – | – | 4 | 1,767 | – | – | 4 | 1,767.3 |
| Total world | 1,233 | 88,765.8 | 765 | 73,886.5 | 1,362 | 137,785.7 | 2,353 | 180,747.2 | 5,713 | 481,185.2 |

Notes: Figures as at year-end. Totals may not add up due to independent rounding. Data includes clean, dirty and chemical tankers.

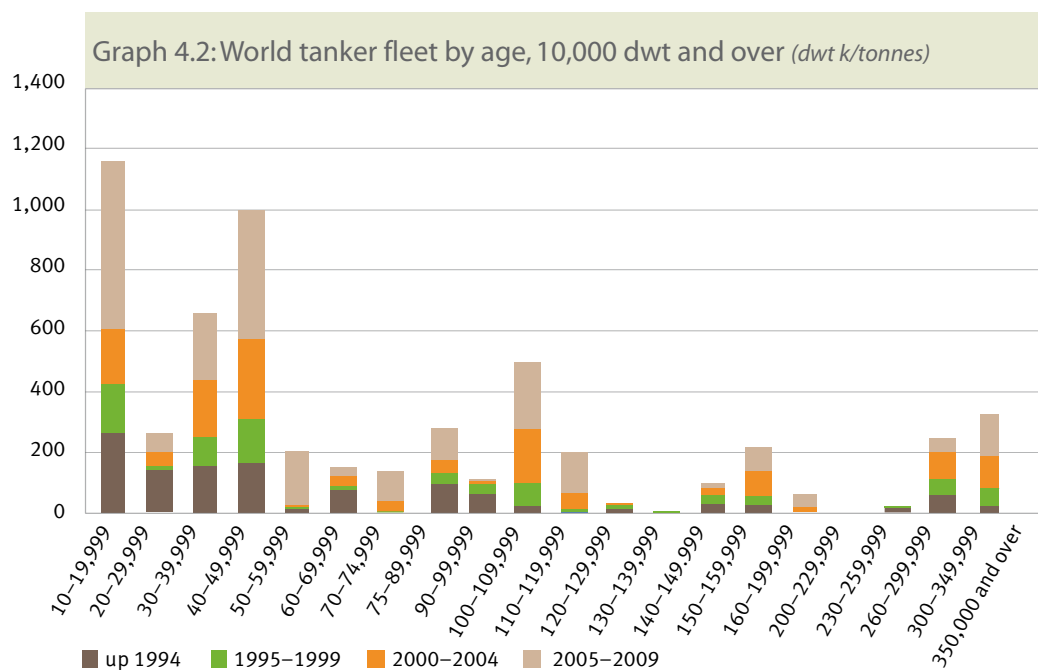
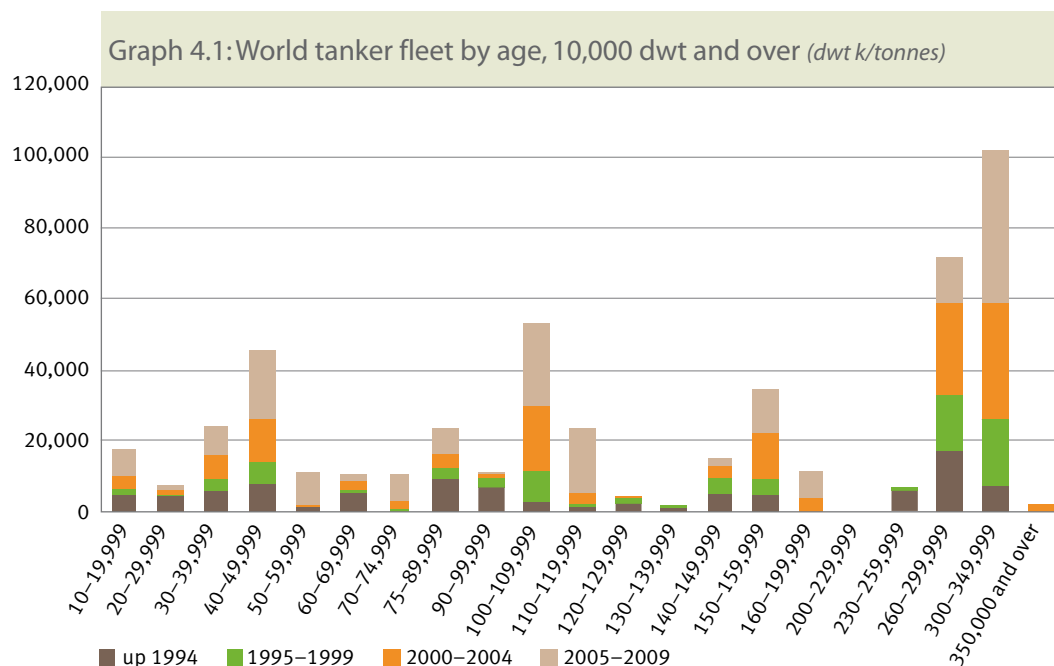


Table 4.3**Transportation**

World liquid gas carrier fleet by size and type, 2009 (1,000 cu m)

| | no | LPG capacity | no | LNG capacity | no | Total capacity |
|--------------------|--------------|-----------------|------------|-----------------|--------------|-------------------|
| up to 999 | 66 | 45 | – | – | 66 | 45 |
| 1,000–1,999 | 278 | 402 | – | – | 278 | 402 |
| 2,000–4,999 | 289 | 957 | – | – | 289 | 957 |
| 5,000–9,999 | 198 | 1,346 | – | – | 198 | 1,346 |
| 10,000–19,999 | 64 | 872 | 9 | 103 | 73 | 975 |
| 20,000–39,999 | 83 | 2,458 | 3 | 94 | 86 | 2,552 |
| 40,000–59,999 | 24 | 1,368 | 4 | 163 | 28 | 1,531 |
| 60,000–99,999 | 133 | 10,574 | 18 | 1,383 | 151 | 11,957 |
| 100,000 and over | – | – | 266 | 39,030 | 266 | 39,030 |
| Total world | 1,135 | 18,022 | 300 | 40,773 | 1,435 | 58,795 |

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, 2009 (1,000 cu m)

| | no | LPG capacity | no | LNG capacity | no | Total capacity |
|------------------------|-----------|-----------------|-----------|-----------------|-----------|-------------------|
| Algeria | 10 | 413 | 9 | 987 | 19 | 1,400 |
| Angola | – | – | – | – | – | – |
| Ecuador | 3 | 92 | – | – | 3 | 92 |
| IR Iran | 1 | 12 | – | – | 1 | 12 |
| Iraq | – | – | – | – | – | – |
| Kuwait | 4 | 321 | – | – | 4 | 321 |
| SP Libyan AJ | 2 | 8 | – | – | 2 | 8 |
| Nigeria | 2 | 157 | 24 | 3,346 | 26 | 3,503 |
| Qatar | 4 | 328 | 28 | 5,456 | 32 | 5,784 |
| Saudi Arabia | – | – | – | – | – | – |
| United Arab Emirates | 1 | 3 | 8 | 1,096 | 8 | 1,096 |
| Venezuela | 2 | 24 | – | – | 2 | 24 |
| OPEC | 29 | 1,358 | 69 | 10,885 | 97 | 12,240 |
| Total world | 1,135 | 18,022 | 300 | 40,773 | 1,435 | 58,795 |
| <i>OPEC percentage</i> | | <i>7.5</i> | | <i>26.7</i> | | <i>20.8</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)

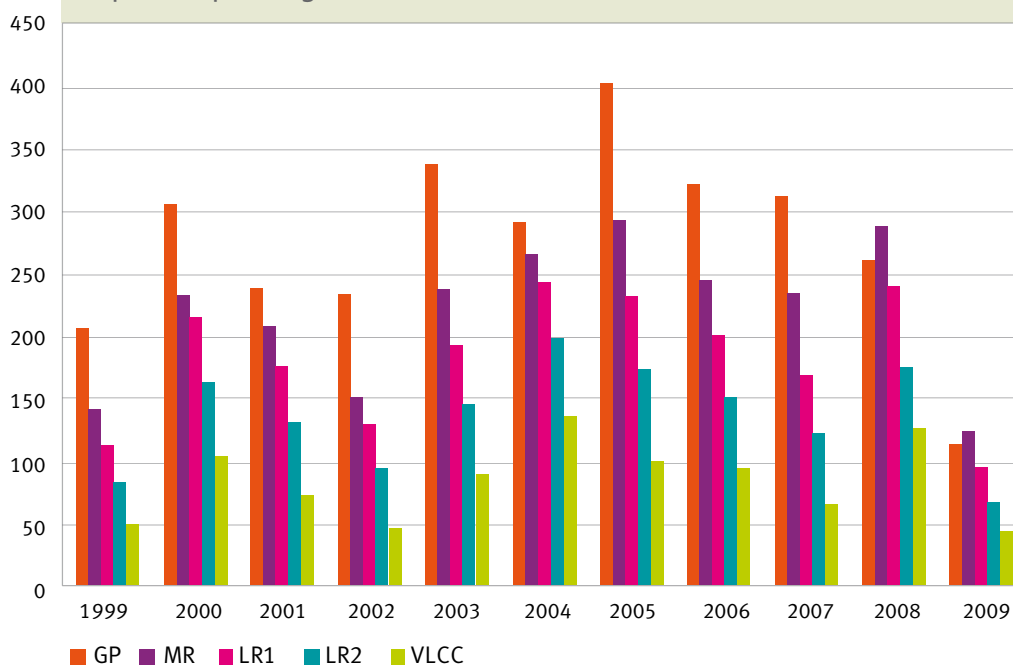
| | 2005 | | 2006 | | 2007 | | 2008 | | 2009 | |
|--------------------|------------|---------------|------------|---------------|------------|---------------|-----------|--------------|-----------|--------------|
| | no | dwt | no | dwt | no | dwt | no | dwt | no | dwt |
| 10,000–19,999 | 1 | 15 | 1 | 15 | 2 | 28 | 2 | 28 | 2 | 28 |
| 20,000–29,999 | 1 | 26 | 1 | 26 | 1 | 26 | 1 | 26 | 1 | 26 |
| 30,000–39,999 | – | – | – | – | – | – | – | – | – | – |
| 40,000–49,999 | 9 | 419 | 9 | 419 | 9 | 419 | 8 | 375 | 8 | 375 |
| 50,000–59,999 | 9 | 490 | 8 | 436 | 7 | 382 | 3 | 164 | 2 | 108 |
| 60,000–69,999 | 5 | 326 | 5 | 326 | 5 | 326 | 2 | 133 | 2 | 133 |
| 70,000–79,999 | 15 | 1,110 | 15 | 1,110 | 16 | 1,212 | 5 | 375 | 5 | 375 |
| 80,000–99,999 | 28 | 2,334 | 31 | 2,631 | 33 | 2,809 | 7 | 608 | 6 | 511 |
| 100,000–124,999 | 25 | 2,579 | 16 | 1,667 | 15 | 1,670 | 13 | 1,488 | 13 | 1,488 |
| 125,000–159,999 | 8 | 1,143 | 3 | 366 | – | – | 3 | 487 | 1 | 120 |
| 160,000–199,999 | 9 | 1,518 | 16 | 2,526 | 14 | 2,257 | 1 | 164 | 3 | 468 |
| 200,000–249,999 | – | – | – | – | – | – | – | – | – | – |
| 250,000–319,999 | 4 | 1,233 | 4 | 1,233 | 4 | 1,233 | – | – | – | – |
| Total world | 114 | 11,194 | 109 | 10,756 | 106 | 10,363 | 46 | 3,849 | 43 | 3,633 |

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 |
|------|-----------------|-----------------|------------------|-------------------|---------------------|
| 1999 | 208.2 | 141.7 | 114.2 | 83.8 | 49.3 |
| 2000 | 306.6 | 234.8 | 217.7 | 164.0 | 106.9 |
| 2001 | 241.6 | 209.2 | 175.9 | 133.9 | 74.4 |
| 2002 | 236.5 | 150.0 | 129.2 | 95.6 | 48.1 |
| 2003 | 338.2 | 240.3 | 193.3 | 147.7 | 90.0 |
| 2004 | 292.9 | 266.4 | 243.9 | 199.5 | 137.6 |
| 2005 | 404.4 | 294.4 | 232.8 | 174.7 | 100.8 |
| 2006 | 324.2 | 246.7 | 200.8 | 153.0 | 95.4 |
| 2007 | 313.2 | 235.6 | 169.3 | 125.2 | 66.2 |
| 2008 | 263.8 | 289.6 | 241.8 | 178.7 | 128.4 |
| 2009 | 114.4 | 125.3 | 95.8 | 67.9 | 45.2 |

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

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

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

| | Crude oil | | | | | Petroleum products | | | | |
|------|------------|---------|----------|------------|----------|--------------------|---------|------------|--------------|--|
| | Carib/USAC | Med/NWE | WAF/USGC | Gulf/Japan | Gulf/NWE | Gulf/Japan | Med/Med | Carib/USAC | S'pore/Japan | |
| 1999 | 0.75 | 0.88 | 0.95 | 0.71 | 1.11 | 1.98 | 0.59 | 0.92 | 1.16 | |
| 2000 | 1.49 | 1.44 | 2.01 | 1.50 | 2.27 | 3.03 | 0.84 | 1.35 | 1.84 | |
| 2001 | 1.29 | 1.35 | 1.62 | 1.28 | 1.91 | 3.55 | 0.99 | 1.43 | 2.12 | |
| 2002 | 0.93 | 1.53 | 1.12 | 0.80 | 1.18 | 2.54 | 0.69 | 0.98 | 1.42 | |
| 2003 | 1.37 | 1.51 | 1.88 | 1.52 | 2.16 | 3.24 | 0.96 | 1.22 | 1.83 | |
| 2004 | 1.89 | 1.79 | 2.79 | 2.56 | 3.66 | 3.65 | 1.21 | 1.69 | 2.20 | |
| 2005 | 2.07 | 1.76 | 2.27 | 1.86 | 2.79 | 4.99 | 1.31 | 1.69 | 2.86 | |
| 2006 | 1.85 | 2.15 | 3.05 | 2.31 | 3.30 | 6.22 | 1.36 | 1.96 | 3.62 | |
| 2007 | 1.60 | 1.51 | 2.74 | 2.20 | 2.68 | 4.44 | 1.76 | 2.49 | 2.82 | |
| 2008 | 2.15 | 3.14 | 4.17 | 3.35 | 4.06 | 6.45 | 2.56 | 2.81 | 3.22 | |
| 2009 | 1.03 | 1.58 | 2.09 | 1.43 | 1.70 | 2.98 | 1.29 | 1.35 | 1.38 | |

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 rates costs for major routes (\$/b)

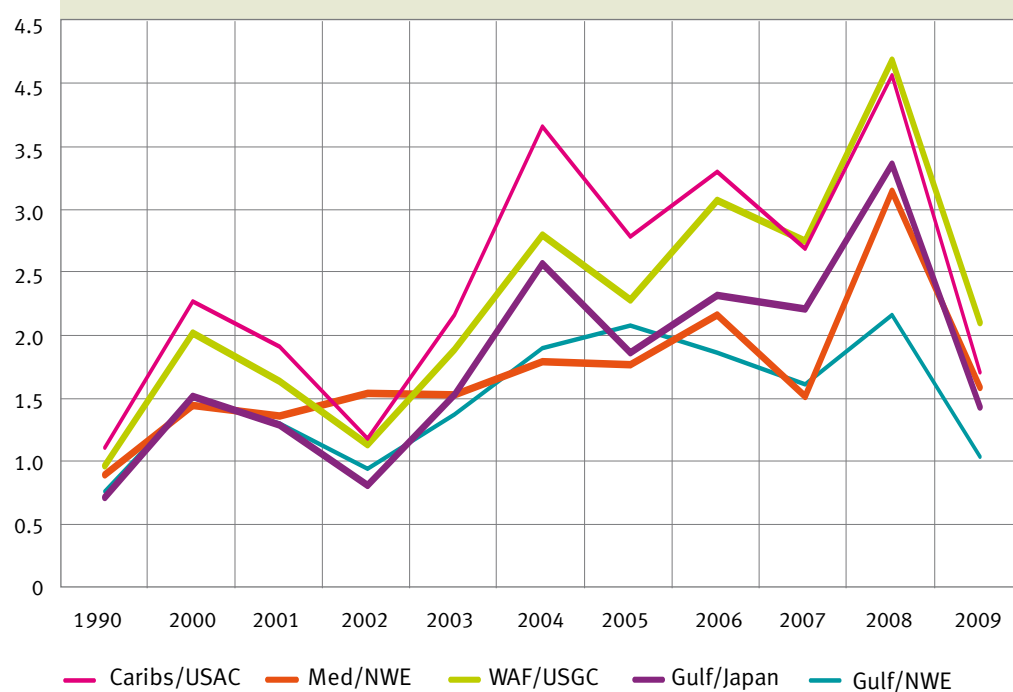


Table 4.8**Transportation****Spot tanker freight rates for all sizes**

| | Gulf/West | | Gulf/East | | Caribbean/USAC | | all routes | |
|------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | % of Worldscale | equivalent \$/t | % of Worldscale | equivalent \$/t | % of Worldscale | equivalent \$/t | % of Worldscale | equivalent \$/t |
| 1999 | 49 | 8.57 | 56 | 5.81 | 113 | 4.62 | 78 | 8.48 |
| 2000 | 86 | 15.00 | 112 | 12.05 | 217 | 9.83 | 146 | 15.46 |
| 2001 | 67 | 11.69 | 85 | 9.16 | 170 | 7.68 | 116 | 12.56 |
| 2002 | 40 | 7.99 | 60 | 7.25 | 125 | 6.10 | 85 | 10.48 |
| 2003 | 82 | 17.60 | 102 | 13.38 | 182 | 9.61 | 128 | 16.46 |
| 2004 | 116 | 21.88 | 155 | 22.35 | 245 | 24.99 | 175 | 23.61 |
| 2005 | 102 | 22.49 | 116 | 15.59 | 225 | 13.16 | 151 | 21.31 |
| 2006 | 89 | 25.06 | 106 | 18.59 | 203 | 13.98 | 134 | 23.34 |
| 2007 | 63 | 18.64 | 79 | 14.00 | 169 | 11.98 | 107 | 18.87 |
| 2008 | 99 | 29.78 | 136 | 24.56 | 233 | 15.76 | 156 | 23.37 |
| 2009 | 31 | 12.46 | 42 | 10.48 | 83 | 7.55 | 52 | 10.16 |

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

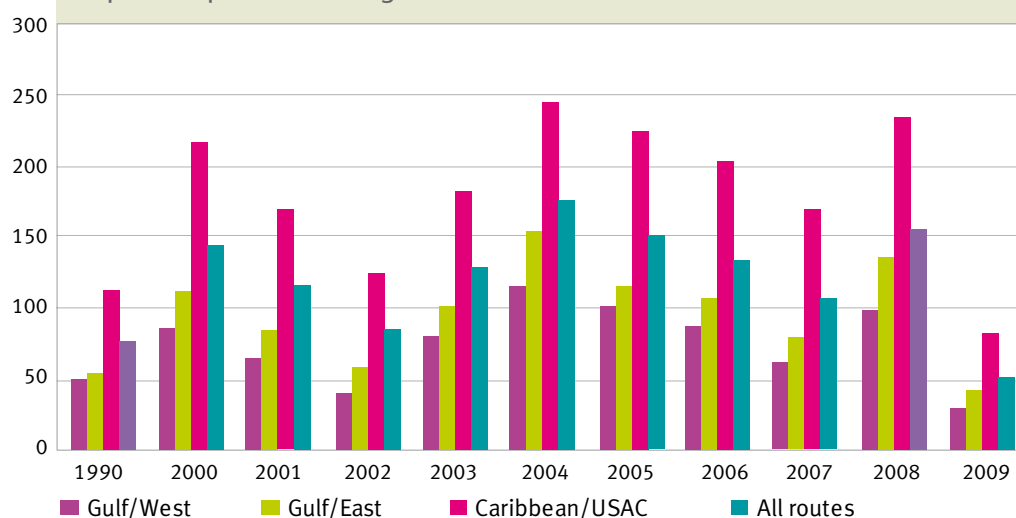
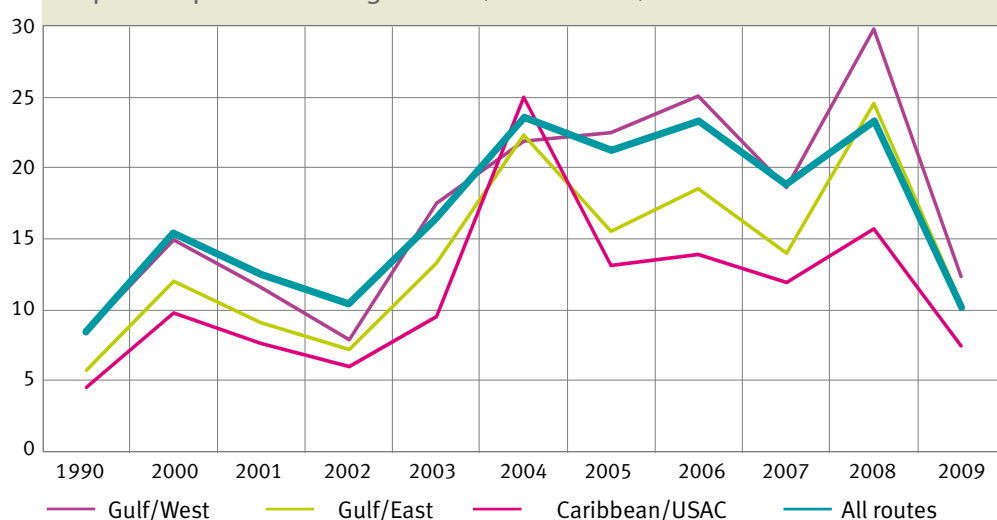
Graph 4.5: Spot tanker freight rates (% of Worldscale)**Graph 4.6: Spot tanker freight costs (% of Worldscale)**

Table 4.9
Transportation

Crude oil pipelines in OPEC Members, 2009

| | Owner or operator | Length (miles) | Diameter (inches) | Capacity (m t) | Volume (m t) |
|-------------------------------------|------------------------------|-------------------|----------------------|-------------------|-----------------|
| Algeria | | | | | |
| Beni Mensour/Algiers | Sonatrach/TRC | 90 | 20 | na | na |
| Haoud El Hamra/Arzew | Sonatrach/TRC | 498/510 | 28/34 | 45 | 33 |
| Haoud El Hamra/Béjaia | Sonatrach/TRC | 415 | 24/22 | 12 | 5.3 |
| Haoud El Hamra/Skikda | Sonatrach/TRC | 401 | 34 | 30 | 20 |
| El Borma/Mesdar | Sonatrach/TRC | 169 | 20 | 12 | 7.3 |
| Hassi Berkine/Haoud El Hamra | Sonatrach/TRC | 363 | 30 | 30 | 22 |
| In Aménas/Algerian-Tunisian border | Sonatrach/TRC | 165 | 24 | 7.8 | 2.14 |
| In Aménas/Haoud El Hamra | Sonatrach/TRC | 391 | 30 | 8.9 | 4.8 |
| Mesdar/Haoud El Hamra | Sonatrach/TRC | 67 | 26 | na | na |
| Angola | | | | | |
| East Kokongo/Malongo terminal | Chevron | 39 | 24 | na | na |
| Essungo/Lombo East terminal | Texpan | 50 | 16 | na | na |
| GS-N/Malongo terminal | Chevron | 21 | 30 | na | na |
| Ecuador | | | | | |
| Lago Agrio/Esmeraldas | Transpecuador (state) | 305 | 26/20/26 | 19.59 | 17.11 |
| Lago Agrio/Esmeraldas | Pesados Ecuador SA (private) | 301 | 24/36 | 24.66 | 6.16 |
| IR Iran | | | | | |
| Maron/Isfahan | NIOC | 702 | 30/32 | na | na |
| Ahwaz/Rey | NIOC | 457 | 30/26 | na | na |
| Isfahan/Rey | NIOC | 599 | 24 | na | na |
| Maile 40/Abadan | NIOC | 166 | 12 | na | na |
| Maile 40/Khordoragh | NIOC | 69 | 16 | na | na |
| Neka/Sari | NIOC | 60 | 16/32 | na | na |
| Rey/Tabriz | NIOC | 1,246 | 16 | na | na |
| Sari/Rey | NIOC | 456 | 30/32 | na | na |
| Tang-e-Fani/Kermanshah | NIOC | 353 | 16 | na | na |
| Iraq | | | | | |
| Kirkuk/Salaheldien | OPC | 84 | 26 | na | na |
| Baiji (K2)/Daura | OPC | 213 | 12/16 | na | na |
| East Baghdad/Daura | OPC | 60 | 16 | na | na |
| Nafut Khana/Daura | OPC | 130 | 12 | na | na |
| Strategy/Theqar refinery | OPC | 32 | 20 | na | na |
| Strategy/Daura refinery | OPC | 110 | 18 | na | na |
| Strategy/Musaib PWR St | OPC | 48 | 16 | na | na |
| Strategy/Nasuriyah PWR St | OPC | 35 | 20 | na | na |
| SP Libyan AJ | | | | | |
| Ora-Beda gathering/Aseida gathering | Harouge | 136 | 24 | 0.75 | na |
| Amal/Ras Lanuf | Harouge | 2 x 273 | 36/30 | 1.32/2.38 | na |

Table 4.9

Transportation

Crude oil pipelines in OPEC Members, 2009

| | Owner or operator | Length (miles) | Diameter (inches) | Capacity (m t) | Volume (m t) |
|---------------------------------------|----------------------|-------------------|----------------------|-------------------|-----------------|
| SP Libyan AJ (<i>cont'd</i>) | | | | | |
| Aseida gathering/Ras Lanuf | Harouge | 88 | 30 | 1.24 | na |
| Asharara/Az-Zawiyah | Akakus | 727 | 30 | 1 | na |
| Asharara/Mellitah | Mellitah Oil and Gas | 727 | 30 | 1 | na |
| Bahi Gathering/Es-Sider | Waha Oil | 71 | 30 | 3.14 | na |
| Bahi Gathering/Es-Sider (parallel) | Waha Oil | 71 | 30 | 2.09 | na |
| Bu-Attifel/Intisar (103A) | Mellitah Oil and Gas | 133 | 30 | 1.8 | na |
| Dahra/Bahi gathering | Waha Oil | 69 | 30 | 3.42 | na |
| Dor Marada/Ora | Harouge | 82 | 10 | 0.1 | na |
| El-Feel/Asharara | Mellitah Oil and Gas | 75 | 24 | 1.63 | na |
| Faregh/Gialo | Waha Oil | 65 | 12 | 0.25 | na |
| Gialo/Waha | Waha Oil | 152 | 30 | 1.99 | na |
| Hamada/Az-Zawiyah | Arabian Oil | 387 | 18 | 0.45 | na |
| Hofra/Aseida gathering | Harouge | 57 | 24 | 0.75 | na |
| Intisar (A103)/Azzuwaytinah | Zuetina | 220 | 40 | 4.98 | na |
| Magid/Nafoora | Arabian Oil | 105 | 14 | 0.28 | na |
| Messla/Amal | Arabian Oil | 206 | 42 | 2.37 | na |
| Nafoora/Amal | Arabian Oil | 52 | 32 | 1.62 | na |
| Nasser/Al-Brayqah | Sirte | 172 | 36 | 3.88 | na |
| Raguba/Nasser Al-Brayqah line | Sirte | 88 | 20 | 0.75 | na |
| Rimal/Bu-Attifel | Mellitah Oil and Gas | 76 | 12 | 0.26 | na |
| Sabah/Zella | Zuetina | 91 | 16 | 0.2 | na |
| Samah/Dahra | Waha Oil | 184 | 32 | 3.16 | na |
| Sarir/Tobruk | Arabian Oil | 513 | 34 | 2.49 | na |
| Waha/Samah | Waha Oil | 64 | 24 | 1.5 | na |
| Waha/Zaggut | Waha Oil | 43 | 24 | 2.47 | na |
| Zaggut/Es-Sider | Waha Oil | 267 | 24 | 1.1 | na |
| Zaggut/Samah | Waha Oil | 35 | 24 | 1.38 | na |
| Zella/Hofra | Zuetina | 113 | 20 | 0.37 | na |
| | | | | | |
| Nigeria | | | | | |
| Alakiri/Bonny | SPDC | 33 | 24 | na | na |
| Apoi PP/SPM | Texaco | 24 | 12.75 | na | na |
| Bonny/Ph refinery | NNPC/PPMC | 34.38 | 24 | na | na |
| Brass terminal/BOP | NAOC | 26 | 36 | na | na |
| BT/SPM | SPDC | 31 | 48 | na | na |
| Escravos/Wari/Kaduna | NNPC/PPMC | 420.94 | 24–16 | na | na |
| Forcados/SPM | SPDC | 27 | 48 | na | na |
| Idoho PP/Qit | MPNU | 48 | 24 | na | na |
| Middleton PP/SPM | Texaco | 28 | 10.75 | na | na |
| Ogodo/Brass terminal | NAOC | 99 | 24 | na | na |
| Oso/Qit | MPNU | 31 | 18 | na | na |
| QIT/Oso SPM | MPNU | 37 | 36 | na | na |
| Rapele/Forcados | SPDC | 49 | 28 | na | na |

Table 4.9
Transportation

Crude oil pipelines in OPEC Members, 2009

| | Owner or operator | Length (miles) | Diameter (inches) | Capacity (m t) | Volume (m t) |
|----------------------------------|-------------------|-------------------|---------------------------------|-------------------|-----------------|
| Nigeria (<i>cont'd</i>) | | | | | |
| Tebidaba/Brass terminal | NAOC | 57 | 24 | na | na |
| TNP/Bonny | SPDC | 80 | 36 | na | na |
| Qatar | | | | | |
| Mile 32/Messaieed | QP | 36 | 20 | na | na |
| Mile 42/Messaieed | QP | 26 | 24 | na | na |
| DP1/Halul Island | Total | 40.3 | 2 x 12 | na | na |
| DP2/Halul Island | Total | 40.3 | 20 | na | na |
| PS2/Halul Island | QP | 16.4 | 14 | na | na |
| PS3/Halul Island | QP | 43.5 | 20 | na | na |
| PS1/Halul Island | QPQL | 20 | 20 | na | na |
| Saudi Arabia | | | | | |
| 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, 3 x 34 | 30/32, 46/48, 30, 40/42 | na | na |
| Dhahran/Bacco refinery | Saudi Aramco | 40 | 12/18/20/22 | na | na |
| Abqaiq plants/Dhahrab | Saudi Aramco | 39 | 14 | na | na |
| Abqaiq plants/Dhahrab | Saudi Aramco | 38 | 14 | na | na |
| Abqaiq plants/Dhahrab | Saudi Aramco | 38 | 14 | na | na |
| Berri junction/Ras Tanura | Saudi Aramco | 37 | 40/42 | na | na |
| Km 50/Qatif junction | Saudi Aramco | 31 | 46/48 | na | na |
| Wafra field/Mina Saud (Al-Zour) | SAC | 31, 31, 31 | 10, 16, 20 | na | na |
| UA-1 km 49/Abqaiq plants | Saudi Aramco | 30 | 30/38/40 | na | na |
| Aindar/Abqaiq plants | Saudi Aramco | 28, 28, 28 | 20/22, 24/26/28, 24/26/30/32 | na | na |
| Khobar valves/Bapco refinery | Saudi Aramco | 26 | 12 | na | na |
| Qatif junction/Juaymah terminal | Saudi Aramco | 24, 24, 24 | 48, 46/48, 46/48 | na | na |

Table 4.9**Transportation**

Crude oil pipelines in OPEC Members, 2009

| | Owner or operator | Length (miles) | Diameter (inches) | Capacity (m t) | Volume (m t) |
|-------------------------------|-------------------|-------------------|----------------------|-------------------|-----------------|
| United Arab Emirates | | | | | |
| Murban/Jabel Dhanna | ADCO | 3 x 71 | 24, 36, 36 | na | na |
| Umm Shaif/Das Island | ADMA | 21 | 36 | na | na |
| Lower Zakum/Das Island | ADMA | 57 | 30 | na | na |
| Upper Zakum/Zirku Island | ZADCO | 40 | 42 | na | na |
| Venezuela | | | | | |
| <i>Western:</i> | | | | | |
| Bachaquero/Puerto Miranda | PDVSA | 66 | 30, 31 | 15.2 | 10.81 |
| Bachaquero/Puerto Miranda | PDVSA | 66 | 30, 34 | 11.81 | 6.5 |
| Pto Miranda/Cardon | PDVSA | 141 | 30 | 13.74 | 12.16 |
| Pta Palma/Pto Mda | PDVSA | 42 | 24 | 6.02 | 4.86 |
| Ule (Linea 1)/Amuay | PDVSA | 142 | 24, 26 | 22.59 | 8.73 |
| Ule (Linea 2)/Amuay | PDVSA | 142 | 26 | 23.46 | 11 |
| Lagunillas/La Salina | PDVSA | 26 | 34 | 7.46 | 5.34 |
| <i>Eastern:</i> | | | | | |
| Pt Oficina/Pt la Cruz | PDVSA | 96 | 30 | 22.15 | 22.15 |
| Pt Oficina/Pt la Cruz | PDVSA | 96 | 26 | 8.11 | 5.47 |
| Pt Oficina/Pt la Cruz | PDVSA | 62 | 16 | 5.9 | 0.79 |
| ERB-II/PTA | PDVSA | 34 | 16 | 2.98 | 0.99 |
| Pt Oficina/Pt Anaco | PDVSA | 34 | 16 | 2.98 | 0.99 |
| Pt Traviasso/Taej | PDVSA | 94 | 26 | 29.87 | 8.9 |
| Pt Traviasso/ErbII | PDVSA | 62 | 16 | 5.97 | 4.7 |
| ERB-II/Pt La Cruz | PDVSA | 32 | 16 | 6.97 | 4.7 |
| Pt Traviasso/Naricual | PDVSA | 83 | 30 | 38.34 | 32.26 |
| ERB-II/Taej | PDVSA | 29 | 36 | 23.9 | 3.7 |
| Pt Oficina/Jose Palmichal | PDVSA | 93 | 42 | 34.85 | 18.64 |
| Jose Palmichal/Pt Oficina | PDVSA | 93 | 20 | 8.96 | 4.73 |
| EPM-1/Pt Oficina | PDVSA | 91 | 36 | 15.93 | 1.82 |
| <i>South:</i> | | | | | |
| Mata Larga/Mayor Silvester | PDVSA | 165 | 20 | 8.46 | 2.66 |
| Est Mayor Silvestre/EI Palito | PDVSA | 212 | 20 | 7.46 | 4.33 |
| La Victoria/Las Monas | PDVSA | 40 | 16 | 0.57 | 0.56 |
| <i>Others:</i> | | | | | |
| Copem/Pt Oficina | na | 142 | 30 | na | na |
| Pt Oficina/Jose | na | 153 | 42 | na | na |
| COB/Pt Oficina | na | 55 | 30 | na | na |
| COPEM/PTO | na | 142 | 30 | na | na |
| Pt Oficina/Jose | na | 153 | 42 | na | na |
| ZPS/JPS | na | 198 | 36 | na | na |

Notes: Figures as at year-end.

Table 4.10
Transportation

Gas pipelines in OPEC Members, 2009

| | Owner or operator | Length (miles) | Diameter (inches) | Capacity | Amount transported (1,000 scm/yr) |
|---|----------------------|-------------------|----------------------|-----------|---|
| Algeria | | | | | |
| Hassi R'Mel/Arzew | Sonatrach/TRC | 316 | 20/24 | na | na |
| Hassi R'Mel/Arzew (GZ1-GZ3) | Sonatrach/TRC | 315, 2 x 318 | 40, 40, 42 | na | na |
| Hassi R'Mel/Skikda | Sonatrach/TRC | 2 x 356 | 40/42 | na | na |
| Hassi R'Mel/Qued Safsaf | Sonatrach/TRC | 340 | 3 x 48 | na | na |
| Hassi R'Mel/Iseer | Sonatrach/TRC | 271 | 42 | na | na |
| Hassi R'Mel/El Aricha | Sonatrach/TRC | 324 | 48 | na | na |
| Sougueur/Hadjret Enouss | Sonatrach | 168 | 42 | na | na |
| Hassi R'Mel/Sougueur | Sonatrach | 186 | 48 | na | na |
| Sougueur/Arzew | Sonatrach | 135 | 48 | na | na |
| Mocta Douz/Beni Saf | Sonatrach | 76 | 48 | na | na |
| Hassi R'Mel/Skikda — El Kala | Sonatrach | 487 | 48 | na | na |
| Hassi R'Mel/Beni Saf | Sonatrach | 351 | 48 | na | na |
| Angola | | | | | |
| | na | na | na | na | na |
| Ecuador | | | | | |
| Amistad/Válvula de Playa | EDC Ecuador Ltd | 42 | 13 | 1,188,599 | 296,340 |
| IR Iran | | | | | |
| Bid Boland-1 refinery/Astara | | 685.4042 | 56 | 110,000 | na |
| Kangan/Gazvin | | 685.4042 | 42, 48 | 110,000 | na |
| Asaluyeh/Rasht (Gilan province) | | 264.095 | 56 | 110,000 | na |
| Asaluyeh/Saveh (Markazi province) | | 711.503 | 56 | 110,000 | na |
| Asaluyeh/Aghajari oilfield | | 313.1856 | 42 | 95,000 | na |
| Asaluyeh/Bid Boland-1 refinery/Dehgolan | | 306.3502 | 56 | 110,000 | na |
| Asaluyeh/Iranshahr | | 560.5028 | 56 | 100,000 | na |
| Asaluyeh/Tehran | | 668.005 | 56 | 110,000 | na |
| Asaluyeh/Astara | | 1157.6682 | 56 | 110,000 | na |
| Asaluyeh/Tiran (Esfahan province) | | 108 | 56 | | |
| Iraq | | | | | |
| North Gas/Baiji | OPC | 90 | 24 | 890,000 | 721,097,767 |
| Baiji-K3/Al Kaem | OPC | 268 | 16 | 241,000 | 7,547,442 |
| Baiji/Al Mushraq | OPC | 131 | 18 | 740,000 | 482,049,270 |
| North Gas Co/K1 | OPC | 21 | 18 | 526,400 | 532,092,500 |
| North Gas Co/Taji | OPC | 272 | 16 | 308,700 | 493,561,996 |
| Taji/South Baghdad PWR St | OPC | 35 | 18 | 200,000 | 2,348,000 |
| Strategy/Kabesa Cement | OPC | 24 | 10 | 67,100 | — |
| Strategy/Hilla PWR St | OPC | 45 | 16 | 70,000 | 102,318,120 |
| Strategy/Najaf PWR St | OPC | 23 | 16 | 210,000 | 133,146,315 |
| North Rumeila/Khor Al-Zubair | OPC | 54 | 42 | 1,000,000 | 909,958,055 |
| Khor Al-Zubair/Hartha PWR St | OPC | 48 | 24 | 480,800 | 290,387,766 |
| Rumeila/Nasriyaha | OPC | 134 | 24 | 1,042,000 | — |
| Trans-Iraq/Nasriyaha | OPC | 292 | 42 | 1,103,300 | — |
| SP Libyan AJ | | | | | |
| Wafa/Mellitah | Mellitah Oil and Gas | 525 | 32 | 127,443 | na |
| Bahr Assalam/Mellitah | Mellitah Oil and Gas | 110 | 36 | 252,053 | na |
| Mellitah/Gelta (Italy) | Green Stream | 540 | 32 | 300,198 | na |

Table 4.10**Transportation****Gas pipelines in OPEC Members, 2009**

| | Owner or operator | Length (miles) | Diameter (inches) | Capacity | Amount transported |
|---------------------------------------|-------------------------|-------------------|----------------------|----------------|-----------------------|
| SP Libyan AJ (<i>cont'd</i>) | | | | | |
| | | | | (1,000 scm/yr) | |
| Intisar (103A)/Brega | Zueitina | 207 | 42 | 424,809 | na |
| 103D/103A | Zueitina | 26 | 40 | 178,420 | na |
| Bu-Attifel/Intisar (103A) | Mellitah Oil and Gas | 133 | 34 | 113,282 | na |
| Bouri/Bahr Assalam | Mellitah Oil and Gas | 20 | 10 | 38,799 | na |
| Waha/Nasser | Waha | 110 | 24 | 56,641 | na |
| Faregh/Intisar (103A) | Waha | 110 | 24 | 70,801 | na |
| Brega/Benghazi | Sirte Oil | 247 | 34 | 141,603 | na |
| Brega/Khoms | Sirte Oil | 644 | 34 | 198,244 | na |
| Khoms/Tripoli | Sirte Oil | 110 | 34 | 198,244 | na |
| Tripoli/Mellitah | Sirte Oil | 115 | 34 | 198,244 | na |
| Nasser/Brega | Sirte Oil | 172 | 36 | 148,683 | na |
| Attahaddy/km-91.5 | Sirte Oil | 25 | 30 | 283,206 | na |
| Km-81.5/Brega | Sirte Oil | 82 | 30 | 84,962 | na |
| Raguba/km-110 | Sirte Oil | 88 | 20 | 39,649 | na |
| Intisar (103A)/Sahel | Sirte Oil | 80 | 30 | 198,244 | na |
| Sahel/km-81.5 | Sirte Oil | 49 | 30 | 195,412 | na |
| Km-91.5/Brega | Sirte Oil | 92 | 36 | 212,404 | na |
| Jakhira/Intisar (103A) | Wintershall | 80 | 20 | 24,073 | na |
| Nigeria | | | | | |
| Eriemu/Aladja | NGC | 33.2 | 6 | 634,381 | 915,942 |
| Oben/Ajaokuta Steel | NGC | 196.2 | 24 | 1,812,518 | 255 |
| Utorogu KP 11/PHCN Delta IV Ughelli | NGC | 331 | 36 | 9,968,847 | 451,555 |
| Ewekoro Node/Wapco Ewekoro | NGC | 23 | 14 | 407,816 | 34,184,485 |
| Alagbado Tee (PS 5)/PHCN Papalanto | NGC | 31 | 24 | 1,903,144 | 838,769 |
| Alagbado Tee (PS 5)/SNG | NGC | 69 | 12, 6, 4 | 380,629 | 7,478,203 |
| Ajaokuta KP/Obajana | NGC | 91 | 18 | 815,633 | 31,019,542 |
| Oben/Sapele M/S | NGC | 35.8 | 18 | 1,087,511 | 40,239 |
| Imo River/Aba Industries | NGC | 32 | 12 | 317,191 | 4,031,419 |
| Alakiri/Ikot-Abasi | NGC | 117 | 14 | 1,450,014 | 6,787,296 |
| Ubeta Node/Rumuhi Node | Nigeria LNG Ltd | 20.51 | 28 | na | na |
| Soku gas plant/Rumuji Node | Nigeria LNG Ltd | 25.48 | 28 | na | na |
| Rumuji Node/Bonny | Nigeria LNG Ltd | 53.44 | 36 | na | na |
| Soku gas plant/Bonny | Shell PDC Ltd | 62.14 | 40 | na | na |
| Bonga/Riser platform | Shell PDC Ltd | 55.92 | 16 | na | na |
| Riser platform/Bonny | Shell PDC Ltd | 164.04 | 32 | na | na |
| Obiafu/Rumuji Nonde | Nigeria Agip Oil Co Ltd | 38.53 | 24 | na | na |
| Rumuji Nonde/Bonny | Nigeria Agip Oil Co Ltd | 50.95 | 36 | na | na |
| Amenam/Bonny | Total EPNG Ltd | 34.18 | 24 | na | na |
| Qatar | | | | | |
| Ras-Laffan (Qatar)/Abu Dhabi (UAE) | Dolphin Energy | 230 | 48 | na | na |
| Saudi Arabia | | | | | |
| Abqaiq/Yanbu | Saudi Aramco | 741 | 48 | na | na |
| Pump Station and A47/Yanbu | Saudi Aramco | 600 | 42/48/56 | na | na |
| UBTG-1 km 0/Berri | Saudi Aramco | 155 | 56 | na | na |
| UBTG-1 km 0/Berri | Saudi Aramco | 154 | 36/38/40/42 | na | na |
| UBTG-1 km 56/AY-1 KP 916 | Saudi Aramco | 152 | 56 | na | na |

Table 4.10
Transportation

Gas pipelines in OPEC Members, 2009

| | Owner or operator | Length (miles) | Diameter (inches) | Capacity | Amount transported |
|---------------------------------------|-------------------|-------------------|----------------------|----------------|-----------------------|
| Saudi Arabia (<i>cont'd</i>) | | | | | |
| | | | | (1,000 scm/yr) | |
| 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 |
| United Arab Emirates | | | | | |
| Habshan/Maqta | ADNOC | 81 | 42 | na | na |
| Bab/Maqta | ADNOC | 83 | 30 | na | na |
| Bab/Ruwais | ADNOC | 68 | 30 | na | na |
| Maqta/Taweelah | ADNOC | 2 x 33 | 24, 36 | na | na |
| Maqta/Al Ain | ADNOC | 100 | 30 | na | na |
| Murgam/Jabel Ali | Dubai-Government | 47 | 24 | na | na |
| Sajaa/Sharjah | Emmarat | 27 | 18/6/4 | na | na |
| Venezuela | | | | | |
| COTp (1)/Muscar F/S | PDVSA | 12.6 | 26 | 6,201,423 | — |
| COTe (2)/Muscar | PDVSA | 12.6 | 36 | 9,302,135 | 930,213 |
| Muscar (2)/Soto Lazo | PDVSA | 80.2 | 26 | 8,268,564 | 7,066,666 |
| Santa Barbara/Aguassay | PDVSA | 30.4 | 26 | 4,134,282 | 3,980,208 |
| Santa Barbara/Aguassay | PDVSA | 30.4 | 36 | 8,268,564 | 7,323,533 |
| La Pica/Tablazo | PDVSA | 40.81 | 16 | 1,860 | 310 |
| La Pica/Tablazo | PDVSA | 40.81 | 16 | 1,860 | 413 |
| La Pica/Tablazo | PDVSA | 41.16 | 20 | 2,274 | 826 |
| Lama/La Pica | PDVSA | 36.56 | 16 | 1,860 | 310 |
| PCTJ-3/Bajo Grande | PDVSA | 25.62 | 12 | 1,445 | 413 |
| Casigua/La Fria | PDVSA | 75 | 8 | 155 | 62 |
| Casigua/La Fria | PDVSA | 47.25 | 12 | 124 | 62 |
| Morichal (EPM-1)/Pto Ordaz (EVMOR) | PDVSA | 19.8/31.9 | 16 | 1,208 | 516,747 |

Table 4.11**Transportation****Petroleum product pipelines in OPEC Members, 2009**

| | Owner or operator | Length (miles) | Diameter (inches) | Capacity (m t) | Volume (m t) |
|-------------------------------------|-------------------|-------------------|----------------------|-------------------|-----------------|
| Algeria | | | | | |
| Alger/Blida | Naftal | 30 | 10 | na | na |
| Skikda/Khroub | Naftal | 56 | 12 | 1.6 | na |
| Arzew/Sidi Bel Abbès | Naftal | 45 | 12 | na | na |
| Sidi Bel Abbès/Sidi Abdeli | Naftal | 32 | 10 | 1.4 | na |
| Skikda/Khroub | Naftal | 57 | 10 | 0.5 | na |
| Arzew/Sidi Bel Abbès | Naftal | 45 | 10 | na | na |
| Sidi Bel Abbès/Tlemcen | Naftal | 44 | 8 | 0.3 | na |
| Angola | | | | | |
| | na | na | na | na | na |
| Ecuador | | | | | |
| Esmeraldas/Santo Domingo | Petrocomercial | 101 | 16 | 3 | 0.44 |
| Santo Domingo/Beaterio (Quito) | Petrocomercial | 54 | 12 | 2.4 | 1.6 |
| Santo Domingo/Pascuales (Guayaquil) | Petrocomercial | 170 | 10 | 1.8 | 0.5 |
| Libertad/Barbasquillo/Guayaquil | Petrocomercial | 104 | 6 | 0.4 | 0.31 |
| Libertad/Pascuales (Guayaquil) | Petrocomercial | 78 | 10 | 0.7 | 0.42 |
| Shushufindi/Beaterio (Quito) | Petrocomercial | 187 | 6 | 0.3 | 0.28 |
| Quito/Ambato | Petrocomercial | 69 | 6 | 0.5 | 0.47 |
| IR Iran | | | | | |
| Mahshahr/Abadan | NIOC | 63 | 16 | na | na |
| Abadan/Ahwz | NIOC | 94 | 12, 16 | na | na |
| Ahwaz/Rey | NIOC | 510 | 10, 14, 10 | na | na |
| Ahwaz/Rey | NIOC | 469 | 16, 20, 16 | na | na |
| Isfahan/Rey | NIOC | 231 | 18 | na | na |
| Isfahan/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, 10 | na | na |
| Shahrood/Gorgan — Gonbad | NIOC | 103 | 8, 10 | na | na |
| Imam — Taghy/Torbat Haidar | NIOC | 58 | 8 | na | na |
| Rey/Sary | NIOC | 178 | 12, 16 | na | na |
| Iraq | | | | | |
| 1 Huzairan Depot | OPC | 98 | 12 x 2 16 x 69 | na | na |
| Baiji/HamamAlil | OPC | 167 | 16 | na | na |
| Baiji/Kirkuk | OPC | 86 | 12 | na | na |

Table 4.11
Transportation

Petroleum product pipelines in OPEC Members, 2009

| | Owner or operator | Length (miles) | Diameter (inches) | Capacity (m t) | Volume (m t) |
|---------------------------------------|-------------------|-------------------|----------------------|-------------------|-----------------|
| Iraq (cont'd) | | | | | |
| Baiji/T1 | OPC | 242 | 16 | na | na |
| Baiji/Mushahdah | OPC | 168 | 22 | na | na |
| Baiji/Mushahdah | OPC | 168 | 8 | na | na |
| Daura/Baghdad international airport | OPC | 28 | 8 | na | na |
| Duara/Rusafa | OPC | 51 | 10 | na | na |
| Hamam Alil/Felfel | OPC | 65 | 32 | na | na |
| Karkh/Habania | OPC | 156 | 16 x 31 12 x 125 | na | na |
| Khour Al-Zubair/Shuaiba | OPC | 45 | 8/10 | na | na |
| Mushahdah/Karkh | OPC | 111 | 12 | na | na |
| Mushahdah/Rusafa | OPC | 52 | 12 | na | na |
| Nasuria/Duara | OPC | 379 | 10/14 | na | na |
| Nasuria/Kut | OPC | 186 | 8 | na | na |
| North Gas/Salah Al-Dean refinery | OPC | 86 | 8 | na | na |
| Rusafa/Diala | OPC | 25.4 | 8 | na | na |
| Shuaiba/Nasuria | OPC | 162 | 14 | na | na |
| Shuaiba/Khour Al-Zubair | OPC | 47 | 8/10 | na | na |
| Shuaiba/Muftia | OPC | 21 | 10 | na | na |
| Shuaiba/Muftia | OPC | 21 | 6 | na | na |
| Shuaiba/Muftia | OPC | 21 | 8 | na | na |
| Kuwait | | | | | |
| Maa refinery/Suhan (Mogas) | KNPC | 20 | 12 | na | 2.05 |
| Maa refinery/Kafco | KNPC | 25 | 8 | na | 0.201 |
| Maa refinery/Suhan (kero and gas oil) | KNPC | 20 | 8 | na | 0.039 |
| Maa refinery/AI-Zour | KNPC | 52 | 18/16 | na | 8.1 |
| Shuaiba/Kafco | KNPC | 22 | 8 | 1.5 | 0.5 |
| Shuaiba/ML (unleaded gasoline) | KNPC | 22 | 10 | 1.8 | 0.36 |
| Shuaiba/Kafco LM (gas oil) | KNPC | 22 | 8 | 1.4 | 1.34 |
| SP Libyan AJ | | | | | |
| Azzawya/Alfateh | Elbrega Co | 55 | 16 | 2.4 | na |
| Azzawya/Alfateh | Elbrega Co | 55 | 10 | 1.8 | na |
| Azzawya/Janzour | Elbrega Co | 34 | 8 | 0.75 | na |
| Azzawya/Elwettia | Elbrega Co | 90 | 16 | 3.01 | na |
| Azzawya/Eljmail | Elbrega Co | 65 | 16 | 3.01 | na |
| Nigeria | | | | | |
| Warri/Benin/Auchi-Sul | NNPC/PPMC | 446 | 16 | na | na |
| Atlas Cove/Mosimi | NNPC/PPMC | 73 | 16 | na | na |
| Mosimi/LG/IB/IKJ | NNPC/PPMC | 174 | 6, 12 | na | na |
| Mosimi/Satellie | NNPC/PPMC | 29 | 8, 12 | na | na |
| Mosimi/Ore | NNPC/PPMC | 95 | 12 | na | na |
| Ibadan/Ilorin | NNPC/PPMC | 169 | 6 | na | na |

Table 4.11**Transportation****Petroleum product pipelines in OPEC Members, 2009**

| | Owner or operator | Length (miles) | Diameter (inches) | Capacity (m t) | Volume (m t) |
|--|-------------------|-------------------|----------------------|-------------------|-----------------|
| Nigeria (<i>cont'd</i>) | | | | | |
| Kaduna/Kano | NNPC/PPMC | 225 | 10 | na | na |
| Kaduna/Jos | NNPC/PPMC | 165 | 10, 12 | na | na |
| Suleja/Minna | NNPC/PPMC | 50 | 8 | na | na |
| Jos/Gombe/Maiduguri | NNPC/PPMC | 830 | 6, 8 | na | na |
| Port Harcourt/Enugu | NNPC/PPMC | 131 | 12 | na | na |
| Port Harcourt/Aba | NNPC/PPMC | 34 | 12 | na | na |
| Enugu/Makurdi | NNPC/PPMC | 167 | 8 | na | na |
| Enugu/Makurdi/Yola | NNPC/PPMC | 637 | 8 | na | na |
| Enugu/Auchi/Kaduna | NNPC/PPMC | 559 | 12 | na | na |
| Enugu/Auchi | NNPC/PPMC | 106 | 12 | na | na |
| | | | | | |
| Qatar | | | | | |
| Mesaieed/Doha | QP Refinery | 2 x 27 | 12, 18 | 4.2 | 2.96 |
| | | | | | |
| Saudi Arabia | | | | | |
| Dharan/Riyadh | Saudi Aramco | 246 | 20 | 173 | na |
| Riyadh/Qasim | Saudi Aramco | 225 | 16 | 80 | na |
| Yanbu/Madina | Saudi Aramco | 93 | 14 | 50 | na |
| Ras Tanura/Dhahran | Saudi Aramco | 66 | 20 | 200 | na |
| Ras Tanura/Dhahran | Saudi Aramco | 23, 22 | 12, 12 | 160 | na |
| Abqaiq/Alhasa | Saudi Aramco | 40 | 8 | 23 | na |
| | | | | | |
| United Arab Emirates | | | | | |
| Mussaffah/Ai Ain | Takreer | 101 | 10 | 0.85 | na |
| Mussaffah/Abu Dhabi airport | Takreer | 17 | 10 | 1.39 | na |
| Ruwais refinery/Mussaffah | Takreer | 129 | 16 | 3.87 | na |
| Abu Dhabi refinery/Mussaffah | Takreer | 10 | 12 | 3.1 | na |
| Abu Dhabi refinery LPG/Mussaffah | Takreer | 10 | 8 | 0.35 | na |
| Abu Dhabi refinery/Abu Dhabi airport | Takreer | 10 | 10 | 1.1 | na |
| | | | | | |
| Venezuela | | | | | |
| Puerto La Cruz/San Tome | PDVSA | 99 | 16 | 1.2 | 0.6 |
| San Tome/Maturin | PDVSA | 99 | 8 | 0.94 | 0.77 |
| San Tome/Puerto Ordaz | PDVSA | 124 | 12 | 1.2 | 0.74 |
| Puerto Ordaz/Ciudad Bolivar | PDVSA | 44 | 8 | 1.2 | 0.3 |
| Bajo Grande/San Lorenzo | PDVSA | 70 | 12 | 3.19 | 0.97 |
| San Lorenzo/El Vigia | PDVSA | 104 | 12 | 2.69 | 1.55 |
| Carenero Plant/Guatire plant | PDVSA | 45 | 16 | 3.28 | 2.48 |
| El Plaito Refinery/Yagua plant | PDVSA | 29 | 16 | 2.5 | 2.6 |
| El Palitio Refinery/Barquisimeto plant | PDVSA | 95 | 12 | 2.15 | 2.69 |

Notes: Figures as at year-end.

Section 5 Prices



Table 5.1

P r i c e s

Spot OPEC Reference Basket prices (\$/b)

| | Algeria | Angola | Ecuador | IR Iran | Iraq | Kuwait | SP Libyan | Nigeria | Qatar | Saudi | UAE | Venezuela | OPEC |
|------|---------------|----------|---------|------------|-------------|---------------|--------------|-------------|--------|------------|--------|--------------------|------------------|
| | Saharan Blend | Girassol | Oriente | Iran Heavy | Basra Light | Kuwait Export | AJ Ess Sider | Bonny Light | Marine | Arab Light | Murban | Merey ¹ | Reference Basket |
| 1999 | 18.12 | na | 16.95 | 16.93 | na | 16.75 | 18.04 | 18.07 | 17.38 | 17.45 | 17.89 | na | 17.48 |
| 2000 | 28.77 | na | 27.37 | 26.02 | na | 25.78 | 28.62 | 28.49 | 26.63 | 26.81 | 27.75 | na | 27.60 |
| 2001 | 24.74 | na | 21.78 | 21.67 | na | 21.37 | 24.70 | 24.50 | 23.23 | 23.06 | 24.02 | na | 23.12 |
| 2002 | 24.91 | 31.02 | 21.95 | 23.09 | 23.32 | 23.61 | 24.55 | 25.15 | 23.99 | 24.32 | 24.87 | na | 24.36 |
| 2003 | 28.73 | 28.33 | 25.42 | 26.34 | 26.60 | 26.89 | 28.21 | 28.77 | 27.05 | 27.69 | 28.25 | na | 28.10 |
| 2004 | 38.35 | 35.77 | 30.31 | 33.06 | 34.60 | 34.08 | 36.58 | 38.27 | 34.04 | 34.53 | 36.65 | na | 36.05 |
| 2005 | 54.64 | 51.33 | 43.43 | 47.99 | 48.33 | 48.66 | 52.62 | 55.67 | 50.49 | 50.21 | 54.09 | 40.53 | 50.64 |
| 2006 | 66.05 | 63.06 | 53.93 | 59.27 | 57.97 | 58.88 | 63.35 | 66.84 | 62.64 | 61.10 | 66.06 | 52.01 | 61.08 |
| 2007 | 74.66 | 70.88 | 61.55 | 67.06 | 66.40 | 66.35 | 71.41 | 75.14 | 69.30 | 68.75 | 72.87 | 61.80 | 69.08 |
| 2008 | 98.96 | 95.64 | 85.43 | 91.49 | 92.08 | 91.16 | 96.65 | 100.60 | 94.86 | 95.16 | 99.03 | 86.73 | 94.45 |
| 2009 | 62.35 | 61.81 | 55.84 | 60.62 | 60.50 | 60.68 | 61.45 | 63.25 | 62.38 | 61.38 | 63.78 | 55.90 | 61.06 |

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

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

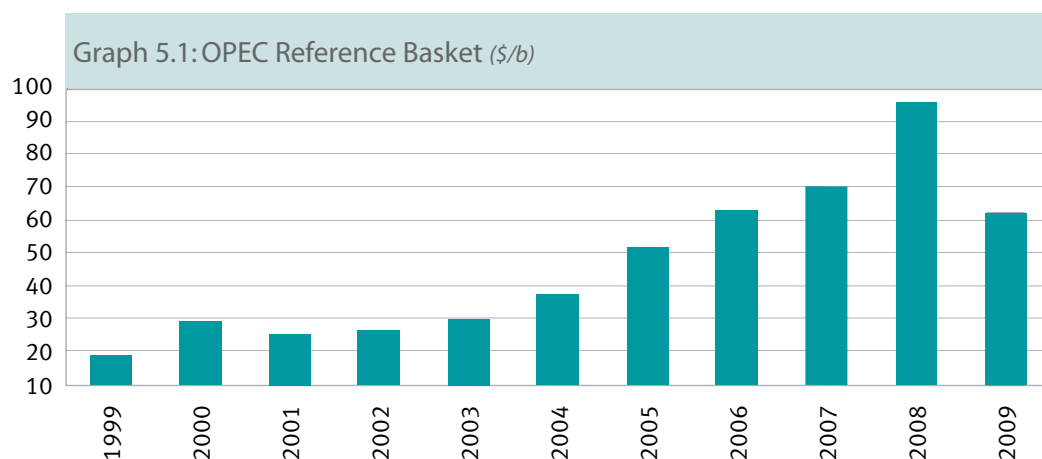


Table 5.2

P r i c e s

Spot crude oil prices (\$/b)

| | Algeria Zarzaitine | Angola Cabinda | IR Iran Iran Light | SP Libyan AJ Brega | Nigeria Forcados | Qatar Dukhan | Saudi Arabia Arab Heavy |
|------|-----------------------|-------------------|-----------------------|-----------------------|---------------------|-----------------|----------------------------|
| 1999 | 18.15 | 17.34 | 17.25 | 18.08 | 17.93 | 17.65 | 16.44 |
| 2000 | 28.82 | 27.22 | 26.75 | 28.65 | 28.40 | 26.95 | 25.25 |
| 2001 | 24.86 | 22.83 | 22.90 | 24.70 | 24.24 | 23.74 | 21.90 |
| 2002 | 25.06 | 24.27 | 23.52 | 24.96 | 25.05 | 24.37 | 23.38 |
| 2003 | 28.99 | 28.01 | 26.89 | 28.89 | 28.65 | 27.44 | 26.43 |
| 2004 | 38.53 | 35.54 | 34.60 | 38.35 | 38.10 | 36.05 | 31.14 |
| 2005 | 54.87 | 51.20 | 50.66 | 54.22 | 55.60 | 53.46 | 45.28 |
| 2006 | 66.31 | 62.07 | 61.07 | 65.04 | 67.07 | 65.39 | 56.82 |
| 2007 | 74.16 | 69.65 | 69.30 | 72.93 | 74.49 | 72.33 | 64.18 |
| 2008 | 99.33 | 94.29 | 94.66 | 98.12 | 101.42 | 98.39 | 88.12 |
| 2009 | 62.63 | 61.42 | 61.25 | 62.16 | 63.35 | 62.86 | 60.25 |

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

Graphs 5.2: Differentials of selected spot crude oil prices to OPEC Reference Basket (\$/b)

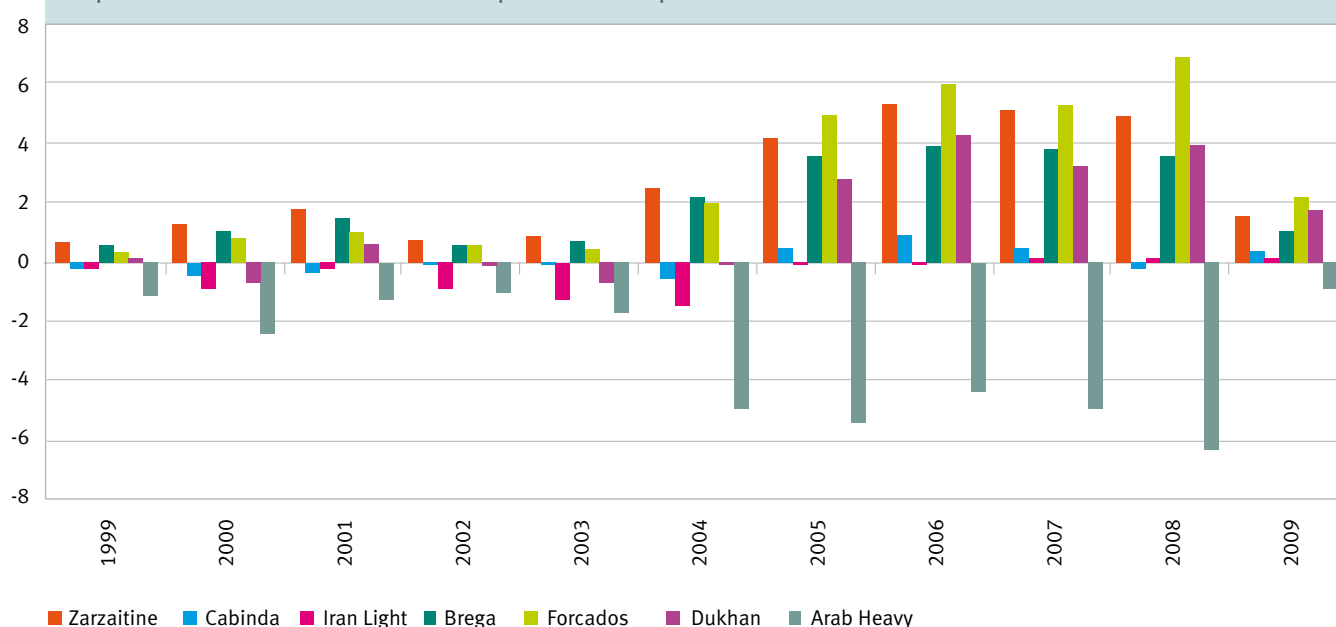


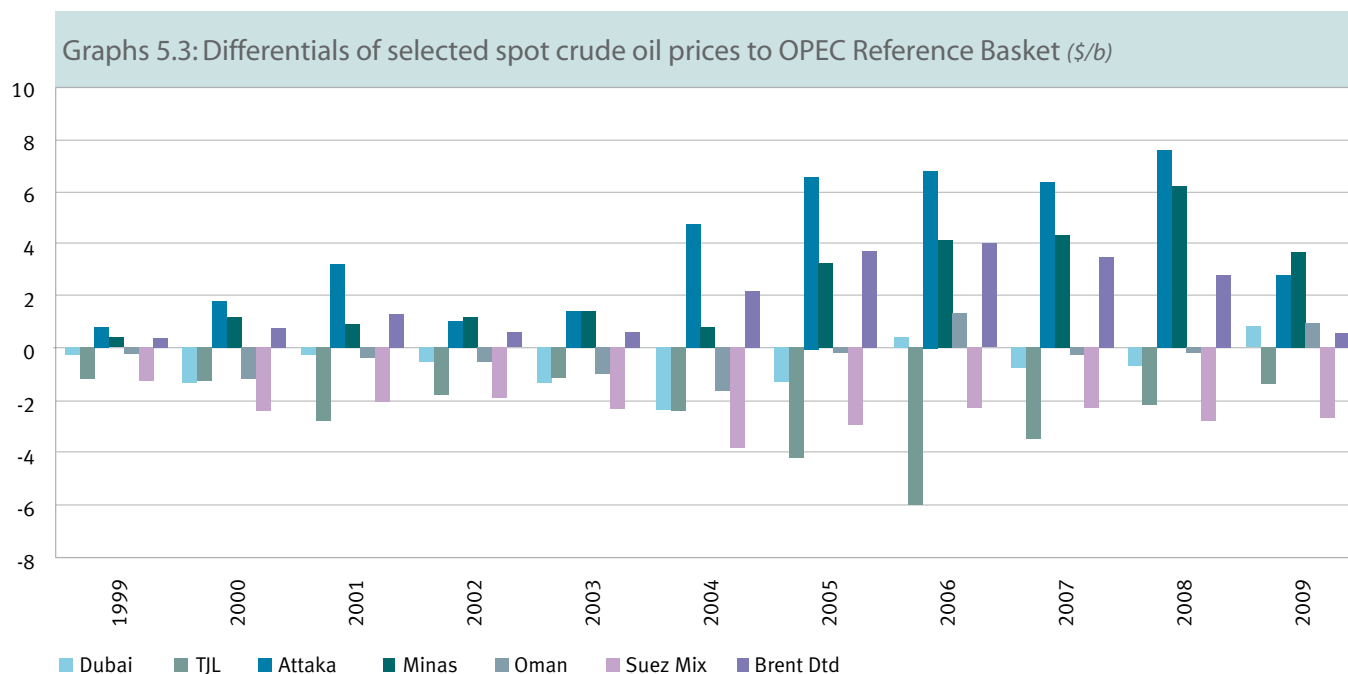
Table 5.2

P r i c e s

Spot crude oil prices (\$/b)

| | UAE Dubai | Venezuela TJL | Indonesia Attaka | Indonesia Minas | Oman Oman | Egypt Suez Blend | UK Brent Dtd |
|------|--------------|------------------|---------------------|--------------------|--------------|---------------------|-----------------|
| 1999 | 17.24 | 16.31 | 18.34 | 17.84 | 17.27 | 16.19 | 17.91 |
| 2000 | 26.25 | 26.31 | 29.45 | 28.75 | 26.50 | 25.16 | 28.44 |
| 2001 | 22.83 | 20.35 | 26.45 | 24.11 | 22.75 | 21.09 | 24.46 |
| 2002 | 23.83 | 22.61 | 25.38 | 25.60 | 23.94 | 22.45 | 25.03 |
| 2003 | 26.77 | 26.97 | 29.58 | 29.52 | 27.14 | 25.76 | 28.81 |
| 2004 | 33.66 | 33.66 | 40.87 | 36.85 | 34.35 | 32.19 | 38.23 |
| 2005 | 49.36 | 46.37 | 57.26 | 54.01 | 50.48 | 47.71 | 54.44 |
| 2006 | 61.54 | 55.07 | 67.91 | 65.23 | 62.59 | 58.74 | 65.16 |
| 2007 | 68.38 | 65.65 | 75.44 | 73.56 | 68.86 | 66.78 | 72.55 |
| 2008 | 93.85 | 92.25 | 102.16 | 100.65 | 94.51 | 91.68 | 97.37 |
| 2009 | 61.83 | 59.69 | 64.00 | 64.90 | 62.06 | 58.38 | 61.68 |

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



Spot crude oil prices (\$/b)

| | UK Forties | Norway Ekofisk | Norway Oseberg | Mexico Isthmus | Mexico Maya | China Daqing | Malaysia Tapis |
|------|---------------|-------------------|-------------------|-------------------|----------------|-----------------|-------------------|
| 1999 | 18.02 | 17.93 | 18.05 | 17.29 | 14.52 | 17.76 | 18.89 |
| 2000 | 28.61 | 28.42 | 28.67 | 27.80 | 22.87 | 28.74 | 29.74 |
| 2001 | 24.60 | 24.39 | 24.54 | 22.22 | 17.31 | 24.78 | 25.44 |
| 2002 | 24.98 | 24.88 | 25.02 | 24.12 | 20.93 | 25.45 | 25.69 |
| 2003 | 28.94 | 28.89 | 28.97 | 28.25 | 24.23 | 29.52 | 30.08 |
| 2004 | 38.85 | 38.18 | 38.33 | 37.01 | 30.00 | 36.72 | 41.14 |
| 2005 | 55.06 | 54.48 | 54.84 | 50.35 | 40.94 | 52.65 | 57.94 |
| 2006 | 65.85 | 65.30 | 65.95 | 59.87 | 51.25 | 63.33 | 70.04 |
| 2007 | 72.46 | 73.20 | 73.87 | 67.58 | 59.83 | 71.30 | 77.87 |
| 2008 | 97.25 | 99.40 | 99.74 | 95.22 | 84.39 | 96.72 | 104.55 |
| 2009 | 61.68 | 62.67 | 62.83 | 60.85 | 56.65 | 59.97 | 65.05 |

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

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

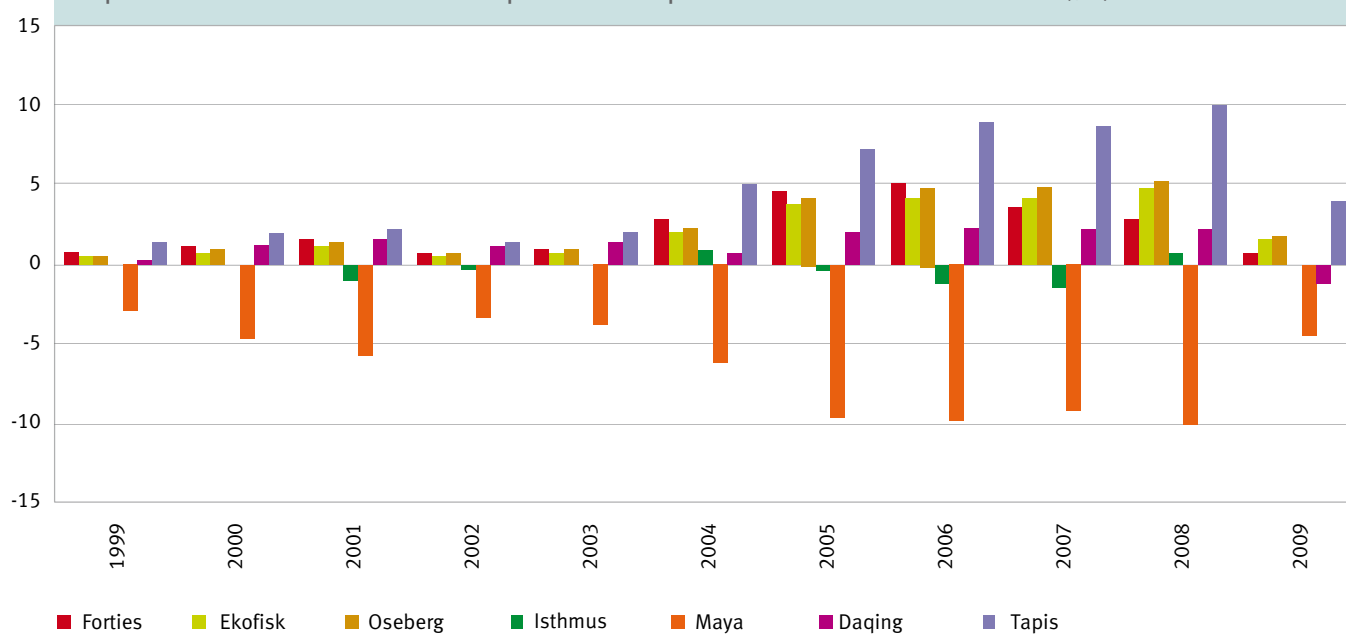


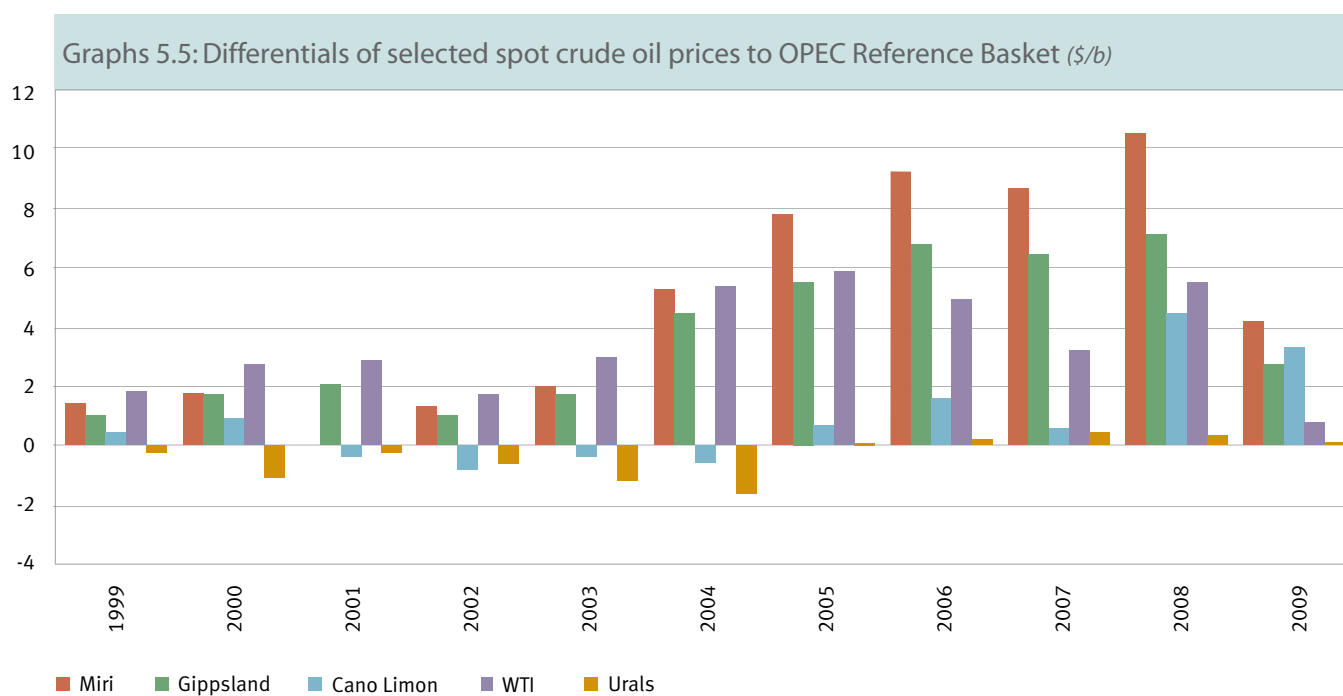
Table 5.2

P r i c e s

Spot crude oil prices (\$/b)

| | Malaysia Miri | Australia Gippsland | Colombia Cano Limon | USA WTI | Russia Urals |
|------|------------------|------------------------|------------------------|------------|-----------------|
| 1999 | 18.86 | 18.50 | 17.95 | 19.30 | 17.24 |
| 2000 | 29.39 | 29.41 | 28.57 | 30.37 | 26.58 |
| 2001 | na | 25.22 | 22.82 | 26.00 | 22.97 |
| 2002 | 25.65 | 25.47 | 23.55 | 26.13 | 23.80 |
| 2003 | 30.07 | 29.85 | 27.78 | 31.09 | 27.02 |
| 2004 | 41.21 | 40.58 | 35.53 | 41.44 | 34.47 |
| 2005 | 58.33 | 56.18 | 51.31 | 56.51 | 50.79 |
| 2006 | 70.30 | 67.92 | 62.72 | 66.04 | 61.37 |
| 2007 | 77.76 | 75.55 | 69.67 | 72.29 | 69.55 |
| 2008 | 104.90 | 101.66 | 98.94 | 100.00 | 94.87 |
| 2009 | 65.27 | 63.81 | 64.38 | 61.88 | 61.22 |

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



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

| | Nominal oil price ¹ | Exchange rates ² | Nominal price adjusted for: Inflation ³ | Combined ⁴ |
|------|--------------------------------|-----------------------------|---|-----------------------|
| 1999 | 17.48 | 23.48 | 3.46 | 4.65 |
| 2000 | 27.60 | 41.32 | 5.33 | 7.99 |
| 2001 | 23.12 | 35.72 | 4.36 | 6.74 |
| 2002 | 24.36 | 36.14 | 4.50 | 6.68 |
| 2003 | 28.10 | 36.31 | 5.08 | 6.56 |
| 2004 | 36.05 | 43.00 | 6.37 | 7.60 |
| 2005 | 50.64 | 60.43 | 8.74 | 10.43 |
| 2006 | 61.08 | 72.55 | 10.29 | 12.23 |
| 2007 | 69.08 | 76.80 | 11.36 | 12.63 |
| 2008 | 94.45 | 100.83 | 15.02 | 16.04 |
| 2009 | 61.06 | 68.76 | 9.72 | 10.95 |

Notes: Base: 1973 = 100.

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

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

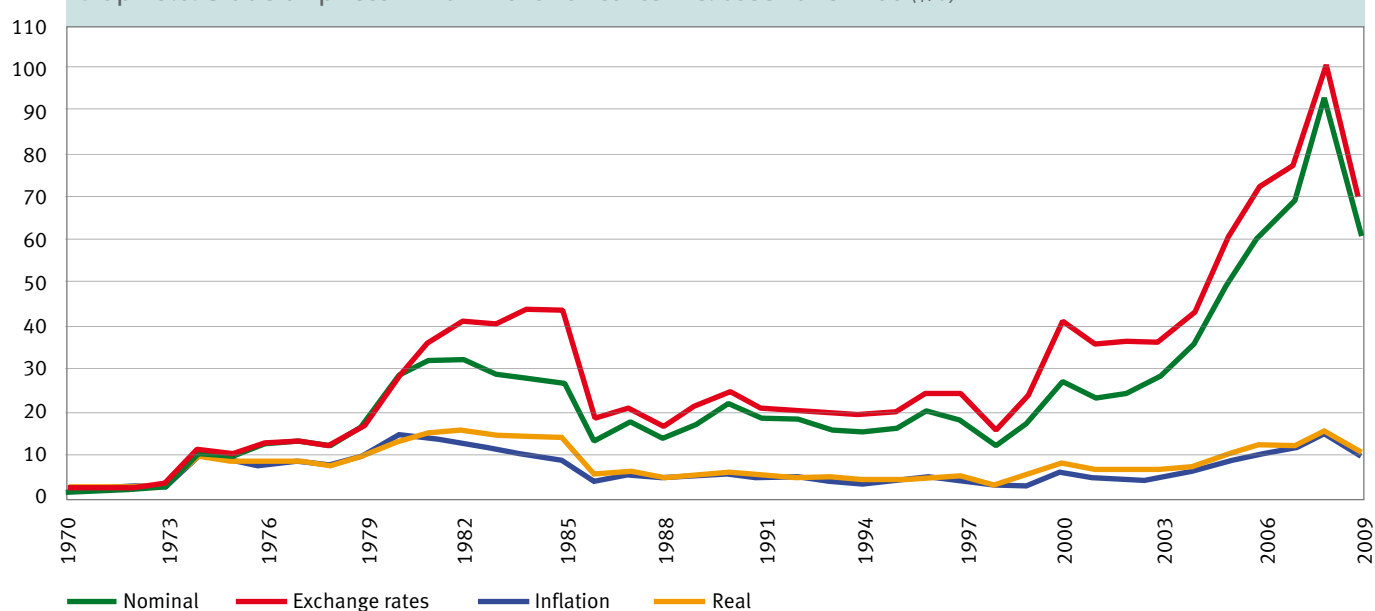


Table 5.4

P r i c e s

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

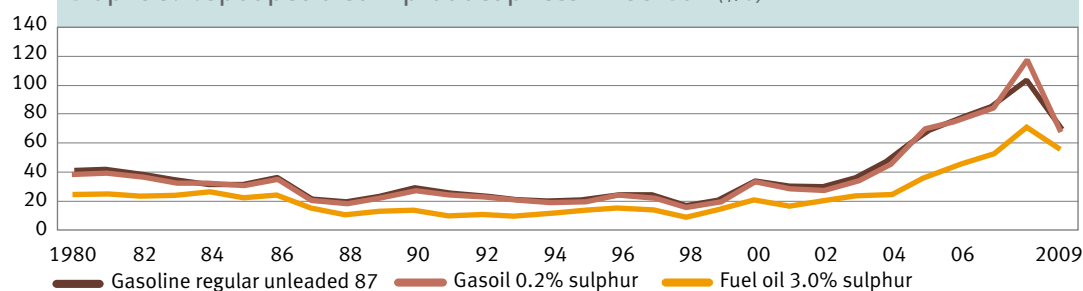
| | US Gulf | | | Singapore | | | Rotterdam | | |
|------|------------|--------------|--------------|--------------|---------------------|----------|-----------------------|---------------------|--------------|
| | gasoline | gasoil | fuel oil | gasoline | gasoil ¹ | fuel oil | gasoline ² | gasoil ¹ | 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 |
| 1999 | 22.00 | 19.77 | 14.28 | 21.02 | 19.13 | 14.76 | 21.50 | 19.74 | 13.73 |
| 2000 | 35.10 | 34.04 | 20.77 | 32.55 | 32.46 | 23.04 | 35.16 | 33.76 | 20.47 |
| 2001 | 31.02 | 29.04 | 17.18 | 27.47 | 27.30 | 19.42 | 29.29 | 28.77 | 17.08 |
| 2002 | 30.44 | 27.75 | 20.69 | 28.00 | 28.15 | 21.83 | 28.47 | 27.33 | 19.76 |
| 2003 | 36.83 | 34.09 | 24.02 | 34.74 | 33.38 | 25.07 | 34.86 | 33.47 | 22.38 |
| 2004 | 49.37 | 45.62 | 24.75 | 47.19 | 47.31 | 26.58 | 47.10 | 46.01 | 22.94 |
| 2005 | 67.25 | 70.71 | 36.42 | 62.10 | 68.66 | 38.38 | 62.58 | 70.91 | 34.59 |
| 2006 | 77.61 | 76.01 | 45.56 | 73.13 | 82.09 | 46.37 | 72.90 | 80.06 | 43.36 |
| 2007 | 86.42 | 84.45 | 53.08 | 82.87 | 88.55 | 55.49 | 92.03 | 88.62 | 51.30 |
| 2008 | 104.92 | 118.24 | 72.21 | 102.56 | 122.06 | 74.85 | 108.27 | 126.20 | 69.37 |
| 2009 | 69.98 | 68.00 | 55.90 | 69.92 | 70.59 | 57.16 | 70.45 | 69.52 | 54.22 |

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.

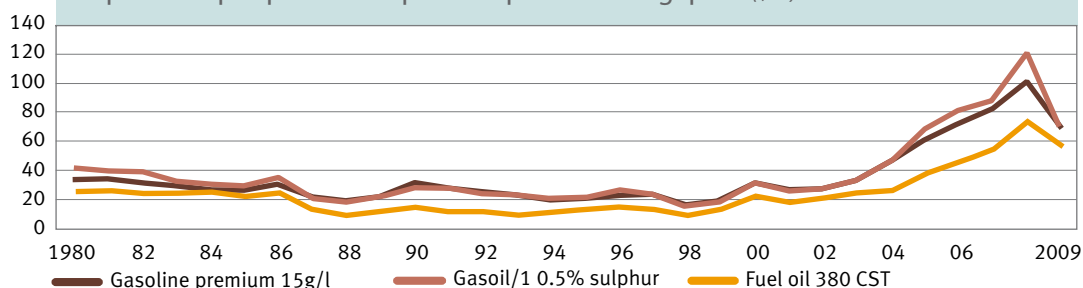
1. From 2005, gasoil with 0.05 per cent sulphur.

2. From 2005, unleaded 95 RON.

Graphs 5.7: Spot petroleum product prices — US Gulf (\$/b)



Graphs 5.8: Spot petroleum product prices — Singapore (\$/b)



Graphs 5.9: Spot petroleum product prices — Rotterdam (\$/b)

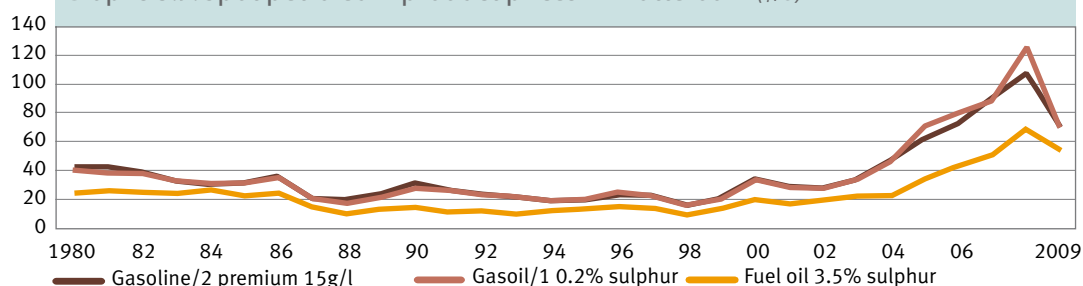


Table 5.5

P r i c e s

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

| | FX rate to \$ | 2005 | FX rate to \$ | 2006 | FX rate to \$ | 2007 | FX rate to \$ | 2008 | FX rate to \$ | 2009 |
|-----------------------------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|
| Algeria | 72.8 | | 72.9 | | 69.7 | | 64.6 | | 72.0 | |
| Gasoline | | 2,210.0 | | 2,097.5 | | 2,210.0 | | 2,226.7 | | 2,226.7 |
| Diesel oil | | 1,370.0 | | 1,315.0 | | 1,370.0 | | 1,370.0 | | 1,370.0 |
| Kerosene | | 182.4 | | 182.9 | | na | | na | | na |
| Fuel oil | | 156.6 | | 156.9 | | 170.0 | | na | | na |
| Angola | 74.9 | | 86.9 | | 77.4 | | 75.0 | | 78.2 | |
| Gasoline | | 28,084.2 | | 28,084.2 | | 28,084.2 | | na | | 28,084.2 |
| Diesel oil | | 14,028.6 | | 14,028.6 | | 14,028.6 | | na | | 14,028.6 |
| Kerosene | | 15,690.1 | | 15,690.1 | | 15,690.1 | | na | | 15,690.1 |
| Fuel oil | | 50.8 | | 50.8 | | 50.8 | | na | | 50.8 |
| Ecuador | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Gasoline | | na | | na | | na | | 238.1 | | na |
| Diesel oil | | na | | na | | na | | 143.4 | | na |
| Kerosene | | na | | na | | na | | 143.4 | | na |
| Fuel oil | | na | | na | | na | | 89.5 | | na |
| IR Iran | 8,228.7 | | 9,164.7 | | 9,274.9 | | 9,467.0 | | 9,878.4 | |
| Gasoline | | 127,200.0 | | 159,000.0 | | 174,900.0 | | 174,900.0 | | 198,750.0 |
| Diesel oil | | 26,235.0 | | 30,170.3 | | 64,395.0 | | 26,235.0 | | 26,235.0 |
| Kerosene | | 26,235.0 | | 28,858.5 | | 26,235.0 | | 26,235.0 | | 26,235.0 |
| Fuel oil | | 8,252.1 | | 8,256.4 | | 9,946.2 | | 10,104.5 | | 10,104.5 |
| Iraq | 1,466.2 | | 1,464.4 | | 1,254.9 | | 1,193.1 | | 1,160.2 | |
| Gasoline | | na | | na | | na | | 71,550.0 | | 71,550.0 |
| Diesel oil | | na | | na | | na | | 63,600.0 | | 63,600.0 |
| Kerosene | | na | | na | | na | | 35,775.0 | | 35,775.0 |
| Fuel oil | | na | | na | | na | | 41,737.5 | | 41,737.5 |
| Kuwait | 0.3 | | 0.3 | | 0.3 | | 0.3 | | 0.3 | |
| Gasoline | | 113.3 | | 113.3 | | 113.3 | | 114.0 | | 114.0 |
| Diesel oil | | 87.5 | | 87.5 | | 87.5 | | 87.5 | | 87.5 |
| Kerosene | | 87.5 | | 87.5 | | 87.5 | | 87.5 | | 87.5 |
| Fuel oil | | 28.9 | | 28.9 | | na | | na | | na |
| SP Libyan AJ | 1.3 | | 1.3 | | 1.3 | | 1.2 | | 1.3 | |
| Gasoline | | 23.9 | | 23.9 | | 25.4 | | 28.6 | | 31.8 |
| Diesel oil | | 19.1 | | 22.3 | | 23.9 | | 27.0 | | 30.2 |
| Kerosene | | 11.1 | | 12.7 | | 12.7 | | 12.7 | | 12.7 |
| Fuel oil | | 3.5 | | 3.5 | | 3.5 | | 3.5 | | 3.5 |
| Nigeria | 131.3 | | 128.3 | | 125.5 | | 118.7 | | 149.6 | |
| Gasoline | | 10,333.7 | | 10,333.8 | | na | | 11,130.0 | | 14,531.0 |
| Diesel oil | | 13,747.0 | | 13,747.5 | | na | | 14,310.0 | | 14,922.2 |
| Kerosene | | 8,336.9 | | 8,337.3 | | na | | 7,950.0 | | 15,357.8 |
| Fuel oil | | 4,038.1 | | 4,038.9 | | na | | 4,038.6 | | 11,452.8 |
| Qatar | 3.6 | | 3.6 | | 3.6 | | 3.6 | | 3.6 | |
| Gasoline | | 119.3 | | 119.3 | | 119.3 | | 119.3 | | 238.5 |
| Diesel oil | | 143.1 | | 143.1 | | 143.1 | | 143.1 | | na |
| Kerosene | | 63.6 | | 63.6 | | na | | na | | na |
| Fuel oil | | na | | na | | na | | na | | na |
| Saudi Arabia | 3.8 | | 3.8 | | 3.8 | | 3.8 | | 3.8 | |
| Gasoline | | 143.1 | | 95.4 | | 83.5 | | 83.5 | | 83.5 |
| Diesel oil | | 58.8 | | 39.8 | | 39.8 | | 39.8 | | 39.8 |
| Kerosene | | 68.5 | | 68.5 | | 69.2 | | 69.2 | | 69.2 |
| Fuel oil | | 23.9 | | 23.9 | | na | | na | | na |
| United Arab Emirates | 3.7 | | 3.7 | | 3.7 | | 3.7 | | 3.7 | |
| Gasoline | | 201.1 | | 218.6 | | 218.6 | | 218.6 | | 218.6 |
| Diesel oil | | 267.6 | | 314.8 | | 300.7 | | 300.7 | | 300.7 |
| Kerosene | | 257.4 | | 287.2 | | na | | na | | na |
| Fuel oil | | 95.4 | | 95.4 | | na | | na | | na |
| Venezuela | 2.1 | | 2.1 | | 2.1 | | 2.1 | | 2.1 | |
| Gasoline | | 12.5 | | 14.7 | | 13.3 | | 13.3 | | 13.3 |
| Diesel oil | | 7.6 | | 8.9 | | 9.1 | | 7.6 | | 15.4 |
| Kerosene | | 90.2 | | 105.6 | | 173.8 | | 24.7 | | 144.0 |
| Fuel oil | | 2.9 | | 3.4 | | 9.6 | | 9.6 | | 9.6 |

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

Table 5.6

P r i c e s

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

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------------|-------|-------|-------|-------|-------|
| Algeria | | | | | |
| Gasoline | 30.4 | 28.8 | 31.7 | 34.5 | 30.9 |
| Diesel oil | 18.8 | 18.0 | 19.7 | 21.2 | 19.0 |
| Kerosene | 2.5 | 2.5 | na | na | na |
| Fuel oil | 2.2 | 2.2 | 2.4 | na | na |
| Angola | | | | | |
| Gasoline | 374.9 | 323.4 | 362.9 | na | 359.3 |
| Diesel oil | 192.8 | 192.5 | 201.3 | na | 194.9 |
| Kerosene | 215.6 | 215.4 | 225.1 | na | 218.0 |
| Fuel oil | 0.7 | 0.7 | 0.7 | na | 0.7 |
| Ecuador | | | | | |
| Gasoline | na | na | na | 238.1 | na |
| Diesel oil | na | na | na | 143.4 | na |
| Kerosene | na | na | na | 143.4 | na |
| Fuel oil | na | na | na | 89.5 | na |
| IR Iran | | | | | |
| Gasoline | 15.5 | 17.3 | 18.9 | 18.5 | 20.1 |
| Diesel oil | 3.2 | 3.3 | 6.9 | 2.8 | 2.7 |
| Kerosene | 3.2 | 3.1 | 2.8 | 2.8 | 2.7 |
| Fuel oil | 1.0 | 0.9 | 1.1 | 1.1 | 1.0 |
| Iraq | | | | | |
| Gasoline | na | na | na | 60.0 | 61.7 |
| Diesel oil | na | na | na | 53.3 | 54.8 |
| Kerosene | na | na | na | 30.0 | 30.8 |
| Fuel oil | na | na | na | 35.0 | 36.0 |
| Kuwait | | | | | |
| Gasoline | 387.9 | 390.4 | 398.5 | 423.7 | 395.3 |
| Diesel oil | 299.4 | 301.3 | 307.6 | 325.1 | 303.4 |
| Kerosene | 299.4 | 301.3 | 307.6 | 325.1 | 303.4 |
| Fuel oil | 98.9 | 99.6 | na | na | na |
| SP Libyan AJ | | | | | |
| Gasoline | 18.2 | 18.3 | 20.2 | 23.5 | 25.4 |
| Diesel oil | 14.6 | 17.1 | 18.9 | 22.2 | 24.1 |
| Kerosene | 8.5 | 9.8 | 10.1 | 10.4 | 10.2 |
| Fuel oil | 2.7 | 2.7 | 2.8 | 2.9 | 2.8 |
| Nigeria | | | | | |
| Gasoline | 78.7 | 80.5 | na | 93.8 | 97.1 |
| Diesel oil | 104.7 | 107.1 | na | 120.6 | 99.7 |
| Kerosene | 63.5 | 65.0 | na | 67.0 | 102.6 |
| Fuel oil | 30.8 | 31.5 | na | 34.0 | 76.5 |
| Qatar | | | | | |
| Gasoline | 32.8 | 32.8 | 32.8 | 32.8 | 65.5 |
| Diesel oil | 39.3 | 39.3 | 39.3 | 39.3 | na |
| Kerosene | 17.5 | 17.5 | na | na | na |
| Fuel oil | na | na | na | na | na |
| Saudi Arabia | | | | | |
| Gasoline | 38.2 | 25.4 | 22.3 | 22.3 | 22.3 |
| Diesel oil | 15.7 | 10.6 | 10.6 | 10.6 | 10.6 |
| Kerosene | 18.3 | 18.3 | 18.4 | 18.4 | 18.4 |
| Fuel oil | 6.4 | 6.4 | na | na | na |
| United Arab Emirates | | | | | |
| Gasoline | 54.8 | 59.5 | 59.5 | 59.5 | 59.5 |
| Diesel oil | 72.9 | 85.7 | 81.9 | 81.9 | 81.9 |
| Kerosene | 70.1 | 78.2 | na | na | na |
| Fuel oil | 26.0 | 26.0 | na | na | na |
| Venezuela | | | | | |
| Gasoline | 6.0 | 6.8 | 6.2 | 6.2 | 6.2 |
| Diesel oil | 3.6 | 4.2 | 4.2 | 3.6 | 7.2 |
| Kerosene | 42.8 | 49.2 | 81.0 | 11.5 | 67.1 |
| Fuel oil | 1.4 | 1.6 | 4.5 | 4.5 | 4.5 |

Notes: Prices partly estimated and preliminary.

Table 5.7

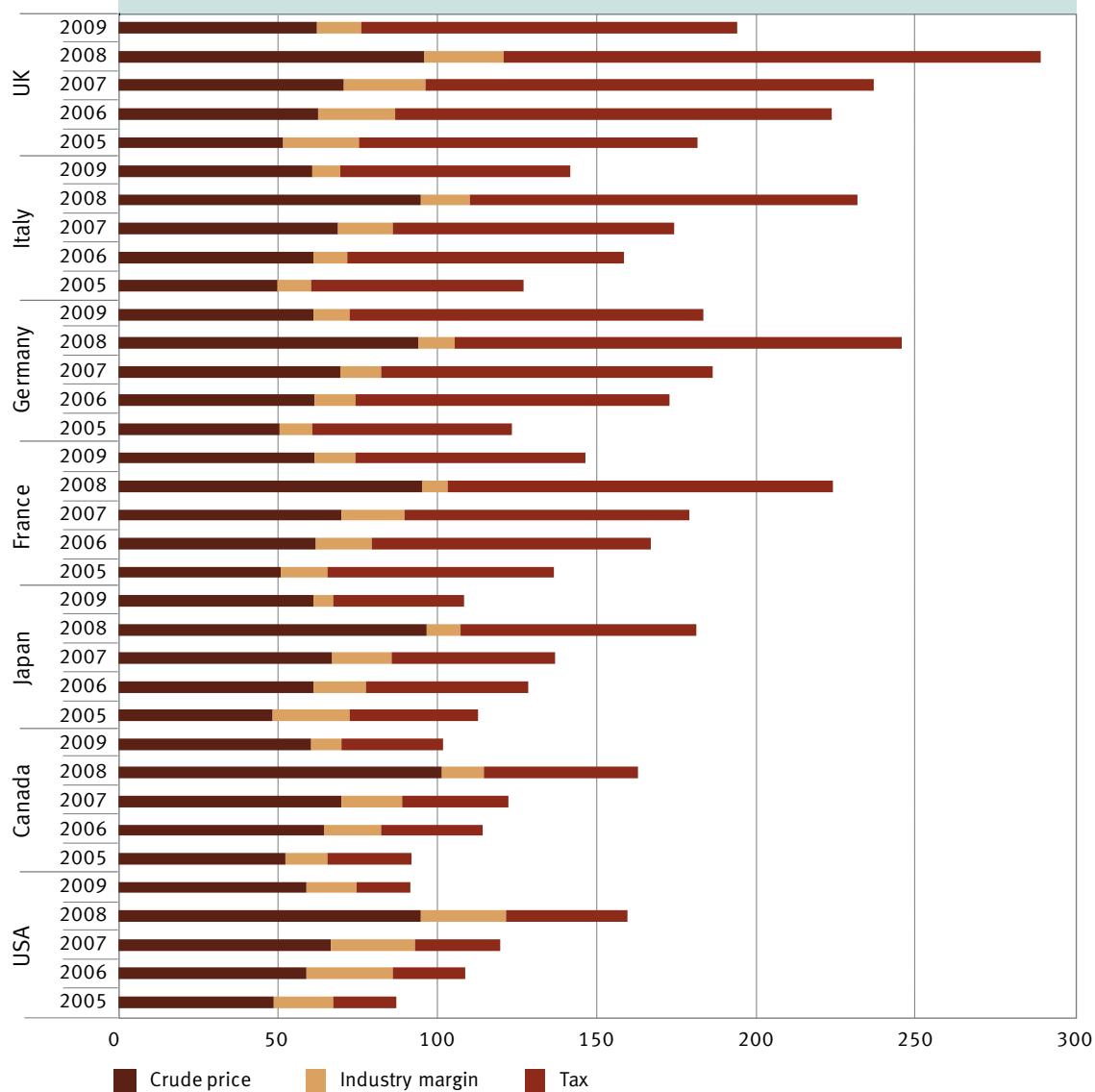
P r i c e s

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

| | 2005 | | | 2006 | | | 2007 | | | 2008 | | | 2009 | | |
|-----------------------|-------|---------|----------------|-------|---------|----------------|-------|---------|-------|-------|---------|----------------|-------|---------|----------------|
| | \$/b | % share | % change y-o-y | \$/b | % share | % change y-o-y | \$/b | % share | y-o-y | \$/b | % share | % change y-o-y | \$/b | % share | % change y-o-y |
| United States | | | | | | | | | | | | | | | |
| Composite barrel | 87.0 | | 20.5 | 108.7 | | 24.9 | 119.7 | | 10.1 | 159.6 | | 33.4 | 91.8 | | -42.5 |
| Crude cif price | 48.8 | 56.1 | 36.1 | 59.2 | 54.4 | 21.2 | 66.8 | 55.8 | 12.9 | 95.0 | 59.5 | 42.2 | 58.8 | 64.1 | -38.1 |
| Tax | 19.7 | 22.6 | 7.1 | 22.8 | 21.0 | 15.7 | 26.8 | 22.4 | 17.5 | 38.1 | 23.9 | 42.3 | 16.9 | 18.4 | -55.7 |
| Industry margin | 18.5 | 21.2 | 3.0 | 26.8 | 24.6 | 44.8 | 26.1 | 21.8 | -2.3 | 26.5 | 16.6 | 1.5 | 16.1 | 17.5 | -39.5 |
| Canada | | | | | | | | | | | | | | | |
| Composite barrel | 92.1 | | 16.4 | 114.3 | | 24.1 | 122.4 | | 7.1 | 162.9 | | 33.1 | 101.8 | | -37.5 |
| Crude cif price | 52.4 | 56.9 | 37.3 | 64.3 | 56.3 | 22.8 | 70.0 | 57.2 | 8.9 | 101.4 | 62.2 | 44.8 | 60.3 | 59.2 | -40.5 |
| Tax | 26.4 | 28.7 | 20.5 | 31.9 | 27.9 | 20.8 | 33.4 | 27.3 | 4.7 | 48.4 | 29.7 | 45.0 | 31.8 | 31.2 | -34.3 |
| Industry margin | 13.33 | 14.5 | -30.1 | 18.07 | 15.8 | 35.6 | 19.0 | 15.5 | 4.9 | 13.1 | 8.0 | -30.8 | 9.7 | 9.6 | -25.7 |
| Japan | | | | | | | | | | | | | | | |
| Composite barrel | 112.7 | | 10.5 | 128.4 | | 13.9 | 137.0 | | 6.7 | 181.2 | | 32.2 | 108.3 | | -40.2 |
| Crude cif price | 51.57 | 45.8 | 54.9 | 64.03 | 49.9 | 24.2 | 70.1 | 51.2 | 9.5 | 101.0 | 55.7 | 44.1 | 61.3 | 56.6 | -39.3 |
| Tax | 40.3 | 35.8 | 6.1 | 50.8 | 39.6 | 26.1 | 51.1 | 37.3 | 0.6 | 73.7 | 40.7 | 44.2 | 40.9 | 37.8 | -44.4 |
| Industry margin | 20.83 | 18.5 | -32.1 | 13.57 | 10.6 | -34.9 | 15.8 | 11.5 | 16.5 | 6.5 | 3.6 | -58.8 | 6.1 | 5.6 | -6.9 |
| France | | | | | | | | | | | | | | | |
| Composite barrel | 136.8 | | 18.6 | 167.1 | | 22.1 | 179 | | 7.1 | 224.1 | | 25.2 | 144.1 | | -35.7 |
| Crude cif price | 52.7 | 38.6 | 50.7 | 63.7 | 38.1 | 20.8 | 72.2 | 40.3 | 13.4 | 97.6 | 43.6 | 35.2 | 61.6 | 42.8 | -36.9 |
| Tax | 71.4 | 52.2 | 1.4 | 87.5 | 52.4 | 22.5 | 89.4 | 49.9 | 2.2 | 120.8 | 53.9 | 35.2 | 72.1 | 50.1 | -40.3 |
| Industry margin | 14.5 | 10.6 | 45.0 | 17.7 | 10.6 | 22.1 | 19.6 | 10.9 | 10.7 | 8.0 | 3.6 | -59.0 | 12.9 | 8.9 | 60.1 |
| Germany | | | | | | | | | | | | | | | |
| Composite barrel | 123.3 | | 12.6 | 172.9 | | 40.2 | 186.3 | | 7.8 | 245.7 | | 31.9 | 181.4 | | -26.1 |
| Crude cif price | 52.3 | 42.4 | 53.4 | 63.29 | 36.6 | 21.0 | 71.6 | 38.4 | 13.1 | 96.7 | 39.4 | 35.1 | 61.2 | 33.7 | -36.7 |
| Tax | 62.5 | 50.7 | 1.3 | 98.6 | 57.0 | 57.8 | 103.9 | 55.8 | 5.4 | 140.3 | 57.1 | 35.1 | 111.1 | 61.2 | -20.8 |
| Industry margin | 10.3 | 8.4 | -25.4 | 12.9 | 7.5 | 25.2 | 12.7 | 6.8 | -1.6 | 11.1 | 4.5 | -13.0 | 11.2 | 6.2 | 1.4 |
| Italy | | | | | | | | | | | | | | | |
| Composite barrel | 127.1 | | 14.5 | 158.6 | | 24.8 | 174.3 | | 9.9 | 231.8 | | 33.0 | 140.1 | | -39.6 |
| Crude cif price | 51.33 | 40.4 | 50.1 | 62.5 | 39.4 | 21.8 | 70.2 | 40.3 | 12.3 | 96.7 | 41.7 | 37.7 | 60.7 | 43.3 | -37.2 |
| Tax | 66.6 | 52.4 | 0.9 | 86.7 | 54.7 | 30.2 | 88.3 | 50.7 | 1.8 | 121.6 | 52.5 | 37.7 | 72.1 | 51.5 | -40.7 |
| Industry margin | 10.5 | 8.3 | -1.9 | 10.6 | 6.7 | 1.0 | 17.2 | 9.9 | 62.3 | 15.2 | 6.6 | -11.7 | 8.9 | 6.3 | -41.7 |
| United Kingdom | | | | | | | | | | | | | | | |
| Composite barrel | 181.7 | | 17.5 | 223.8 | | 23.2 | 236.9 | | 5.9 | 289.3 | | 22.1 | 192.0 | | -33.6 |
| Crude cif price | 53.79 | 29.6 | 54.1 | 65 | 29.0 | 20.8 | 73.8 | 31.2 | 13.5 | 99.3 | 34.3 | 34.6 | 62.4 | 32.5 | -37.2 |
| Tax | 106.1 | 58.4 | 10.1 | 137 | 61.2 | 29.1 | 140.7 | 59.4 | 2.7 | 168.4 | 58.2 | 19.7 | 117.9 | 61.4 | -30.0 |
| Industry margin | 23.9 | 13.2 | 3.0 | 24.3 | 10.9 | 1.7 | 25.4 | 10.7 | 4.5 | 24.8 | 8.6 | -2.2 | 13.7 | 7.2 | -44.7 |
| G7 | | | | | | | | | | | | | | | |
| Composite barrel | 123.0 | | 15.8 | 153.4 | | 24.8 | 165.1 | | 7.6 | 213.5 | | 29.3 | 137.1 | | -35.8 |
| Crude cif price | 51.8 | 42.2 | 51.6 | 63.1 | 41.2 | 21.8 | 70.7 | 42.8 | 11.9 | 98.2 | 46.0 | 39.0 | 60.9 | 44.4 | -38.0 |
| Tax | 56.1 | 45.7 | 5.3 | 73.6 | 48.0 | 31.1 | 76.2 | 46.2 | 3.6 | 101.6 | 47.6 | 33.3 | 66.1 | 48.2 | -34.9 |
| Industry margin | 16.0 | 13.0 | -15.0 | 17.7 | 11.5 | 10.8 | 19.4 | 11.8 | 9.6 | 15.0 | 7.0 | -22.5 | 11.2 | 8.2 | -25.4 |

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 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)



Section 6

Major oil companies



Table 6.1

Majors oil companies

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

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|---------------------------------------|---------|---------|---------|---------|---------|
| BP | | | | | |
| Crude oil & NGL reserves ¹ | 6,360 | 5,893 | 5,492 | 5,665 | 5,658 |
| Natural gas reserves ² | 44,448 | 42,168 | 41,130 | 40,005 | 40,388 |
| Crude oil produced | 2,562 | 2,475 | 2,414 | 2,401 | 2,535 |
| Crude oil processed | 2,399 | 2,198 | 2,127 | 2,155 | 2,287 |
| Refined products sold | 5,888 | 5,801 | 5,624 | 5,698 | 5,887 |
| Natural gas sold ³ | 8,424 | 8,417 | 8,143 | 8,334 | 8,485 |
| ExxonMobil | | | | | |
| Crude oil & NGL reserves ¹ | 11,229 | 11,568 | 11,074 | 12,006 | 11,651 |
| Natural gas reserves ² | 66,907 | 67,560 | 68,262 | 65,879 | 68,007 |
| Crude oil produced | 2,523 | 2,681 | 2,616 | 2,405 | 2,387 |
| Crude oil processed | 5,723 | 5,603 | 5,571 | 5,416 | 5,350 |
| Refined products sold | 7,519 | 7,247 | 7,099 | 6,761 | 6,428 |
| Natural gas sold ³ | 9,251 | 9,334 | 9,384 | 9,095 | 9,273 |
| Total | | | | | |
| Crude oil & NGL reserves ¹ | 6,592 | 6,471 | 5,778 | 5,695 | 5,689 |
| Natural gas reserves ² | 24,751 | 25,539 | 25,730 | 26,218 | 26,318 |
| Crude oil produced | 1,621 | 1,506 | 1,509 | 1,456 | 1,381 |
| Crude oil processed | 2,410 | 2,454 | 2,413 | 2,362 | 2,151 |
| Refined products sold | 3,792 | 3,682 | 3,774 | 3,658 | 3,616 |
| Natural gas sold ³ | 4,780 | 4,674 | 4,839 | 4,837 | 4,923 |
| Royal Dutch/Shell | | | | | |
| Crude oil & NGL reserves ¹ | 3,466 | 3,270 | 2,751 | 2,620 | 4,693 |
| Natural gas reserves ² | 24,912 | 30,058 | 22,825 | 25,927 | 29,961 |
| Crude oil produced | 1,998 | 1,948 | 1,818 | 1,693 | 1,581 |
| Crude oil processed | 3,981 | 3,862 | 3,779 | 3,388 | 3,067 |
| Refined products sold | 7,057 | 6,485 | 6,625 | 6,568 | 6,156 |
| Natural gas sold ³ | 8,263 | 8,368 | 8,214 | 8,569 | 8,553 |
| Chevron | | | | | |
| Crude oil & NGL reserves ¹ | 5,626 | 5,294 | 4,665 | 4,735 | 4,610 |
| Natural gas reserves ² | 20,466 | 19,910 | 19,137 | 19,022 | 22,153 |
| Crude oil produced | 1,669 | 1,732 | 1,756 | 1,649 | 1,846 |
| Crude oil processed | 1,883 | 1,989 | 1,833 | 1,858 | 1,878 |
| Refined products sold | 3,725 | 3,621 | 3,484 | 3,429 | 3,254 |
| Natural gas sold ³ | 7,899 | 10,529 | 11,416 | 11,441 | 9,963 |
| Total majors | | | | | |
| Crude oil & NGL reserves ¹ | 33,273 | 32,496 | 29,760 | 30,721 | 32,301 |
| Natural gas reserves ² | 181,484 | 185,235 | 177,084 | 177,051 | 186,827 |
| Crude oil produced | 10,373 | 10,342 | 10,113 | 9,604 | 9,730 |
| Crude oil processed | 16,396 | 16,106 | 15,723 | 15,179 | 14,733 |
| Refined products sold | 27,981 | 26,836 | 26,606 | 26,114 | 25,341 |
| Natural gas sold ³ | 38,617 | 41,322 | 41,996 | 42,276 | 41,197 |

Notes:

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

Table 6.2

Majors oil companies

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

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| BP | | | | | |
| Revenues ¹ | 245,486 | 274,316 | 291,438 | 367,053 | 246,138 |
| Cost of sales ² | 216,699 | 239,763 | 262,626 | 328,843 | 223,818 |
| Income tax (benefit) | 9,473 | 12,331 | 10,442 | 12,617 | 8,365 |
| Special deductions | na | na | na | na | na |
| Net income (loss) | 19,314 | 22,222 | 18,370 | 25,593 | 13,955 |
| ExxonMobil | | | | | |
| Revenues ³ | 370,680 | 377,635 | 404,552 | 477,359 | 310,586 |
| Cost of sales ⁴ | 311,248 | 310,233 | 334,078 | 395,609 | 276,187 |
| Income tax (benefit) | 23,302 | 27,902 | 29,864 | 36,530 | 15,119 |
| Special deductions | na | na | na | na | na |
| Net income (loss) | 36,130 | 39,500 | 40,610 | 45,220 | 19,280 |
| Total | | | | | |
| Revenues ³ | 171,197 | 193,114 | 217,554 | 264,709 | 183,175 |
| Cost of sales ⁴ | 141,240 | 161,111 | 180,888 | 228,327 | 160,582 |
| Income tax (benefit) | 14,688 | 17,227 | 18,603 | 20,806 | 10,811 |
| Special deductions | na | na | na | na | na |
| Net income (loss) | 15,269 | 14,776 | 18,063 | 15,576 | 11,782 |
| Royal Dutch/Shell | | | | | |
| Revenues ³ | 306,731 | 318,845 | 355,782 | 458,361 | 278,188 |
| Cost of sales ⁴ | 263,421 | 275,086 | 305,801 | 407,740 | 257,368 |
| Income tax (benefit) | 17,999 | 18,317 | 18,650 | 24,344 | 8,302 |
| Special deductions | na | na | na | na | na |
| Net income (loss) | 25,311 | 25,442 | 31,331 | 26,277 | 12,518 |
| Chevron | | | | | |
| Revenues ³ | 198,200 | 210,118 | 220,904 | 273,005 | 171,636 |
| Cost of sales ⁴ | 172,907 | 178,072 | 188,630 | 229,948 | 153,108 |
| Income tax (benefit) | 11,098 | 14,838 | 13,479 | 19,026 | 7,965 |
| Special deductions | 96 | 70 | 107 | 100 | 80 |
| Net income (loss) | 14,099 | 17,138 | 18,688 | 23,931 | 10,483 |
| Total majors | | | | | |
| Revenues ³ | 1,292,294 | 1,374,028 | 1,490,230 | 1,840,487 | 1,189,723 |
| Cost of sales ⁴ | 1,105,515 | 1,164,265 | 1,272,023 | 1,590,467 | 1,071,063 |
| Income tax (benefit) | 76,560 | 90,615 | 91,038 | 113,323 | 50,562 |
| Special deductions | 96 | 70 | 107 | 100 | 80 |
| Net income (loss) | 110,123 | 119,078 | 127,062 | 136,597 | 68,018 |

Notes:

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

Table 6.3

Majors oil companies

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

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------------------|-------|-------|-------|-------|-------|
| BP | | | | | |
| Revenues | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Cost of sales | 88.3 | 87.4 | 90.1 | 89.6 | 90.9 |
| Income tax (benefit) | 3.9 | 4.5 | 3.6 | 3.4 | 3.4 |
| Special deductions | na | na | na | na | na |
| Net income (loss) | 7.9 | 8.1 | 6.3 | 7.0 | 5.7 |
| ExxonMobil | | | | | |
| Revenues | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Cost of sales | 84.0 | 82.2 | 82.6 | 82.9 | 88.9 |
| Income tax (benefit) | 6.3 | 7.4 | 7.4 | 7.7 | 4.9 |
| Special deductions | na | na | na | na | na |
| Net income (loss) | 9.7 | 10.5 | 10.0 | 9.5 | 6.2 |
| Total | | | | | |
| Revenues | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Cost of sales | 82.5 | 83.4 | 83.1 | 86.3 | 87.7 |
| Income tax (benefit) | 8.6 | 8.9 | 8.6 | 7.9 | 5.9 |
| Special deductions | na | na | na | na | na |
| Net income (loss) | 8.9 | 7.7 | 8.3 | 5.9 | 6.4 |
| Royal Dutch/Shell | | | | | |
| Revenues | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Cost of sales | 85.9 | 86.3 | 86.0 | 89.0 | 92.5 |
| Income tax (benefit) | 5.9 | 5.7 | 5.2 | 5.3 | 3.0 |
| Special deductions | na | na | na | na | na |
| Net income (loss) | 8.3 | 8.0 | 8.8 | 5.7 | 4.5 |
| Chevron | | | | | |
| Revenues | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Cost of sales | 87.2 | 84.7 | 85.4 | 84.2 | 89.2 |
| Income tax (benefit) | 5.6 | 7.1 | 6.1 | 7.0 | 4.6 |
| Special deductions | – | – | – | – | – |
| Net income (loss) | 7.1 | 8.2 | 8.5 | 8.8 | 6.1 |
| Total majors | | | | | |
| Revenues | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Cost of sales | 85.5 | 84.7 | 85.4 | 86.4 | 90.0 |
| Income tax (benefit) | 5.9 | 6.6 | 6.1 | 6.2 | 4.2 |
| Special deductions | – | – | – | – | – |
| Net income (loss) | 8.5 | 8.7 | 8.5 | 7.4 | 5.7 |

Table 6.4

Majors oil companies

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

| | 2005 | 2006 | 2007 | 2008 | 2009 |
|-------------------------------------|---------------|---------------|----------------|----------------|----------------|
| BP | 14,149 | 17,231 | 20,641 | 30,700 | 20,309 |
| Exploration ¹ | 10,398 | 13,252 | 14,207 | 22,227 | 14,896 |
| Production | na | na | na | na | na |
| Transportation | na | na | na | na | na |
| Refining and chemicals ² | na | na | na | na | na |
| Marketing ³ | 2,845 | 3,127 | 5,495 | 6,634 | 4,114 |
| Others | 906 | 852 | 939 | 1,839 | 1,299 |
| ExxonMobil⁴ | 17,699 | 19,855 | 20,853 | 26,143 | 27,092 |
| Exploration ¹ | 14,470 | 16,231 | 15,724 | 19,734 | 20,704 |
| Production | na | na | na | na | na |
| Transportation | na | na | na | na | na |
| Refining and chemicals ² | 654 | 756 | 1,782 | 2,819 | 3,148 |
| Marketing ⁵ | 2,495 | 2,729 | 3,303 | 3,529 | 3,196 |
| Others | 80 | 139 | 44 | 61 | 44 |
| Total | 13,928 | 14,882 | 16,064 | 20,062 | 18,619 |
| Exploration ¹ | 10,091 | 11,302 | 12,172 | 14,733 | 13,746 |
| Production | na | na | na | na | na |
| Transportation | na | na | na | na | na |
| Refining and chemicals ² | 1,387 | 1,249 | 1,248 | 1,580 | 880 |
| Marketing ³ | 2,213 | 2,229 | 2,570 | 3,556 | 3,865 |
| Others | 237 | 102 | 74 | 193 | 128 |
| Royal Dutch/Shell | 15,916 | 23,096 | 24,105 | 35,112 | 27,594 |
| Exploration ¹ | 10,858 | 16,638 | 18,605 | 28,958 | 21,275 |
| Production | na | na | na | na | na |
| Transportation | na | na | na | na | na |
| Refining and chemicals ² | 387 | 821 | 5,086 | 5,913 | 6,046 |
| Marketing ⁵ | 4,383 | 5,372 | na | na | na |
| Others | 288 | 265 | 414 | 241 | 273 |
| Chevron | 11,063 | 16,611 | 20,026 | 22,775 | 22,237 |
| Exploration ¹ | 8,389 | 12,819 | 15,538 | 17,460 | 17,109 |
| Production | na | na | na | na | na |
| Transportation ³ | 2,150 | 3,175 | 3,443 | 4,205 | 4,421 |
| Refining and chemicals ² | 151 | 200 | 271 | 485 | 302 |
| Marketing | na | na | na | na | na |
| Others ⁶ | 373 | 417 | 774 | 625 | 405 |
| Total majors | 72,755 | 90,695 | 101,689 | 134,792 | 115,851 |
| Exploration | 54,206 | 70,242 | 76,246 | 103,112 | 87,730 |
| Production | na | na | na | na | na |
| Transportation | 2,150 | 3,175 | 3,443 | 4,205 | 4,421 |
| Refining and chemicals | 2,579 | 3,026 | 8,387 | 10,797 | 10,376 |
| Marketing | 11,936 | 12,477 | 11,368 | 13,719 | 11,175 |
| Others | 1,884 | 1,775 | 2,245 | 2,959 | 2,149 |

Notes:

1. Exploration and production.

2. Chemicals only.

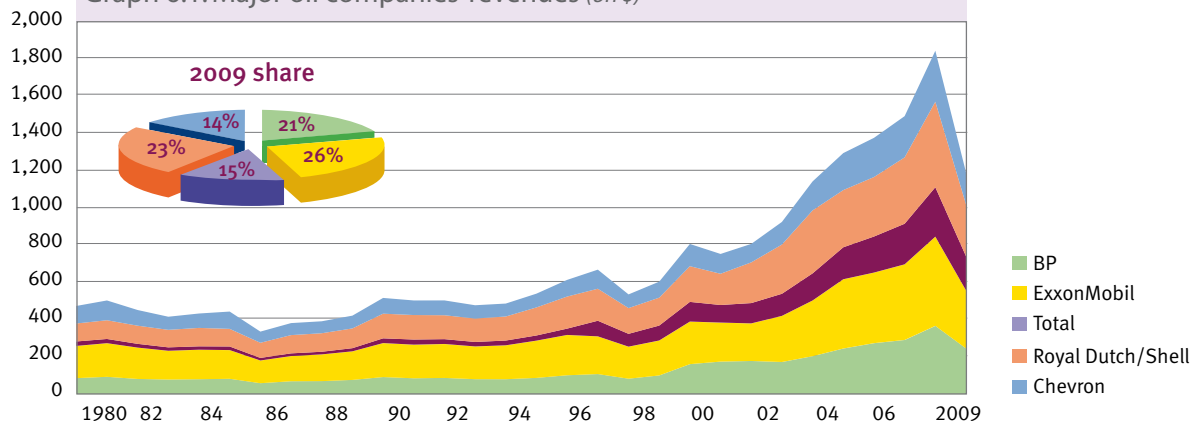
3. Refining, marketing and transportation.

4. Includes expenditures of majority owned and consolidated companies and acquisitions.

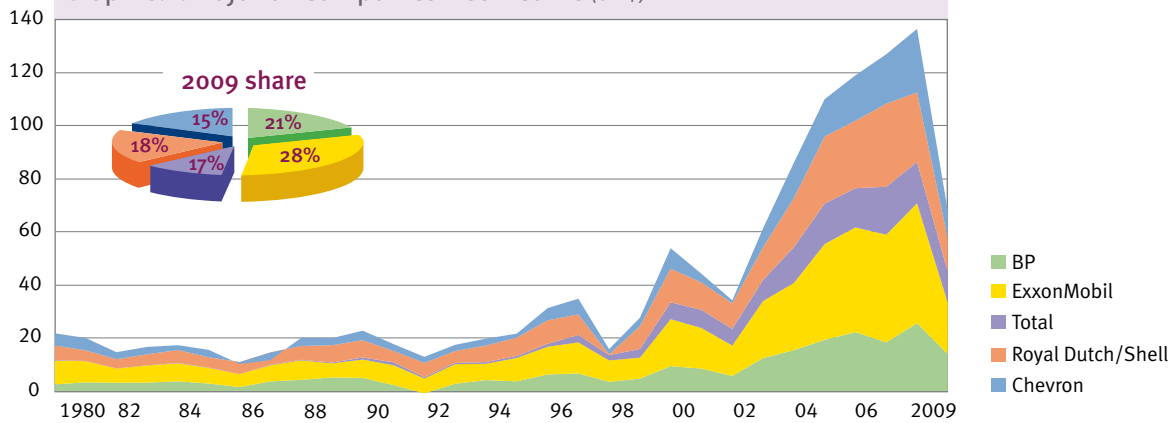
5. Refining and marketing.

6. Includes investment share in non-subsidiary companies.

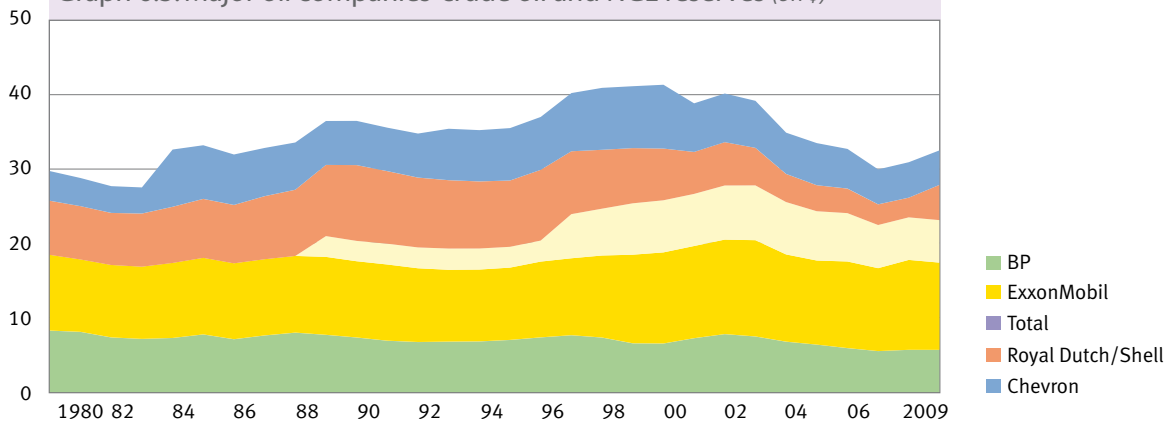
Graph 6.1: Major oil companies' revenues (bn \$)



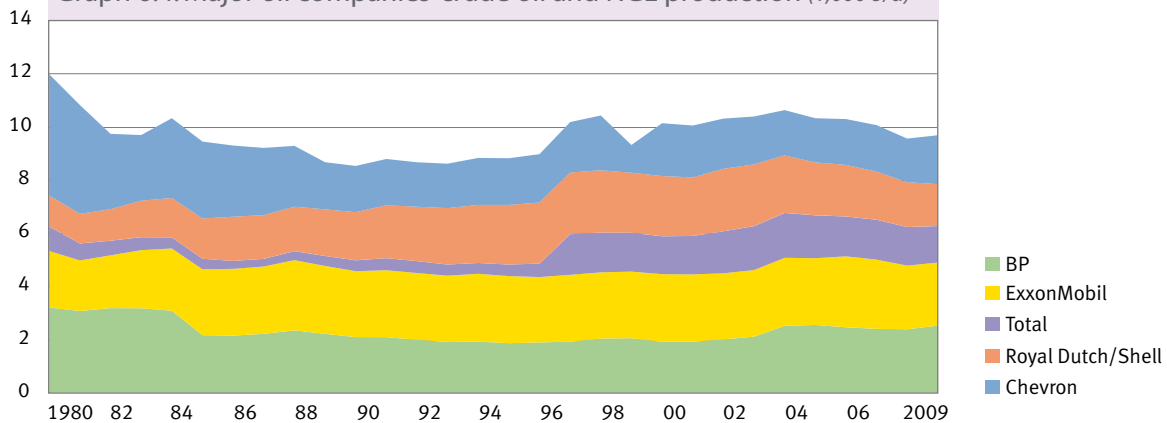
Graph 6.2: Major oil companies' net income (bn \$)



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. Production 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.

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.

Consumption of petroleum products: inland delivery, including refinery fuels and losses, as well as products from gas plants; excluding international air and marine bunkers.

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

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

Eastern Europe: Albania, Bulgaria, Czech Republic, Slovakia, Hungary, Poland, Romania, Former Soviet Union (FSU) (Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, 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 **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.

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, **Socialist People's Libyan Arab Jamahiriya**, 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, Sudan, Swaziland, Tanzania, Togo, Tunisia, Uganda, Western Sahara, Zambia, Zimbabwe.

Asia and Pacific: Afghanistan, American Samoa, Antarctica, Australia, Bangladesh, Bhutan, Brunei, Cambodia, Canton and Enderbury Islands, China, Christmas Island, Cocos (Keeling) Islands, Cook Islands, Fiji, French Polynesia, Guam, Hong Kong, 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, Taiwan, 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), the Socialist People's Libyan Arab Jamahiriya (1962), Nigeria (1971), Qatar (1961), Saudi Arabia (1960), United Arab Emirates (1967), Venezuela (1960).

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

Abbreviations

Symbols:

- na Not available
- Nil or negligible
- * Provisional or estimated figures as of May 31, 2010.

Currencies:

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

Miscellaneous:

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

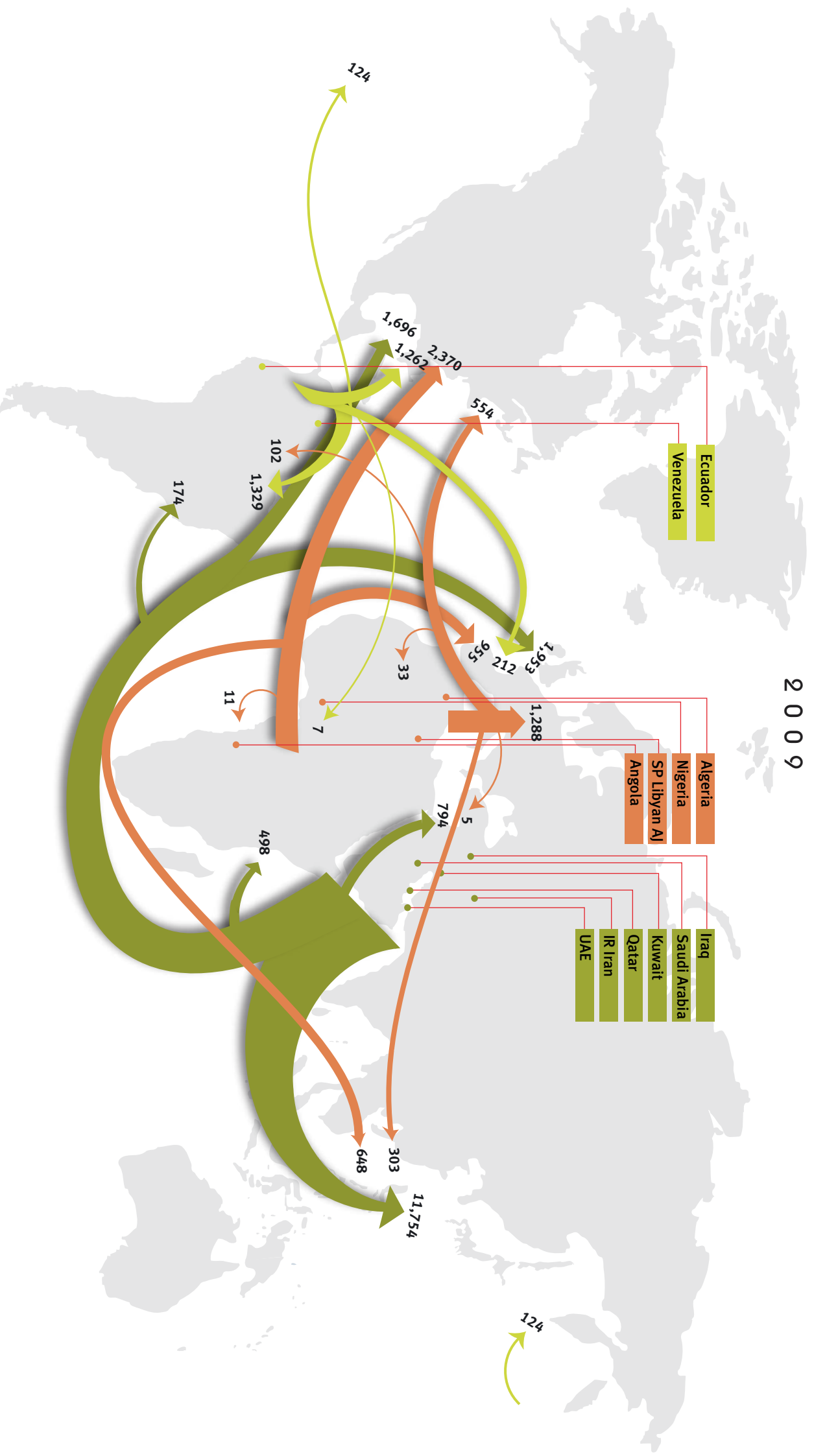
Oil companies

| | |
|-----------------|--|
| ADCO | Abu Dhabi Company for Onshore Oil Operations |
| ADMA | Abu Dhabi Marine Areas |
| ADMA-OPCO | Abu Dhabi Marine Operating Company |
| ADNOC | Abu Dhabi National Oil Company |
| ADOC | Abu Dhabi Oil Company |
| Agip | Agip SpA |
| Agoco | Arabian Gulf Oil Company (SP Libyan AJ) |
| 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 |

Major OPEC flows of crude and refined oil

(1,000 b/d)

2009



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

→ OPEC Africa

→ OPEC Latin America

→ OPEC Middle East

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