



Organization of the Petroleum Exporting Countries

2021 OPEC Annual Statistical Bulletin

56th edition

Team for the preparation of the OPEC Annual Statistical Bulletin

Secretary General
Chairman of the Editorial Board
Mohammad Sanusi Barkindo

Director, Research Division
Ayed S. Al-Qahtani

Project Leader
Head, Data Services Department
Boshra AlSeiari

Coordinator, Statistics Team
Hossein Hassani

Statistics Team
Pantelis Christodoulides, Klaus Stöger,
Mohammad Sattar, Mihni Mihnev, Justinas Pelenis,
Mansi Ghodsi, Ksenia Gutman

Coordinator, IT Development Team
Mohamed Mekerba

IT Development Team
Vedran Blazevic, Hannes Eichner, Roland Kammerer,
Vedran Hrgovcic, Zairul Arifin, Elke Meyer

Editorial Team
Head, Public Relations and Information Department
Hasan Hafidh

Editor
Scott Laury

Coordinator, Design and Production
Carola Bayer

Senior Production Assistant
Diana Lavnick

Graphic Designer
Tara Starnegg

Online Annual Statistical Bulletin 2021:



asb.opec.org

Download now: Smart App for OPEC Annual Statistical Bulletin



iOS



Android

Questions on data

Data queries: dataqueries@opec.org.

Organization of the Petroleum Exporting Countries
Helferstorferstrasse 17, A-1010 Vienna, Austria
Website: www.opec.org

© 2021 Organization of the Petroleum Exporting Countries
ISSN 0475-0608

| | |
|--------------|---|
| Foreword | 5 |
| Key messages | 7 |

| Tables | Page |
|---|-----------|
| Section 1: Summary | 9 |
| Table 1.1 OPEC Members' facts and figures | 10 |
| Table 1.2 OPEC Members' crude oil production allocations | 11 |
| Section 2: Macro-economics | 15 |
| Table 2.1 OPEC Members' population | 16 |
| Table 2.2 OPEC Members' GDP at current market prices | 16 |
| Table 2.3 OPEC Members' real GDP growth rates PPP based weights | 17 |
| Table 2.4 OPEC Members' values of exports | 17 |
| Table 2.5 OPEC Members' values of petroleum exports | 18 |
| Table 2.6 OPEC Members' values of imports | 18 |
| Table 2.7 Current account balances in OPEC Members | 19 |
| Section 3: Oil data: upstream | 21 |
| Table 3.1 World proven crude oil reserves by country | 22 |
| Table 3.2 Active rigs by country | 23 |
| Table 3.3 Wells completed in OPEC Members | 24 |
| Table 3.4 Daily and cumulative crude oil production in OPEC Members | 25 |
| Table 3.5 World crude oil production by country | 26 |
| Table 3.6 Non-OPEC oil supply and OPEC NGLs | 27 |
| Table 3.7 World biofuel production | 28 |
| Section 4: Oil data: downstream | 31 |
| Table 4.1 Refinery capacity in OPEC Members by company and location | 32 |
| Table 4.2 World refinery capacity by country | 34 |
| Table 4.3 World refinery throughput by country | 35 |
| Table 4.4 Output of petroleum products in OPEC Members | 36 |
| Table 4.5 World output of petroleum products by country | 38 |
| Table 4.6 Oil demand by main petroleum product in OPEC Members | 39 |
| Table 4.7 World oil demand by country | 41 |
| Table 4.8 World oil demand by main petroleum product and region | 42 |

Contents

| Tables | Page |
|--|-----------|
| Section 5: Oil trade | 45 |
| Table 5.1 OPEC Members' crude oil exports by destination | 46 |
| Table 5.2 World crude oil exports by country | 48 |
| Table 5.3 World exports of petroleum products by country | 49 |
| Table 5.4 World exports of petroleum products by main petroleum product and region | 50 |
| Table 5.5 World exports of crude oil and petroleum products by country | 53 |
| Table 5.6 World imports of crude oil by country | 54 |
| Table 5.7 World imports of petroleum products by country | 55 |
| Table 5.8 World imports of petroleum products by main petroleum product and region | 56 |
| Table 5.9 World imports of crude oil and petroleum products by country | 58 |
| Section 6: Oil transportation | 61 |
| Table 6.1 Average spot freight rates by vessel category | 62 |
| Table 6.2 Dirty tanker spot freight rates | 63 |
| Table 6.3 Clean tanker spot freight rates | 63 |
| Section 7: Oil prices | 65 |
| Table 7.1 OPEC Reference Basket (ORB) and corresponding components' spot prices | 66 |
| Table 7.2 Selected spot crude oil prices | 67 |
| Table 7.3 ICE Brent, NYMEX WTI and DME Oman annual average for the 1 st , 6 th and 12 th forward months | 68 |
| Table 7.4 ORB in nominal and real terms | 68 |
| Table 7.5 Annual average of premium factors for selected ORB components | 69 |
| Table 7.6 Spot prices of petroleum products in major markets | 70 |
| Table 7.7 Crack spreads in major markets | 70 |
| Section 8: Taxes on oil | 71 |
| Table 8.1 Composite barrel and its components in major OECD oil consuming countries | 72 |
| Table 8.2 Tax to CIF crude oil price ratio in major OECD oil consuming countries | 73 |
| Table 8.3 Euro Big 4 household energy prices | 74 |
| Section 9: Natural gas data | 75 |
| Table 9.1 World proven natural gas reserves by country | 76 |
| Table 9.2 Yearly and cumulative marketed natural gas production in OPEC Members | 78 |
| Table 9.3 World marketed production of natural gas by country | 79 |
| Table 9.4 World natural gas exports by country | 80 |
| Table 9.5 World natural gas imports by country | 81 |
| Table 9.6 World natural gas demand by country | 82 |

| Selected Graphs | Page |
|--|-----------|
| Section 2: Macro-economics | 15 |
| Graph 2.1 OPEC Members' values of petroleum exports | 20 |
| Section 3: Oil data: upstream | 21 |
| Graph 3.1 The importance of the United States for non-OPEC supply growth in recent years | 29 |
| Section 4: Oil data: downstream | 31 |
| Graph 4.1 World refinery throughput by region | 44 |
| Section 5: Oil trade | 45 |
| Graph 5.1 World inter-regional trade of crude oil | 52 |
| Graph 5.2 OPEC Members' crude oil exports by destination | 60 |
| Section 6: Oil transportation | 61 |
| Graph 6.1 Average spot freight rates by vessel category | 62 |
| Section 7: Oil prices | 65 |
| Graph 7.1 OPEC Reference Basket | 66 |
| Section 8: Taxes on oil | 71 |
| Graph 8.1 Composite barrel and its components | 73 |
| Graph 8.2 Composite barrel and its components in percentage | 74 |
| Section 9: Natural gas data | 75 |
| Graph 9.1 Natural gas flows during 2020 | 77 |
| General notes | 85 |
| Definitions | 86 |
| Country groupings | 87 |
| Abbreviations | 88 |
| Selected oil companies | 89 |
| Major sources | 89 |
| Conversion factors | 90 |

Disclaimer

Disclaimer

The data analysis and any other information ("the information") contained in the OPEC Annual Statistical Bulletin (ASB) is for informational purposes only and is neither intended as a substitute for advice from business, finance, investment consultant or other professional; nor is it meant to be a benchmark or input data to a benchmark of any kind.

Whilst reasonable efforts have been made to ensure the accuracy of the information contained in the ASB, the OPEC Secretariat makes no warranties or representations as to its accuracy, relevance or comprehensiveness, and assumes no liability or responsibility for any inaccuracy, error or omission, or for any loss or damage arising in connection with or attributable to any action or decision taken as a result of using or relying on the information in the ASB.

The views expressed in the ASB are those of the OPEC Secretariat and do not necessarily reflect the views of its governing bodies or Member Countries.

The designation of geographical entities in the ASB and the use and presentation of data and other materials, do not imply the expression of any opinion whatsoever on the part of OPEC and/or its Member Countries concerning the legal status of any country, territory or area, or of its authorities, or concerning the exploration, exploitation, refining, marketing and utilization of its petroleum or other energy resources.

Full reproduction, copying or transmission of the ASB is not permitted in any form or by any means by third parties without the OPEC Secretariat's written permission, however, the information contained therein may be used and/or reproduced for educational and other non-commercial purposes without the OPEC Secretariat's prior written permission, provided that it is fully acknowledged as the copyright holder. The ASB may contain references to material(s) from third parties, whose copyright must be acknowledged by obtaining necessary authorization from the copyright owner(s). The OPEC Secretariat or its governing bodies shall not be liable or responsible for any unauthorized use of any third party material(s). All rights of the ASB shall be reserved to the OPEC Secretariat, as applicable, including every exclusive economic right, in full or per excerpts, with special reference but without limitation, to the right to publish it by press and/or by any communications medium whatsoever; translate, include in a data base, make changes, transform and process for any kind of use, including radio, television or cinema adaptations, as well as a sound-video recording, audio-visual screenplays and electronic processing of any kind and nature whatsoever.



Mohammad Sanusi Barkindo, OPEC Secretary General.

I am pleased to introduce this **56th edition** of the *Annual Statistical Bulletin* (ASB). Along with the *World Oil Outlook (WOO)* and the *Monthly Oil Market Report (MOMR)*, the **ASB is one of OPEC's flagship publications**. With its first edition released back in 1965, this annual publication has evolved through the decades to become a **trusted industry handbook** for energy stakeholders around the world.

In the novel '*A study in Scarlet*' by Arthur Conan Doyle, detective Sherlock Holmes says: "It is a capital mistake to theorize before one has data."

This brilliant quote encapsulates perfectly what we seek to achieve in this publication and indeed in all that we do at OPEC. The **data we collect is of critical importance**, and we constantly strive to ensure the **greatest accuracy** in all that we do.

However, even more important is how we **leverage this important information** to make **smart and educated decisions**. Let's face it, anything that is not backed up by solid facts and figures can be considered an assumption, and we do not trust in assumptions.

The oil and gas industry is no exception to this rule. And, indeed, that is why **industry leaders, energy analysts and oil companies** turn each year to the ASB for the key data they need on the global oil and gas industry as input for their **planning and decision-making**.

OPEC's commitment to **high-quality, transparent** oil and gas data supports our goal of fostering **sustainable oil market stability for the benefit of producers, consumers and the global economy**.

As far as distribution goes, we continue to **harness the latest technologies to expand access** to the ASB's valuable data. In this regard, we offer an **interactive online version** that provides **historical time-series data going back to 1960**, as well as a **SmartApp version** that is available for iOS and Android devices. This provides our readers access to valuable data wherever they are, and at any time.

This year's ASB is the fruitful outcome of countless hours of hard work by **OPEC's Secretariat in close collaboration with our Member Countries**. These dedicated efforts have resulted in the high-quality and insightful content you are about to read. I congratulate the entire ASB team for once again achieving an **excellent product that will prove highly beneficial to stakeholders across the global industry**.

Mohammad Sanusi Barkindo
Secretary General



As one of the flagship publications of the Organization of the Petroleum Exporting Countries (OPEC), the *Annual Statistical Bulletin (ASB)* offers detailed and comprehensive time-series data on several aspects of the global petroleum industry, including production, demand, imports and exports, as well as exploration and transportation activities.

In particular, the ASB contains key statistical data on oil and natural gas activities in each of OPEC's 13 Member Countries: Algeria, Angola, Congo, Equatorial Guinea, Gabon, the Islamic Republic of Iran, Iraq, Kuwait, Libya, Nigeria, Saudi Arabia, the United Arab Emirates and Venezuela. In addition, it provides valuable data for many other countries grouped by geographical region, and covers the major economic zones around the world.

The ASB 2021 comprises data up to the end of 2020, with the following highlights:

- ▶ Total world crude oil production declined in 2020 by 6.15 million barrels/day (mb/d), or 8.2 per cent, as compared to 2019, to average 69.09 mb/d, marking a historical year-on-year drop after the outbreak of the COVID-19 pandemic. OPEC crude oil production declined sharply year-on-year by 3.72 mb/d, or 12.7 per cent, while crude production by non-OPEC countries fell by 2.43 mb/d, or 5.3 per cent.
- ▶ With an average of 90.73 mb/d in 2020, world oil demand was heavily impacted by the COVID-19 pandemic and fell by a historic 9.30 mb/d y-o-y. OECD oil demand fell sharply in 2020, while oil demand in the non-OECD declined for the first year in history. Oil demand in OPEC Member Countries was sluggish in 2020, losing 8.2 per cent y-o-y. Distillates and gasoline accounted for around 55.1 per cent of 2020 world oil demand with a steep downward trend amid COVID-19 containment measures. Residual fuel oil requirements were about 7.1 per cent of total oil demand in 2020.
- ▶ OPEC Member Countries exported an average of 19.70 mb/d of crude oil in 2020, a sharp decrease of about 2.78 mb/d, or 12.4 per cent, compared to 2019 and marking the fourth consecutive annual decline. Following the pattern in previous years, the bulk of crude oil from OPEC Member Countries — 14.43 mb/d or 73.2 per cent — was exported to Asia, particularly to China and India. Considerable volumes of crude oil — about 3.13 mb/d — were also exported to OECD Europe in 2020, which, however, represents a decline compared with 3.74 mb/d recorded in 2019. OECD Americas imported 0.84 mb/d of crude oil from OPEC Member Countries, which was about 0.38 mb/d, or 31.1 per cent, less than the 2019 volumes. Exports of petroleum products from OPEC Member Countries averaged 3.48 mb/d during 2020, down by around 0.40 mb/d, or 10.4 per cent, compared to 2019. Imports of petroleum products by OPEC Member Countries averaged at 1.52 mb/d in 2020, roughly 0.17 mb/d, or 9.8 per cent, lower than in 2019.
- ▶ World proven crude oil reserves stood at 1,549 billion barrels (bn b) at the end of 2020, increasing by 0.2 per cent from the level of 1,546bn b recorded at the end of 2019. Proven crude oil reserves in OPEC Member Countries increased by 0.3 per cent to 1,237bn b at the end of 2020, following a firm increase during 2019. At the end of 2020, world proven natural gas reserves fell by 0.4 per cent to approximately 206.7 trillion standard cubic metres (cu m). Proven natural gas reserves in OPEC Member Countries stood at 73.74tr standard cu m at the end of 2020, down 1.4 per cent from the level at the end of 2019.
- ▶ World refinery capacity shrank by 0.3 million barrels/calendar day (b/cd) to stand at 101.1 mb/cd during 2020. The non-OECD region, particularly China, Other Asia and the Middle East, recorded refining capacity additions. Refinery capacity in the OECD declined sharply in 2020 as compared to 2019. Globally, refinery throughput fell by a historic 9.1 per cent to reach 78.0 mb/d in 2020 amid bearish oil demand during the COVID-19 pandemic.
- ▶ The OPEC Reference Basket averaged \$41.47/b in nominal terms during 2020, down from \$64.04/b in 2019, a strong decrease of \$22.57/b, or 35.2 per cent. The volatility level was \$12.55/b, or 30.3 per cent, relative to the yearly average.

SECTION 1

Summary

Table 1.1
OPEC Members' facts and figures, 2020

| | Algeria | Angola | Congo Equatorial Guinea | Gabon | IR Iran | Iraq | Kuwait | Libya | Nigeria | Saudi United Arab Emirates | Venezuela | OPEC |
|--|----------|----------|-------------------------------|---------|---------|-----------|---------|----------|----------|-------------------------------|-----------|-----------|
| Population million inhabitants | 43.90 | 31.13 | 5.52 | 1.41 | 2.11 | 84.15 | 40.15 | 4.46 | 6.64 | 213.40 | 35.01 | 9.28 |
| Land area ¹ 1,000 sq km | 2.382 | 1.248 | 342 | 28 | 268 | 1,648 | 438 | 18 | 1,760 | 924 | 2,150 | 84 |
| GDP per capita \$ | 3,254 | 2,006 | 1,854 | 6,774 | 7,420 | 7,571 | 4,160 | 24,176 | 3,281 | 2,016 | 19,996 | 38,661 |
| GDP at market prices million \$ | 142,842 | 62,440 | 10,232 | 9,524 | 15,642 | 637,112 | 167,037 | 107,936 | 21,797 | 430,197 | 700,118 | 358,869 |
| GDP growth real PPP % | -6.0 | -4.0 | -7.8 | -5.8 | -1.8 | 3.4 | -10.9 | -8.1 | -45.0 | -1.8 | -4.1 | -5.9 |
| Value of exports million \$ | 21,092 | 20,696 | 5,376 | 2,856 | 5,613 | 40,237 | 46,811 | 46,863 | 6,883 | 37,984 | 173,864 | 335,238 |
| Value of imports million \$ | 39,674 | 9,603 | 4,280 | 2,380 | 2,448 | 40,934 | 40,927 | 45,793 | 11,580 | 71,285 | 137,997 | 246,886 |
| Current account balance million \$ | -21,129 | -504 | -579 | -1,135 | -1,738 | -5,300 | -6,250 | -999 | -8,409 | -17,074 | -19,647 | 20,983 |
| Value of petroleum exports million \$ | 13,169 | 18,704 | 3,687 | 1,765 | 2,875 | 7,656 | 44,287 | 35,231 | 5,711 | 27,730 | 119,359 | 32,943 |
| Proven crude oil reserves million barrels | 12,200 | 7,231 | 1,811 | 1,100 | 2,000 | 208,600 | 145,019 | 101,500 | 48,363 | 36,910 | 261,600 | 107,000 |
| Natural gas reserves billion cu m | 4,504 | 301 | 284 | 39 | 26 | 34,077 | 3,714 | 1,784 | 1,505 | 5,750 | 8,438 | 7,726 |
| Crude oil production 1,000 b/d | 898.7 | 1,271.5 | 299.9 | 113.6 | 207.4 | 1,985.3 | 3,996.6 | 2,438.0 | 389.3 | 1,493.2 | 9,213.2 | 2,778.6 |
| Natural gas marketed production million cu m | 85,119.0 | 11,313.4 | 404.8 | 6,023.5 | 501.9 | 253,770.0 | 7,374.1 | 12,883.0 | 17,713.7 | 49,947.3 | 119,000.0 | 55,064.5 |
| Refinery capacity 1,000 b/d | 676.8 | 80.3 | 21.0 | na | 25.0 | 2,201.0 | 828.5 | 800.0 | 634.0 | 461.0 | 2,927.0 | 1,272.0 |
| Refinery throughput 1,000 b/d | 638.8 | 46.7 | 16.6 | na | 16.7 | 1,587.3 | 543.3 | 571.5 | 85.8 | 1.0 | 2,173.3 | 935.8 |
| Output of petroleum products 1,000 b/d | 614.5 | 44.1 | 15.7 | na | 16.0 | 1,577.0 | 587.2 | 780.3 | 80.4 | 0.9 | 2,177.2 | 925.1 |
| Oil demand 1,000 b/d | 383.0 | 98.7 | 6.9 | 4.6 | 44.6 | 1,692.4 | 549.9 | 461.1 | 182.6 | 465.8 | 3,037.3 | 828.2 |
| Crude oil exports ² 1,000 b/d | 438.7 | 1,219.7 | 282.2 | 114.5 | 196.1 | 404.5 | 3,428.4 | 1,826.3 | 347.2 | 1,879.3 | 6,658.6 | 2,418.4 |
| Exports of petroleum products 1,000 b/d | 503.4 | 16.3 | 4.3 | 0.0 | 8.6 | 280.7 | 151.0 | 527.0 | 65.8 | 0.0 | 1,016.6 | 839.6 |
| Imports of petroleum products 1,000 b/d | 35.5 | 134.3 | 0.2 | 4.2 | 6.9 | 91.6 | 76.7 | 14.8 | 147.4 | 465.9 | 353.1 | 120.2 |
| Natural gas exports million cu m | 39,459.0 | 627.6 | 0.0 | 4,025.9 | 0.0 | 12,670.0 | 0.0 | 0.0 | 4,292.0 | 35,586.1 | 0.0 | 8,766.1 |
| | | | | | | | | | | | | 68.5 |
| | | | | | | | | | | | | 0.0 |
| | | | | | | | | | | | | 105,426.8 |

Notes:

1. Land area figures as per official websites.

2. Crude oil exports may include lease condensates and volumes of oil in transit.

Table 1.2

OPEC Members' 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 |
|-----------------------|-------------------|-------------------|-------------------|-------------------|---------------|---------------|-------------------|-------------------|-------------------|-------------------|
| | 1/ | 2/ | 3/ | 4/ | 5/ | 6/ | 7/ | 8/ | 9/ | 10/ |
| Algeria | 650 | 725 | 663 | 663 | 669 | 669 | 635 | 667 | 667 | 695 |
| Gabon | 150 | 150 | 137 | 137 | 160 | 160 | 152 | 159 | 159 | 166 |
| IR Iran | 1,200 | 2,400 | 2,300 | 2,300 | 2,317 | 2,317 | 2,255 | 2,369 | 2,369 | 2,640 |
| Iraq | 1,200 | 1,200 | 1,200 | 1,200 | — | — | 1,466 | 1,540 | — | 2,640 |
| Kuwait | 800 | 1,050 | 900 | 900 | 921 | 999 | 948 | 996 | 996 | 1,037 |
| Libya | 750 | 1,100 | 990 | 990 | 999 | 999 | 948 | 996 | 996 | 1,037 |
| Nigeria | 1,300 | 1,300 | 1,300 | 1,300 | 1,304 | 1,304 | 1,238 | 1,301 | 1,301 | 1,355 |
| Saudi Arabia | 7,150 | 5,000 | 4,353 | 4,353 | 4,353 | 4,353 | 4,133 | 4,343 | 4,343 | 4,524 |
| United Arab Emirates | 1,000 | 1,100 | 950 | 950 | 950 | 950 | 902 | 948 | 948 | 988 |
| Venezuela | 1,500 | 1,675 | 1,555 | 1,555 | 1,574 | 1,574 | 1,495 | 1,571 | 1,571 | 1,636 |
| OPEC | 15,700 | 15,700 | 14,348 | 14,348 | | | 14,172 | 14,890 | | 16,718 |
| OPEC excl Iraq | | | | | 13,247 | 13,325 | | | 13,350 | |

| | Jul 89– Sep 89 | 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 |
|----------------------|-------------------|-------------------|-------------------|---------------|---------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 11/ | 12/ | 13/ | 14/ | 15/ | 16/ | 17/ | 18/ | 19/ | 20/ |
| Algeria | 733 | 771 | 827 | 827 | 827 | nd | 760 | nd | 764 | 732 |
| Gabon | 175 | 184 | 197 | 197 | 285 | nd | 273 | nd | 293 | 281 |
| IR Iran | 2,783 | 2,926 | 3,140 | 3,140 | 3,217 | nd | 3,184 | nd | 3,490 | 3,340 |
| Iraq | 2,783 | 2,926 | 3,140 | 3,140 | — | nd | 505 | nd | 500 | 400 |
| Kuwait | 1,093 | 1,149 | 1,500 | 1,500 | — | nd | 812 | nd | 1,500 | 1,600 |
| Libya | 1,093 | 1,149 | 1,233 | 1,233 | 1,425 | nd | 1,395 | nd | 1,409 | 1,350 |
| Nigeria | 1,428 | 1,501 | 1,611 | 1,611 | 1,840 | nd | 1,751 | nd | 1,857 | 1,780 |
| Saudi Arabia | 4,769 | 5,014 | 5,380 | 5,380 | 8,034 | nd | 7,887 | nd | 8,395 | 8,000 |
| United Arab Emirates | 1,041 | 1,094 | 1,095 | 1,500 | 2,320 | nd | 2,244 | nd | 2,260 | 2,161 |
| Venezuela | 1,724 | 1,812 | 1,945 | 1,945 | 2,235 | nd | 2,147 | nd | 2,360 | 2,257 |
| OPEC | 17,622 | 18,526 | 20,068 | 20,473 | 20,183^a | 23,650* | 20,958 | 24,200* | 22,828 | 21,901 |

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

— No production level allocated.

nd No distribution made.

^ Includes Ecuador and Qatar.

Includes Indonesia and Qatar.

* Includes Ecuador, Indonesia and Qatar.

a. OPEC excluding Kuwait and Iraq.

b. OPEC excluding IR Iran and Iraq.

c. OPEC excluding Libya and Nigeria.

d. OPEC excluding IR Iran, Libya and Venezuela.

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: 1.7 mb/d including condensates. Nigeria: At the 70th Meeting of the OPEC Conference, July 10–11, 1984, a temporary production rise to 1.4 mb/d and 1.45 mb/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.

Summary

**Table 1.2
OPEC Members' crude oil production allocations**

(1,000 b/d)

| | Oct 93–Jun 96 | Jul 96–Dec 97 | 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 |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------------------|---------------|----------------------|-------------------|
| | 21/ | 22/ | 23/ | 24/ | 25/ | 26/ | 27/ | 28/ | 29/ | 30/ |
| Algeria | 750 | 750 | 909 | 50 | 788 | 731 | 788 | 811 | 837 | 853 |
| Gabon | 287 | — | — | — | — | — | — | — | — | — |
| IR Iran | 3,600 | 3,600 | 3,942 | 140 | 3,318 | 3,359 | — | 3,727 | 3,844 | 3,917 |
| Iraq | 400 | 1,200 | 1,314 | — | — | — | — | — | — | — |
| Kuwait | 2,000 | 2,000 | 2,190 | 125 | 1,980 | 1,836 | 1,980 | 2,037 | 2,101 | 2,141 |
| Libya | 1,390 | 1,390 | 1,522 | 80 | 1,323 | 1,227 | 1,323 | 1,361 | 1,404 | 1,431 |
| Nigeria | 1,865 | 1,865 | 2,042 | 125 | 2,033 | 1,885 | 2,033 | 2,091 | 2,157 | 2,198 |
| Saudi Arabia | 8,000 | 8,000 | 8,761 | 300 | 8,023 | 7,438 | 8,023 | 8,253 | 8,512 | 8,674 |
| United Arab Emirates | 2,161 | 2,161 | 2,366 | 125 | 2,157 | 2,000 | 2,157 | 2,219 | 2,289 | 2,333 |
| Venezuela | 2,359 | 2,359 | 2,583 | 200 | 2,845 | 2,720 | 2,845 | 2,926 | 3,019 | 3,077 |
| OPEC | 22,812 | 23,325 | 25,630 | | | | | | | |
| OPEC excl Iraq | | | | 1,145 | 22,467 | 21,196 | 19,149^b | 23,425 | 24,163 | 24,624 |
| Target | | | | 23,762 | | | | | | |

| | Feb 01–Mar 01 | Apr 01–Aug 01 | 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 |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 31/ | 32/ | 33/ | 34/ | 35/ | 36/ | 37/ | 38/ | 39/ | 40/ |
| Algeria | 805 | 773 | 741 | 693 | 735 | 782 | 811 | 782 | 750 | 814 |
| IR Iran | 3,698 | 3,552 | 3,406 | 3,186 | 3,377 | 3,597 | 3,729 | 3,597 | 3,450 | 3,744 |
| Iraq | — | — | — | — | — | — | — | — | — | — |
| Kuwait | 2,021 | 1,941 | 1,861 | 1,741 | 1,845 | 1,966 | 2,038 | 1,966 | 1,886 | 2,046 |
| Libya | 1,350 | 1,296 | 1,242 | 1,162 | 1,232 | 1,312 | 1,360 | 1,312 | 1,258 | 1,365 |
| Nigeria | 2,075 | 1,993 | 1,911 | 1,787 | 1,894 | 2,018 | 2,092 | 2,018 | 1,936 | 2,101 |
| Saudi Arabia | 8,189 | 7,865 | 7,541 | 7,053 | 7,476 | 7,963 | 8,256 | 7,963 | 7,638 | 8,288 |
| United Arab Emirates | 2,201 | 2,113 | 2,025 | 1,894 | 2,007 | 2,138 | 2,217 | 2,138 | 2,051 | 2,225 |
| Venezuela | 2,902 | 2,786 | 2,670 | 2,497 | 2,647 | 2,819 | 2,923 | 2,819 | 2,704 | 2,934 |
| OPEC excl Iraq | 23,241 | 22,319 | 21,397 | 20,013 | 21,213 | 22,595 | 23,425 | 22,595 | 21,673 | 23,517 |

- 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 1.2 mb/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 reflects temporary production adjustments 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.

Table 1.2

OPEC Members' crude oil production allocations

(1,000 b/d)

| | Aug 04– Oct 04 | Nov 1, 04– Mar 16, 05 | 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 |
|---|---------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | 41/ | 42/ | 43/ | 44/ | 45/ | 46/ | 47/ | 48/ | 49/ | 50/ |
| Algeria | 830 | 862 | 878 | 894 | 59 | 25 | nd | nd | nd | 71 |
| Angola | — | — | — | — | — | — | — | nd | nd | 99 |
| IR Iran | 3,817 | 3,964 | 4,037 | 4,110 | 176 | 73 | nd | nd | nd | 199 |
| Iraq | — | — | — | — | — | — | — | — | — | — |
| Kuwait | 2,087 | 2,167 | 2,207 | 2,247 | 100 | 42 | nd | nd | nd | 132 |
| Libya | 1,392 | 1,446 | 1,473 | 1,500 | 72 | 30 | nd | nd | nd | 89 |
| Nigeria | 2,142 | 2,224 | 2,265 | 2,306 | 100 | 42 | nd | nd | nd | 113 |
| Saudi Arabia | 8,450 | 8,775 | 8,937 | 9,099 | 380 | 158 | nd | nd | nd | 466 |
| United Arab Emirates | 2,269 | 2,356 | 2,400 | 2,444 | 101 | 42 | nd | nd | nd | 134 |
| Venezuela | 2,992 | 3,107 | 3,165 | 3,223 | 138 | 57 | nd | nd | nd | 129 |
| OPEC excl Iraq | 23,979 | 24,901 | 25,362 | 25,823 | | | | | | 1,432 |
| OPEC excl Angola and Iraq | | | | | 1,126 | 469 | 500# | | | |
| Target OPEC excl Angola and Iraq | | | | | 26,300# | 25,800# | 27,253# | | | |
| Target OPEC excl Iraq | | | | | | | | 29,673* | 28,808^ | 27,308^ |
| | Jan 09– Dec 11 | Jan 12– Dec 15 | Jan 17– May 17 | Jun 17– Dec 18 | Jan 19– May 19 | Jun 19– Dec 19 | Jan 20– Mar 20 | May 20– Jul 20 | Aug 20– Dec 20 | Jan 21 Apr 21 |
| | 51/ | 52/ | 53/ | 54/ | 55/ | 56/ | 57/ | 58/ | 58/ | 59/ |
| Algeria | nd | nd | 1,039 | 1,039 | 1,025 | 1,025 | 1,013 | 816 | 864 | 876 |
| Angola | nd | nd | 1,673 | 1,673 | 1,481 | 1,481 | 1,481 | 1,180 | 1,249 | 1,267 |
| Congo | — | — | — | — | 315 | 315 | 311 | 251 | 266 | 269 |
| Equatorial Guinea | — | — | — | 178 | 123 | 123 | 122 | 98 | 104 | 105 |
| Gabon | — | — | 193 | 193 | 181 | 181 | 179 | 144 | 153 | 155 |
| IR Iran | nd | nd | 3,797 | 3,797 | — | — | — | — | — | — |
| Iraq | — | nd | 4,351 | 4,351 | 4,512 | 4,512 | 4,462 | 3,592 | 3,804 | 3,857 |
| Kuwait | nd | nd | 2,707 | 2,707 | 2,724 | 2,724 | 2,669 | 2,168 | 2,297 | 2,329 |
| Libya | nd | nd | — | — | — | — | — | — | — | — |
| Nigeria | nd | nd | — | — | 1,685 | 1,774 | 1,753 | 1,412 | 1,495 | 1,516 |
| Saudi Arabia | nd | nd | 10,058 | 10,058 | 10,311 | 10,311 | 10,144 | 8,492 | 8,993 | 9,119 |
| United Arab Emirates | nd | nd | 2,874 | 2,874 | 3,072 | 3,072 | 3,012 | 2,446 | 2,590 | 2,626 |
| Venezuela | nd | nd | 1,972 | 1,972 | — | — | — | — | — | — |
| OPEC | | | 28,664^c | 28,842^c | 25,429^d | 25,518^d | 25,146^d | 20,599^d | 21,815^d | 22,119^d |
| Target OPEC excl Iraq | 24,845[^] | | | | | | | | | |
| Target OPEC | 30,000[^] | 32,500* | | | | | | | | |

- 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 1 mb/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.
- 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 2 mb/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 reflects interim production adjustments 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 reflects a further production adjustment 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 27,253 mb/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 28.8 mb/d.
- 50/ 150th [Extraordinary] Meeting of the OPEC Conference, October 24, 2008: Data reflects a production adjustment of 1.5 mb/d to achieve 27.31 mb/d. Iraq and Indonesia are not called upon to participate in the agreement.
- 51/ The 151th [Extraordinary] Meeting of the Conference, December 17, 2008, agreed to reduce OPEC production excluding Iraq production by a total of 4.2 mb/d from September levels of the actual production based on secondary sources. Iraq is not called upon to participate in the agreement.
- 52/ The 160th Meeting of the Conference, December 14, 2011, decided to maintain the total OPEC production level of 30.0 mb/d. This agreement was maintained at the 161st (June 14, 2012), the 162nd (December 12, 2012), the 163rd (May 31, 2013), the 164th (December 4, 2013), the 165th (June 11, 2014), the 166th (November 27, 2014) and — for the last time — at the 167th (June 5, 2015) Meeting of the Conference.
- 53/ The 171st Meeting of the Conference, November 30, 2016, decided to reduce its production by around 1.2 mb/d to bring its ceiling to 32.5 mb/d, effective of January 1, 2017. Agreed crude oil production levels were allocated, with the exception of Libya and Nigeria.
- 54/ The 172nd Meeting of the Conference, May 25, 2017, decided to extend its production adjustments for a further period of nine months. Furthermore, the Conference approved Equatorial Guinea's admission to the Organization with immediate effect (the table is adjusted accordingly). The 173rd Meeting of the Conference, November 30, 2017, amended the adjustment to take effect for the whole year 2018.
- 55/ The 175th Meeting of the Conference, December 6–7, 2018, decided to adjust OPEC overall production by 800,000 b/d from October 2018 levels, effective as of January 2019, for an initial period of six months, with a review in April 2019.
- 56/ The 176th Meeting of the OPEC Conference, July 1, 2019, decided to extend the production adjustments agreed at the 175th Meeting of the OPEC Conference for an additional period of nine months and to adjust the required production level for Nigeria from 1.685 mb/d to 1.774 mb/d effective June 2019.
- 57/ The 177th Meeting of the OPEC Conference, December 6, 2019, decided to support additional adjustments to the adjustment levels as agreed at the 175th Meeting of the OPEC Conference.
- 58/ The 9th and 10th OPEC and non-OPEC Ministerial Meetings, April 9/10 and 12, 2020, agreed to adjust downwards overall crude oil production from OPEC and participating non-OPEC countries by 9.7 mb/d, starting on May 1, 2020, for an initial period of two months that concludes on June 30, 2020. The 179th Meeting of the OPEC Conference, as well as the 11th OPEC and non-OPEC Ministerial Meeting, held on June 6, 2020, agreed on extending the production adjustments pertaining in May and June by one further month.
- 59/ The 12th OPEC and non-OPEC Ministerial Meeting, January 5, 2021, agreed to increase production from OPEC and participating non-OPEC countries by 500,000 b/d starting in January 2021, and adjusting the production reduction from 7.7 mb/d to 7.2 mb/d. The decision for OPEC production allocation was reconfirmed by the 13th and 14th OPEC and non-OPEC Ministerial Meeting, January 5, 2021, and March 4, 2021.

Summary

**Table 1.2
OPEC Members' crude oil production allocations**

(1,000 b/d)

| | May 21 | Jun 21 | Jul 21 |
|----------------------|---------------------------|---------------------------|---------------------------|
| | 60/ | 60/ | 60/ |
| Algeria | 887 | 898 | 912 |
| Angola | 1,283 | 1,298 | 1,319 |
| Congo | 273 | 276 | 281 |
| Equatorial Guinea | 107 | 108 | 110 |
| Gabon | 157 | 159 | 161 |
| IR Iran | - | - | - |
| Iraq | 3,905 | 3,954 | 4,016 |
| Kuwait | 2,358 | 2,387 | 2,425 |
| Libya | - | - | - |
| Nigeria | 1,535 | 1,554 | 1,579 |
| Saudi Arabia | 9,232 | 9,347 | 9,495 |
| United Arab Emirates | 2,659 | 2,692 | 2,735 |
| Venezuela | - | - | - |
| OPEC | 22,396^d | 22,673^d | 23,033^d |

60/ The 15th OPEC and non-OPEC Ministerial Meeting, April 1, 2021, approved the adjustment of the production levels for May, June and July 2021.

SECTION 2

Macro-economics

Table 2.1
OPEC Members' population

(million inhabitants)

| | 2016 | 2017 | 2018 | 2019 | 2020 | change 20/19 |
|----------------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| Algeria | 40.836 | 41.721 | 42.578 | 43.424 | 43.900 | 0.476 |
| Angola | 27.503 | 28.360 | 29.250 | 30.176 | 31.128 | 0.952 |
| Congo | 4.981 | 5.111 | 5.244 | 5.381 | 5.518 | 0.137 |
| Equatorial Guinea | 1.221 | 1.268 | 1.314 | 1.360 | 1.406 | 0.046 |
| Gabon | 1.980 | 2.025 | 2.053 | 2.080 | 2.108 | 0.028 |
| IR Iran | 80.277 | 81.423 | 82.360 | 83.269 | 84.149 | 0.880 |
| Iraq | 36.169 | 37.140 | 38.124 | 39.128 | 40.150 | 1.022 |
| Kuwait | 3.925 | 4.083 | 4.227 | 4.420 | 4.465 | 0.044 |
| Libya | 6.385 | 6.448 | 6.513 | 6.578 | 6.644 | 0.066 |
| Nigeria | 192.414 | 197.697 | 202.988 | 208.282 | 213.402 | 5.120 |
| Saudi Arabia | 31.788 | 32.552 | 33.414 | 34.218 | 35.013 | 0.795 |
| United Arab Emirates | 9.121 | 9.304 | 9.367 | 9.504 | 9.282 | -0.221 |
| Venezuela | 31.028 | 31.431 | 31.828 | 32.220 | 32.375 | 0.155 |
| OPEC | 467.629 | 478.562 | 489.260 | 500.039 | 509.540 | 9.501 |

Table 2.2
OPEC Members' GDP at current market prices

(m \$)

| | 2016 | 2017 | 2018 | 2019 | 2020 |
|----------------------|------------------|------------------|------------------|------------------|------------------|
| Algeria | 157,828 | 170,097 | 175,415 | 171,149 | 142,842 |
| Angola | 101,124 | 122,124 | 101,615 | 84,516 | 62,440 |
| Congo | 10,159 | 11,110 | 13,402 | 12,542 | 10,232 |
| Equatorial Guinea | 11,241 | 12,201 | 13,278 | 11,025 | 9,524 |
| Gabon | 14,020 | 14,620 | 17,210 | 16,875 | 15,642 |
| IR Iran | 418,977 | 446,501 | 457,587 | 582,521 | 637,112 |
| Iraq | 166,603 | 187,534 | 227,512 | 235,097 | 167,037 |
| Kuwait | 109,407 | 120,688 | 140,672 | 134,620 | 107,936 |
| Libya | 18,563 | 30,211 | 41,432 | 39,832 | 21,797 |
| Nigeria | 404,649 | 375,745 | 421,742 | 406,176 | 430,197 |
| Saudi Arabia | 644,936 | 688,586 | 786,522 | 792,967 | 700,118 |
| United Arab Emirates | 357,045 | 385,606 | 422,215 | 421,142 | 358,869 |
| Venezuela | 279,249 | 143,841 | 98,437 | 63,960 | 47,255 |
| OPEC | 2,693,800 | 2,708,864 | 2,917,039 | 2,972,421 | 2,711,001 |

**Table 2.3
OPEC Members' real GDP growth rates PPP based weights (%)**

| | 2016 | 2017 | 2018 | 2019 | 2020 |
|----------------------|------------|-------------|-------------|-------------|-------------|
| Algeria | 3.2 | 1.3 | 1.2 | 0.8 | -6.0 |
| Angola | -2.6 | -0.1 | -2.0 | -0.6 | -4.0 |
| Congo | -10.7 | -4.4 | -6.4 | -0.6 | -7.8 |
| Equatorial Guinea | -8.8 | -5.7 | -6.4 | -5.6 | -5.8 |
| Gabon | 2.1 | 0.5 | 0.8 | 3.9 | -1.8 |
| IR Iran | 13.4 | 3.8 | -6.0 | -6.8 | 3.4 |
| Iraq | 15.2 | -3.4 | 0.8 | 4.5 | -10.9 |
| Kuwait | 2.9 | -4.7 | 1.2 | 0.4 | -8.1 |
| Libya | -7.4 | 64.0 | 17.9 | 13.2 | -45.0 |
| Nigeria | -1.6 | 0.8 | 1.9 | 2.2 | -1.8 |
| Saudi Arabia | 1.7 | -0.7 | 2.4 | 0.3 | -4.1 |
| United Arab Emirates | 3.1 | 2.4 | 1.2 | 1.7 | -5.9 |
| Venezuela | -17.0 | -15.7 | -19.6 | -35.0 | -25.0 |
| OPEC | 2.1 | -0.2 | -1.0 | -1.8 | -4.8 |

Notes:

Aggregates were compiled on the basis of 2017 GDP weights using 2017 purchasing power parities (PPP).

**Table 2.4
OPEC Members' values of exports (m \$)**

| | 2016 | 2017 | 2018 | 2019 | 2020 |
|----------------------|----------------|------------------|------------------|------------------|----------------|
| Algeria | 33,396 | 37,937 | 44,514 | 38,059 | 21,092 |
| Angola | 28,441 | 35,421 | 41,851 | 32,877 | 20,696 |
| Congo | 4,329 | 5,418 | 8,010 | 7,390 | 5,376 |
| Equatorial Guinea | 5,751 | 5,122 | 5,068 | 4,099 | 2,856 |
| Gabon | 4,519 | 5,022 | 5,672 | 5,764 | 5,613 |
| IR Iran | 93,868 | 110,010 | 106,981 | 68,034 | 40,237 |
| Iraq | 46,830 | 63,604 | 92,831 | 88,903 | 46,811 |
| Kuwait | 52,113 | 61,788 | 79,789 | 73,428 | 46,863 |
| Libya | 9,446 | 17,599 | 27,254 | 25,871 | 6,883 |
| Nigeria | 37,301 | 49,492 | 65,357 | 67,481 | 37,984 |
| Saudi Arabia | 183,607 | 221,862 | 294,387 | 261,617 | 173,864 |
| United Arab Emirates | 360,626 | 384,044 | 392,863 | 389,372 | 335,238 |
| Venezuela | 27,614 | 33,887 | 33,602 | 20,677 | 8,236 |
| OPEC | 887,842 | 1,031,204 | 1,198,180 | 1,083,572 | 751,748 |

Notes:

All figures fob.

Table 2.5

OPEC Members' values of petroleum exports

(m \$)

| | 2016 | 2017 | 2018 | 2019 | 2020 |
|----------------------|----------------|----------------|----------------|----------------|----------------|
| Algeria | 18,643 | 22,355 | 26,082 | 22,674 | 13,169 |
| Angola | 26,022 | 32,026 | 37,801 | 32,334 | 18,704 |
| Congo | 3,444 | 4,763 | 7,468 | 7,072 | 3,687 |
| Equatorial Guinea | 2,447 | 2,461 | 3,150 | 2,644 | 1,765 |
| Gabon | 3,128 | 3,596 | 4,419 | 4,767 | 2,875 |
| IR Iran | 41,123 | 52,728 | 60,519 | 19,402 | 7,656 |
| Iraq | 43,684 | 59,730 | 84,218 | 80,027 | 44,287 |
| Kuwait | 40,600 | 48,928 | 64,582 | 52,433 | 35,231 |
| Libya | 9,313 | 15,536 | 25,386 | 24,197 | 5,711 |
| Nigeria | 27,295 | 37,983 | 54,513 | 45,106 | 27,730 |
| Saudi Arabia | 136,194 | 170,241 | 231,585 | 200,487 | 119,359 |
| United Arab Emirates | 40,436 | 50,647 | 57,890 | 52,452 | 32,943 |
| Venezuela | 25,942 | 31,497 | 29,810 | 18,335 | 7,960 |
| OPEC | 418,270 | 532,491 | 687,422 | 561,932 | 321,078 |

Table 2.6

OPEC Members' values of imports

(m \$)

| | 2016 | 2017 | 2018 | 2019 | 2020 |
|----------------------|----------------|----------------|----------------|----------------|----------------|
| Algeria | 56,086 | 55,609 | 56,184 | 49,572 | 39,674 |
| Angola | 13,041 | 14,463 | 15,798 | 11,041 | 9,603 |
| Congo | 6,788 | 4,753 | 5,543 | 5,654 | 4,280 |
| Equatorial Guinea | 3,184 | 2,916 | 3,070 | 2,824 | 2,380 |
| Gabon | 2,651 | 2,249 | 2,342 | 2,676 | 2,448 |
| IR Iran | 87,191 | 118,913 | 62,167 | 53,450 | 40,934 |
| Iraq | 44,116 | 48,506 | 56,876 | 72,283 | 40,927 |
| Kuwait | 53,090 | 56,293 | 61,566 | 54,940 | 45,793 |
| Libya | 8,667 | 10,556 | 13,786 | 16,543 | 11,580 |
| Nigeria | 46,552 | 49,508 | 73,851 | 93,969 | 71,285 |
| Saudi Arabia | 140,170 | 134,519 | 137,065 | 153,163 | 137,997 |
| United Arab Emirates | 270,442 | 290,783 | 281,536 | 288,398 | 246,886 |
| Venezuela | 17,977 | 13,364 | 13,505 | 7,192 | 8,407 |
| OPEC | 749,955 | 802,433 | 783,289 | 811,704 | 662,195 |

Notes:

All figures cif.

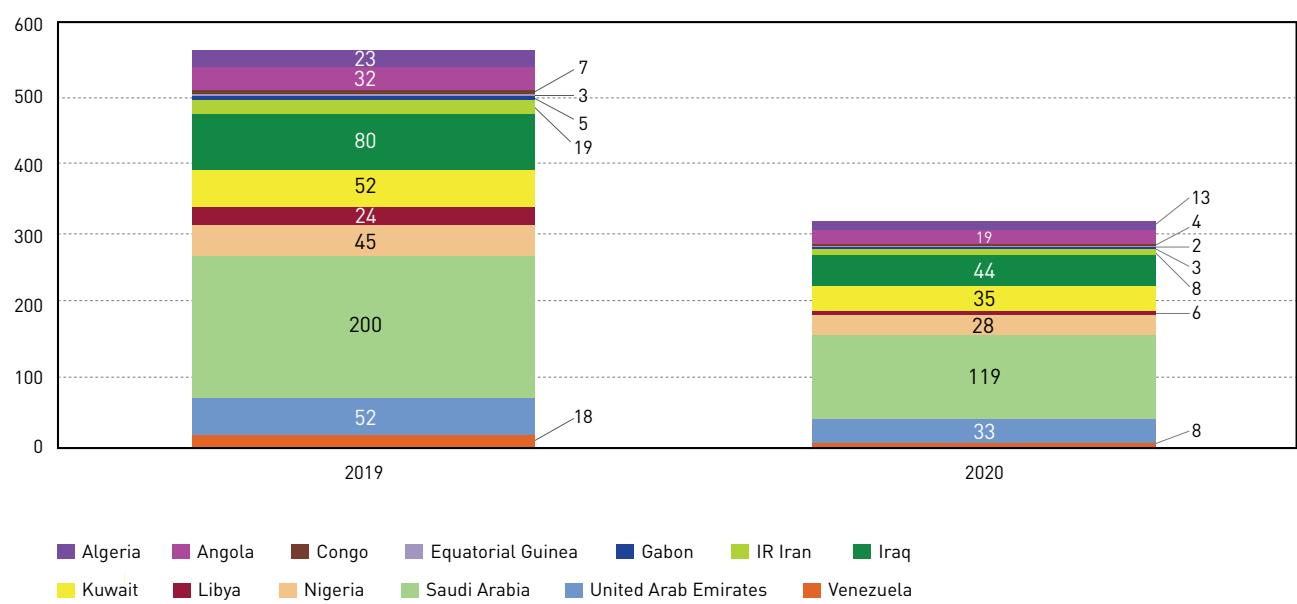
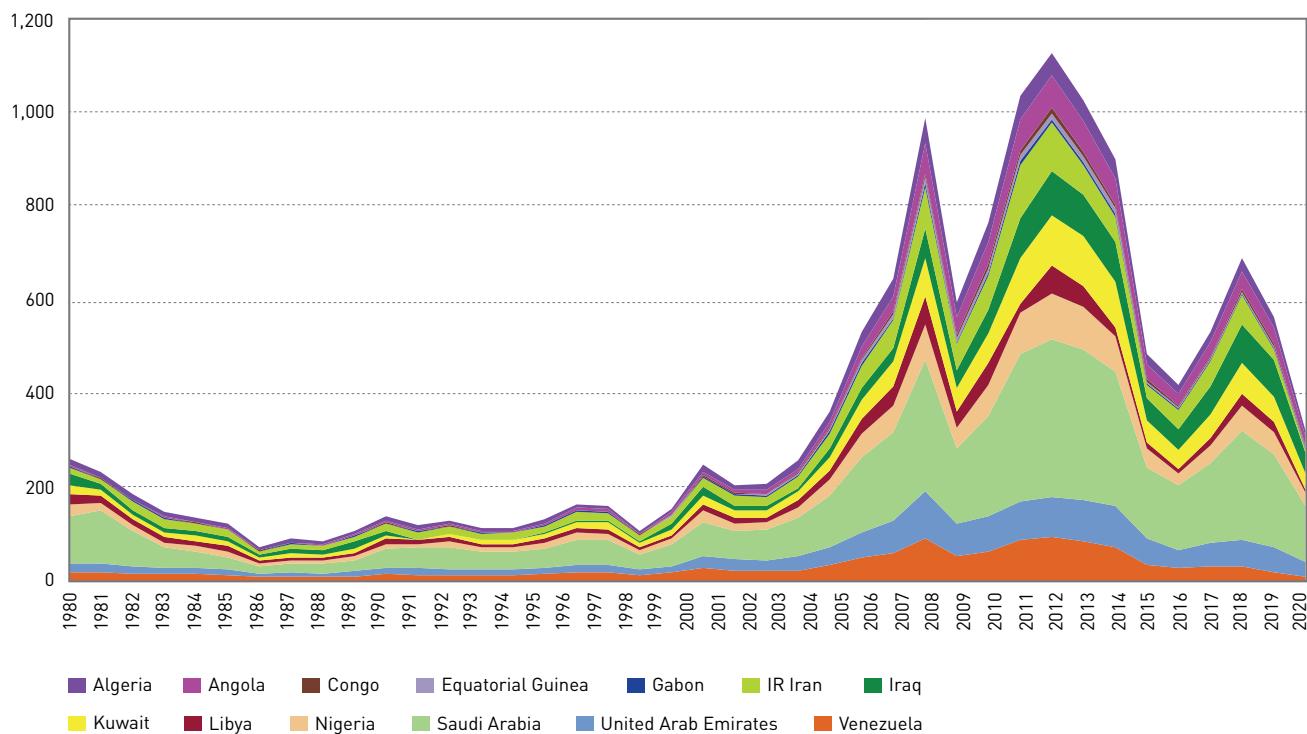
Table 2.7
Current account balances in OPEC Members

(m \$)

| | 2016 | 2017 | 2018 | 2019 | 2020 |
|----------------------|----------------|---------------|----------------|----------------|----------------|
| Algeria | -26,032 | -21,763 | -15,820 | -18,813 | -21,129 |
| Angola | -3,085 | -633 | 7,403 | 34 | -504 |
| Congo | -3,594 | -835 | 685 | -110 | -579 |
| Equatorial Guinea | -557 | -518 | -733 | -991 | -1,135 |
| Gabon | -1,416 | -724 | -619 | -825 | -1,738 |
| IR Iran | 16,388 | 15,816 | 16,959 | 3,754 | -5,300 |
| Iraq | 2,158 | 14,841 | 35,270 | 15,763 | -6,250 |
| Kuwait | 5,057 | 9,603 | 20,395 | 22,141 | -999 |
| Libya | -4,610 | 4,513 | 11,361 | 7,291 | -8,409 |
| Nigeria | 2,722 | 10,399 | 5,334 | -17,016 | -17,074 |
| Saudi Arabia | -23,843 | 10,464 | 71,972 | 46,949 | -19,647 |
| United Arab Emirates | 13,206 | 27,474 | 40,493 | 37,357 | 20,983 |
| Venezuela | -3,870 | 8,706 | 8,613 | 6,733 | -3,717 |
| OPEC | -27,476 | 77,346 | 201,312 | 102,267 | -65,499 |

Graph 2.1
OPEC Members' values of petroleum exports

(bn \$)



SECTION 3

Oil data: upstream

Oil data: upstream

**Table 3.1
World proven crude oil reserves by country**

(mb)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|------------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| OECD Americas | 44,483 | 51,270 | 54,973 | 54,580 | 55,192 | 1.1 |
| Canada ¹ | 4,418 | 5,423 | 5,192 | 4,906 | 5,005 | 2.0 |
| Chile | 150 | 150 | 150 | 150 | 150 | 0.0 |
| Mexico | 7,142 | 6,537 | 5,807 | 5,333 | 5,498 | 3.1 |
| United States | 32,773 | 39,160 | 43,824 | 44,191 | 44,539 | 0.8 |
| OECD Europe | 12,264 | 12,454 | 13,098 | 13,224 | 12,412 | -6.1 |
| Denmark | 491 | 439 | 428 | 441 | 441 | 0.0 |
| Norway | 7,601 | 7,918 | 8,645 | 8,523 | 7,902 | -7.3 |
| United Kingdom | 2,564 | 2,500 | 2,500 | 2,700 | 2,500 | -7.4 |
| Others | 1,608 | 1,597 | 1,525 | 1,560 | 1,569 | 0.6 |
| OECD Asia and Pacific | 2,491 | 2,493 | 2,483 | 2,477 | 2,475 | -0.1 |
| Australia | 2,390 | 2,390 | 2,390 | 2,390 | 2,390 | 0.0 |
| Others | 101 | 103 | 93 | 87 | 85 | -2.3 |
| China | 25,620 | 25,627 | 25,927 | 26,154 | 26,023 | -0.5 |
| India | 4,622 | 4,495 | 4,423 | 4,423 | 4,605 | 4.1 |
| Other Asia | 13,548 | 13,583 | 13,415 | 13,577 | 12,841 | -5.4 |
| Brunei | 1,100 | 1,100 | 1,100 | 1,100 | 1,100 | 0.0 |
| Indonesia | 3,230 | 3,310 | 3,170 | 3,150 | 2,480 | -21.3 |
| Malaysia | 3,600 | 3,600 | 3,600 | 3,600 | 3,600 | 0.0 |
| Vietnam | 4,400 | 4,400 | 4,400 | 4,400 | 4,400 | 0.0 |
| Others | 1,218 | 1,173 | 1,145 | 1,327 | 1,261 | -5.0 |
| Latin America | 329,689 | 329,283 | 330,461 | 331,628 | 330,719 | -0.3 |
| Argentina | 2,185 | 2,162 | 2,017 | 2,389 | 2,483 | 3.9 |
| Brazil | 13,000 | 12,634 | 12,835 | 13,435 | 12,715 | -5.4 |
| Colombia | 2,002 | 1,665 | 1,782 | 1,960 | 2,036 | 3.9 |
| Ecuador | 8,273 | 8,273 | 8,273 | 8,273 | 8,273 | 0.0 |
| Venezuela | 302,250 | 302,809 | 303,806 | 303,806 | 303,561 | -0.1 |
| Others | 1,979 | 1,740 | 1,748 | 1,765 | 1,651 | -6.5 |
| Middle East | 807,730 | 804,639 | 803,184 | 854,945 | 860,037 | 0.6 |
| IR Iran | 157,200 | 155,600 | 155,600 | 208,600 | 208,600 | 0.0 |
| Iraq | 148,766 | 147,223 | 145,019 | 145,019 | 145,019 | 0.0 |
| Kuwait | 101,500 | 101,500 | 101,500 | 101,500 | 101,500 | 0.0 |
| Oman | 5,373 | 5,373 | 5,373 | 5,373 | 5,373 | 0.0 |
| Qatar | 25,244 | 25,244 | 25,244 | 25,244 | 25,244 | 0.0 |
| Saudi Arabia | 266,208 | 266,260 | 267,026 | 258,600 | 261,600 | 1.2 |
| Syrian Arab Republic | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | 0.0 |
| United Arab Emirates | 97,800 | 97,800 | 97,800 | 105,000 | 107,000 | 1.9 |
| Others | 3,139 | 3,139 | 3,122 | 3,109 | 3,201 | 3.0 |
| Africa | 128,875 | 127,677 | 126,972 | 125,228 | 124,560 | -0.5 |
| Algeria | 12,200 | 12,200 | 12,200 | 12,200 | 12,200 | 0.0 |
| Angola | 9,523 | 8,384 | 8,160 | 7,783 | 7,231 | -7.1 |
| Congo | 2,982 | 2,982 | 2,982 | 1,947 | 1,811 | -7.0 |
| Egypt | 3,384 | 3,325 | 3,325 | 3,075 | 3,075 | 0.0 |
| Equatorial Guinea | 1,100 | 1,100 | 1,100 | 1,100 | 1,100 | 0.0 |
| Gabon | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 0.0 |
| Libya | 48,363 | 48,363 | 48,363 | 48,363 | 48,363 | 0.0 |
| Nigeria | 37,453 | 37,453 | 36,972 | 36,890 | 36,910 | 0.1 |
| Sudans | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 0.0 |
| Others | 6,870 | 6,870 | 6,870 | 6,870 | 6,870 | 0.0 |
| Russia | 80,000 | 80,000 | 80,000 | 80,000 | 80,000 | 0.0 |
| Other Eurasia | 38,874 | 38,874 | 38,874 | 38,874 | 38,874 | 0.0 |
| Azerbaijan | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 0.0 |
| Belarus | 198 | 198 | 198 | 198 | 198 | 0.0 |
| Kazakhstan | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | 0.0 |
| Turkmenistan | 600 | 600 | 600 | 600 | 600 | 0.0 |
| Ukraine | 395 | 395 | 395 | 395 | 395 | 0.0 |
| Uzbekistan | 594 | 594 | 594 | 594 | 594 | 0.0 |
| Others | 87 | 87 | 87 | 87 | 87 | 0.0 |
| Other Europe | 932 | 932 | 932 | 914 | 914 | 0.0 |
| Total world | 1,489,127 | 1,491,327 | 1,494,742 | 1,546,024 | 1,548,652 | 0.2 |
| of which | | | | | | |
| OPEC | 1,187,345 | 1,183,674 | 1,182,528 | 1,232,808 | 1,236,895 | 0.3 |
| OPEC percentage | 79.7 | 79.4 | 79.1 | 79.7 | 79.9 | |
| OECD | 59,238 | 66,217 | 70,554 | 70,281 | 70,079 | -0.3 |

Notes: Figures as at year-end.

1. Data excludes oil sands.

Table 3.2
Active rigs by country

(number of rigs)

| | 2016 | 2017 | 2018 | 2019 | 2020 | change 20/19 |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|-----------------|
| OECD Americas | 866 | 1,153 | 1,252 | 989 | 475 | -514 |
| Canada | 209 | 205 | 141 | 135 | 91 | -44 |
| Chile | 4 | 3 | 2 | 1 | 2 | 1 |
| Mexico | 19 | 15 | 31 | 49 | 41 | -8 |
| United States | 634 | 930 | 1,078 | 804 | 341 | -463 |
| OECD Europe | 80 | 64 | 72 | 77 | 52 | -25 |
| Germany | 4 | 3 | 5 | 4 | 0 | -4 |
| Italy | 4 | 4 | 3 | 5 | 1 | -4 |
| Netherlands | 2 | 4 | 1 | 3 | 2 | -1 |
| Norway | 16 | 16 | 18 | 17 | 17 | 0 |
| Poland | 8 | 6 | 6 | 6 | 3 | -3 |
| United Kingdom | 11 | 5 | 11 | 11 | 5 | -6 |
| Others | 35 | 26 | 28 | 31 | 24 | -7 |
| OECD Asia and Pacific | 10 | 15 | 24 | 29 | 17 | -12 |
| Australia | 9 | 14 | 22 | 25 | 14 | -11 |
| New Zealand | 0 | 0 | 1 | 2 | 1 | -1 |
| Others | 1 | 1 | 1 | 2 | 2 | 0 |
| China¹ | 25 | 32 | 35 | 38 | 30 | -8 |
| India | 116 | 116 | 124 | 109 | 81 | -28 |
| Other Asia | 62 | 74 | 67 | 65 | 49 | -16 |
| Indonesia | 16 | 34 | 24 | 26 | 26 | 0 |
| Malaysia | 4 | 7 | 7 | 12 | 3 | -9 |
| Pakistan | 21 | 20 | 19 | 15 | 13 | -2 |
| Others | 21 | 13 | 17 | 12 | 7 | -5 |
| Latin America | 247 | 325 | 304 | 265 | 190 | -75 |
| Argentina | 59 | 71 | 74 | 50 | 29 | -21 |
| Bolivia | 5 | 3 | 3 | 5 | 2 | -3 |
| Brazil | 13 | 14 | 10 | 14 | 9 | -5 |
| Colombia | 19 | 25 | 30 | 33 | 14 | -19 |
| Ecuador | 7 | 14 | 28 | 5 | 5 | 0 |
| Trinidad & Tobago | 3 | 5 | 2 | 3 | 3 | 0 |
| Venezuela | 138 | 189 | 151 | 149 | 124 | -25 |
| Others | 3 | 4 | 6 | 6 | 4 | -2 |
| Middle East | 566 | 535 | 566 | 532 | 383 | -149 |
| IR Iran | 153 | 157 | 157 | 117 | 117 | 0 |
| Iraq | 44 | 54 | 80 | 77 | 30 | -47 |
| Kuwait | 58 | 78 | 85 | 87 | 85 | -2 |
| Oman | 59 | 55 | 51 | 53 | 42 | -11 |
| Qatar | 10 | 17 | 9 | 14 | 8 | -6 |
| Saudi Arabia | 161 | 111 | 125 | 115 | 59 | -56 |
| United Arab Emirates | 79 | 59 | 57 | 66 | 40 | -26 |
| Yemen | 0 | 0 | 0 | 1 | 1 | 0 |
| Others | 2 | 4 | 2 | 2 | 1 | -1 |
| Africa | 141 | 118 | 173 | 173 | 129 | -44 |
| Algeria | 52 | 50 | 50 | 42 | 22 | -20 |
| Angola | 10 | 7 | 8 | 21 | 7 | -14 |
| Congo | 10 | 10 | 16 | 4 | 5 | 1 |
| Egypt | 24 | 22 | 27 | 31 | 17 | -14 |
| Equatorial Guinea | 2 | 2 | 2 | 1 | 0 | -1 |
| Gabon | 0 | 2 | 4 | 9 | 5 | -4 |
| Libya | 17 | 1 | 9 | 16 | 11 | -5 |
| Nigeria | 9 | 13 | 32 | 17 | 49 | 32 |
| Others | 17 | 11 | 25 | 32 | 13 | -19 |
| Other Europe | 12 | 12 | 14 | 14 | 12 | -2 |
| Romania | 6 | 7 | 10 | 10 | 10 | 0 |
| Others | 6 | 5 | 4 | 4 | 2 | -2 |
| Total world^{1,2} | 2,125 | 2,444 | 2,631 | 2,291 | 1,418 | -873 |
| of which | | | | | | |
| OPEC | 733 | 733 | 776 | 721 | 554 | -167 |
| OPEC percentage | 34.5 | 30.0 | 29.5 | 31.5 | 39.1 | |
| OECD | 956 | 1,232 | 1,348 | 1,095 | 544 | -551 |

Notes:

Figure as at year end.

1. Excluding onshore rigs for China.

2. Excluding Russia and Other Eurasia.

Table 3.3
Wells completed in OPEC Members

| | 2016 | 2017 | 2018 | 2019 | 2020 | change 20/19 |
|---------------------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| Algeria | 292 | 332 | 277 | 265 | 160 | -105 |
| Angola | 67 | 43 | 32 | 104 | 14 | -90 |
| Congo | 64 | 64 | 80 | 15 | 9 | -6 |
| Equatorial Guinea | 10 | 5 | 21 | 9 | 6 | -3 |
| Gabon | 14 | 11 | 27 | 59 | 38 | -21 |
| IR Iran | 206 | 216 | 195 | 117 | 105 | -12 |
| Iraq | 131 | 139 | 160 | 190 | 171 | -19 |
| Kuwait ¹ | 622 | 555 | 488 | 379 | 444 | 65 |
| Libya | 14 | 5 | 35 | 115 | 75 | -40 |
| Nigeria | 76 | 76 | 81 | 100 | 81 | -19 |
| Saudi Arabia ¹ | 622 | 594 | 588 | 580 | 522 | -58 |
| United Arab Emirates | 271 | 364 | 399 | 440 | 396 | -44 |
| Venezuela | 736 | 478 | 710 | 639 | 263 | -376 |
| OPEC | 3,125 | 2,882 | 3,093 | 3,012 | 2,284 | -728 |
| Total world | 52,086 | 65,614 | 72,230 | 67,818 | 46,519 | -21,299 |

Notes:

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

Table 3.4
Daily and cumulative crude oil production in OPEC Members (1,000 b)

| Daily crude oil production | | <i>(average)</i> | | | | | |
|-----------------------------------|--|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | 1970 | 1980 | 1990 | 2000 | 2010 | 2020 |
| Algeria | | 1,029.1 | 1,019.9 | 783.5 | 796.0 | 1,189.8 | 898.7 |
| Angola | | 83.9 | 150.0 | 473.8 | 736.1 | 1,757.6 | 1,271.5 |
| Congo | | 0.0 | 55.8 | 156.0 | 267.1 | 308.6 | 299.9 |
| Equatorial Guinea | | 0.0 | 0.0 | 0.0 | 115.3 | 237.1 | 113.6 |
| Gabon | | 108.8 | 174.5 | 274.4 | 282.8 | 233.2 | 207.4 |
| IR Iran | | 3,829.0 | 1,467.4 | 3,135.3 | 3,661.3 | 3,544.0 | 1,985.3 |
| Iraq | | 1,548.6 | 2,646.4 | 2,112.6 | 2,810.0 | 2,358.1 | 3,996.6 |
| Kuwait ¹ | | 2,989.6 | 1,663.7 | 858.6 | 1,996.1 | 2,312.1 | 2,438.0 |
| Libya | | 3,318.0 | 1,831.6 | 1,389.1 | 1,347.2 | 1,486.6 | 389.3 |
| Nigeria | | 1,083.1 | 2,058.0 | 1,726.7 | 2,053.6 | 2,048.3 | 1,493.2 |
| Saudi Arabia ¹ | | 3,799.1 | 9,900.5 | 6,412.5 | 8,094.5 | 8,165.6 | 9,213.2 |
| United Arab Emirates | | 779.6 | 1,701.9 | 1,762.6 | 2,174.7 | 2,323.8 | 2,778.6 |
| Venezuela | | 3,708.0 | 2,165.0 | 2,135.2 | 2,891.0 | 2,853.6 | 568.6 |
| OPEC | | 22,276.8 | 24,834.7 | 21,220.3 | 27,225.6 | 28,818.5 | 25,654.0 |

Cumulative crude oil production up to and including year (1,000 b)

| | 1970 | 1980 | 1990 | 2000 | 2010 | 2020 |
|---------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Algeria | 2,569,469 | 6,404,548 | 8,974,340 | 11,837,030 | 16,079,015 | 20,126,810 |
| Angola | 76,423 | 623,359 | 1,681,478 | 3,972,081 | 8,818,353 | 14,632,186 |
| Congo | 5,406 | 83,269 | 503,937 | 1,277,335 | 2,185,806 | 3,173,024 |
| Equatorial Guinea | 0 | 0 | 0 | 125,946 | 1,080,047 | 1,704,524 |
| Gabon | 195,732 | 870,019 | 1,507,592 | 2,691,226 | 3,586,461 | 4,369,926 |
| IR Iran | 12,357,977 | 29,969,896 | 38,410,483 | 51,367,070 | 65,152,744 | 77,051,255 |
| Iraq | 7,476,078 | 15,826,156 | 22,246,208 | 26,918,241 | 34,596,929 | 48,218,807 |
| Kuwait ¹ | 13,028,906 | 21,993,164 | 25,857,094 | 32,092,887 | 40,548,105 | 50,702,426 |
| Libya | 5,476,384 | 12,810,843 | 16,929,582 | 21,993,272 | 27,594,678 | 30,317,094 |
| Nigeria | 1,138,896 | 8,389,456 | 13,656,562 | 20,572,881 | 28,198,355 | 34,420,268 |
| Saudi Arabia ¹ | 13,283,848 | 42,306,785 | 61,814,608 | 91,266,532 | 122,387,773 | 158,323,836 |
| United Arab Emirates | 1,160,471 | 7,164,231 | 11,921,927 | 19,785,670 | 28,265,801 | 38,748,431 |
| Venezuela | 26,301,976 | 36,046,663 | 42,528,079 | 51,772,971 | 62,363,887 | 70,147,603 |
| OPEC | 83,071,565 | 182,488,388 | 246,031,889 | 335,673,140 | 440,857,955 | 551,936,190 |

Notes:

1. Figures include share of production from Neutral Zone.

Oil data: upstream

Table 3.5
World crude oil production by country

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| OECD Americas | 12,194.3 | 12,535.8 | 14,052.8 | 15,274.3 | 14,143.0 | -7.4 |
| Canada | 1,185.5 | 1,212.9 | 1,272.8 | 1,303.8 | 1,198.8 | -8.1 |
| Chile | 3.7 | 3.0 | 3.0 | 2.8 | 1.5 | -47.2 |
| Mexico | 2,153.5 | 1,948.4 | 1,813.0 | 1,678.1 | 1,659.7 | -1.1 |
| United States | 8,851.6 | 9,371.4 | 10,964.1 | 12,289.5 | 11,283.0 | -8.2 |
| OECD Europe | 2,927.6 | 2,874.8 | 2,862.2 | 2,774.7 | 2,969.3 | 7.0 |
| Denmark | 140.1 | 136.6 | 114.9 | 101.7 | 71.0 | -30.2 |
| Norway | 1,614.6 | 1,588.3 | 1,486.8 | 1,408.2 | 1,690.7 | 20.1 |
| United Kingdom | 914.8 | 891.2 | 984.9 | 1,007.2 | 930.5 | -7.6 |
| Others | 258.1 | 258.7 | 275.7 | 257.6 | 277.1 | 7.6 |
| OECD Asia and Pacific | 328.6 | 298.4 | 311.1 | 388.6 | 376.5 | -3.1 |
| Australia | 289.8 | 263.0 | 283.7 | 360.7 | 351.3 | -2.6 |
| Others | 38.8 | 35.4 | 27.4 | 27.9 | 25.2 | -9.9 |
| China | 3,986.1 | 3,821.5 | 3,787.0 | 3,825.0 | 3,889.0 | 1.7 |
| India | 720.8 | 719.9 | 695.6 | 654.6 | 615.7 | -5.9 |
| Other Asia | 2,200.9 | 2,094.0 | 1,997.1 | 1,926.8 | 1,768.6 | -8.2 |
| Brunei | 109.1 | 100.6 | 99.5 | 109.6 | 100.5 | -8.3 |
| Indonesia | 737.9 | 710.2 | 684.6 | 664.0 | 630.8 | -5.0 |
| Malaysia | 656.6 | 648.0 | 650.9 | 608.7 | 539.6 | -11.4 |
| Thailand | 163.2 | 141.1 | 129.1 | 125.9 | 117.0 | -7.1 |
| Vietnam | 303.8 | 272.0 | 240.3 | 221.6 | 193.7 | -12.6 |
| Others | 230.2 | 222.0 | 192.6 | 196.8 | 187.0 | -5.0 |
| Latin America | 4,694.9 | 4,730.4 | 4,698.6 | 4,952.8 | 4,971.0 | 0.4 |
| Argentina | 510.6 | 479.5 | 489.4 | 508.6 | 480.3 | -5.6 |
| Brazil | 2,510.0 | 2,621.8 | 2,586.5 | 2,787.7 | 2,939.8 | 5.5 |
| Colombia | 883.3 | 853.6 | 865.2 | 885.9 | 781.0 | -11.8 |
| Ecuador | 549.0 | 531.3 | 517.2 | 530.8 | 479.5 | -9.7 |
| Guyana | 0.0 | 0.0 | 0.0 | 3.1 | 73.5 | 2,302.1 |
| Others | 242.1 | 244.1 | 240.2 | 236.7 | 216.9 | -8.4 |
| Middle East | 1,810.4 | 1,731.4 | 1,722.8 | 1,689.1 | 1,625.1 | -3.8 |
| Bahrain | 205.0 | 194.9 | 193.2 | 194.4 | 195.7 | 0.7 |
| Oman | 908.7 | 883.9 | 870.0 | 840.6 | 761.9 | -9.4 |
| Qatar | 651.5 | 600.0 | 600.6 | 595.4 | 603.1 | 1.3 |
| Syrian Arab Republic | 21.0 | 20.7 | 20.6 | 21.7 | 22.4 | 3.4 |
| Yemen | 24.2 | 31.8 | 38.4 | 37.0 | 42.0 | 13.5 |
| Africa | 1,230.2 | 1,242.0 | 1,267.5 | 1,252.9 | 1,169.2 | -6.7 |
| Cameroon | 91.6 | 75.6 | 69.0 | 71.5 | 73.5 | 2.8 |
| Chad | 128.5 | 120.6 | 128.0 | 118.0 | 106.2 | -10.0 |
| Egypt | 544.4 | 530.9 | 538.8 | 510.6 | 472.7 | -7.4 |
| Ghana | 91.8 | 163.0 | 189.9 | 199.2 | 183.3 | -8.0 |
| Sudans | 250.2 | 221.6 | 223.3 | 237.3 | 230.4 | -2.9 |
| Others | 123.7 | 130.4 | 118.4 | 116.3 | 103.1 | -11.3 |
| Russia | 10,292.2 | 10,207.2 | 10,383.2 | 10,479.5 | 9,459.8 | -9.7 |
| Other Eurasia | 2,389.4 | 2,478.1 | 2,559.9 | 2,533.2 | 2,342.3 | -7.5 |
| Azerbaijan | 769.8 | 729.2 | 725.0 | 678.5 | 611.3 | -9.9 |
| Kazakhstan | 1,320.3 | 1,468.9 | 1,564.5 | 1,587.3 | 1,470.0 | -7.4 |
| Others | 299.3 | 280.1 | 270.4 | 267.5 | 261.1 | -2.4 |
| Other Europe | 127.2 | 122.2 | 119.2 | 116.0 | 109.8 | -5.3 |
| Total non-OPEC | 42,902.8 | 42,855.6 | 44,457.0 | 45,867.5 | 43,439.3 | -5.3 |
| OPEC | 32,464.4 | 31,639.2 | 31,238.1 | 29,375.3 | 25,654.0 | -12.7 |
| Algeria | 1,146.3 | 1,058.7 | 1,040.1 | 1,023.2 | 898.7 | -12.2 |
| Angola | 1,721.6 | 1,632.2 | 1,473.3 | 1,372.8 | 1,271.5 | -7.4 |
| Congo | 225.0 | 262.7 | 323.5 | 329.2 | 299.9 | -8.9 |
| Equatorial Guinea | 160.1 | 128.6 | 120.2 | 109.6 | 113.6 | 3.6 |
| Gabon | 220.7 | 210.1 | 193.4 | 217.8 | 207.4 | -4.8 |
| IR Iran | 3,651.3 | 3,867.3 | 3,553.0 | 2,356.2 | 1,985.3 | -15.7 |
| Iraq | 4,647.8 | 4,468.7 | 4,410.0 | 4,576.1 | 3,996.6 | -12.7 |
| Kuwait ¹ | 2,954.3 | 2,704.2 | 2,736.6 | 2,677.7 | 2,438.0 | -9.0 |
| Libya | 389.1 | 810.5 | 950.7 | 1,096.6 | 389.3 | -64.5 |
| Nigeria | 1,427.3 | 1,535.6 | 1,601.6 | 1,737.4 | 1,493.2 | -14.1 |
| Saudi Arabia ¹ | 10,460.2 | 9,959.2 | 10,317.3 | 9,808.2 | 9,213.2 | -6.1 |
| UAE | 3,088.3 | 2,966.5 | 3,008.3 | 3,057.9 | 2,778.6 | -9.1 |
| Venezuela | 2,372.5 | 2,034.8 | 1,510.2 | 1,012.6 | 568.6 | -43.9 |
| Total world | 75,367.2 | 74,494.8 | 75,695.1 | 75,242.9 | 69,093.3 | -8.2 |
| of which | | | | | | |
| OPEC percentage | 43.1 | 42.5 | 41.3 | 39.0 | 37.1 | |
| OECD | 15,450.6 | 15,709.0 | 17,226.1 | 18,437.5 | 17,488.8 | -5.1 |

Notes:

OPEC Member Countries are not included in the regional totals.

1. Figures include share of production from Neutral Zone.

Table 3.6
Non-OPEC oil supply and OPEC NGLs

(1,000 b/d)

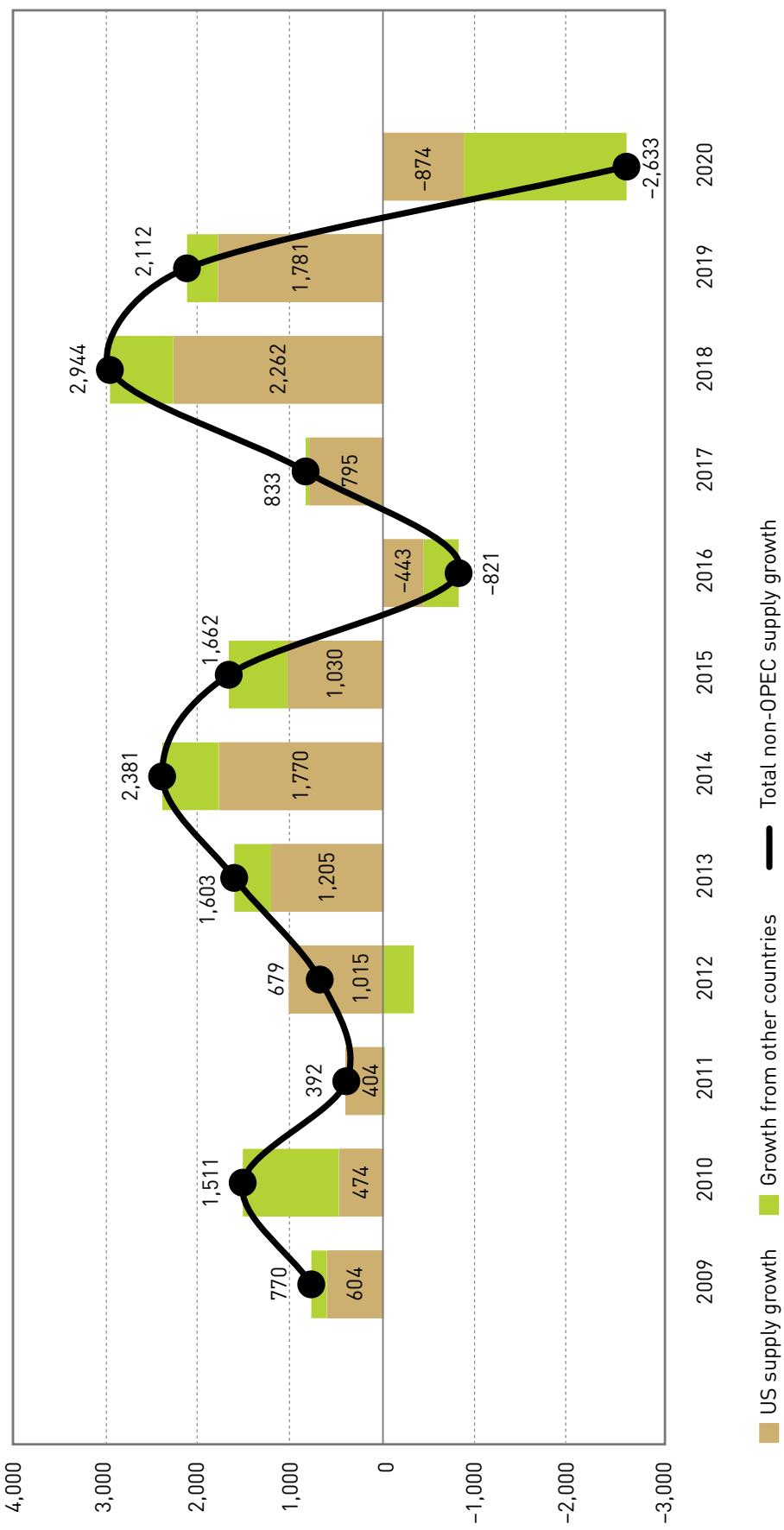
| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|--------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| OECD Americas | 20,597.6 | 21,511.9 | 24,049.6 | 25,814.8 | 24,684.4 | -4.4 |
| Canada | 4,499.0 | 4,850.2 | 5,278.5 | 5,412.9 | 5,166.8 | -4.5 |
| Chile | 4.9 | 6.0 | 9.1 | 11.3 | 9.2 | -19.2 |
| Mexico | 2,464.5 | 2,231.9 | 2,076.6 | 1,923.7 | 1,915.7 | -0.4 |
| United States | 13,629.1 | 14,423.8 | 16,685.4 | 18,466.8 | 17,592.7 | -4.7 |
| OECD Europe | 3,853.2 | 3,826.7 | 3,842.0 | 3,709.4 | 3,898.8 | 5.1 |
| Denmark | 145.0 | 143.1 | 121.0 | 107.4 | 78.0 | -27.4 |
| Norway | 1,996.8 | 1,969.1 | 1,851.5 | 1,736.0 | 2,000.9 | 15.3 |
| United Kingdom | 1,040.1 | 1,026.1 | 1,123.7 | 1,146.5 | 1,066.2 | -7.0 |
| Others | 671.4 | 688.4 | 745.8 | 719.5 | 753.7 | 4.8 |
| OECD Asia and Pacific | 425.3 | 391.8 | 409.8 | 524.4 | 532.7 | 1.6 |
| Australia | 349.7 | 317.3 | 341.4 | 456.5 | 461.8 | 1.2 |
| Others | 75.6 | 74.4 | 68.4 | 67.9 | 70.8 | 4.4 |
| China | 4,090.1 | 3,969.1 | 3,976.6 | 4,044.5 | 4,115.8 | 1.8 |
| India | 852.5 | 860.3 | 859.3 | 822.2 | 767.1 | -6.7 |
| Other Asia | 2,882.1 | 2,802.8 | 2,723.8 | 2,688.5 | 2,507.7 | -6.7 |
| Brunei | 120.9 | 113.1 | 111.5 | 121.4 | 110.3 | -9.2 |
| Indonesia | 927.1 | 891.0 | 869.2 | 882.2 | 871.8 | -1.2 |
| Malaysia | 731.0 | 725.5 | 735.0 | 694.1 | 622.3 | -10.4 |
| Thailand | 514.0 | 521.1 | 517.3 | 514.3 | 464.7 | -9.6 |
| Vietnam | 333.8 | 302.0 | 269.3 | 250.6 | 222.7 | -11.1 |
| Others | 255.2 | 250.0 | 221.6 | 225.8 | 216.0 | -4.4 |
| Latin America | 5,662.7 | 5,721.2 | 5,791.8 | 6,087.5 | 6,042.6 | -0.7 |
| Argentina | 691.6 | 669.5 | 688.4 | 708.1 | 662.9 | -6.4 |
| Brazil | 3,122.0 | 3,251.9 | 3,316.1 | 3,556.6 | 3,673.3 | 3.3 |
| Colombia | 908.3 | 878.6 | 891.1 | 910.9 | 804.0 | -11.7 |
| Ecuador | 557.9 | 540.6 | 526.0 | 539.2 | 487.5 | -9.6 |
| Guyana | 0.0 | 0.0 | 0.0 | 3.1 | 73.5 | 2,302.1 |
| Others | 383.0 | 380.6 | 370.1 | 369.7 | 341.6 | -7.6 |
| Middle East | 3,267.5 | 3,139.0 | 3,206.5 | 3,176.5 | 3,176.9 | 0.0 |
| Bahrain | 225.0 | 208.4 | 208.4 | 217.4 | 218.0 | 0.3 |
| Oman | 1,004.2 | 970.6 | 978.5 | 970.8 | 950.6 | -2.1 |
| Qatar | 1,985.1 | 1,896.9 | 1,946.6 | 1,916.6 | 1,929.9 | 0.7 |
| Syrian Arab Republic | 29.0 | 27.7 | 27.6 | 27.7 | 28.4 | 2.7 |
| Yemen | 24.2 | 35.4 | 45.4 | 44.0 | 50.0 | 13.6 |
| Africa | 1,498.9 | 1,497.2 | 1,507.8 | 1,507.1 | 1,413.6 | -6.2 |
| Cameroon | 91.6 | 75.6 | 69.0 | 71.5 | 73.5 | 2.8 |
| Chad | 128.5 | 120.6 | 128.0 | 118.0 | 106.2 | -10.0 |
| Egypt | 687.5 | 661.5 | 672.3 | 654.7 | 618.7 | -5.5 |
| Ghana | 91.8 | 163.0 | 189.9 | 199.4 | 185.3 | -7.1 |
| South Africa | 120.0 | 118.8 | 101.3 | 103.7 | 91.7 | -11.6 |
| Sudans | 250.2 | 221.6 | 223.3 | 237.3 | 230.4 | -2.9 |
| Others | 129.3 | 136.0 | 124.0 | 122.3 | 107.8 | -11.9 |
| Russia | 11,229.4 | 11,326.4 | 11,515.5 | 11,611.8 | 10,591.9 | -8.8 |
| Other Eurasia | 2,896.8 | 3,009.0 | 3,081.0 | 3,072.6 | 2,914.9 | -5.1 |
| Azerbaijan | 849.1 | 803.9 | 805.0 | 788.8 | 730.0 | -7.5 |
| Kazakhstan | 1,665.1 | 1,842.4 | 1,925.1 | 1,928.1 | 1,825.2 | -5.3 |
| Others | 382.5 | 362.7 | 350.9 | 355.8 | 359.7 | 1.1 |
| Other Europe | 131.2 | 126.2 | 123.2 | 119.9 | 112.8 | -5.9 |
| Total non-OPEC | 57,387.3 | 58,181.5 | 61,086.9 | 63,179.1 | 60,759.1 | -3.8 |
| Processing gains | 2,265.0 | 2,304.0 | 2,343.0 | 2,363.0 | 2,150.4 | -9.0 |
| Non-OPEC supply | 59,652.3 | 60,485.5 | 63,429.9 | 65,542.1 | 62,909.5 | -4.0 |
| OPEC NGL | 5,011.4 | 5,068.0 | 5,194.7 | 5,121.9 | 4,944.6 | -3.5 |
| OPEC non-conventional (NCF) | 86.2 | 98.0 | 98.7 | 94.9 | 103.7 | 9.3 |
| OPEC (NGL+NCF) | 5,097.7 | 5,166.0 | 5,293.4 | 5,216.8 | 5,048.3 | -3.2 |
| Non-OPEC & OPEC (NGL+NCF) | 64,749.9 | 65,651.5 | 68,723.3 | 70,758.9 | 67,957.9 | -4.0 |
| <i>of which</i> | | | | | | |
| OECD | 24,876.1 | 25,730.4 | 28,301.4 | 30,048.5 | 29,115.8 | -3.1 |

Table 3.7
World biofuel production

(1,000 b/d)

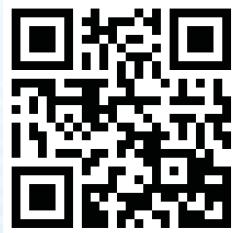
| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|------------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| OECD Americas | 1,134.2 | 1,172.9 | 1,203.5 | 1,182.7 | 1,061.2 | -10.3 |
| Canada | 36.0 | 38.0 | 35.0 | 41.0 | 37.0 | -9.8 |
| United States | 1,098.2 | 1,134.9 | 1,168.5 | 1,141.7 | 1,024.2 | -10.3 |
| OECD Europe | 275.3 | 289.8 | 311.9 | 311.5 | 296.4 | -4.8 |
| France | 56.0 | 55.0 | 61.0 | 55.0 | 55.8 | 1.5 |
| Germany | 78.0 | 78.0 | 81.0 | 85.0 | 77.0 | -9.4 |
| Italy | 7.0 | 14.0 | 15.0 | 15.0 | 11.0 | -26.7 |
| Netherlands | 10.9 | 12.4 | 12.8 | 14.5 | 21.0 | 44.8 |
| Poland | 18.9 | 21.3 | 22.0 | 24.0 | 22.0 | -8.3 |
| Spain | 24.5 | 27.5 | 28.8 | 30.6 | 26.7 | -12.8 |
| United Kingdom | 16.0 | 18.0 | 18.0 | 13.0 | 13.0 | 0.0 |
| Others | 64.0 | 63.5 | 73.2 | 74.4 | 69.9 | -6.1 |
| OECD Asia and Pacific | 5.0 | 4.0 | 4.0 | 5.0 | 4.0 | -20.0 |
| China | 52.0 | 65.0 | 58.0 | 66.0 | 79.0 | 19.7 |
| India | 17.0 | 16.0 | 29.0 | 35.0 | 32.0 | -8.6 |
| Other Asia | 122.0 | 131.0 | 157.0 | 202.0 | 235.0 | 16.3 |
| Indonesia | 57.0 | 55.0 | 71.0 | 110.0 | 138.0 | 25.5 |
| Malaysia | 12.0 | 16.0 | 21.0 | 24.0 | 23.0 | -4.2 |
| Thailand | 42.0 | 49.0 | 53.0 | 56.0 | 62.0 | 10.7 |
| Others | 11.0 | 11.0 | 12.0 | 12.0 | 12.0 | 0.0 |
| Latin America | 608.2 | 619.0 | 719.2 | 758.7 | 715.5 | -5.7 |
| Argentina | 67.0 | 75.0 | 67.0 | 61.0 | 54.0 | -11.5 |
| Brazil | 515.2 | 519.0 | 622.2 | 665.7 | 633.5 | -4.8 |
| Colombia | 17.0 | 17.0 | 18.0 | 18.0 | 16.0 | -11.1 |
| Others | 9.0 | 8.0 | 12.0 | 14.0 | 12.0 | -14.3 |
| Others | 6.0 | 6.0 | 6.0 | 7.0 | 6.0 | -14.3 |
| Total world | 2,219.7 | 2,303.7 | 2,488.6 | 2,567.9 | 2,429.2 | -5.4 |
| <i>of which</i> | | | | | | |
| OECD | 1,414.5 | 1,466.7 | 1,519.4 | 1,499.2 | 1,361.7 | -9.2 |

**Graph 3.1
The importance of the United States for non-OPEC supply growth in recent years**



Visit our

Interactive ASB



asb.opec.org

2010 2011 2012 2013 2014 2015



SECTION 4

Oil data: downstream

Table 4.1

Refinery capacity in OPEC Members by company and location

(1,000 b/cd)

| | Location | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---------------------|--------------|--------------|--------------|--------------|--------------|
| Algeria | | 651 | 651 | 657 | 657 | 677 |
| Sonatrach | Skikda | 355 | 355 | 355 | 355 | 355 |
| | Skikda (condensate) | 122 | 122 | 122 | 122 | 122 |
| | Arzew | 81 | 81 | 87 | 87 | 87 |
| | Alger | 58 | 58 | 58 | 58 | 78 |
| | Hassi Messaoud | 22 | 22 | 22 | 22 | 22 |
| | Adrar | 13 | 13 | 13 | 13 | 13 |
| Angola | | 80 | 80 | 80 | 80 | 80 |
| Fina Petroleos de Angola | Luanda | 65 | 65 | 65 | 65 | 65 |
| Sonangol | Malongo | 15 | 15 | 15 | 15 | 15 |
| Congo | | 21 | 21 | 21 | 21 | 21 |
| Société Nationale des Pétroles du Congo | Pointe Noire | 21 | 21 | 21 | 21 | 21 |
| Equatorial Guinea¹ | | na | na | na | na | na |
| Gabon | | 25 | 25 | 25 | 25 | 25 |
| Total and Shell | Port Gentil | 25 | 25 | 25 | 25 | 25 |
| IR Iran | | 1,901 | 1,901 | 2,141 | 2,201 | 2,201 |
| NIOC | Abadan | 399 | 399 | 399 | 399 | 399 |
| | Isfahan | 375 | 375 | 375 | 375 | 375 |
| | Bandar Abbas | 284 | 284 | 284 | 344 | 344 |
| | Tehran | 245 | 245 | 245 | 245 | 245 |
| | Arak | 242 | 242 | 242 | 242 | 242 |
| | Tabriz | 110 | 110 | 110 | 110 | 110 |
| | Shiraz | 56 | 56 | 56 | 56 | 56 |
| | Kermanshah | 22 | 22 | 22 | 22 | 22 |
| | Lavan | 48 | 48 | 48 | 48 | 48 |
| | Bandar Abbas | 120 | 120 | 240 | 240 | 240 |
| | Qeshm | na | na | 120 | 120 | 120 |
| Iraq | | 900 | 594 | 726 | 813 | 828 |
| INOC | Baiji | 310 | na | 23 | 38 | 53 |
| | Basrah | 210 | 210 | 210 | 280 | 280 |
| | Daura | 140 | 140 | 140 | 140 | 140 |
| | Kirkuk | 30 | 30 | 30 | 30 | 30 |
| | Sainia | 30 | 30 | 30 | 30 | 30 |
| | Najaf | 30 | 30 | 30 | 30 | 30 |
| | Samawa | 30 | 30 | 30 | 30 | 30 |
| | Nasiria | 30 | 30 | 30 | 30 | 30 |
| | Missan | 30 | 30 | 30 | 30 | 30 |
| | Diwania | 20 | 20 | 20 | 20 | 20 |
| | Haditha | 16 | 16 | 16 | 16 | 16 |
| | Qaiarah | 14 | 14 | 14 | 14 | 14 |
| | Kask | 10 | na | 5 | 7 | 7 |
| | Kar | na | 10 | 80 | 80 | 80 |
| | Bazyan | na | 4 | 38 | 38 | 38 |
| Kuwait | | 936 | 786 | 736 | 736 | 800 |
| KNPC | Mina Al-Ahmadi | 466 | 466 | 466 | 466 | 346 |
| | Mina Abdullah | 270 | 270 | 270 | 270 | 454 |
| | Shuaiba | 200 | 50 | na | na | na |

Table 4.1

Refinery capacity in OPEC Members by company and location

(1,000 b/cd)

| | Location | 2016 | 2017 | 2018 | 2019 | 2020 |
|------------------------------|---------------------------|---------------|---------------|---------------|---------------|---------------|
| Libya | | 634 | 634 | 634 | 634 | 634 |
| NOC | Ras Lanuf | 220 | 220 | 220 | 220 | 220 |
| | Zawia | 120 | 120 | 120 | 120 | 120 |
| | Tobruk | 20 | 20 | 20 | 20 | 20 |
| | Marsa El-Brega | 10 | 10 | 10 | 10 | 10 |
| | Sarir | 10 | 10 | 10 | 10 | 10 |
| | Zueitina (condensate) | 68 | 68 | 68 | 68 | 68 |
| | Briga (condensate) | 155 | 155 | 155 | 155 | 155 |
| | Mellita (condensate) | 31 | 31 | 31 | 31 | 31 |
| Nigeria | | 446 | 446 | 446 | 446 | 461 |
| PHRC | Port Harcourt New | 150 | 150 | 150 | 150 | 150 |
| WRPC | Warri | 125 | 125 | 125 | 125 | 125 |
| KRPC | Kaduna | 110 | 110 | 110 | 110 | 110 |
| PHRC | Port Harcourt | 60 | 60 | 60 | 60 | 60 |
| NDPR | Rivers State | 1 | 1 | 1 | 1 | 1 |
| Niger Delta Refining | Ogbele | na | na | na | na | 10 |
| Waltersmith Petroman Oil Ltd | Ibigwe | na | na | na | na | 5 |
| Saudi Arabia | | 2,934 | 2,921 | 2,856 | 2,896 | 2,927 |
| Saudi Aramco | Ras Tanura | 550 | 550 | 550 | 550 | 550 |
| | Yanbu | 78 | 65 | na | na | na |
| | Riyadh | na | na | na | na | na |
| | Jeddah | na | na | na | na | na |
| Saudi Aramco & Mobil | Samref | 400 | 400 | 400 | 400 | 400 |
| Saudi Aramco & Petrola | Rabigh | 400 | 400 | 400 | 400 | 400 |
| Saudi Aramco & Total | Satorp | 405 | 405 | 405 | 440 | 460 |
| Saudi Aramco | Yasref | 430 | 430 | 430 | 430 | 430 |
| Saudi Aramco & Shell | Sasref | 300 | 300 | 300 | 305 | 305 |
| United Arab Emirates | | 1,122 | 1,122 | 1,122 | 1,122 | 1,272 |
| ADNOC | Al-Ruwais (East and West) | 817 | 817 | 817 | 817 | 817 |
| Emirate Oil | Jebel Ali | 140 | 140 | 140 | 140 | 210 |
| ADNOC | Umm Al-Narr | 85 | 85 | 85 | 85 | 85 |
| Metro Oil | Fujairah | 80 | 80 | 80 | 80 | 80 |
| Ecomar Energy | Fujairah | na | na | na | na | 80 |
| Venezuela | | 2,276 | 2,276 | 2,276 | 2,276 | 2,276 |
| PDVSA | Amuay | 645 | 645 | 645 | 645 | 645 |
| | Cardon | 310 | 310 | 310 | 310 | 310 |
| | Puerto La Cruz | 187 | 187 | 187 | 187 | 187 |
| | El Palito | 140 | 140 | 140 | 140 | 140 |
| | Caripito | na | na | na | na | na |
| | San Lorenzo | na | na | na | na | na |
| | San Roque | 5 | 5 | 5 | 5 | 5 |
| | Bajo Grande | 16 | 16 | 16 | 16 | 16 |
| | Moron | na | na | na | na | na |
| | Tucupita | na | na | na | na | na |
| | Barinas | na | na | na | na | na |
| | Petropiar ² | 248 | 248 | 248 | 248 | 248 |
| | Petromonagas ² | 158 | 158 | 158 | 158 | 158 |
| | Petrocedeno ² | 284 | 284 | 284 | 284 | 284 |
| | Petrozuata ² | 160 | 160 | 160 | 160 | 160 |
| | Anzoátegui ² | 122 | 122 | 122 | 122 | 122 |
| OPEC | | 11,926 | 11,457 | 11,720 | 11,907 | 12,202 |

Notes:

All figures refer to the designated or nameplate refining capacity.

1. Equatorial Guinea does not have refining capacities.

2. Upgrader refinery capacity.

Oil data: downstream

Table 4.2
World refinery capacity by country (1,000 b/cd)

| | 2016 | 2017 | 2018 | 2019 | 2020 | change 20/19 |
|---|---------------|---------------|---------------|----------------|----------------|-----------------|
| OECD Americas | 22,297 | 22,349 | 22,419 | 22,201 | 21,538 | -663 |
| Canada | 1,934 | 1,966 | 1,972 | 2,046 | 2,046 | 0 |
| Chile | 220 | 220 | 220 | 220 | 220 | 0 |
| Mexico | 1,522 | 1,522 | 1,522 | 1,522 | 1,522 | 0 |
| United States ¹ | 18,621 | 18,641 | 18,705 | 18,413 | 17,750 | -663 |
| OECD Europe | 13,488 | 13,178 | 12,966 | 13,393 | 13,328 | -65 |
| Belgium | 776 | 776 | 776 | 776 | 776 | 0 |
| France | 1,406 | 1,335 | 1,252 | 1,252 | 1,252 | 0 |
| Germany | 2,051 | 2,051 | 2,051 | 2,051 | 2,051 | 0 |
| Italy | 1,900 | 1,900 | 1,900 | 1,900 | 1,900 | 0 |
| Netherlands | 1,376 | 1,376 | 1,376 | 1,376 | 1,376 | 0 |
| Poland | 581 | 581 | 581 | 581 | 581 | 0 |
| Spain | 1,562 | 1,562 | 1,562 | 1,562 | 1,562 | 0 |
| Turkey | 596 | 596 | 596 | 784 | 784 | 0 |
| United Kingdom | 1,227 | 1,227 | 1,233 | 1,238 | 1,173 | -65 |
| Others | 2,012 | 1,773 | 1,638 | 1,872 | 1,872 | 0 |
| OECD Asia and Pacific | 7,691 | 7,892 | 7,970 | 7,970 | 7,855 | -115 |
| Australia | 452 | 455 | 462 | 462 | 462 | 0 |
| Japan | 3,600 | 3,526 | 3,597 | 3,597 | 3,482 | -115 |
| New Zealand | 136 | 136 | 136 | 136 | 136 | 0 |
| South Korea ¹ | 3,246 | 3,518 | 3,518 | 3,518 | 3,518 | 0 |
| Others | 257 | 257 | 257 | 257 | 257 | 0 |
| China | 14,377 | 14,609 | 15,257 | 16,059 | 16,174 | 115 |
| India | 4,620 | 4,706 | 4,752 | 4,796 | 4,796 | 0 |
| Other Asia | 7,209 | 7,605 | 7,603 | 7,767 | 7,881 | 114 |
| Indonesia | 1,251 | 1,257 | 1,272 | 1,272 | 1,272 | 0 |
| Thailand | 1,235 | 1,235 | 1,235 | 1,235 | 1,250 | 16 |
| Singapore | 1,684 | 1,684 | 1,684 | 1,684 | 1,684 | 0 |
| Malaysia | 618 | 625 | 625 | 925 | 925 | 0 |
| Philippines | 276 | 276 | 276 | 276 | 276 | 0 |
| Pakistan | 389 | 368 | 368 | 368 | 368 | 0 |
| Vietnam | 163 | 167 | 367 | 367 | 367 | 0 |
| Others | 1,593 | 1,993 | 1,776 | 1,641 | 1,739 | 98 |
| Latin America | 6,413 | 6,449 | 6,399 | 6,339 | 6,395 | 57 |
| Argentina | 657 | 631 | 631 | 631 | 661 | 30 |
| Brazil | 2,289 | 2,289 | 2,289 | 2,289 | 2,289 | 0 |
| Colombia | 421 | 415 | 415 | 415 | 415 | 0 |
| Ecuador | 191 | 188 | 188 | 188 | 188 | 0 |
| Venezuela² | 2,276 | 2,276 | 2,276 | 2,276 | 2,276 | 0 |
| Others | 580 | 651 | 600 | 541 | 567 | 27 |
| Middle East | 8,814 | 8,483 | 8,671 | 8,812 | 9,080 | 268 |
| IR Iran¹ | 1,901 | 1,901 | 2,141 | 2,201 | 2,201 | 0 |
| Iraq | 900 | 594 | 726 | 813 | 828 | 15 |
| Kuwait | 936 | 786 | 736 | 736 | 800 | 64 |
| Qatar ¹ | 429 | 430 | 430 | 430 | 430 | 0 |
| Saudi Arabia¹ | 2,934 | 2,921 | 2,856 | 2,896 | 2,927 | 31 |
| United Arab Emirates¹ | 1,122 | 1,122 | 1,122 | 1,122 | 1,272 | 150 |
| Others | 592 | 729 | 660 | 614 | 622 | 8 |
| Africa | 3,337 | 3,400 | 3,369 | 3,452 | 3,514 | 62 |
| Algeria¹ | 651 | 651 | 657 | 657 | 677 | 20 |
| Angola | 80 | 80 | 80 | 80 | 80 | 0 |
| Congo | 21 | 21 | 21 | 21 | 21 | 0 |
| Egypt | 733 | 733 | 733 | 833 | 833 | 0 |
| Gabon | 25 | 25 | 25 | 25 | 25 | 0 |
| Libya | 634 | 634 | 634 | 634 | 634 | 0 |
| Nigeria | 446 | 446 | 446 | 446 | 461 | 15 |
| South Africa | 520 | 520 | 520 | 520 | 520 | 0 |
| Others | 228 | 290 | 254 | 236 | 263 | 27 |
| Russia | 6,583 | 6,587 | 6,870 | 7,030 | 7,030 | 0 |
| Other Eurasia | 2,157 | 2,455 | 2,440 | 2,388 | 2,392 | 5 |
| Azerbaijan | 120 | 120 | 120 | 120 | 120 | 0 |
| Belarus | 460 | 498 | 505 | 505 | 505 | 0 |
| Kazakhstan | 350 | 350 | 424 | 435 | 435 | 0 |
| Turkmenistan | 237 | 237 | 237 | 237 | 237 | 0 |
| Ukraine | 240 | 240 | 240 | 240 | 240 | 0 |
| Others | 750 | 1,010 | 913 | 850 | 855 | 5 |
| Other Europe | 1,169 | 1,296 | 1,232 | 1,152 | 1,114 | -38 |
| Bulgaria | 195 | 195 | 195 | 195 | 195 | 0 |
| Croatia | 134 | 134 | 134 | 134 | 90 | -44 |
| Romania | 256 | 256 | 256 | 256 | 256 | 0 |
| Others | 584 | 711 | 647 | 567 | 573 | 6 |
| Total world | 98,156 | 99,008 | 99,947 | 101,357 | 101,096 | -261 |
| <i>of which</i> | | | | | | |
| OPEC | 11,926 | 11,457 | 11,720 | 11,907 | 12,202 | 295 |
| OPEC percentage | 12.1 | 11.6 | 11.7 | 11.7 | 12.1 | 0 |
| OECD | 43,476 | 43,419 | 43,355 | 43,563 | 42,720 | -843 |

Notes:

All figures refer to the designated or nameplate refining capacity.

1. Includes condensate splitters.

2. Includes upgrader capacity.

Table 4.3
World refinery throughput by country

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|------------------------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| OECD Americas | 19,561 | 19,809 | 20,060 | 20,092 | 17,620 | -12.3 |
| Canada | 1,821 | 1,861 | 1,847 | 2,193 | 2,052 | -6.4 |
| Chile | 201 | 225 | 232 | 252 | 205 | -18.8 |
| Mexico | 1,026 | 839 | 666 | 671 | 643 | -4.2 |
| United States | 16,513 | 16,884 | 17,315 | 16,976 | 14,720 | -13.3 |
| OECD Europe | 12,847 | 13,162 | 13,061 | 12,943 | 11,371 | -12.1 |
| Belgium | 677 | 713 | 689 | 712 | 553 | -22.3 |
| France | 1,247 | 1,257 | 1,187 | 1,089 | 784 | -28.0 |
| Germany | 1,947 | 1,941 | 1,959 | 1,937 | 1,847 | -4.6 |
| Italy | 1,511 | 1,548 | 1,490 | 1,467 | 1,228 | -16.3 |
| Netherlands | 1,226 | 1,226 | 1,235 | 1,261 | 1,149 | -8.9 |
| Poland | 548 | 545 | 551 | 583 | 547 | -6.2 |
| Spain | 1,295 | 1,321 | 1,358 | 1,315 | 1,117 | -15.1 |
| Turkey | 569 | 607 | 546 | 720 | 681 | -5.4 |
| United Kingdom | 1,163 | 1,160 | 1,165 | 1,215 | 990 | -18.5 |
| Others | 2,664 | 2,844 | 2,880 | 2,644 | 2,475 | -6.4 |
| OECD Asia and Pacific | 7,368 | 7,392 | 7,378 | 7,418 | 6,502 | -12.4 |
| Australia | 466 | 452 | 517 | 500 | 416 | -16.8 |
| Japan | 3,479 | 3,395 | 3,273 | 3,233 | 2,640 | -18.3 |
| New Zealand | 106 | 107 | 103 | 109 | 96 | -11.3 |
| South Korea | 3,103 | 3,215 | 3,248 | 3,334 | 3,109 | -6.8 |
| Others | 213 | 223 | 238 | 242 | 241 | -0.5 |
| China | 10,774 | 11,354 | 12,033 | 13,015 | 13,484 | 3.6 |
| India | 4,741 | 4,790 | 4,891 | 5,043 | 4,421 | -12.3 |
| Other Asia | 5,515 | 5,544 | 5,764 | 5,501 | 5,092 | -7.4 |
| Indonesia | 877 | 892 | 1,050 | 1,010 | 962 | -4.8 |
| Thailand | 1,045 | 1,082 | 1,119 | 1,015 | 998 | -1.6 |
| Singapore | 1,240 | 1,265 | 1,181 | 1,175 | 1,090 | -7.2 |
| Malaysia | 586 | 516 | 507 | 587 | 520 | -11.5 |
| Philippines | 216 | 211 | 237 | 168 | 114 | -32.3 |
| Pakistan | 258 | 286 | 276 | 229 | 154 | -32.9 |
| Vietnam | 147 | 124 | 181 | 318 | 294 | -7.4 |
| Others | 1,145 | 1,169 | 1,213 | 999 | 961 | -3.8 |
| Latin America | 4,294 | 4,117 | 3,971 | 3,886 | 3,141 | -19.2 |
| Argentina | 481 | 492 | 467 | 473 | 437 | -7.6 |
| Brazil | 1,800 | 1,677 | 1,650 | 1,678 | 1,717 | 2.3 |
| Colombia | 337 | 346 | 345 | 354 | 266 | -25.0 |
| Ecuador | 151 | 156 | 170 | 143 | 119 | -16.8 |
| Venezuela | 1,035 | 956 | 842 | 818 | 345 | -57.8 |
| Others | 491 | 490 | 496 | 420 | 257 | -38.8 |
| Middle East | 7,272 | 7,488 | 7,590 | 7,385 | 6,548 | -11.3 |
| IR Iran | 1,646 | 1,689 | 1,705 | 1,718 | 1,587 | -7.6 |
| Iraq | 448 | 536 | 609 | 639 | 543 | -15.0 |
| Kuwait | 826 | 679 | 681 | 660 | 572 | -13.4 |
| Qatar | 280 | 379 | 368 | 365 | 305 | -16.4 |
| Saudi Arabia | 2,459 | 2,601 | 2,642 | 2,484 | 2,173 | -12.5 |
| United Arab Emirates | 1,100 | 1,091 | 1,065 | 1,037 | 936 | -9.7 |
| Others | 513 | 512 | 519 | 482 | 432 | -10.4 |
| Africa | 1,968 | 2,047 | 2,082 | 2,024 | 1,919 | -5.2 |
| Algeria | 624 | 630 | 644 | 645 | 639 | -0.9 |
| Angola | 44 | 54 | 55 | 54 | 47 | -13.7 |
| Congo | 16 | 17 | 18 | 17 | 17 | -4.8 |
| Egypt | 502 | 506 | 517 | 559 | 600 | 7.3 |
| Gabon | 19 | 16 | 16 | 14 | 17 | 22.3 |
| Libya | 83 | 99 | 98 | 83 | 86 | 2.9 |
| Nigeria | 52 | 64 | 38 | 9 | 1 | -89.0 |
| South Africa | 461 | 494 | 528 | 493 | 389 | -21.0 |
| Others | 167 | 167 | 169 | 150 | 124 | -17.2 |
| Russia | 5,578 | 5,592 | 5,720 | 5,701 | 5,387 | -5.5 |
| Other Eurasia | 1,568 | 1,557 | 1,683 | 1,653 | 1,494 | -9.6 |
| Azerbaijan | 114 | 113 | 116 | 130 | 123 | -5.2 |
| Belarus | 375 | 367 | 368 | 360 | 328 | -9.1 |
| Kazakhstan | 316 | 302 | 411 | 388 | 315 | -18.9 |
| Turkmenistan | 178 | 178 | 178 | 181 | 172 | -5.0 |
| Ukraine | 61 | 73 | 80 | 81 | 77 | -5.7 |
| Others | 525 | 524 | 530 | 513 | 480 | -6.4 |
| Other Europe | 1,149 | 1,160 | 1,158 | 1,149 | 1,018 | -11.5 |
| Bulgaria | 124 | 135 | 117 | 136 | 98 | -27.5 |
| Croatia | 77 | 81 | 81 | 54 | 40 | -26.0 |
| Romania | 234 | 231 | 237 | 249 | 213 | -14.3 |
| Others | 714 | 713 | 722 | 711 | 666 | -6.3 |
| Total world | 82,635 | 84,011 | 85,391 | 85,811 | 77,996 | -9.1 |
| of which | | | | | | |
| OPEC | 8,351 | 8,432 | 8,412 | 8,178 | 6,962 | -14.9 |
| OPEC percentage | 10.1 | 10.0 | 9.9 | 9.5 | 8.9 | |
| OECD | 39,776 | 40,363 | 40,500 | 40,454 | 35,493 | -12.3 |

Notes:

Includes throughput of crude oil, NGLs, and other hydrocarbons, as well as upgrader intake in some countries.

Oil data: downstream

**Table 4.4
Output of petroleum products in OPEC Members**

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|--------------------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| Algeria | 621 | 609 | 621 | 660 | 614 | -6.8 |
| Gasoline | 61 | 60 | 73 | 83 | 67 | -19.4 |
| Kerosene | 35 | 36 | 32 | 33 | 22 | -33.4 |
| Distillates | 176 | 169 | 198 | 216 | 205 | -5.0 |
| Residuals | 124 | 117 | 106 | 110 | 112 | 2.0 |
| Others | 225 | 227 | 211 | 217 | 208 | -4.2 |
| Angola | 45 | 55 | 55 | 55 | 44 | -19.3 |
| Gasoline | 1 | 1 | 1 | 1 | 0 | -70.4 |
| Kerosene | 9 | 12 | 9 | 9 | 6 | -34.1 |
| Distillates | 12 | 15 | 15 | 15 | 11 | -23.4 |
| Residuals | 12 | 15 | 17 | 18 | 17 | -7.0 |
| Others | 10 | 13 | 13 | 12 | 10 | -18.3 |
| Congo | 16 | 16 | 16 | 16 | 16 | -3.6 |
| Gasoline | 5 | 5 | 5 | 5 | 5 | -4.2 |
| Kerosene | 2 | 2 | 2 | 2 | 1 | -12.0 |
| Distillates | 3 | 3 | 3 | 3 | 3 | -4.7 |
| Residuals | 5 | 6 | 6 | 6 | 6 | -0.2 |
| Others | 1 | 1 | 1 | 1 | 1 | -3.6 |
| Equatorial Guinea | na | na | na | na | na | na |
| Gabon | 19 | 14 | 13 | 11 | 16 | 39.4 |
| Gasoline | 2 | 2 | 2 | 2 | 1 | -25.9 |
| Kerosene | 1 | 1 | 1 | 1 | 1 | 150.1 |
| Distillates | 6 | 5 | 5 | 4 | 5 | 32.1 |
| Residuals | 8 | 6 | 5 | 5 | 7 | 46.6 |
| Others | 1 | 1 | 1 | 1 | 2 | 82.7 |
| IR Iran | 1,618 | 1,680 | 1,691 | 1,705 | 1,577 | -7.5 |
| Gasoline | 379 | 394 | 398 | 407 | 383 | -5.9 |
| Kerosene | 114 | 119 | 122 | 119 | 67 | -44.2 |
| Distillates | 489 | 545 | 551 | 550 | 521 | -5.3 |
| Residuals | 403 | 384 | 387 | 385 | 373 | -3.1 |
| Others | 232 | 238 | 233 | 243 | 233 | -4.2 |
| Iraq | 449 | 539 | 718 | 747 | 587 | -21.4 |
| Gasoline | 49 | 63 | 84 | 95 | 48 | -49.8 |
| Kerosene | 34 | 43 | 47 | 49 | 38 | -23.7 |
| Distillates | 67 | 91 | 107 | 118 | 102 | -13.2 |
| Residuals | 221 | 294 | 314 | 329 | 279 | -15.1 |
| Others | 78 | 47 | 166 | 156 | 121 | -22.8 |
| Kuwait | 857 | 883 | 891 | 886 | 780 | -12.0 |
| Gasoline | 56 | 36 | 36 | 61 | 51 | -16.3 |
| Kerosene | 156 | 143 | 143 | 136 | 115 | -15.8 |
| Distillates | 194 | 170 | 171 | 168 | 181 | 7.5 |
| Residuals | 184 | 153 | 154 | 147 | 73 | -50.3 |
| Others | 267 | 381 | 387 | 374 | 361 | -3.6 |

Table 4.4
Output of petroleum products in OPEC Members

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| Libya | 80 | 93 | 94 | 76 | 80 | 5.5 |
| Gasoline | 9 | 8 | 5 | 3 | 3 | 11.7 |
| Kerosene | 9 | 9 | 6 | 4 | 4 | 3.8 |
| Distillates | 20 | 19 | 14 | 10 | 11 | 12.0 |
| Residuals | 23 | 22 | 15 | 10 | 11 | 10.7 |
| Others | 20 | 35 | 54 | 49 | 51 | 2.8 |
| Nigeria | 48 | 59 | 33 | 8 | 1 | -88.6 |
| Gasoline | 14 | 20 | 9 | 2 | 0 | -100.0 |
| Kerosene | 7 | 10 | 6 | 1 | 0 | -97.7 |
| Distillates | 12 | 14 | 7 | 2 | 0 | -78.4 |
| Residuals | 6 | 11 | 10 | 2 | 0 | -92.5 |
| Others | 8 | 4 | 1 | 0 | 0 | 36.5 |
| Saudi Arabia | 2,511 | 2,630 | 2,817 | 2,586 | 2,177 | -15.8 |
| Gasoline | 491 | 510 | 545 | 548 | 454 | -17.1 |
| Kerosene | 217 | 228 | 262 | 232 | 145 | -37.5 |
| Distillates | 934 | 988 | 1,073 | 1,057 | 985 | -6.9 |
| Residuals | 409 | 426 | 455 | 424 | 345 | -18.6 |
| Others | 460 | 478 | 481 | 325 | 248 | -23.6 |
| United Arab Emirates | 1,089 | 1,043 | 1,027 | 1,005 | 925 | -8.0 |
| Gasoline | 132 | 98 | 98 | 96 | 90 | -6.2 |
| Kerosene | 341 | 287 | 289 | 283 | 244 | -13.6 |
| Distillates | 220 | 229 | 229 | 227 | 208 | -8.1 |
| Residuals | 33 | 49 | 47 | 45 | 41 | -9.1 |
| Others | 363 | 379 | 364 | 354 | 341 | -3.8 |
| Venezuela | 1,050 | 976 | 804 | 743 | 339 | -54.4 |
| Gasoline | 221 | 241 | 200 | 186 | 57 | -69.2 |
| Kerosene | 42 | 34 | 26 | 23 | 7 | -67.6 |
| Distillates | 182 | 156 | 122 | 115 | 41 | -63.9 |
| Residuals | 291 | 296 | 250 | 238 | 123 | -48.1 |
| Others | 314 | 250 | 207 | 182 | 109 | -39.9 |
| OPEC | 8,401 | 8,596 | 8,781 | 8,499 | 7,157 | -15.8 |
| Gasoline | 1,438 | 1,453 | 1,468 | 1,501 | 1,176 | -21.6 |
| Kerosene | 970 | 921 | 947 | 894 | 652 | -27.1 |
| Distillates | 2,316 | 2,404 | 2,495 | 2,485 | 2,276 | -8.4 |
| Residuals | 1,725 | 1,785 | 1,771 | 1,722 | 1,393 | -19.1 |
| Others | 1,988 | 2,061 | 2,125 | 1,920 | 1,691 | -11.9 |

Notes:

Data may include products from GTLs and condensate units.

Oil data: downstream

**Table 4.5
World output of petroleum products by country**

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|------------------------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| OECD Americas | 23,229 | 23,368 | 23,477 | 23,538 | 20,369 | -13.5 |
| Canada | 1,888 | 2,009 | 1,889 | 2,196 | 2,044 | -6.9 |
| Chile | 216 | 216 | 219 | 244 | 193 | -20.7 |
| Mexico | 1,046 | 845 | 677 | 660 | 640 | -2.9 |
| United States | 20,079 | 20,298 | 20,693 | 20,439 | 17,492 | -14.4 |
| OECD Europe | 13,861 | 14,317 | 14,289 | 14,204 | 12,518 | -11.9 |
| Belgium | 704 | 732 | 702 | 734 | 580 | -21.0 |
| France | 1,283 | 1,304 | 1,232 | 1,120 | 807 | -27.9 |
| Germany | 2,204 | 2,158 | 2,064 | 2,077 | 1,980 | -4.7 |
| Italy | 1,571 | 1,607 | 1,548 | 1,522 | 1,272 | -16.5 |
| Netherlands | 1,283 | 1,282 | 1,302 | 1,329 | 1,185 | -10.8 |
| Poland | 559 | 554 | 592 | 600 | 565 | -5.8 |
| Spain | 1,346 | 1,361 | 1,398 | 1,357 | 1,153 | -15.0 |
| Turkey | 619 | 658 | 590 | 772 | 734 | -5.0 |
| United Kingdom | 1,283 | 1,290 | 1,255 | 1,262 | 1,025 | -18.8 |
| Others | 3,009 | 3,371 | 3,605 | 3,432 | 3,217 | -6.2 |
| OECD Asia and Pacific | 7,567 | 7,658 | 7,639 | 7,630 | 6,706 | -12.1 |
| Australia | 473 | 462 | 520 | 507 | 425 | -16.2 |
| Japan | 3,546 | 3,467 | 3,290 | 3,277 | 2,733 | -16.6 |
| New Zealand | 125 | 126 | 126 | 126 | 96 | -23.2 |
| South Korea | 3,122 | 3,302 | 3,388 | 3,396 | 3,138 | -7.6 |
| Others | 301 | 300 | 316 | 324 | 314 | -3.1 |
| China | 10,449 | 11,059 | 11,608 | 12,501 | 12,982 | 3.8 |
| India | 5,236 | 5,268 | 5,371 | 5,545 | 4,877 | -12.0 |
| Other Asia | 7,392 | 7,496 | 7,660 | 7,569 | 7,179 | -5.1 |
| Indonesia | 889 | 908 | 1,008 | 970 | 994 | 2.4 |
| Thailand | 1,206 | 1,235 | 1,257 | 1,143 | 1,123 | -1.8 |
| Singapore | 1,297 | 1,322 | 1,242 | 1,236 | 1,150 | -7.0 |
| Malaysia | 512 | 487 | 477 | 544 | 489 | -10.1 |
| Philippines | 207 | 202 | 228 | 159 | 113 | -29.2 |
| Pakistan | 259 | 290 | 288 | 217 | 151 | -30.6 |
| Vietnam | 145 | 130 | 210 | 302 | 282 | -6.5 |
| Others | 2,877 | 2,923 | 2,950 | 2,997 | 2,878 | -4.0 |
| Latin America | 4,815 | 4,611 | 4,463 | 4,224 | 3,400 | -19.5 |
| Argentina | 532 | 517 | 511 | 521 | 484 | -7.2 |
| Brazil | 1,912 | 1,787 | 1,764 | 1,637 | 1,679 | 2.6 |
| Colombia | 325 | 314 | 318 | 329 | 251 | -23.8 |
| Ecuador | 152 | 153 | 167 | 143 | 120 | -16.1 |
| Venezuela | 1,050 | 976 | 804 | 743 | 339 | -54.4 |
| Others | 843 | 865 | 898 | 851 | 528 | -38.0 |
| Middle East | 7,570 | 7,895 | 8,269 | 8,036 | 7,029 | -12.5 |
| IR Iran | 1,618 | 1,680 | 1,691 | 1,705 | 1,577 | -7.5 |
| Iraq | 449 | 539 | 718 | 747 | 587 | -21.4 |
| Kuwait | 857 | 883 | 891 | 886 | 780 | -12.0 |
| Qatar | 274 | 363 | 352 | 350 | 296 | -15.3 |
| Saudi Arabia | 2,511 | 2,630 | 2,817 | 2,586 | 2,177 | -15.8 |
| United Arab Emirates | 1,089 | 1,043 | 1,027 | 1,005 | 925 | -8.0 |
| Others | 773 | 758 | 772 | 756 | 686 | -9.2 |
| Africa | 2,031 | 2,075 | 2,148 | 2,116 | 1,944 | -8.1 |
| Algeria | 621 | 609 | 621 | 660 | 614 | -6.8 |
| Angola | 45 | 55 | 55 | 55 | 44 | -19.3 |
| Congo | 16 | 16 | 16 | 16 | 16 | -3.6 |
| Egypt | 487 | 491 | 519 | 509 | 542 | 6.5 |
| Gabon | 19 | 14 | 13 | 11 | 16 | 39.4 |
| Libya | 80 | 93 | 94 | 76 | 80 | 5.5 |
| Nigeria | 48 | 59 | 33 | 8 | 1 | -88.6 |
| South Africa | 461 | 472 | 481 | 450 | 352 | -21.9 |
| Others | 256 | 265 | 316 | 330 | 278 | -15.7 |
| Russia | 5,976 | 6,147 | 6,264 | 6,257 | 5,932 | -5.2 |
| Other Eurasia | 1,709 | 1,687 | 1,770 | 1,787 | 1,623 | -9.1 |
| Azerbaijan | 114 | 107 | 114 | 131 | 123 | -6.0 |
| Belarus | 373 | 366 | 368 | 359 | 325 | -9.6 |
| Kazakhstan | 298 | 296 | 374 | 353 | 284 | -19.5 |
| Turkmenistan | 179 | 179 | 179 | 183 | 174 | -5.0 |
| Ukraine | 62 | 66 | 81 | 82 | 77 | -5.7 |
| Others | 683 | 675 | 655 | 678 | 640 | -5.7 |
| Other Europe | 1,332 | 1,354 | 1,305 | 1,236 | 1,098 | -11.2 |
| Bulgaria | 146 | 150 | 130 | 137 | 96 | -29.7 |
| Croatia | 78 | 82 | 83 | 54 | 39 | -27.9 |
| Romania | 241 | 243 | 234 | 242 | 205 | -15.1 |
| Others | 868 | 879 | 858 | 803 | 757 | -5.7 |
| Total world | 91,165 | 92,937 | 94,264 | 94,644 | 85,658 | -9.5 |
| <i>of which</i> | | | | | | |
| OPEC | 8,401 | 8,596 | 8,781 | 8,499 | 7,157 | -15.8 |
| <i>OPEC percentage</i> | 9.2 | 9.2 | 9.3 | 9.0 | 8.4 | |
| OECD | 44,657 | 45,343 | 45,406 | 45,373 | 39,594 | -12.7 |

Notes:

Data may include products from GTL and condensate units.

Table 4.6

Oil demand by main petroleum product in OPEC Members

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|--------------------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| Algeria | 399 | 422 | 431 | 430 | 383 | -11.0 |
| Gasoline | 90 | 90 | 85 | 85 | 73 | -14.4 |
| Kerosene | 12 | 13 | 13 | 14 | 7 | -49.6 |
| Distillates | 218 | 218 | 225 | 229 | 201 | -12.2 |
| Residuals | 4 | 3 | 3 | 3 | 4 | 33.4 |
| Others | 75 | 97 | 105 | 101 | 99 | -1.4 |
| Angola | 122 | 115 | 121 | 122 | 99 | -19.2 |
| Gasoline | 26 | 19 | 22 | 22 | 21 | -7.6 |
| Kerosene | 9 | 11 | 11 | 10 | 6 | -37.5 |
| Distillates | 60 | 63 | 63 | 65 | 49 | -24.3 |
| Residuals | 3 | 3 | 4 | 4 | 3 | -8.6 |
| Others | 24 | 18 | 21 | 22 | 20 | -9.7 |
| Congo | 8 | 8 | 8 | 9 | 7 | -19.1 |
| Gasoline | 2 | 2 | 2 | 2 | 2 | -10.0 |
| Kerosene | 1 | 1 | 1 | 1 | 0 | -39.0 |
| Distillates | 4 | 4 | 4 | 4 | 3 | -25.0 |
| Residuals | 0 | 0 | 0 | 0 | 0 | -1.0 |
| Others | 2 | 2 | 2 | 2 | 2 | -12.0 |
| Equatorial Guinea | 6 | 5 | 5 | 5 | 5 | -5.9 |
| Gasoline | 2 | 2 | 2 | 2 | 1 | -8.8 |
| Kerosene | 1 | 1 | 1 | 1 | 1 | -28.2 |
| Distillates | 3 | 2 | 2 | 2 | 2 | 9.5 |
| Residuals | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Others | 0 | 0 | 0 | 0 | 0 | 9.1 |
| Gabon | 46 | 47 | 47 | 48 | 45 | -6.4 |
| Gasoline | 7 | 7 | 7 | 7 | 7 | -4.2 |
| Kerosene | 3 | 3 | 3 | 3 | 3 | -16.9 |
| Distillates | 33 | 34 | 35 | 35 | 33 | -4.8 |
| Residuals | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Others | 3 | 2 | 2 | 2 | 2 | -21.5 |
| IR Iran | 1,801 | 1,819 | 1,854 | 1,838 | 1,692 | -7.9 |
| Gasoline | 444 | 582 | 596 | 590 | 550 | -6.8 |
| Kerosene | 138 | 114 | 108 | 98 | 52 | -47.5 |
| Distillates | 499 | 491 | 516 | 511 | 472 | -7.7 |
| Residuals | 366 | 281 | 260 | 258 | 252 | -2.1 |
| Others | 354 | 351 | 375 | 380 | 366 | -3.7 |
| Iraq | 757 | 723 | 704 | 716 | 550 | -23.2 |
| Gasoline | 109 | 125 | 140 | 146 | 119 | -18.7 |
| Kerosene | 33 | 36 | 34 | 41 | 40 | -3.0 |
| Distillates | 100 | 114 | 138 | 152 | 131 | -13.8 |
| Residuals | 218 | 271 | 289 | 253 | 130 | -48.5 |
| Others | 298 | 177 | 103 | 124 | 129 | 4.7 |

Oil data: downstream

Table 4.6
Oil demand by main petroleum product in OPEC Members

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| Kuwait | 380 | 401 | 417 | 460 | 461 | 0.2 |
| Gasoline | 70 | 61 | 61 | 79 | 61 | -22.5 |
| Kerosene | 17 | 14 | 15 | 23 | 11 | -52.0 |
| Distillates | 49 | 51 | 53 | 55 | 48 | -12.6 |
| Residuals | 131 | 109 | 114 | 103 | 60 | -41.9 |
| Others | 112 | 166 | 175 | 200 | 281 | 40.2 |
| Libya | 208 | 208 | 215 | 214 | 183 | -14.7 |
| Gasoline | 76 | 78 | 81 | 83 | 91 | 9.8 |
| Kerosene | 5 | 5 | 5 | 4 | 3 | -26.9 |
| Distillates | 84 | 88 | 92 | 94 | 61 | -35.2 |
| Residuals | 29 | 26 | 27 | 22 | 18 | -17.6 |
| Others | 13 | 11 | 11 | 11 | 10 | -12.7 |
| Nigeria | 393 | 426 | 446 | 470 | 466 | -0.9 |
| Gasoline | 299 | 316 | 337 | 355 | 350 | -1.4 |
| Kerosene | 25 | 26 | 24 | 23 | 15 | -35.1 |
| Distillates | 67 | 82 | 79 | 89 | 94 | 6.2 |
| Residuals | 2 | 2 | 3 | 1 | 1 | -12.4 |
| Others | 1 | 1 | 2 | 2 | 6 | 174.3 |
| Saudi Arabia | 3,210 | 3,272 | 3,105 | 3,199 | 3,037 | -5.1 |
| Gasoline | 556 | 599 | 561 | 550 | 455 | -17.2 |
| Kerosene | 88 | 101 | 104 | 103 | 44 | -57.9 |
| Distillates | 701 | 591 | 522 | 528 | 492 | -6.8 |
| Residuals | 470 | 516 | 503 | 540 | 600 | 11.1 |
| Others | 1,395 | 1,465 | 1,415 | 1,479 | 1,448 | -2.1 |
| United Arab Emirates | 799 | 819 | 885 | 899 | 828 | -7.9 |
| Gasoline | 176 | 185 | 211 | 215 | 200 | -6.7 |
| Kerosene | 148 | 157 | 166 | 168 | 142 | -15.3 |
| Distillates | 106 | 102 | 123 | 129 | 115 | -10.6 |
| Residuals | 329 | 330 | 335 | 329 | 323 | -1.9 |
| Others | 40 | 45 | 50 | 58 | 47 | -18.9 |
| Venezuela | 566 | 503 | 403 | 367 | 300 | -18.2 |
| Gasoline | 227 | 195 | 170 | 155 | 119 | -23.0 |
| Kerosene | 4 | 8 | 7 | 6 | 1 | -80.8 |
| Distillates | 163 | 127 | 118 | 113 | 94 | -16.2 |
| Residuals | 20 | 18 | 17 | 17 | 16 | -1.2 |
| Others | 151 | 155 | 92 | 77 | 69 | -10.6 |
| OPEC | 8,696 | 8,768 | 8,642 | 8,777 | 8,055 | -8.2 |
| Gasoline | 2,084 | 2,260 | 2,274 | 2,290 | 2,049 | -10.6 |
| Kerosene | 485 | 491 | 493 | 495 | 324 | -34.4 |
| Distillates | 2,088 | 1,967 | 1,970 | 2,005 | 1,796 | -10.4 |
| Residuals | 1,572 | 1,561 | 1,554 | 1,529 | 1,408 | -7.9 |
| Others | 2,467 | 2,489 | 2,352 | 2,458 | 2,478 | 0.8 |

Table 4.7
World oil demand by country

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|---------------|---------------|---------------|----------------|---------------|-------------------|
| OECD America | 24,868 | 25,112 | 25,638 | 25,691 | 22,539 | -12.3 |
| Canada | 2,465 | 2,463 | 2,520 | 2,508 | 2,192 | -12.6 |
| Chile | 352 | 357 | 363 | 362 | 324 | -10.6 |
| Mexico | 2,053 | 2,019 | 1,932 | 1,958 | 1,581 | -19.3 |
| United States | 19,999 | 20,273 | 20,822 | 20,863 | 18,443 | -11.6 |
| OECD Europe | 14,059 | 14,411 | 14,307 | 14,314 | 12,437 | -13.1 |
| Belgium | 632 | 638 | 684 | 642 | 565 | -12.0 |
| France | 1,710 | 1,737 | 1,686 | 1,688 | 1,421 | -15.8 |
| Germany | 2,383 | 2,450 | 2,326 | 2,346 | 2,149 | -8.4 |
| Italy | 1,237 | 1,245 | 1,272 | 1,255 | 1,050 | -16.3 |
| Netherlands | 935 | 943 | 929 | 916 | 858 | -6.2 |
| Poland | 582 | 658 | 680 | 698 | 662 | -5.1 |
| Spain | 1,290 | 1,297 | 1,332 | 1,328 | 1,088 | -18.1 |
| Turkey | 942 | 991 | 958 | 987 | 924 | -6.4 |
| United Kingdom | 1,599 | 1,619 | 1,605 | 1,578 | 1,215 | -23.0 |
| Others | 2,749 | 2,834 | 2,835 | 2,875 | 2,503 | -12.9 |
| OECD Asia Pacific | 8,147 | 8,156 | 8,012 | 7,934 | 7,141 | -10.0 |
| Australia | 1,117 | 1,167 | 1,185 | 1,178 | 1,022 | -13.3 |
| Japan | 4,035 | 3,945 | 3,850 | 3,739 | 3,326 | -11.1 |
| New Zealand | 168 | 177 | 179 | 184 | 152 | -17.7 |
| South Korea | 2,605 | 2,630 | 2,566 | 2,599 | 2,437 | -6.2 |
| Others | 221 | 238 | 231 | 234 | 204 | -12.5 |
| China | 11,951 | 12,471 | 13,013 | 13,485 | 13,191 | -2.2 |
| India | 4,387 | 4,531 | 4,768 | 4,913 | 4,510 | -8.2 |
| Other Asia | 8,467 | 8,692 | 8,907 | 9,001 | 8,132 | -9.7 |
| Indonesia | 1,684 | 1,715 | 1,773 | 1,796 | 1,622 | -9.7 |
| Thailand | 1,378 | 1,409 | 1,443 | 1,456 | 1,330 | -8.7 |
| Singapore | 1,328 | 1,374 | 1,374 | 1,410 | 1,339 | -5.0 |
| Malaysia | 747 | 759 | 783 | 787 | 680 | -13.5 |
| Philippines | 374 | 389 | 426 | 449 | 378 | -15.9 |
| Pakistan | 465 | 500 | 469 | 470 | 425 | -9.6 |
| Vietnam | 410 | 419 | 439 | 454 | 407 | -10.4 |
| Others | 2,081 | 2,127 | 2,200 | 2,179 | 1,949 | -10.5 |
| Latin America | 6,500 | 6,506 | 6,527 | 6,594 | 6,012 | -8.8 |
| Argentina | 720 | 736 | 722 | 709 | 597 | -15.7 |
| Brazil | 3,072 | 3,104 | 3,162 | 3,236 | 3,071 | -5.1 |
| Colombia | 324 | 331 | 336 | 348 | 292 | -16.1 |
| Ecuador | 247 | 241 | 260 | 271 | 225 | -17.0 |
| Venezuela | 566 | 503 | 403 | 367 | 300 | -18.2 |
| Others | 1,571 | 1,592 | 1,644 | 1,664 | 1,527 | -8.2 |
| Middle East | 8,145 | 8,231 | 8,128 | 8,201 | 7,545 | -8.0 |
| IR Iran | 1,801 | 1,819 | 1,854 | 1,838 | 1,692 | -7.9 |
| Iraq | 757 | 723 | 704 | 716 | 550 | -23.2 |
| Kuwait | 380 | 401 | 417 | 460 | 461 | 0.2 |
| Qatar | 350 | 339 | 330 | 342 | 292 | -14.5 |
| Saudi Arabia | 3,210 | 3,272 | 3,105 | 3,199 | 3,037 | -5.1 |
| Syria | 141 | 157 | 137 | 127 | 113 | -11.0 |
| United Arab Emirates | 799 | 819 | 885 | 899 | 828 | -7.9 |
| Others | 707 | 700 | 695 | 620 | 572 | -7.8 |
| Africa | 4,095 | 4,203 | 4,335 | 4,371 | 4,083 | -6.6 |
| Algeria | 399 | 422 | 431 | 430 | 383 | -11.0 |
| Angola | 122 | 115 | 121 | 122 | 99 | -19.2 |
| Congo | 8 | 8 | 8 | 9 | 7 | -19.1 |
| Egypt | 872 | 855 | 794 | 757 | 715 | -5.7 |
| Equatorial Guinea | 6 | 5 | 5 | 5 | 5 | -5.9 |
| Gabon | 46 | 47 | 47 | 48 | 45 | -6.4 |
| Libya | 208 | 208 | 215 | 214 | 183 | -14.7 |
| Nigeria | 393 | 426 | 446 | 470 | 466 | -0.9 |
| South Africa | 658 | 668 | 671 | 654 | 615 | -5.9 |
| Tunisia | 90 | 99 | 109 | 113 | 87 | -22.6 |
| Others | 1,293 | 1,351 | 1,488 | 1,550 | 1,480 | -4.5 |
| Russia | 3,430 | 3,477 | 3,549 | 3,568 | 3,367 | -5.6 |
| Other Eurasia | 1,141 | 1,166 | 1,207 | 1,193 | 1,074 | -9.9 |
| Azerbaijan | 103 | 107 | 121 | 123 | 106 | -14.3 |
| Belarus | 158 | 160 | 157 | 141 | 127 | -10.5 |
| Kazakhstan | 290 | 294 | 308 | 294 | 285 | -2.9 |
| Turkmenistan | 145 | 151 | 157 | 161 | 150 | -6.9 |
| Ukraine | 269 | 272 | 280 | 286 | 231 | -19.0 |
| Others | 176 | 181 | 185 | 187 | 176 | -6.3 |
| Other Europe | 696 | 718 | 743 | 764 | 697 | -8.8 |
| Bulgaria | 109 | 114 | 120 | 124 | 118 | -5.3 |
| Croatia | 103 | 106 | 109 | 113 | 106 | -6.2 |
| Romania | 187 | 195 | 197 | 202 | 188 | -6.7 |
| Serbia and Montenegro | 92 | 94 | 97 | 104 | 93 | -10.4 |
| Others | 204 | 210 | 219 | 221 | 192 | -13.2 |
| Total world | 95,887 | 97,674 | 99,131 | 100,030 | 90,727 | -9.3 |
| <i>of which</i> | | | | | | |
| OPEC | 8,696 | 8,768 | 8,642 | 8,777 | 8,055 | -8.2 |
| <i>OPEC percentage</i> | 9.1 | 9.0 | 8.7 | 8.8 | 8.9 | |
| OECD | 47,075 | 47,680 | 47,957 | 47,940 | 42,116 | -12.1 |

Oil data: downstream

Table 4.8

World oil demand by main petroleum product and region

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|--------------------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| OECD Americas | 24,868 | 25,112 | 25,638 | 25,691 | 22,539 | -12.3 |
| Gasoline | 11,091 | 11,083 | 11,157 | 11,096 | 9,582 | -13.6 |
| Kerosene | 1,899 | 1,959 | 2,027 | 2,081 | 1,260 | -39.5 |
| Distillates | 5,125 | 5,150 | 5,336 | 5,255 | 4,878 | -7.2 |
| Residuals | 605 | 660 | 675 | 625 | 523 | -16.3 |
| Others | 6,148 | 6,260 | 6,443 | 6,635 | 6,296 | -5.1 |
| OECD Europe | 14,059 | 14,411 | 14,307 | 14,314 | 12,437 | -13.1 |
| Gasoline | 1,899 | 1,918 | 1,948 | 1,994 | 1,725 | -13.5 |
| Kerosene | 1,368 | 1,444 | 1,519 | 1,549 | 745 | -51.9 |
| Distillates | 6,284 | 6,425 | 6,390 | 6,384 | 5,902 | -7.5 |
| Residuals | 890 | 944 | 945 | 927 | 778 | -16.1 |
| Others | 3,618 | 3,680 | 3,505 | 3,461 | 3,287 | -5.0 |
| OECD Asia Pacific | 8,147 | 8,156 | 8,012 | 7,934 | 7,141 | -10.0 |
| Gasoline | 1,554 | 1,549 | 1,543 | 1,523 | 1,391 | -8.7 |
| Kerosene | 899 | 919 | 915 | 908 | 616 | -32.2 |
| Distillates | 1,810 | 1,837 | 1,816 | 1,838 | 1,742 | -5.2 |
| Residuals | 703 | 707 | 704 | 582 | 587 | 0.8 |
| Others | 3,181 | 3,144 | 3,034 | 3,083 | 2,804 | -9.1 |
| China | 11,951 | 12,471 | 13,013 | 13,485 | 13,191 | -2.2 |
| Gasoline | 2,831 | 3,077 | 3,126 | 3,245 | 3,050 | -6.0 |
| Kerosene | 678 | 691 | 731 | 889 | 623 | -29.9 |
| Distillates | 3,394 | 3,470 | 3,544 | 3,402 | 3,326 | -2.2 |
| Residuals | 361 | 391 | 421 | 510 | 537 | 5.5 |
| Others | 4,687 | 4,841 | 5,191 | 5,439 | 5,654 | 4.0 |
| India | 4,387 | 4,531 | 4,768 | 4,913 | 4,510 | -8.2 |
| Gasoline | 573 | 623 | 642 | 699 | 635 | -9.2 |
| Kerosene | 266 | 247 | 253 | 237 | 139 | -41.4 |
| Distillates | 1,566 | 1,662 | 1,704 | 1,732 | 1,494 | -13.7 |
| Residuals | 168 | 151 | 147 | 150 | 139 | -7.3 |
| Others | 1,814 | 1,847 | 2,022 | 2,095 | 2,103 | 0.4 |
| Other Asia | 8,467 | 8,692 | 8,907 | 9,001 | 8,132 | -9.7 |
| Gasoline | 1,706 | 1,772 | 1,860 | 1,915 | 1,808 | -5.6 |
| Kerosene | 705 | 744 | 779 | 813 | 486 | -40.2 |
| Distillates | 2,094 | 2,114 | 2,157 | 2,169 | 2,068 | -4.7 |
| Residuals | 1,216 | 1,208 | 1,185 | 1,150 | 1,090 | -5.2 |
| Others | 2,746 | 2,852 | 2,926 | 2,954 | 2,680 | -9.3 |
| Latin America | 6,500 | 6,506 | 6,527 | 6,594 | 6,012 | -8.8 |
| Gasoline | 1,898 | 1,924 | 1,904 | 1,911 | 1,751 | -8.4 |
| Kerosene | 296 | 303 | 313 | 323 | 195 | -39.8 |
| Distillates | 2,128 | 2,089 | 2,070 | 2,082 | 1,900 | -8.8 |
| Residuals | 587 | 605 | 610 | 605 | 594 | -1.8 |
| Others | 1,591 | 1,585 | 1,629 | 1,672 | 1,572 | -6.0 |
| Middle East | 8,145 | 8,231 | 8,128 | 8,201 | 7,545 | -8.0 |
| Gasoline | 1,492 | 1,677 | 1,686 | 1,669 | 1,444 | -13.5 |
| Kerosene | 457 | 455 | 465 | 474 | 308 | -35.0 |
| Distillates | 1,874 | 1,773 | 1,763 | 1,780 | 1,628 | -8.5 |
| Residuals | 1,541 | 1,533 | 1,526 | 1,503 | 1,396 | -7.1 |
| Others | 2,781 | 2,793 | 2,688 | 2,775 | 2,770 | -0.2 |

Table 4.8
World oil demand by main petroleum product and region

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|----------------------|---------------|---------------|---------------|----------------|---------------|-------------------|
| Africa | 4,095 | 4,203 | 4,335 | 4,371 | 4,083 | -6.6 |
| Gasoline | 1,072 | 1,112 | 1,156 | 1,199 | 1,105 | -7.8 |
| Kerosene | 307 | 311 | 316 | 323 | 235 | -27.3 |
| Distillates | 1,653 | 1,683 | 1,719 | 1,762 | 1,663 | -5.6 |
| Residuals | 444 | 449 | 439 | 431 | 396 | -8.3 |
| Others | 619 | 648 | 704 | 655 | 685 | 4.5 |
| Russia | 3,430 | 3,477 | 3,549 | 3,568 | 3,367 | -5.6 |
| Gasoline | 906 | 922 | 918 | 895 | 881 | -1.6 |
| Kerosene | 253 | 261 | 260 | 227 | 143 | -37.0 |
| Distillates | 778 | 776 | 720 | 903 | 833 | -7.8 |
| Residuals | 178 | 151 | 135 | 112 | 73 | -34.8 |
| Others | 1,315 | 1,366 | 1,515 | 1,432 | 1,437 | 0.4 |
| Other Eurasia | 1,141 | 1,166 | 1,207 | 1,193 | 1,074 | -9.9 |
| Gasoline | 283 | 290 | 274 | 235 | 210 | -10.7 |
| Kerosene | 65 | 77 | 90 | 94 | 42 | -55.5 |
| Distillates | 469 | 483 | 494 | 527 | 508 | -3.6 |
| Residuals | 222 | 229 | 255 | 298 | 293 | -1.7 |
| Others | 103 | 88 | 94 | 39 | 22 | -43.8 |
| Other Europe | 696 | 718 | 743 | 764 | 697 | -8.8 |
| Gasoline | 130 | 133 | 146 | 166 | 120 | -27.8 |
| Kerosene | 23 | 23 | 24 | 26 | 5 | -80.8 |
| Distillates | 318 | 330 | 340 | 352 | 318 | -9.5 |
| Residuals | 53 | 50 | 45 | 40 | 39 | -2.5 |
| Others | 171 | 181 | 188 | 180 | 214 | 19.3 |
| Total world | 95,887 | 97,674 | 99,131 | 100,030 | 90,727 | -9.3 |
| Gasoline | 25,436 | 26,080 | 26,360 | 26,548 | 23,702 | -10.7 |
| Kerosene | 7,215 | 7,436 | 7,692 | 7,943 | 4,796 | -39.6 |
| Distillates | 27,494 | 27,793 | 28,052 | 28,185 | 26,260 | -6.8 |
| Residuals | 6,967 | 7,079 | 7,088 | 6,933 | 6,445 | -7.1 |
| Others | 28,775 | 29,286 | 29,938 | 30,420 | 29,524 | -2.9 |
| <i>of which</i> | | | | | | |
| OPEC | 8,696 | 8,768 | 8,642 | 8,777 | 8,055 | -8.2 |
| Gasoline | 2,084 | 2,260 | 2,274 | 2,290 | 2,049 | -10.6 |
| Kerosene | 485 | 491 | 493 | 495 | 324 | -34.4 |
| Distillates | 2,088 | 1,967 | 1,970 | 2,005 | 1,796 | -10.4 |
| Residuals | 1,572 | 1,561 | 1,554 | 1,529 | 1,408 | -7.9 |
| Others | 2,467 | 2,489 | 2,352 | 2,458 | 2,478 | 0.8 |
| OECD | 47,075 | 47,680 | 47,957 | 47,940 | 42,116 | -12.1 |
| Gasoline | 14,544 | 14,550 | 14,648 | 14,613 | 12,699 | -13.1 |
| Kerosene | 4,166 | 4,322 | 4,461 | 4,538 | 2,621 | -42.2 |
| Distillates | 13,219 | 13,412 | 13,542 | 13,477 | 12,522 | -7.1 |
| Residuals | 2,198 | 2,311 | 2,324 | 2,134 | 1,888 | -11.5 |
| Others | 12,948 | 13,085 | 12,982 | 13,178 | 12,387 | -6.0 |

Graph 4.1
World refinery throughput by region

(y-o-y change; mb/d)



SECTION 5

Oil trade

Oil trade

Table 5.1
OPEC Members' crude oil exports by destination

(1,000 b/d)

| | Destination | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------------------------|-------------------|----------------|----------------|----------------|----------------|--------------|
| Algeria of which | OECD Americas | 668.7 | 632.5 | 571.0 | 584.2 | 438.7 |
| | OECD Europe | 143.4 | 74.2 | 65.1 | 15.7 | 23.7 |
| | OECD Asia Pacific | 392.5 | 353.8 | 345.9 | 360.0 | 286.0 |
| | China | 12.5 | 41.1 | 37.0 | 43.3 | 30.0 |
| | India | 0.0 | 5.7 | 8.4 | 8.6 | 8.4 |
| | Other Asia | 22.5 | 38.3 | 38.0 | 53.8 | 27.1 |
| | Latin America | 51.1 | 37.5 | 32.9 | 31.5 | 36.9 |
| | Middle East | 44.2 | 46.9 | 40.4 | 43.9 | 19.2 |
| | Africa | 0.0 | 0.0 | 0.0 | 23.2 | 0.0 |
| | Russia | 0.7 | 31.3 | 2.1 | 0.0 | 0.0 |
| | Other Eurasia | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 1.8 | 3.2 | 1.3 | 4.1 | 7.4 |
| Angola of which | 1,670.1 | 1,576.7 | 1,420.6 | 1,318.7 | 1,219.7 | |
| | OECD Americas | 59.9 | 104.3 | 70.0 | 42.8 | 33.6 |
| | OECD Europe | 326.5 | 105.0 | 133.8 | 163.9 | 109.0 |
| | OECD Asia Pacific | 7.7 | 18.4 | 13.1 | 12.9 | 8.0 |
| | China | 907.6 | 971.5 | 928.0 | 892.5 | 866.8 |
| | India | 124.6 | 132.0 | 125.4 | 118.9 | 71.6 |
| | Other Asia | 124.0 | 137.4 | 74.8 | 52.3 | 104.6 |
| | Latin America | 40.4 | 35.7 | 17.4 | 17.3 | 10.5 |
| | Middle East | 0.0 | 0.0 | 16.1 | 2.6 | 2.6 |
| | Africa | 79.4 | 72.4 | 41.9 | 15.5 | 12.9 |
| | Russia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Congo of which | 254.3 | 261.2 | 307.1 | 309.4 | 282.2 | |
| | OECD Americas | 9.1 | 5.2 | 12.9 | 15.2 | 5.2 |
| | OECD Europe | 36.5 | 14.6 | 5.0 | 17.6 | 25.1 |
| | OECD Asia Pacific | 16.1 | 11.7 | 15.6 | 5.1 | 5.1 |
| | China | 139.1 | 178.4 | 237.5 | 231.2 | 182.3 |
| | India | 1.5 | 1.6 | 6.2 | 20.2 | 15.2 |
| | Other Asia | 42.1 | 43.3 | 27.3 | 17.4 | 26.3 |
| | Latin America | 0.7 | 0.0 | 0.0 | 2.6 | 4.8 |
| | Middle East | 6.4 | 6.5 | 2.6 | 0.0 | 7.8 |
| | Africa | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 |
| | Russia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| Equatorial Guinea of which | 157.6 | 124.8 | 121.0 | 110.2 | 114.5 | |
| | OECD Americas | 3.3 | 7.2 | 14.6 | 15.1 | 0.0 |
| | OECD Europe | 104.1 | 57.1 | 44.8 | 37.2 | 29.2 |
| | OECD Asia Pacific | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 |
| | China | 23.6 | 46.1 | 45.0 | 30.4 | 53.2 |
| | India | 26.5 | 14.4 | 10.9 | 21.9 | 20.3 |
| | Other Asia | 0.0 | 0.0 | 0.0 | 5.6 | 8.2 |
| | Latin America | 0.0 | 0.0 | 5.6 | 0.0 | 0.0 |
| | Middle East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Africa | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Russia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gabon of which | 205.2 | 188.4 | 174.1 | 206.9 | 196.1 | |
| | OECD Americas | 1.2 | 6.2 | 5.9 | 0.0 | 0.0 |
| | OECD Europe | 65.2 | 17.4 | 9.6 | 16.8 | 37.9 |
| | OECD Asia Pacific | 45.0 | 24.8 | 30.2 | 19.4 | 14.7 |
| | China | 47.2 | 76.9 | 73.3 | 140.9 | 116.8 |
| | India | 2.0 | 8.8 | 14.6 | 0.0 | 6.8 |
| | Other Asia | 10.9 | 36.3 | 24.8 | 29.1 | 19.8 |
| | Latin America | 33.7 | 17.9 | 14.1 | 0.0 | 0.0 |
| | Middle East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Africa | 0.0 | 0.0 | 1.5 | 0.7 | 0.0 |
| | Russia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| IR Iran of which | 1,921.7 | 2,125.0 | 1,849.6 | 651.1 | 404.5 | |
| | OECD Americas | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | OECD Europe | 486.1 | 743.4 | 442.6 | 59.5 | 3.8 |
| | OECD Asia Pacific | 341.7 | 362.3 | 272.0 | 135.7 | 0.0 |
| | China | 581.6 | 515.0 | 585.4 | 298.1 | 78.4 |
| | India | 468.0 | 469.8 | 530.8 | 93.5 | 0.0 |
| | Other Asia | 32.3 | 22.9 | 18.8 | 64.2 | 316.6 |
| | Latin America | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Middle East | 0.0 | 0.0 | 0.0 | 0.0 | 5.7 |
| | Africa | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Russia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 11.3 | 11.6 | 0.0 | 0.0 | 0.0 |
| Iraq of which | 3,803.5 | 3,802.0 | 3,862.0 | 3,968.2 | 3,428.4 | |
| | OECD Americas | 416.9 | 598.4 | 503.1 | 300.4 | 138.9 |
| | OECD Europe | 981.8 | 975.3 | 870.3 | 1,051.6 | 755.8 |
| | OECD Asia Pacific | 453.2 | 399.1 | 431.7 | 361.9 | 242.5 |
| | China | 724.4 | 740.8 | 900.8 | 1,038.6 | 1,137.4 |
| | India | 760.7 | 844.1 | 954.5 | 987.6 | 902.1 |
| | Other Asia | 332.2 | 146.4 | 132.3 | 118.8 | 83.6 |
| | Latin America | 134.3 | 27.4 | 28.6 | 8.1 | 6.0 |
| | Middle East | 0.0 | 41.0 | 0.0 | 35.9 | 21.8 |
| | Africa | 0.0 | 17.0 | 18.2 | 45.9 | 65.1 |
| | Russia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 0.0 | 12.5 | 22.6 | 19.5 | 75.1 |

Table 5.1

OPEC Members' crude oil exports by destination

(1,000 b/d)

| | Destination | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|-------------------|----------|----------|----------|----------|----------|
| Kuwait of which | OECD Americas | 2,128.2 | 2,010.0 | 2,050.0 | 1,986.3 | 1,826.3 |
| | OECD Europe | 244.5 | 253.8 | 205.6 | 153.3 | 0.0 |
| | OECD Asia Pacific | 181.1 | 137.5 | 38.6 | 16.2 | 32.0 |
| | China | 656.0 | 666.9 | 667.6 | 661.7 | 552.2 |
| | India | 326.5 | 365.6 | 465.7 | 454.1 | 537.9 |
| | Other Asia | 202.8 | 223.4 | 229.5 | 214.2 | 183.6 |
| | Latin America | 458.1 | 323.7 | 386.8 | 418.9 | 429.2 |
| | Middle East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Africa | 59.2 | 39.2 | 56.2 | 67.9 | 86.2 |
| | Russia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 |
| Libya of which | OECD Americas | 350.1 | 792.1 | 998.5 | 1,035.7 | 347.2 |
| | OECD Europe | 16.5 | 56.4 | 55.8 | 63.8 | 2.9 |
| | OECD Asia Pacific | 291.7 | 624.4 | 662.2 | 677.6 | 241.4 |
| | China | 15.5 | 32.7 | 29.3 | 31.2 | 7.0 |
| | India | 9.0 | 52.4 | 170.9 | 188.2 | 72.9 |
| | Other Asia | 0.0 | 0.0 | 5.4 | 2.7 | 3.5 |
| | Latin America | 4.1 | 13.2 | 63.6 | 52.2 | 14.3 |
| | Middle East | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Africa | 2.9 | 1.9 | 1.4 | 4.6 | 0.0 |
| | Russia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 10.4 | 11.1 | 6.6 | 11.2 | 5.2 |
| Nigeria of which | OECD Americas | 1,738.0 | 1,811.1 | 1,979.5 | 2,008.2 | 1,879.3 |
| | OECD Europe | 309.6 | 331.5 | 172.0 | 27.5 | 90.2 |
| | OECD Asia Pacific | 569.6 | 692.6 | 1,055.8 | 439.3 | 812.4 |
| | China | 0.7 | 18.1 | 39.6 | 237.8 | 38.5 |
| | India | 17.5 | 15.8 | 9.2 | 0.0 | 80.8 |
| | Other Asia | 362.1 | 364.8 | 327.4 | 0.0 | 295.5 |
| | Latin America | 109.1 | 113.9 | 11.0 | 427.2 | 220.5 |
| | Middle East | 81.3 | 50.1 | 52.3 | 252.2 | 21.5 |
| | Africa | 0.0 | 2.5 | 0.0 | 122.3 | 9.4 |
| | Russia | 252.3 | 221.8 | 309.5 | 260.7 | 310.5 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 35.8 | 0.0 | 2.6 | 77.6 | 0.0 |
| Saudi Arabia of which | OECD Americas | 7,463.4 | 6,968.3 | 7,371.5 | 7,038.1 | 6,658.6 |
| | OECD Europe | 1,177.0 | 1,003.5 | 1,020.3 | 560.5 | 548.8 |
| | OECD Asia Pacific | 870.8 | 771.7 | 869.3 | 797.4 | 756.5 |
| | China | 2,063.4 | 2,151.0 | 2,025.8 | 1,865.7 | 1,854.8 |
| | India | 1,022.4 | 1,047.7 | 1,138.6 | 1,671.4 | 1,700.5 |
| | Other Asia | 807.2 | 719.4 | 787.8 | 852.2 | 751.1 |
| | Latin America | 1,025.0 | 879.3 | 1,028.6 | 781.1 | 582.0 |
| | Middle East | 71.4 | 71.3 | 70.5 | 66.7 | 51.7 |
| | Africa | 272.9 | 155.1 | 266.9 | 266.0 | 211.6 |
| | Russia | 153.1 | 163.8 | 163.8 | 177.0 | 201.7 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 0.0 | 5.7 | 0.0 | 0.0 | 0.0 |
| United Arab Emirates of which | OECD Americas | 2,407.8 | 2,378.7 | 2,296.5 | 2,414.2 | 2,418.4 |
| | OECD Europe | 6.6 | 13.4 | 5.0 | 2.8 | 1.0 |
| | OECD Asia Pacific | 18.4 | 0.0 | 0.0 | 0.0 | 3.2 |
| | China | 1,146.4 | 1,139.0 | 1,090.8 | 1,247.6 | 1,088.5 |
| | India | 227.1 | 167.8 | 252.2 | 242.1 | 528.0 |
| | Other Asia | 333.4 | 308.4 | 326.5 | 414.4 | 447.6 |
| | Latin America | 654.0 | 729.8 | 598.0 | 464.0 | 248.0 |
| | Middle East | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| | Africa | 1.3 | 7.9 | 0.0 | 0.0 | 0.0 |
| | Russia | 20.5 | 12.4 | 24.0 | 43.2 | 101.4 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Venezuela of which | OECD Americas | 1,835.0 | 1,596.4 | 1,273.1 | 846.6 | 486.8 |
| | OECD Europe | 645.9 | 545.6 | 494.3 | 28.2 | 0.0 |
| | OECD Asia Pacific | 63.6 | 65.4 | 49.4 | 98.2 | 39.2 |
| | China | 0.0 | 8.1 | 0.0 | 0.0 | 0.0 |
| | India | 290.0 | 330.9 | 277.2 | 245.7 | 13.7 |
| | Other Asia | 392.7 | 291.2 | 289.0 | 338.5 | 109.8 |
| | Latin America | 0.0 | 13.5 | 26.6 | 82.0 | 280.7 |
| | Middle East | 442.7 | 341.6 | 133.9 | 45.9 | 30.7 |
| | Africa | 0.0 | 0.0 | 2.7 | 7.1 | 0.0 |
| | Russia | 0.0 | 0.0 | 0.0 | 0.0 | 11.2 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 |
| OPEC of which | OECD Americas | 24,603.5 | 24,267.2 | 24,274.5 | 22,477.8 | 19,700.6 |
| | OECD Europe | 3,034.0 | 2,999.6 | 2,624.7 | 1,225.4 | 844.3 |
| | OECD Asia Pacific | 4,387.8 | 4,558.4 | 4,527.2 | 3,735.3 | 3,131.4 |
| | China | 4,758.4 | 4,873.2 | 4,652.6 | 4,622.3 | 3,844.9 |
| | India | 4,316.3 | 4,514.5 | 5,092.3 | 5,441.8 | 5,377.2 |
| | Other Asia | 3,504.0 | 3,416.2 | 3,646.0 | 3,118.0 | 2,834.2 |
| | Latin America | 2,842.8 | 2,497.2 | 2,425.7 | 2,544.3 | 2,370.8 |
| | Middle East | 848.7 | 590.8 | 366.1 | 440.9 | 145.1 |
| | Africa | 280.6 | 213.0 | 288.2 | 457.2 | 258.9 |
| | Russia | 568.9 | 559.8 | 618.7 | 616.4 | 799.2 |
| | Other Eurasia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Other Europe | 62.1 | 44.1 | 33.1 | 112.4 | 93.0 |

Notes:

Data may include lease condensates and volumes of oil in transit.

Oil trade

Table 5.2
World crude oil exports by country

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| OECD Americas | 4,607.0 | 5,315.0 | 6,509.1 | 7,461.2 | 7,412.2 | -0.7 |
| Canada | 2,742.2 | 2,892.9 | 3,177.8 | 3,279.3 | 3,037.7 | -7.4 |
| Mexico | 1,273.8 | 1,264.1 | 1,283.3 | 1,199.9 | 1,198.5 | -0.1 |
| United States | 591.0 | 1,158.0 | 2,048.0 | 2,982.0 | 3,175.0 | 6.5 |
| Others | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 100.0 |
| OECD Europe | 2,102.3 | 2,195.0 | 2,167.5 | 2,144.4 | 2,274.5 | 6.1 |
| Norway | 1,372.2 | 1,361.2 | 1,254.5 | 1,233.5 | 1,501.8 | 21.7 |
| United Kingdom | 620.2 | 692.7 | 818.0 | 834.4 | 724.3 | -13.2 |
| Others | 110.0 | 141.1 | 95.0 | 76.5 | 48.4 | -36.8 |
| OECD Asia Pacific | 230.1 | 206.0 | 236.2 | 270.6 | 271.2 | 0.2 |
| Australia | 199.5 | 179.8 | 214.6 | 248.8 | 253.2 | 1.7 |
| Others | 30.6 | 26.3 | 21.6 | 21.7 | 18.0 | -17.1 |
| China | 58.6 | 97.1 | 52.4 | 16.1 | 32.7 | 103.2 |
| India | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other Asia | 1,020.5 | 951.9 | 838.7 | 643.8 | 654.1 | 1.6 |
| Brunei | 104.7 | 98.0 | 91.9 | 106.9 | 82.3 | -23.0 |
| Indonesia | 334.5 | 284.8 | 205.7 | 70.9 | 92.9 | 31.0 |
| Malaysia | 342.8 | 344.8 | 357.5 | 287.0 | 280.0 | -2.4 |
| Vietnam | 146.3 | 129.5 | 88.5 | 85.4 | 113.5 | 33.0 |
| Others | 92.3 | 94.8 | 95.1 | 93.6 | 85.3 | -8.8 |
| Latin America | 3,830.5 | 3,821.7 | 3,468.9 | 3,292.1 | 3,006.0 | -8.7 |
| Brazil | 891.3 | 1,127.4 | 1,147.0 | 1,301.3 | 1,401.0 | 7.7 |
| Colombia | 613.5 | 641.5 | 590.3 | 611.6 | 541.0 | -11.6 |
| Ecuador | 400.2 | 379.8 | 367.2 | 397.8 | 361.8 | -9.1 |
| Trinidad & Tobago | 28.3 | 31.3 | 30.2 | 54.2 | 55.6 | 2.5 |
| Venezuela | 1,835.0 | 1,596.4 | 1,273.1 | 846.6 | 486.8 | -42.5 |
| Others | 62.3 | 45.2 | 61.0 | 80.5 | 159.8 | 98.5 |
| Middle East | 19,321.1 | 18,756.8 | 18,916.8 | 17,630.1 | 16,303.0 | -7.5 |
| Bahrain | 131.9 | 154.8 | 156.3 | 155.8 | 150.9 | -3.1 |
| IR Iran | 1,921.7 | 2,125.0 | 1,849.6 | 651.1 | 404.5 | -37.9 |
| Iraq | 3,803.5 | 3,802.0 | 3,862.0 | 3,968.2 | 3,428.4 | -13.6 |
| Kuwait | 2,128.2 | 2,010.0 | 2,050.0 | 1,986.3 | 1,826.3 | -8.1 |
| Oman | 887.5 | 803.0 | 807.8 | 838.6 | 859.9 | 2.5 |
| Qatar | 503.4 | 466.0 | 477.3 | 524.5 | 502.8 | -4.1 |
| Saudi Arabia | 7,463.4 | 6,968.3 | 7,371.5 | 7,038.1 | 6,658.6 | -5.4 |
| United Arab Emirates | 2,407.8 | 2,378.7 | 2,296.5 | 2,414.2 | 2,418.4 | 0.2 |
| Others | 73.6 | 48.9 | 45.7 | 53.2 | 53.2 | -0.1 |
| Africa | 5,957.5 | 6,226.5 | 6,435.9 | 6,454.1 | 5,384.4 | -16.6 |
| Algeria | 668.7 | 632.5 | 571.0 | 584.2 | 438.7 | -24.9 |
| Angola | 1,670.1 | 1,576.7 | 1,420.6 | 1,318.7 | 1,219.7 | -7.5 |
| Congo | 254.3 | 261.2 | 307.1 | 309.4 | 282.2 | -8.8 |
| Egypt | 164.6 | 139.3 | 114.9 | 90.3 | 102.8 | 13.9 |
| Equatorial Guinea | 157.6 | 124.8 | 121.0 | 110.2 | 114.5 | 3.9 |
| Gabon | 205.2 | 188.4 | 174.1 | 206.9 | 196.1 | -5.2 |
| Libya | 350.1 | 792.1 | 998.5 | 1,035.7 | 347.2 | -66.5 |
| Nigeria | 1,738.0 | 1,811.1 | 1,979.5 | 2,008.2 | 1,879.3 | -6.4 |
| Sudans | 119.6 | 98.5 | 114.8 | 138.2 | 135.4 | -2.0 |
| Others | 629.4 | 601.8 | 634.5 | 652.4 | 668.6 | 2.5 |
| Russia | 5,079.3 | 5,057.5 | 5,206.8 | 5,253.0 | 4,653.5 | -11.4 |
| Other Eurasia | 1,969.1 | 2,060.6 | 2,080.2 | 2,040.3 | 1,982.7 | -2.8 |
| Azerbaijan | 655.1 | 615.3 | 608.6 | 559.3 | 500.3 | -10.5 |
| Kazakhstan | 1,229.5 | 1,370.7 | 1,401.2 | 1,410.9 | 1,416.7 | 0.4 |
| Others | 84.5 | 74.6 | 70.4 | 70.1 | 65.8 | -6.2 |
| Other Europe | 18.2 | 10.6 | 11.8 | 15.9 | 13.7 | -13.6 |
| Total world | 44,194.1 | 44,698.7 | 45,924.3 | 45,221.6 | 41,988.0 | -7.2 |
| <i>of which</i> | | | | | | |
| OPEC | 24,603.5 | 24,267.2 | 24,274.5 | 22,477.8 | 19,700.6 | -12.4 |
| <i>OPEC percentage</i> | 55.7 | 54.3 | 52.9 | 49.7 | 46.9 | |
| OECD | 6,939.5 | 7,716.1 | 8,912.8 | 9,876.3 | 9,957.9 | 0.8 |

Notes:

Data may include lease condensates and volumes of oil in transit.

Table 5.3

World exports of petroleum products by country

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| OECD Americas | 5,291.8 | 5,872.6 | 6,141.8 | 6,095.8 | 5,903.7 | -3.2 |
| Canada | 435.3 | 491.1 | 443.9 | 484.6 | 416.9 | -14.0 |
| Mexico | 182.1 | 156.1 | 140.5 | 115.5 | 138.8 | 20.2 |
| United States | 4,670.0 | 5,218.0 | 5,553.0 | 5,490.0 | 5,333.0 | -2.9 |
| Others | 4.5 | 7.4 | 4.3 | 5.7 | 14.9 | 162.2 |
| OECD Europe | 7,575.1 | 7,886.3 | 7,651.0 | 7,312.4 | 6,456.3 | -11.7 |
| Belgium | 537.9 | 623.9 | 621.6 | 607.8 | 502.4 | -17.3 |
| France | 428.1 | 434.7 | 424.2 | 367.4 | 277.9 | -24.3 |
| Germany | 465.3 | 482.8 | 461.1 | 449.0 | 452.1 | 0.7 |
| Italy | 580.1 | 636.3 | 579.0 | 556.8 | 461.8 | -17.1 |
| Netherlands | 2,303.6 | 2,332.6 | 2,305.8 | 2,247.2 | 1,917.6 | -14.7 |
| Norway | 351.5 | 432.8 | 415.8 | 428.4 | 387.8 | -9.5 |
| Spain | 423.3 | 471.3 | 452.7 | 419.6 | 398.2 | -5.1 |
| Sweden | 320.6 | 349.8 | 346.5 | 230.3 | 200.5 | -12.9 |
| United Kingdom | 523.7 | 505.6 | 483.4 | 450.9 | 396.5 | -12.1 |
| Others | 1,641.1 | 1,616.4 | 1,561.0 | 1,554.9 | 1,461.5 | -6.0 |
| OECD Asia Pacific | 2,075.5 | 2,113.5 | 2,171.3 | 2,248.7 | 1,848.0 | -17.8 |
| Japan | 594.8 | 575.3 | 548.1 | 609.4 | 350.3 | -42.5 |
| South Korea | 1,313.4 | 1,367.0 | 1,432.3 | 1,408.6 | 1,258.8 | -10.6 |
| Others | 167.2 | 171.2 | 190.8 | 230.7 | 238.9 | 3.6 |
| China | 1,088.5 | 1,168.8 | 1,276.1 | 1,460.0 | 1,324.0 | -9.3 |
| India | 1,401.7 | 1,411.4 | 1,344.3 | 1,359.8 | 1,216.2 | -10.6 |
| Other Asia | 3,190.4 | 3,317.3 | 3,081.8 | 2,845.4 | 2,777.1 | -2.4 |
| Indonesia | 82.9 | 80.3 | 86.8 | 89.0 | 96.3 | 8.3 |
| Malaysia | 609.3 | 632.1 | 662.6 | 645.9 | 774.8 | 20.0 |
| Singapore | 1,995.0 | 2,088.3 | 1,776.7 | 1,621.8 | 1,440.0 | -11.2 |
| Others | 503.3 | 516.5 | 555.7 | 488.8 | 465.9 | -4.7 |
| Latin America | 1,047.5 | 981.6 | 1,057.2 | 885.1 | 820.9 | -7.3 |
| Brazil | 124.4 | 133.1 | 170.5 | 217.2 | 283.9 | 30.7 |
| Ecuador | 31.4 | 42.3 | 42.2 | 38.9 | 33.7 | -13.3 |
| Trinidad & Tobago | 121.0 | 118.2 | 119.4 | 14.7 | 12.4 | -15.9 |
| Venezuela | 262.5 | 229.6 | 226.2 | 97.5 | 69.6 | -28.6 |
| Others | 508.2 | 458.5 | 498.9 | 516.8 | 421.2 | -18.5 |
| Middle East | 4,247.8 | 3,979.1 | 4,700.1 | 4,081.4 | 3,557.8 | -12.8 |
| Bahrain | 230.3 | 240.7 | 237.9 | 249.1 | 213.3 | -14.4 |
| IR Iran | 515.0 | 270.2 | 272.1 | 284.6 | 280.7 | -1.4 |
| Iraq | 36.8 | 20.1 | 45.7 | 106.6 | 151.0 | 41.7 |
| Kuwait | 707.4 | 640.0 | 630.4 | 637.1 | 527.0 | -17.3 |
| Qatar | 568.1 | 639.4 | 552.2 | 537.6 | 460.0 | -14.4 |
| Saudi Arabia | 1,502.6 | 1,438.2 | 1,971.2 | 1,300.3 | 1,016.6 | -21.8 |
| United Arab Emirates | 630.0 | 653.7 | 916.0 | 881.8 | 839.6 | -4.8 |
| Others | 57.6 | 76.9 | 74.6 | 84.3 | 69.7 | -17.3 |
| Africa | 862.1 | 844.6 | 844.6 | 858.3 | 907.8 | 5.8 |
| Algeria | 541.1 | 569.7 | 532.1 | 506.2 | 503.4 | -0.5 |
| Angola | 54.3 | 17.2 | 17.6 | 16.8 | 16.3 | -3.0 |
| Congo | 5.7 | 5.8 | 5.9 | 5.9 | 4.3 | -27.6 |
| Egypt | 36.3 | 43.6 | 73.3 | 125.8 | 165.6 | 31.6 |
| Equatorial Guinea | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gabon | 10.4 | 12.3 | 8.9 | 7.5 | 8.6 | 14.7 |
| Libya | 23.1 | 23.5 | 25.4 | 21.0 | 65.8 | 213.1 |
| Nigeria | 17.9 | 19.3 | 21.3 | 20.1 | 0.0 | -100.0 |
| Others | 173.1 | 153.2 | 160.1 | 154.9 | 143.8 | -7.2 |
| Russia | 2,501.7 | 2,478.6 | 2,509.9 | 2,555.9 | 2,419.4 | -5.3 |
| Other Eurasia | 544.3 | 545.2 | 460.1 | 461.7 | 446.3 | -3.3 |
| Azerbaijan | 36.8 | 24.8 | 26.3 | 26.8 | 27.9 | 4.4 |
| Kazakhstan | 136.4 | 145.9 | 127.6 | 120.9 | 113.8 | -5.9 |
| Others | 371.1 | 374.6 | 306.2 | 314.0 | 304.7 | -3.0 |
| Other Europe | 210.4 | 210.4 | 209.1 | 209.8 | 164.1 | -21.8 |
| Romania | 96.1 | 89.2 | 95.3 | 95.2 | 79.0 | -17.0 |
| Others | 114.3 | 121.2 | 113.8 | 114.6 | 85.1 | -25.7 |
| Total world | 30,036.8 | 30,809.2 | 31,447.2 | 30,374.2 | 27,841.4 | -8.3 |
| of which | | | | | | |
| OPEC | 4,307.0 | 3,899.4 | 4,672.7 | 3,885.5 | 3,482.9 | -10.4 |
| OPEC percentage | 14.3 | 12.7 | 14.9 | 12.8 | 12.5 | |
| OECD | 14,942.4 | 15,872.4 | 15,964.1 | 15,656.9 | 14,208.0 | -9.3 |

Notes:

Data may include re-exports and volumes of oil in transit.

Table 5.4
World exports of petroleum products by main petroleum product and region (1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|--------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| OECD Americas | 5,291.8 | 5,872.6 | 6,141.8 | 6,095.8 | 5,903.7 | -3.2 |
| Gasoline | 1,062.7 | 1,161.4 | 1,226.7 | 1,170.5 | 1,048.8 | -10.4 |
| Kerosene | 223.1 | 243.4 | 273.6 | 277.8 | 126.6 | -54.4 |
| Distillates | 1,536.3 | 1,755.4 | 1,587.5 | 1,630.7 | 1,547.9 | -5.1 |
| Residuals | 525.2 | 528.8 | 534.2 | 361.5 | 292.2 | -19.2 |
| Others | 1,944.5 | 2,183.6 | 2,519.9 | 2,655.4 | 2,888.1 | 8.8 |
| OECD Europe | 7,575.1 | 7,886.3 | 7,651.0 | 7,312.4 | 6,456.3 | -11.7 |
| Gasoline | 1,906.0 | 1,986.1 | 1,968.0 | 1,973.1 | 1,638.7 | -16.9 |
| Kerosene | 367.4 | 399.1 | 435.1 | 437.9 | 316.3 | -27.8 |
| Distillates | 2,209.6 | 2,292.5 | 2,036.9 | 1,986.5 | 1,930.0 | -2.8 |
| Residuals | 1,405.3 | 1,147.9 | 1,030.0 | 872.5 | 911.0 | 4.4 |
| Others | 1,686.9 | 2,060.6 | 2,180.9 | 2,042.3 | 1,660.2 | -18.7 |
| OECD Asia Pacific | 2,075.5 | 2,113.5 | 2,171.3 | 2,248.7 | 1,848.0 | -17.8 |
| Gasoline | 309.1 | 338.2 | 350.9 | 353.0 | 278.0 | -21.2 |
| Kerosene | 427.5 | 449.1 | 439.3 | 452.4 | 307.5 | -32.0 |
| Distillates | 772.2 | 780.0 | 793.2 | 869.9 | 738.1 | -15.1 |
| Residuals | 147.9 | 146.7 | 183.6 | 139.5 | 123.3 | -11.6 |
| Others | 418.7 | 399.4 | 404.2 | 434.0 | 401.1 | -7.6 |
| China | 1,088.5 | 1,168.8 | 1,276.1 | 1,460.0 | 1,324.0 | -9.3 |
| Gasoline | 225.2 | 246.3 | 299.2 | 379.8 | 371.6 | -2.2 |
| Kerosene | 278.0 | 280.8 | 312.1 | 374.5 | 212.9 | -43.2 |
| Distillates | 304.0 | 341.9 | 366.1 | 424.3 | 390.7 | -7.9 |
| Residuals | 178.4 | 201.6 | 219.0 | 202.7 | 286.5 | 41.3 |
| Others | 102.8 | 98.2 | 79.8 | 78.7 | 62.3 | -20.8 |
| India | 1,401.7 | 1,411.4 | 1,344.3 | 1,359.8 | 1,216.2 | -10.6 |
| Gasoline | 375.5 | 332.3 | 309.5 | 301.5 | 267.8 | -11.2 |
| Kerosene | 159.2 | 148.6 | 160.7 | 154.7 | 86.4 | -44.2 |
| Distillates | 551.4 | 571.1 | 564.0 | 604.6 | 603.9 | -0.1 |
| Residuals | 44.2 | 42.7 | 40.2 | 31.6 | 16.6 | -47.6 |
| Others | 271.4 | 316.7 | 269.8 | 267.4 | 241.5 | -9.7 |
| Other Asia | 3,190.4 | 3,317.3 | 3,081.8 | 2,845.4 | 2,777.1 | -2.4 |
| Gasoline | 776.8 | 794.4 | 702.6 | 604.4 | 603.5 | -0.2 |
| Kerosene | 73.4 | 79.8 | 68.0 | 61.2 | 102.4 | 67.5 |
| Distillates | 980.1 | 949.3 | 969.5 | 906.5 | 890.1 | -1.8 |
| Residuals | 791.4 | 860.6 | 769.4 | 670.3 | 552.0 | -17.6 |
| Others | 568.8 | 633.2 | 572.3 | 603.0 | 628.9 | 4.3 |
| Latin America | 1,047.5 | 981.6 | 1,057.2 | 885.1 | 820.9 | -7.3 |
| Gasoline | 31.7 | 17.0 | 50.4 | 90.7 | 74.9 | -17.4 |
| Kerosene | 56.8 | 36.5 | 27.2 | 68.4 | 30.5 | -55.4 |
| Distillates | 46.0 | 30.2 | 68.4 | 17.8 | 22.6 | 26.9 |
| Residuals | 545.7 | 638.5 | 666.9 | 460.4 | 516.7 | 12.2 |
| Others | 367.4 | 259.3 | 244.3 | 247.7 | 176.1 | -28.9 |
| Middle East | 4,247.8 | 3,979.1 | 4,700.1 | 4,081.4 | 3,557.8 | -12.8 |
| Gasoline | 293.8 | 284.5 | 499.8 | 347.2 | 294.3 | -15.2 |
| Kerosene | 598.3 | 544.0 | 661.0 | 593.7 | 521.8 | -12.1 |
| Distillates | 1,100.9 | 1,000.3 | 1,329.3 | 1,132.3 | 941.8 | -16.8 |
| Residuals | 622.9 | 716.9 | 876.1 | 606.7 | 477.4 | -21.3 |
| Others | 1,631.9 | 1,433.4 | 1,333.8 | 1,401.4 | 1,322.5 | -5.6 |

Table 5.4

World exports of petroleum products by main petroleum product and region

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| Africa | 862.1 | 844.6 | 844.6 | 858.3 | 907.8 | 5.8 |
| Gasoline | 14.5 | 13.7 | 17.8 | 18.9 | 13.0 | -31.2 |
| Kerosene | 56.0 | 75.4 | 78.4 | 64.3 | 85.7 | 33.1 |
| Distillates | 14.3 | 31.4 | 27.0 | 38.2 | 11.0 | -71.2 |
| Residuals | 320.3 | 287.1 | 252.7 | 248.2 | 294.5 | 18.7 |
| Others | 456.9 | 437.0 | 468.8 | 488.7 | 503.6 | 3.0 |
| Russia | 2,501.7 | 2,478.6 | 2,509.9 | 2,555.9 | 2,419.4 | -5.3 |
| Gasoline | 119.8 | 103.3 | 98.5 | 121.8 | 133.0 | 9.2 |
| Kerosene | 56.3 | 51.1 | 59.4 | 61.5 | 46.7 | -24.1 |
| Distillates | 979.5 | 1,023.9 | 1,115.5 | 1,051.8 | 1,043.8 | -0.8 |
| Residuals | 735.0 | 671.5 | 589.7 | 645.9 | 584.9 | -9.4 |
| Others | 611.0 | 628.9 | 646.8 | 675.0 | 611.0 | -9.5 |
| Other Eurasia | 544.3 | 545.2 | 460.1 | 461.7 | 446.3 | -3.3 |
| Gasoline | 81.4 | 77.9 | 65.3 | 56.9 | 81.7 | 43.7 |
| Kerosene | 11.4 | 12.6 | 10.7 | 14.9 | 7.3 | -51.3 |
| Distillates | 149.6 | 123.8 | 97.9 | 109.0 | 118.5 | 8.7 |
| Residuals | 190.5 | 193.3 | 167.8 | 153.3 | 105.5 | -31.2 |
| Others | 111.4 | 137.6 | 118.3 | 127.6 | 133.4 | 4.5 |
| Other Europe | 210.4 | 210.4 | 209.1 | 209.8 | 164.1 | -21.8 |
| Gasoline | 91.7 | 89.9 | 91.5 | 93.1 | 80.5 | -13.6 |
| Kerosene | 6.6 | 6.8 | 8.1 | 8.7 | 4.6 | -47.0 |
| Distillates | 72.4 | 78.0 | 71.0 | 81.3 | 60.0 | -26.2 |
| Residuals | 28.8 | 23.6 | 25.9 | 15.3 | 9.4 | -38.6 |
| Others | 11.0 | 12.0 | 12.5 | 11.4 | 9.6 | -15.6 |
| Total world | 30,036.8 | 30,809.2 | 31,447.2 | 30,374.2 | 27,841.4 | -8.3 |
| Gasoline | 5,288.2 | 5,445.1 | 5,680.2 | 5,510.8 | 4,886.0 | -11.3 |
| Kerosene | 2,314.0 | 2,327.1 | 2,533.8 | 2,570.1 | 1,848.6 | -28.1 |
| Distillates | 8,716.2 | 8,977.8 | 9,026.4 | 8,852.7 | 8,298.5 | -6.3 |
| Residuals | 5,535.7 | 5,459.2 | 5,355.6 | 4,408.1 | 4,169.9 | -5.4 |
| Others | 8,182.6 | 8,600.0 | 8,851.2 | 9,032.5 | 8,638.3 | -4.4 |
| <i>of which</i> | | | | | | |
| OPEC | 4,307.0 | 3,899.4 | 4,672.7 | 3,885.5 | 3,482.9 | -10.4 |
| Gasoline | 290.9 | 286.8 | 496.0 | 343.9 | 294.6 | -14.3 |
| Kerosene | 586.9 | 492.6 | 582.6 | 508.7 | 466.9 | -8.2 |
| Distillates | 1,052.5 | 932.9 | 1,260.0 | 1,051.5 | 874.7 | -16.8 |
| Residuals | 982.2 | 1,018.0 | 1,154.2 | 776.2 | 650.7 | -16.2 |
| Others | 1,394.4 | 1,169.1 | 1,179.8 | 1,205.2 | 1,196.0 | -0.8 |
| OECD | 14,942.4 | 15,872.4 | 15,964.1 | 15,656.9 | 14,208.0 | -9.3 |
| Gasoline | 3,307.4 | 3,517.1 | 3,573.7 | 3,527.4 | 2,992.5 | -15.2 |
| Kerosene | 1,004.3 | 1,082.2 | 1,135.6 | 1,152.4 | 755.9 | -34.4 |
| Distillates | 4,510.4 | 4,817.8 | 4,409.0 | 4,472.7 | 4,224.8 | -5.5 |
| Residuals | 2,122.5 | 1,854.1 | 1,767.9 | 1,393.4 | 1,357.5 | -2.6 |
| Others | 3,997.7 | 4,601.1 | 5,077.8 | 5,111.0 | 4,877.3 | -4.6 |

Notes:

Data may include re-exports and volumes of oil in transit.

Oil trade

(1,000 b/d)

Graph 5.1
World inter-regional trade of crude oil, 2020

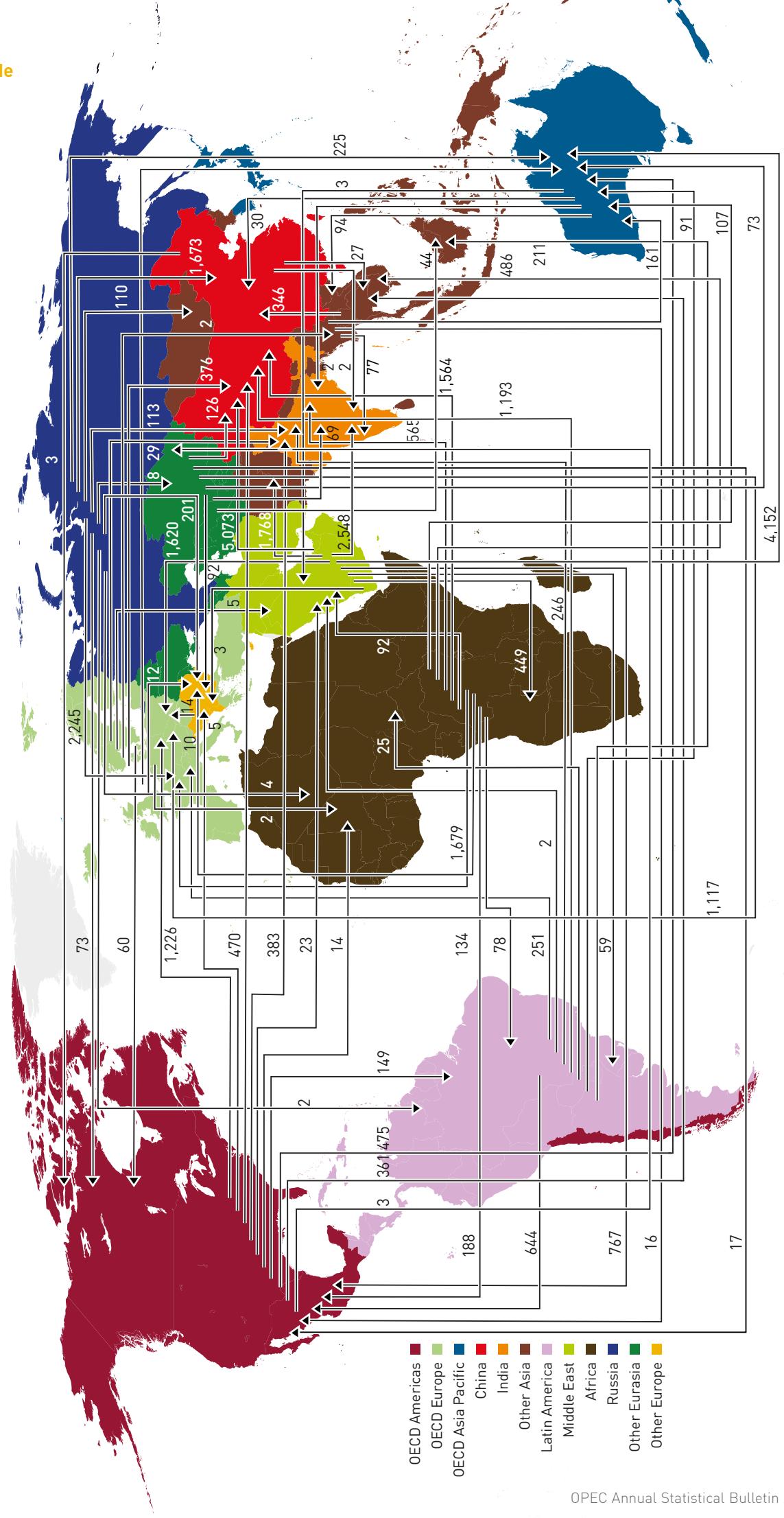


Table 5.5

World exports of crude oil and petroleum products by country

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| OECD Americas | 9,898.9 | 11,187.7 | 12,650.9 | 13,557.0 | 13,315.9 | -1.8 |
| Canada | 3,177.4 | 3,384.1 | 3,621.7 | 3,763.9 | 3,454.6 | -8.2 |
| Mexico | 1,455.9 | 1,420.3 | 1,423.8 | 1,315.4 | 1,337.3 | 1.7 |
| United States | 5,261.0 | 6,376.0 | 7,601.0 | 8,472.0 | 8,508.0 | 0.4 |
| Others | 4.5 | 7.4 | 4.3 | 5.7 | 16.0 | 180.6 |
| OECD Europe | 9,677.5 | 10,081.3 | 9,818.6 | 9,456.8 | 8,730.7 | -7.7 |
| Belgium | 537.9 | 623.9 | 621.6 | 607.8 | 502.4 | -17.3 |
| France | 428.1 | 434.7 | 424.2 | 367.4 | 277.9 | -24.3 |
| Germany | 467.4 | 482.8 | 461.1 | 451.2 | 452.1 | 0.2 |
| Italy | 592.6 | 651.2 | 589.1 | 556.8 | 465.4 | -16.4 |
| Netherlands | 2,310.2 | 2,340.9 | 2,314.6 | 2,255.2 | 1,925.3 | -14.6 |
| Norway | 1,723.7 | 1,794.0 | 1,670.3 | 1,661.9 | 1,889.5 | 13.7 |
| Spain | 423.3 | 471.3 | 452.7 | 419.6 | 398.2 | -5.1 |
| Sweden | 320.6 | 366.0 | 346.5 | 235.9 | 201.5 | -14.6 |
| United Kingdom | 1,143.8 | 1,198.3 | 1,301.4 | 1,285.4 | 1,120.9 | -12.8 |
| Others | 1,730.0 | 1,718.2 | 1,637.1 | 1,615.7 | 1,497.5 | -7.3 |
| OECD Asia Pacific | 2,305.6 | 2,319.5 | 2,407.4 | 2,519.3 | 2,119.2 | -15.9 |
| Australia | 249.1 | 230.3 | 279.5 | 344.7 | 361.6 | 4.9 |
| Japan | 594.8 | 575.3 | 548.1 | 609.4 | 350.3 | -42.5 |
| South Korea | 1,313.4 | 1,367.0 | 1,432.3 | 1,408.6 | 1,258.8 | -10.6 |
| Others | 148.3 | 146.9 | 147.6 | 156.6 | 148.5 | -5.1 |
| China | 1,147.1 | 1,265.9 | 1,328.5 | 1,476.1 | 1,356.7 | -8.1 |
| India | 1,401.7 | 1,411.4 | 1,344.3 | 1,359.8 | 1,216.2 | -10.6 |
| Other Asia | 4,210.9 | 4,269.1 | 3,920.5 | 3,489.1 | 3,431.1 | -1.7 |
| Brunei | 106.9 | 99.5 | 93.6 | 108.8 | 118.6 | 9.0 |
| Indonesia | 417.4 | 365.1 | 292.5 | 159.9 | 189.2 | 18.4 |
| Malaysia | 952.0 | 976.8 | 1,020.1 | 932.9 | 1,054.8 | 13.1 |
| Singapore | 2,009.7 | 2,103.4 | 1,792.5 | 1,636.5 | 1,453.8 | -11.2 |
| Vietnam | 177.3 | 161.0 | 120.1 | 114.7 | 141.1 | 23.1 |
| Others | 547.6 | 563.3 | 601.7 | 536.4 | 473.6 | -11.7 |
| Latin America | 4,878.0 | 4,803.3 | 4,526.1 | 4,177.1 | 3,826.8 | -8.4 |
| Brazil | 1,015.7 | 1,260.5 | 1,317.5 | 1,518.4 | 1,684.9 | 11.0 |
| Colombia | 710.4 | 720.6 | 668.4 | 697.1 | 609.9 | -12.5 |
| Ecuador | 431.6 | 422.1 | 409.3 | 436.8 | 395.6 | -9.4 |
| Trinidad & Tobago | 149.3 | 149.5 | 149.6 | 68.9 | 67.9 | -1.4 |
| Venezuela | 2,097.5 | 1,826.0 | 1,499.4 | 944.0 | 556.4 | -41.1 |
| Others | 473.6 | 424.6 | 481.9 | 511.9 | 512.1 | 0.0 |
| Middle East | 23,568.9 | 22,735.9 | 23,616.9 | 21,711.4 | 19,860.8 | -8.5 |
| Bahrain | 362.2 | 395.5 | 394.3 | 404.8 | 364.2 | -10.0 |
| IR Iran | 2,436.7 | 2,395.2 | 2,121.7 | 935.7 | 685.2 | -26.8 |
| Iraq | 3,840.3 | 3,822.1 | 3,907.7 | 4,074.9 | 3,579.4 | -12.2 |
| Kuwait | 2,835.6 | 2,650.0 | 2,680.4 | 2,623.4 | 2,353.3 | -10.3 |
| Oman | 912.5 | 828.4 | 833.2 | 874.8 | 886.9 | 1.4 |
| Qatar | 1,071.5 | 1,105.4 | 1,029.5 | 1,062.1 | 962.8 | -9.3 |
| Saudi Arabia | 8,965.9 | 8,406.5 | 9,342.7 | 8,338.4 | 7,675.3 | -8.0 |
| United Arab Emirates | 3,037.8 | 3,032.4 | 3,212.5 | 3,296.0 | 3,257.9 | -1.2 |
| Others | 106.2 | 100.4 | 94.9 | 101.3 | 95.9 | -5.4 |
| Africa | 6,819.5 | 7,071.0 | 7,280.5 | 7,312.5 | 6,292.1 | -14.0 |
| Algeria | 1,209.8 | 1,202.2 | 1,103.1 | 1,090.4 | 942.1 | -13.6 |
| Angola | 1,724.4 | 1,593.9 | 1,438.2 | 1,335.4 | 1,235.9 | -7.5 |
| Congo | 260.0 | 267.0 | 313.0 | 315.3 | 286.5 | -9.1 |
| Egypt | 200.9 | 183.0 | 188.3 | 216.1 | 268.3 | 24.2 |
| Equatorial Guinea | 157.6 | 124.8 | 121.0 | 110.2 | 114.5 | 3.9 |
| Gabon | 215.6 | 200.7 | 182.9 | 214.4 | 204.7 | -4.5 |
| Libya | 373.3 | 815.5 | 1,023.9 | 1,056.7 | 413.0 | -60.9 |
| Nigeria | 1,755.9 | 1,830.4 | 2,000.7 | 2,028.4 | 1,879.3 | -7.3 |
| Sudans | 128.6 | 107.5 | 124.0 | 147.4 | 144.4 | -2.0 |
| Others | 793.4 | 746.0 | 785.5 | 798.1 | 803.4 | 0.7 |
| Russia | 7,581.0 | 7,536.1 | 7,716.6 | 7,808.9 | 7,072.9 | -9.4 |
| Other Eurasia | 2,513.4 | 2,605.8 | 2,540.3 | 2,502.0 | 2,429.0 | -2.9 |
| Azerbaijan | 691.9 | 640.1 | 634.9 | 586.0 | 528.2 | -9.9 |
| Kazakhstan | 1,365.9 | 1,516.6 | 1,528.8 | 1,531.8 | 1,530.4 | -0.1 |
| Others | 455.6 | 449.2 | 376.6 | 384.1 | 370.5 | -3.6 |
| Other Europe | 228.6 | 221.0 | 220.9 | 225.6 | 177.8 | -21.2 |
| Romania | 97.1 | 89.8 | 95.6 | 96.0 | 79.8 | -16.9 |
| Others | 131.5 | 131.2 | 125.3 | 129.6 | 98.1 | -24.4 |
| Total world | 74,230.9 | 75,507.9 | 77,371.5 | 75,595.7 | 69,829.4 | -7.6 |
| <i>of which</i> | | | | | | |
| OPEC | 28,910.5 | 28,166.7 | 28,947.2 | 26,363.2 | 23,183.4 | -12.1 |
| <i>OPEC percentage</i> | 38.9 | 37.3 | 37.4 | 34.9 | 33.2 | |
| OECD | 21,881.9 | 23,588.5 | 24,876.9 | 25,533.2 | 24,165.9 | -5.4 |

Notes:

Data may include lease condensates, re-exports of petroleum products and volumes of oil in transit.

Oil trade

Table 5.6
World imports of crude oil by country

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| OECD Americas | 8,908.4 | 8,952.6 | 8,687.3 | 7,788.7 | 6,742.6 | -13.4 |
| Canada | 888.7 | 806.6 | 742.7 | 802.9 | 718.4 | -10.5 |
| Chile | 169.8 | 177.0 | 172.7 | 184.8 | 147.2 | -20.3 |
| United States | 7,850.0 | 7,969.0 | 7,768.0 | 6,801.0 | 5,877.0 | -13.6 |
| Others | 0.0 | 0.0 | 3.9 | 0.0 | 0.0 | 0.0 |
| OECD Europe | 11,229.5 | 11,739.5 | 11,443.3 | 11,545.0 | 10,006.4 | -13.3 |
| Belgium | 641.8 | 688.9 | 666.7 | 696.5 | 550.9 | -20.9 |
| France | 1,092.2 | 1,148.6 | 1,061.0 | 976.1 | 666.2 | -31.8 |
| Germany | 1,837.3 | 1,832.1 | 1,720.3 | 1,737.0 | 1,671.2 | -3.8 |
| Greece | 472.5 | 477.9 | 491.3 | 461.0 | 458.5 | -0.5 |
| Italy | 1,225.8 | 1,339.6 | 1,253.0 | 1,275.0 | 1,014.2 | -20.5 |
| Netherlands | 1,090.4 | 1,091.6 | 1,096.6 | 1,153.0 | 997.8 | -13.5 |
| Spain | 1,292.2 | 1,331.8 | 1,364.7 | 1,338.8 | 1,104.6 | -17.5 |
| Sweden | 396.5 | 401.1 | 402.2 | 344.4 | 374.9 | 8.9 |
| Turkey | 502.6 | 520.3 | 423.5 | 627.5 | 591.4 | -5.7 |
| United Kingdom | 797.6 | 893.7 | 891.8 | 910.4 | 708.7 | -22.2 |
| Others | 1,880.5 | 2,013.9 | 2,072.2 | 2,025.5 | 1,867.9 | -7.8 |
| OECD Asia Pacific | 6,730.3 | 6,958.3 | 6,783.9 | 6,628.0 | 5,698.2 | -14.0 |
| Australia | 332.6 | 334.7 | 360.8 | 328.5 | 237.9 | -27.6 |
| Japan | 3,157.8 | 3,235.2 | 3,055.9 | 3,022.7 | 2,472.4 | -18.2 |
| South Korea | 2,925.2 | 3,041.1 | 3,034.5 | 2,924.1 | 2,660.4 | -9.0 |
| Others | 314.6 | 347.2 | 332.8 | 352.7 | 327.5 | -7.1 |
| China | 7,625.4 | 8,425.7 | 9,260.2 | 10,180.5 | 10,852.6 | 6.6 |
| India | 4,308.3 | 4,341.4 | 4,543.6 | 4,506.6 | 4,033.0 | -10.5 |
| Other Asia | 3,578.0 | 3,686.6 | 3,713.4 | 3,523.7 | 3,139.3 | -10.9 |
| Indonesia | 366.1 | 343.8 | 335.8 | 215.6 | 233.0 | 8.1 |
| Malaysia | 198.0 | 208.9 | 210.3 | 283.8 | 247.5 | -12.8 |
| Philippines | 212.2 | 196.7 | 229.8 | 161.6 | 89.3 | -44.7 |
| Singapore | 896.9 | 981.7 | 918.7 | 847.6 | 752.9 | -11.2 |
| Thailand | 852.6 | 906.0 | 942.3 | 932.1 | 837.3 | -10.2 |
| Others | 1,052.3 | 1,049.6 | 1,076.4 | 1,083.0 | 979.3 | -9.6 |
| Latin America | 668.1 | 683.7 | 681.3 | 603.3 | 490.8 | -18.6 |
| Brazil | 134.3 | 149.8 | 185.6 | 188.9 | 134.3 | -28.9 |
| Ecuador | 6.0 | 15.3 | 19.8 | 19.9 | 18.7 | -6.4 |
| Trinidad & Tobago | 101.0 | 89.7 | 72.4 | 2.9 | 0.0 | -100.0 |
| Venezuela | 5.7 | 1.0 | 2.1 | 4.3 | 5.7 | 33.3 |
| Others | 421.1 | 427.9 | 401.4 | 387.3 | 332.1 | -14.3 |
| Middle East | 464.7 | 491.5 | 453.9 | 486.2 | 515.5 | 6.0 |
| Bahrain | 212.4 | 222.9 | 220.2 | 226.3 | 179.1 | -20.8 |
| United Arab Emirates | 52.4 | 68.0 | 41.7 | 52.8 | 163.3 | 209.6 |
| Others | 199.8 | 200.6 | 192.1 | 207.2 | 173.1 | -16.5 |
| Africa | 615.4 | 585.3 | 627.5 | 640.3 | 690.3 | 7.8 |
| Algeria | 4.9 | 4.8 | 5.5 | 3.5 | 0.0 | -100.0 |
| Egypt | 83.3 | 86.9 | 142.3 | 120.8 | 221.0 | 82.9 |
| South Africa | 431.9 | 402.8 | 436.5 | 409.2 | 371.5 | -9.2 |
| Others | 95.4 | 90.8 | 43.3 | 106.8 | 97.8 | -8.4 |
| Russia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other Eurasia | 403.5 | 416.5 | 416.4 | 409.5 | 370.8 | -9.4 |
| Belarus | 365.6 | 365.3 | 367.9 | 363.0 | 320.8 | -11.6 |
| Ukraine | 10.4 | 20.6 | 15.4 | 16.0 | 25.2 | 57.3 |
| Others | 27.5 | 30.6 | 33.0 | 30.5 | 24.9 | -18.4 |
| Other Europe | 390.5 | 419.9 | 424.9 | 433.2 | 360.4 | -16.8 |
| Bulgaria | 124.2 | 137.4 | 128.0 | 141.0 | 97.3 | -31.0 |
| Croatia | 50.8 | 57.2 | 59.2 | 44.9 | 47.5 | 5.8 |
| Romania | 153.2 | 159.1 | 169.9 | 177.8 | 154.3 | -13.3 |
| Others | 62.4 | 66.2 | 67.8 | 69.5 | 61.3 | -11.8 |
| Total world | 44,921.9 | 46,700.9 | 47,035.6 | 46,745.1 | 42,900.1 | -8.2 |
| <i>of which</i> | | | | | | |
| OECD | 26,868.2 | 27,650.4 | 26,914.4 | 25,961.7 | 22,447.2 | -13.5 |

Notes:

Data may include lease condensates and volumes of oil in transit.

Table 5.7

World imports of petroleum products by country

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| OECD Americas | 3,343.0 | 3,454.5 | 3,729.8 | 3,944.8 | 3,271.8 | -17.1 |
| Canada | 248.3 | 274.3 | 304.9 | 312.8 | 196.1 | -37.3 |
| Mexico | 735.5 | 846.0 | 1,089.6 | 1,138.2 | 932.9 | -18.0 |
| United States | 2,205.0 | 2,175.0 | 2,174.0 | 2,340.0 | 1,981.0 | -15.3 |
| Others | 154.2 | 159.2 | 161.3 | 153.8 | 161.8 | 5.2 |
| OECD Europe | 7,948.0 | 8,083.9 | 8,101.2 | 7,889.3 | 6,937.4 | -12.1 |
| Belgium | 550.8 | 575.5 | 621.3 | 564.1 | 529.6 | -6.1 |
| France | 822.9 | 860.8 | 896.1 | 938.7 | 926.4 | -1.3 |
| Germany | 824.2 | 880.4 | 866.5 | 907.5 | 746.0 | -17.8 |
| Italy | 323.8 | 346.5 | 362.9 | 322.1 | 269.8 | -16.2 |
| Netherlands | 1,925.9 | 1,925.9 | 1,864.5 | 1,797.5 | 1,556.0 | -13.4 |
| Spain | 363.0 | 399.7 | 361.9 | 364.7 | 308.2 | -15.5 |
| Turkey | 520.8 | 556.4 | 573.3 | 443.6 | 382.3 | -13.8 |
| United Kingdom | 737.2 | 700.0 | 754.0 | 703.7 | 533.8 | -24.1 |
| Others | 1,879.5 | 1,838.7 | 1,800.7 | 1,847.4 | 1,685.2 | -8.8 |
| OECD Asia Pacific | 2,435.9 | 2,522.3 | 2,676.9 | 2,631.5 | 2,582.3 | -1.9 |
| Australia | 550.5 | 606.1 | 625.3 | 633.9 | 589.7 | -7.0 |
| Japan | 868.9 | 923.5 | 976.0 | 896.3 | 918.7 | 2.5 |
| South Korea | 919.5 | 890.6 | 957.9 | 994.7 | 962.6 | -3.2 |
| Others | 97.1 | 102.2 | 117.8 | 106.6 | 111.3 | 4.4 |
| China | 1,220.3 | 1,368.5 | 1,397.5 | 1,389.4 | 1,318.4 | -5.1 |
| India | 814.1 | 843.5 | 776.5 | 968.6 | 1,050.7 | 8.5 |
| Other Asia | 5,619.8 | 6,066.5 | 5,797.9 | 5,976.9 | 5,268.7 | -11.8 |
| Indonesia | 498.6 | 575.8 | 641.6 | 945.4 | 503.0 | -46.8 |
| Malaysia | 647.8 | 760.1 | 751.6 | 679.3 | 795.3 | 17.1 |
| Singapore | 2,472.6 | 2,621.3 | 2,334.9 | 2,243.8 | 2,088.3 | -6.9 |
| Others | 2,000.8 | 2,109.4 | 2,069.9 | 2,108.4 | 1,882.2 | -10.7 |
| Latin America | 1,875.4 | 2,009.7 | 2,072.5 | 2,042.2 | 1,594.4 | -21.9 |
| Brazil | 550.5 | 697.8 | 640.2 | 725.3 | 606.1 | -16.4 |
| Ecuador | 122.6 | 134.2 | 193.8 | 187.5 | 164.5 | -12.3 |
| Panama | 66.1 | 64.4 | 61.5 | 65.2 | 41.8 | -35.9 |
| Venezuela | 160.2 | 164.9 | 245.3 | 167.1 | 68.5 | -59.0 |
| Others | 976.0 | 948.5 | 931.8 | 897.1 | 713.5 | -20.5 |
| Middle East | 1,848.5 | 1,929.5 | 2,253.8 | 1,549.6 | 1,244.1 | -19.7 |
| IR Iran | 61.6 | 96.0 | 101.0 | 97.5 | 91.6 | -6.1 |
| Iraq | 91.7 | 115.6 | 89.4 | 95.8 | 76.7 | -20.0 |
| Kuwait | 0.0 | 0.5 | 30.2 | 14.0 | 14.8 | 5.6 |
| Qatar | 20.6 | 20.5 | 21.5 | 22.5 | 20.8 | -7.3 |
| Saudi Arabia | 591.1 | 486.8 | 898.4 | 319.4 | 353.1 | 10.5 |
| United Arab Emirates | 340.2 | 344.4 | 350.6 | 265.9 | 120.2 | -54.8 |
| Others | 743.3 | 865.6 | 762.7 | 734.5 | 567.0 | -22.8 |
| Africa | 1,907.6 | 1,893.7 | 1,900.8 | 1,918.4 | 1,769.3 | -7.8 |
| Algeria | 73.3 | 74.5 | 17.2 | 43.0 | 35.5 | -17.5 |
| Angola | 75.8 | 70.6 | 99.5 | 64.9 | 134.3 | 106.8 |
| Congo | 1.4 | 1.6 | 1.7 | 0.4 | 0.2 | -53.2 |
| Egypt | 351.3 | 318.2 | 278.3 | 263.8 | 148.8 | -43.6 |
| Equatorial Guinea | 6.4 | 6.5 | 3.9 | 4.7 | 4.2 | -11.2 |
| Gabon | 6.1 | 6.2 | 7.7 | 7.9 | 6.9 | -12.9 |
| Libya | 107.9 | 130.9 | 136.8 | 144.1 | 147.4 | 2.3 |
| Morocco | 256.8 | 271.6 | 266.9 | 269.7 | 240.1 | -11.0 |
| Nigeria | 423.4 | 391.7 | 442.0 | 459.6 | 465.9 | 1.4 |
| Tunisia | 74.6 | 82.5 | 84.7 | 88.8 | 71.3 | -19.7 |
| Others | 530.7 | 539.7 | 562.0 | 571.5 | 514.8 | -9.9 |
| Russia | 24.3 | 25.7 | 29.2 | 23.5 | 25.8 | 10.0 |
| Other Eurasia | 384.6 | 390.4 | 371.6 | 362.0 | 363.0 | 0.3 |
| Ukraine | 196.2 | 201.2 | 213.1 | 222.0 | 220.7 | -0.6 |
| Others | 188.4 | 189.3 | 158.5 | 140.0 | 142.3 | 1.6 |
| Other Europe | 407.9 | 434.2 | 426.4 | 456.7 | 444.0 | -2.8 |
| Bulgaria | 39.0 | 43.3 | 35.8 | 37.8 | 38.6 | 2.2 |
| Croatia | 27.9 | 32.4 | 31.6 | 48.5 | 35.8 | -26.3 |
| Romania | 61.4 | 67.1 | 67.1 | 67.2 | 80.9 | 20.5 |
| Others | 279.6 | 291.4 | 292.0 | 303.3 | 288.7 | -4.8 |
| Total world | 27,829.5 | 29,022.5 | 29,534.1 | 29,153.0 | 25,869.8 | -11.3 |
| <i>of which</i> | | | | | | |
| OPEC | 1,939.2 | 1,890.0 | 2,423.7 | 1,684.4 | 1,519.2 | -9.8 |
| <i>OPEC percentage</i> | 7.0 | 6.5 | 8.2 | 5.8 | 5.9 | |
| OECD | 13,727.0 | 14,060.7 | 14,507.9 | 14,465.6 | 12,791.4 | -11.6 |

Notes:

Data may include re-exports and volumes of oil in transit.

Table 5.8

World imports of petroleum products by main petroleum product and region

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|--------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| OECD Americas | 3,343.0 | 3,454.5 | 3,729.8 | 3,944.8 | 3,271.8 | -17.1 |
| Gasoline | 1,586.6 | 1,609.2 | 1,675.6 | 1,825.5 | 1,362.1 | -25.4 |
| Kerosene | 304.6 | 320.7 | 311.4 | 370.2 | 251.7 | -32.0 |
| Distillates | 596.8 | 637.6 | 738.1 | 717.1 | 659.1 | -8.1 |
| Residuals | 311.5 | 295.3 | 326.5 | 272.3 | 265.1 | -2.6 |
| Others | 543.6 | 591.7 | 678.1 | 759.6 | 733.8 | -3.4 |
| OECD Europe | 7,948.0 | 8,083.9 | 8,101.2 | 7,889.3 | 6,937.4 | -12.1 |
| Gasoline | 690.9 | 693.1 | 608.8 | 630.1 | 557.8 | -11.5 |
| Kerosene | 807.0 | 834.7 | 894.1 | 911.2 | 589.3 | -35.3 |
| Distillates | 3,083.6 | 3,081.4 | 2,957.9 | 2,929.6 | 2,717.1 | -7.3 |
| Residuals | 1,101.7 | 827.5 | 776.6 | 721.5 | 776.6 | 7.6 |
| Others | 2,264.9 | 2,647.2 | 2,863.9 | 2,697.0 | 2,296.5 | -14.8 |
| OECD Asia Pacific | 2,435.9 | 2,522.3 | 2,676.9 | 2,631.5 | 2,582.3 | -1.9 |
| Gasoline | 159.2 | 163.4 | 178.3 | 186.5 | 198.5 | 6.5 |
| Kerosene | 125.8 | 156.3 | 183.3 | 159.2 | 106.1 | -33.4 |
| Distillates | 332.5 | 355.6 | 389.5 | 398.6 | 422.7 | 6.1 |
| Residuals | 154.1 | 142.4 | 159.8 | 101.9 | 84.8 | -16.8 |
| Others | 1,664.3 | 1,704.7 | 1,766.0 | 1,785.3 | 1,770.1 | -0.9 |
| China | 1,220.3 | 1,368.5 | 1,397.5 | 1,389.4 | 1,318.4 | -5.1 |
| Gasoline | 4.9 | 0.4 | 10.3 | 7.7 | 11.1 | 44.6 |
| Kerosene | 74.2 | 78.9 | 86.4 | 76.2 | 54.3 | -28.7 |
| Distillates | 18.1 | 14.8 | 14.2 | 23.7 | 24.4 | 2.9 |
| Residuals | 212.5 | 246.3 | 297.9 | 269.5 | 230.5 | -14.5 |
| Others | 910.7 | 1,028.2 | 988.6 | 1,012.3 | 998.0 | -1.4 |
| India | 814.1 | 843.5 | 776.5 | 968.6 | 1,050.7 | 8.5 |
| Gasoline | 12.7 | 4.0 | 8.2 | 49.5 | 31.1 | -37.2 |
| Kerosene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Distillates | 19.1 | 28.3 | 6.3 | 39.5 | 32.7 | -17.2 |
| Residuals | 21.0 | 17.5 | 30.4 | 47.5 | 116.6 | 145.4 |
| Others | 761.2 | 793.7 | 731.6 | 832.1 | 870.3 | 4.6 |
| Other Asia | 5,619.8 | 6,066.5 | 5,797.9 | 5,976.9 | 5,268.7 | -11.8 |
| Gasoline | 904.6 | 1,164.7 | 1,076.9 | 1,282.4 | 1,075.3 | -16.1 |
| Kerosene | 231.7 | 266.0 | 249.8 | 267.9 | 174.4 | -34.9 |
| Distillates | 937.4 | 920.5 | 957.0 | 1,106.6 | 918.7 | -17.0 |
| Residuals | 2,026.4 | 2,154.9 | 1,891.2 | 1,574.7 | 1,430.0 | -9.2 |
| Others | 1,519.7 | 1,560.4 | 1,623.0 | 1,745.3 | 1,670.3 | -4.3 |
| Latin America | 1,875.4 | 2,009.7 | 2,072.5 | 2,042.2 | 1,594.4 | -21.9 |
| Gasoline | 577.4 | 631.6 | 639.3 | 643.9 | 511.2 | -20.6 |
| Kerosene | 34.2 | 19.4 | 42.6 | 92.7 | 35.6 | -61.6 |
| Distillates | 571.7 | 684.4 | 677.6 | 687.5 | 555.9 | -19.1 |
| Residuals | 135.8 | 110.2 | 127.0 | 107.6 | 56.9 | -47.1 |
| Others | 556.3 | 564.1 | 586.0 | 510.5 | 434.8 | -14.8 |
| Middle East | 1,848.5 | 1,929.5 | 2,253.8 | 1,549.6 | 1,244.1 | -19.7 |
| Gasoline | 788.4 | 965.1 | 989.8 | 764.1 | 570.7 | -25.3 |
| Kerosene | 82.2 | 19.8 | 132.9 | 11.6 | 15.2 | 30.7 |
| Distillates | 631.5 | 364.7 | 460.9 | 158.2 | 87.2 | -44.9 |
| Residuals | 338.1 | 561.3 | 624.7 | 602.4 | 552.6 | -8.3 |
| Others | 8.3 | 18.6 | 45.4 | 13.3 | 18.4 | 38.1 |

Table 5.8

World imports of petroleum products by main petroleum product and region

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| Africa | 1,907.6 | 1,893.7 | 1,900.8 | 1,918.4 | 1,769.3 | -7.8 |
| Gasoline | 758.5 | 804.5 | 1,055.2 | 899.1 | 916.5 | 1.9 |
| Kerosene | 45.2 | 33.4 | 49.9 | 79.7 | 36.4 | -54.3 |
| Distillates | 649.8 | 700.9 | 532.5 | 648.2 | 504.8 | -22.1 |
| Residuals | 166.4 | 74.0 | 29.3 | 37.3 | 24.1 | -35.3 |
| Others | 287.8 | 280.9 | 233.9 | 254.1 | 287.4 | 13.1 |
| Russia | 24.3 | 25.7 | 29.2 | 23.5 | 25.8 | 10.0 |
| Gasoline | 4.0 | 0.7 | 0.9 | 0.3 | 0.9 | 232.4 |
| Kerosene | 0.3 | 1.4 | 0.4 | 0.2 | 0.0 | -100.0 |
| Distillates | 1.7 | 2.9 | 1.5 | 1.0 | 0.7 | -27.3 |
| Residuals | 0.0 | 0.2 | 0.0 | 0.5 | 0.5 | 3.3 |
| Others | 18.4 | 20.5 | 26.4 | 21.5 | 23.7 | 10.0 |
| Other Eurasia | 384.6 | 390.4 | 371.6 | 362.0 | 363.0 | 0.3 |
| Gasoline | 100.0 | 86.2 | 64.6 | 53.1 | 50.8 | -4.3 |
| Kerosene | 6.1 | 9.4 | 11.7 | 6.9 | 3.7 | -46.0 |
| Distillates | 170.2 | 172.4 | 164.7 | 173.8 | 180.3 | 3.8 |
| Residuals | 18.0 | 14.2 | 6.0 | 6.4 | 2.5 | -61.4 |
| Others | 90.3 | 108.2 | 124.7 | 121.8 | 125.7 | 3.1 |
| Other Europe | 407.9 | 434.2 | 426.4 | 456.7 | 444.0 | -2.8 |
| Gasoline | 41.9 | 41.7 | 37.0 | 38.5 | 37.3 | -3.0 |
| Kerosene | 18.8 | 22.1 | 24.8 | 20.6 | 9.1 | -55.5 |
| Distillates | 183.0 | 211.2 | 199.1 | 222.2 | 217.6 | -2.0 |
| Residuals | 89.6 | 90.3 | 95.9 | 98.1 | 93.6 | -4.5 |
| Others | 74.8 | 68.9 | 69.6 | 77.4 | 86.2 | 11.4 |
| Total world | 27,829.5 | 29,022.5 | 29,534.1 | 29,153.0 | 25,869.8 | -11.3 |
| Gasoline | 5,629.1 | 6,164.6 | 6,344.9 | 6,380.7 | 5,323.4 | -16.6 |
| Kerosene | 1,730.1 | 1,762.0 | 1,987.3 | 1,996.4 | 1,275.9 | -36.1 |
| Distillates | 7,195.3 | 7,174.6 | 7,099.3 | 7,106.0 | 6,321.3 | -11.0 |
| Residuals | 4,575.0 | 4,534.1 | 4,365.4 | 3,839.7 | 3,634.0 | -5.4 |
| Others | 8,700.0 | 9,387.1 | 9,737.2 | 9,830.3 | 9,315.3 | -5.2 |
| <i>of which</i> | | | | | | |
| OPEC | 1,939.2 | 1,890.0 | 2,423.7 | 1,684.4 | 1,519.2 | -9.8 |
| Gasoline | 865.5 | 1,012.6 | 1,305.0 | 947.5 | 816.7 | -13.8 |
| Kerosene | 66.2 | 16.7 | 101.1 | 46.9 | 27.7 | -41.0 |
| Distillates | 566.0 | 392.1 | 475.1 | 335.2 | 285.2 | -14.9 |
| Residuals | 216.6 | 311.5 | 359.8 | 286.1 | 340.0 | 18.8 |
| Others | 224.8 | 157.0 | 182.7 | 68.7 | 49.7 | -27.7 |
| OECD | 13,727.0 | 14,060.7 | 14,507.9 | 14,465.6 | 12,791.4 | -11.6 |
| Gasoline | 2,436.7 | 2,465.6 | 2,462.7 | 2,642.1 | 2,118.4 | -19.8 |
| Kerosene | 1,237.4 | 1,311.6 | 1,388.8 | 1,440.6 | 947.1 | -34.3 |
| Distillates | 4,012.9 | 4,074.6 | 4,085.5 | 4,045.3 | 3,798.9 | -6.1 |
| Residuals | 1,567.3 | 1,265.1 | 1,263.0 | 1,095.7 | 1,126.5 | 2.8 |
| Others | 4,472.7 | 4,943.7 | 5,308.0 | 5,241.9 | 4,800.4 | -8.4 |

Notes:

Data may include re-exports and volumes of oil in transit.

Table 5.9
World imports of crude oil and petroleum products by country

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| OECD Americas | 12,251.5 | 12,407.1 | 12,417.1 | 11,733.5 | 10,014.4 | -14.7 |
| Canada | 1,137.0 | 1,080.9 | 1,047.6 | 1,115.7 | 914.5 | -18.0 |
| Mexico | 735.5 | 846.0 | 1,093.5 | 1,138.2 | 932.9 | -18.0 |
| United States | 10,055.0 | 10,144.0 | 9,942.0 | 9,141.0 | 7,858.0 | -14.0 |
| Others | 324.0 | 336.2 | 334.0 | 338.6 | 309.0 | -8.7 |
| OECD Europe | 19,177.5 | 19,823.3 | 19,544.5 | 19,434.3 | 16,943.7 | -12.8 |
| Belgium | 1,192.6 | 1,264.3 | 1,288.0 | 1,260.6 | 1,080.5 | -14.3 |
| France | 1,915.0 | 2,009.4 | 1,957.1 | 1,914.8 | 1,592.5 | -16.8 |
| Germany | 2,661.5 | 2,712.5 | 2,586.8 | 2,644.5 | 2,417.2 | -8.6 |
| Greece | 555.3 | 559.5 | 562.8 | 559.2 | 537.4 | -3.9 |
| Italy | 1,549.6 | 1,686.2 | 1,615.9 | 1,597.1 | 1,284.1 | -19.6 |
| Netherlands | 3,016.3 | 3,017.5 | 2,961.1 | 2,950.5 | 2,553.8 | -13.4 |
| Spain | 1,655.2 | 1,731.5 | 1,726.6 | 1,703.5 | 1,412.8 | -17.1 |
| Sweden | 631.2 | 617.8 | 608.3 | 532.6 | 548.5 | 3.0 |
| Turkey | 1,023.3 | 1,076.7 | 996.7 | 1,071.0 | 973.8 | -9.1 |
| United Kingdom | 1,534.8 | 1,593.6 | 1,645.8 | 1,614.0 | 1,242.5 | -23.0 |
| Others | 3,442.5 | 3,554.4 | 3,595.4 | 3,586.4 | 3,300.6 | -8.0 |
| OECD Asia Pacific | 9,166.2 | 9,480.6 | 9,460.8 | 9,259.5 | 8,280.5 | -10.6 |
| Australia | 883.0 | 940.7 | 986.0 | 962.4 | 827.6 | -14.0 |
| Japan | 4,026.7 | 4,158.7 | 4,031.9 | 3,919.0 | 3,391.0 | -13.5 |
| South Korea | 3,844.8 | 3,931.7 | 3,992.3 | 3,918.8 | 3,623.0 | -7.5 |
| Others | 411.7 | 449.5 | 450.5 | 459.3 | 438.8 | -4.5 |
| China | 8,845.7 | 9,794.2 | 10,657.6 | 11,569.8 | 12,171.0 | 5.2 |
| India | 5,122.3 | 5,184.9 | 5,320.1 | 5,475.2 | 5,083.8 | -7.1 |
| Other Asia | 9,197.8 | 9,753.1 | 9,511.4 | 9,500.6 | 8,408.1 | -11.5 |
| Indonesia | 864.7 | 919.6 | 977.4 | 1,161.0 | 736.0 | -36.6 |
| Malaysia | 845.8 | 969.0 | 961.9 | 963.2 | 1,042.8 | 8.3 |
| Philippines | 450.5 | 483.4 | 483.2 | 472.6 | 313.1 | -33.7 |
| Singapore | 3,369.5 | 3,602.9 | 3,253.6 | 3,091.4 | 2,841.3 | -8.1 |
| Thailand | 1,019.8 | 1,080.8 | 1,118.2 | 1,148.3 | 1,040.7 | -9.4 |
| Others | 2,647.4 | 2,697.4 | 2,717.1 | 2,664.2 | 2,434.3 | -8.6 |
| Latin America | 2,543.5 | 2,693.4 | 2,753.8 | 2,645.6 | 2,085.2 | -21.2 |
| Brazil | 684.8 | 847.6 | 825.8 | 914.3 | 740.4 | -19.0 |
| Ecuador | 128.6 | 149.5 | 213.6 | 207.4 | 183.2 | -11.7 |
| Venezuela | 165.9 | 165.9 | 247.4 | 171.4 | 74.2 | -56.7 |
| Others | 1,564.3 | 1,530.4 | 1,467.0 | 1,352.5 | 1,087.4 | -19.6 |

Table 5.9

World imports of crude oil and petroleum products by country

(1,000 b/d)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| Middle East | 2,313.2 | 2,420.9 | 2,707.7 | 2,035.8 | 1,759.6 | -13.6 |
| Bahrain | 225.1 | 236.5 | 234.9 | 241.5 | 192.0 | -20.5 |
| IR Iran | 61.6 | 96.0 | 101.0 | 97.5 | 91.6 | -6.1 |
| Iraq | 91.7 | 115.6 | 89.4 | 95.8 | 76.7 | -20.0 |
| Kuwait | 0.0 | 0.5 | 30.2 | 14.0 | 14.8 | 5.6 |
| Qatar | 20.6 | 20.5 | 21.5 | 22.5 | 20.8 | -7.3 |
| Saudi Arabia | 591.1 | 486.8 | 898.4 | 319.4 | 353.1 | 10.5 |
| United Arab Emirates | 392.7 | 412.4 | 392.3 | 318.7 | 283.5 | -11.0 |
| Others | 930.4 | 1,052.6 | 940.0 | 926.4 | 727.1 | -21.5 |
| Africa | 2,523.0 | 2,479.0 | 2,528.4 | 2,558.7 | 2,459.6 | -3.9 |
| Algeria | 78.2 | 79.3 | 22.7 | 46.5 | 35.5 | -23.7 |
| Angola | 75.8 | 70.6 | 99.5 | 64.9 | 134.3 | 106.8 |
| Congo | 1.4 | 1.6 | 1.7 | 0.4 | 0.2 | -53.2 |
| Egypt | 434.5 | 405.1 | 420.6 | 384.7 | 369.8 | -3.9 |
| Equatorial Guinea | 6.4 | 6.5 | 3.9 | 4.7 | 4.2 | -11.2 |
| Gabon | 6.1 | 6.2 | 7.7 | 7.9 | 6.9 | -12.9 |
| Libya | 107.9 | 130.9 | 136.8 | 144.1 | 147.4 | 2.3 |
| Morocco | 256.8 | 271.6 | 266.9 | 269.7 | 240.1 | -11.0 |
| Nigeria | 423.4 | 391.7 | 442.0 | 459.6 | 465.9 | 1.4 |
| South Africa | 512.2 | 489.8 | 513.8 | 476.4 | 429.7 | -9.8 |
| Tunisia | 93.0 | 95.9 | 95.3 | 104.3 | 85.5 | -18.0 |
| Others | 527.3 | 530.1 | 517.4 | 595.6 | 540.1 | -9.3 |
| Russia | 24.3 | 25.7 | 29.2 | 23.5 | 25.8 | 10.0 |
| Other Eurasia | 788.1 | 806.9 | 788.0 | 771.6 | 733.8 | -4.9 |
| Belarus | 388.3 | 394.2 | 380.0 | 367.2 | 321.9 | -12.3 |
| Ukraine | 206.6 | 221.8 | 228.5 | 238.0 | 245.8 | 3.3 |
| Others | 193.2 | 191.0 | 179.4 | 166.4 | 166.1 | -0.2 |
| Other Europe | 798.4 | 854.1 | 851.3 | 889.9 | 804.4 | -9.6 |
| Bulgaria | 163.2 | 180.8 | 163.8 | 178.8 | 135.9 | -24.0 |
| Croatia | 78.7 | 89.6 | 90.8 | 93.4 | 83.3 | -10.9 |
| Romania | 214.6 | 226.2 | 237.0 | 245.0 | 235.2 | -4.0 |
| Others | 342.0 | 357.6 | 359.8 | 372.8 | 350.0 | -6.1 |
| Total world | 72,751.5 | 75,723.3 | 76,569.8 | 75,898.1 | 68,769.9 | -9.4 |
| <i>of which</i> | | | | | | |
| OPEC | 2,002.2 | 1,963.8 | 2,473.0 | 1,744.9 | 1,688.3 | -3.2 |
| OECD | 40,595.1 | 41,711.1 | 41,422.4 | 40,427.3 | 35,238.6 | -12.8 |

Notes:

Data may include lease condensates, re-exports of petroleum products and volumes of oil in transit.

Oil trade

(1,000 b/d)



SECTION 6

Oil transportation

Oil transportation

Table 6.1
Average spot freight rates by vessel category

(% of Worldscale)

| Tanker size (1,000 dwt) | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------------------------|-------------|-------|-------|-------|-------|
| GP | 16.5-24.9 | 105.3 | 141.5 | 134.6 | 134.0 |
| MR | 25.0-44.9 | 135.4 | 163.7 | 149.3 | 164.1 |
| LR1 | 45.0-79.9 | 97.6 | 109.7 | 113.6 | 118.3 |
| LR2 | 80.0-159.9 | 66.9 | 69.3 | 64.7 | 72.2 |
| VLCC | 160.0-319.9 | 52.9 | 44.9 | 40.7 | 49.6 |

Notes:

Average spot freight rates are the average of all spot freight rates by tanker size reported each month in the spot market.

GP = general purpose carrier; MR = medium range carrier; LR1 = large range 1 carrier; LR2 = large range 2 carrier; VLCC = very large crude carrier.

Graph 6.1
Average spot freight rates by vessel category

(% of Worldscale)

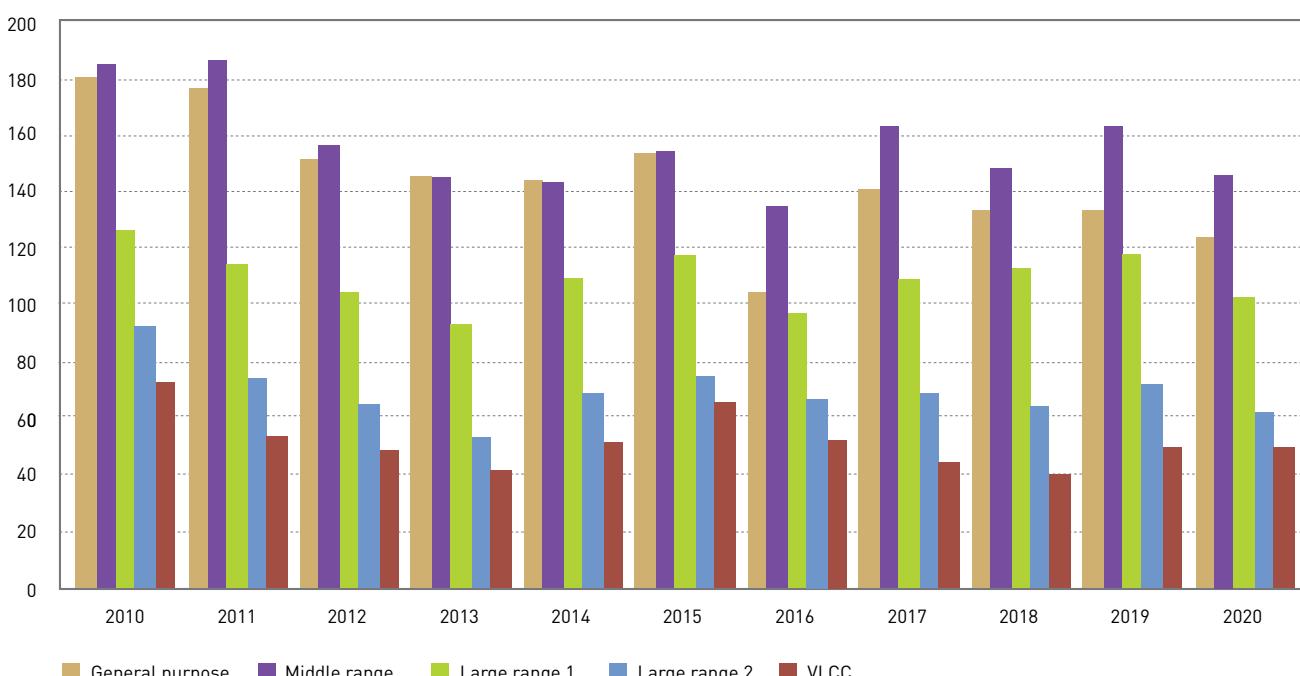


Table 6.2
Dirty tanker spot freight rates

(% of Worldscale and \$/t)

| | 2016 % | 2016 \$/t | 2017 % | 2017 \$/t | 2018 % | 2018 \$/t | 2019 % | 2019 \$/t | 2020 % | 2020 \$/t |
|-----------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|
| ME/EAST | 60 | 10.8 | 59 | 8.2 | 57 | 9.4 | 66 | 13.0 | 60 | 14.1 |
| ME/WEST | 37 | 7.6 | 30 | 4.8 | 25 | 4.7 | 35 | 7.8 | 40 | 11.6 |
| WAF/EAST | 62 | 17.7 | 62 | 13.5 | 57 | 14.9 | 66 | 20.5 | 60 | 22.2 |
| WAF/USGC | 70 | 12.6 | 75 | 10.3 | 72 | 11.6 | 81 | 15.4 | 67 | 14.9 |
| WEST/USGC | 64 | 11.6 | 63 | 9.2 | 61 | 9.8 | 67 | 12.5 | 58 | 11.7 |
| INDO/EAST | 99 | 11.4 | 103 | 9.6 | 102 | 11.0 | 114 | 14.1 | 91 | 13.2 |
| CAR/USEC | 107 | 8.6 | 121 | 7.8 | 133 | 9.7 | 128 | 11.2 | 115 | 11.5 |
| MED/MED | 97 | 6.1 | 106 | 5.7 | 115 | 6.8 | 116 | 7.9 | 88 | 6.5 |
| MED/WEST | 91 | 9.8 | 101 | 8.6 | 107 | 10.5 | 108 | 12.4 | 81 | 10.4 |

Notes:

ME = Middle East; EAST = Far East; WEST = North-West Europe; WAF = West Africa; USGC = US Gulf Coast; INDO = Indonesia; CAR = Caribbean; USEC = US East Coast; MED = Mediterranean.

Table 6.3
Clean tanker spot freight rates

(% of Worldscale and \$/t)

| | 2016 % | 2016 \$/t | 2017 % | 2017 \$/t | 2018 % | 2018 \$/t | 2019 % | 2019 \$/t | 2020 % | 2020 \$/t |
|-----------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|
| ME/EAST | 100 | 19.5 | 120 | 18.2 | 118 | 21.1 | 124 | 26.2 | 122 | 30.0 |
| SING/EAST | 124 | 12.2 | 161 | 12.6 | 137 | 12.5 | 151 | 16.0 | 137 | 16.8 |
| WEST/USEC | 105 | 14.5 | 141 | 15.4 | 134 | 16.5 | 134 | 19.3 | 125 | 18.9 |
| MED/MED | 136 | 7.9 | 160 | 8.0 | 151 | 8.4 | 166 | 10.4 | 147 | 10.2 |
| MED/WEST | 146 | 15.5 | 170 | 14.7 | 160 | 15.9 | 175 | 20.2 | 156 | 20.0 |

Notes:

ME = Middle East; EAST = Far East; SING = Singapore; WEST = North-West Europe; USEC = US East Coast, MED = Mediterranean.

Follow the OPEC Secretariat on Social Media



Facebook

facebook.com/OPECSecretariat



Twitter

twitter.com/opecsecretariat

2010 2011 2012 2013 2014 2015



SECTION 7

Oil prices

Oil prices

Table 7.1
OPEC Reference Basket (ORB) and corresponding components' spot prices

(\$/b)

| | Representative crude stream | 2016 | 2017 | 2018 | 2019 | 2020 |
|----------------------|---|--------------|--------------|--------------|--------------|--------------|
| Algeria | Saharan Blend | 44.28 | 54.12 | 71.44 | 64.49 | 42.12 |
| Angola | Girassol | 43.61 | 54.47 | 71.72 | 66.11 | 42.64 |
| Congo | Djeno | 41.98 | 52.77 | 68.59 | 61.80 | 35.77 |
| Equatorial Guinea | Zafiro | 42.43 | 54.04 | 71.36 | 65.74 | 41.54 |
| Gabon | Rabi Light | 42.62 | 53.16 | 70.30 | 63.18 | 40.22 |
| IR Iran | Iran Heavy | 39.57 | 51.71 | 67.97 | 61.85 | 40.77 |
| Iraq | Basrah Light | 39.53 | 51.87 | 68.62 | 63.64 | 41.55 |
| Kuwait | Kuwait Export | 39.30 | 51.60 | 68.90 | 64.25 | 41.49 |
| Libya | Es Sider | 42.69 | 52.82 | 69.78 | 63.81 | 40.06 |
| Nigeria | Bonny Light | 44.02 | 54.55 | 72.11 | 65.63 | 41.53 |
| Saudi Arabia | Arab Light | 40.96 | 52.59 | 70.59 | 64.96 | 41.91 |
| United Arab Emirates | Murban | 44.83 | 54.82 | 72.20 | 64.72 | 42.98 |
| Venezuela | Merey | 34.02 | 47.63 | 64.47 | 54.04 | 28.12 |
| OPEC | ORB | 40.76 | 52.43 | 69.78 | 64.04 | 41.47 |
| ORB | Volatility ¹ | 7.28 | 5.00 | 6.59 | 4.11 | 12.55 |
| ORB | Coefficient of variation ² , % | 17.85 | 9.54 | 9.44 | 6.43 | 30.26 |

Notes:

1. Standard deviation of daily prices.
2. Ratio of volatility to annual average price.

Graph 7.1
OPEC Reference Basket

(\$/b)

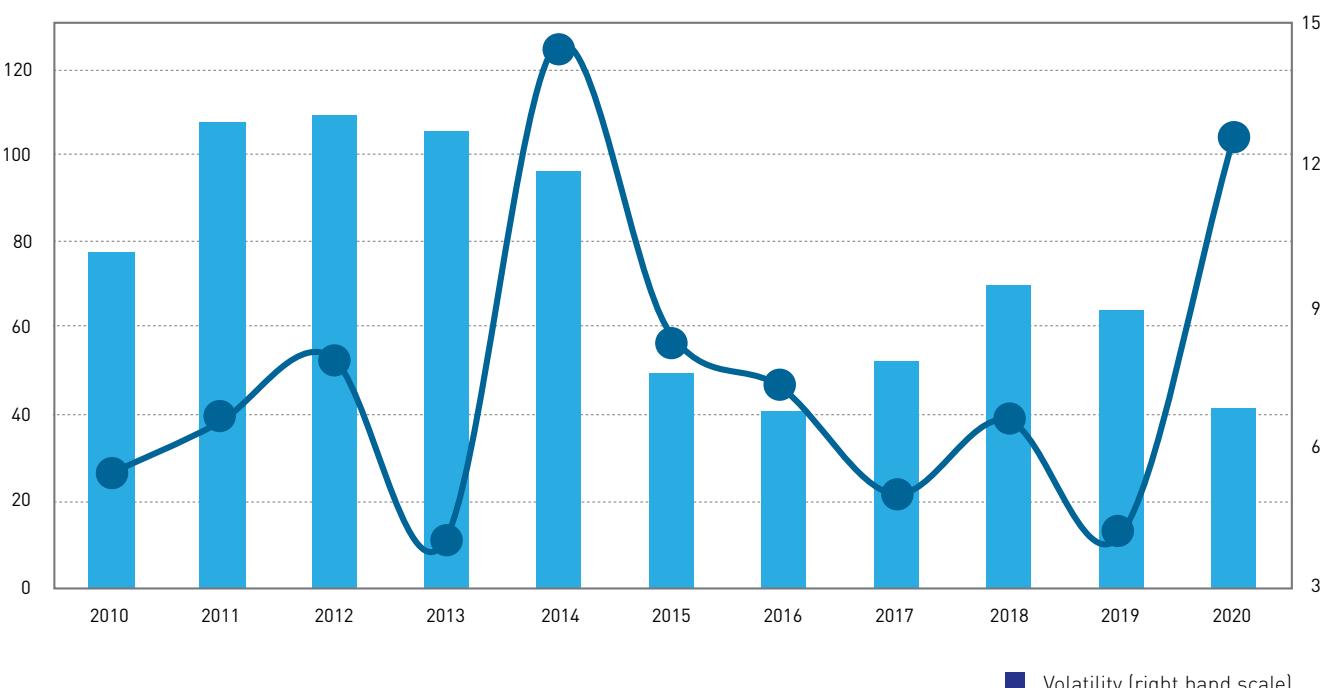


Table 7.2
Selected spot crude oil prices

(\$/b)

| | Crude stream | 2016 | 2017 | 2018 | 2019 | 2020 |
|-----------------------------|---------------|-------|-------|-------|-------|-------|
| Algeria | Zarzaitine | 44.02 | 54.08 | 71.35 | 64.42 | 41.72 |
| Angola | Cabinda | 42.83 | 54.30 | 71.15 | 65.34 | 42.29 |
| Egypt | Suez Mix | 40.41 | 51.56 | 68.47 | 62.61 | 40.23 |
| IR Iran | Iran Light | 41.66 | 52.36 | 69.10 | 62.74 | 40.36 |
| Indonesia | Minas | 41.11 | 48.99 | 65.44 | 60.25 | 41.08 |
| Libya | Brega | 43.73 | 53.62 | 70.65 | 63.76 | 40.12 |
| Malaysia | Miri | 46.39 | 56.93 | 75.90 | 69.30 | 47.15 |
| Malaysia | Tapis | 45.69 | 56.33 | 73.78 | 69.15 | 43.24 |
| Mexico | Isthmus | 42.37 | 54.60 | 68.74 | 63.00 | 36.61 |
| Mexico | Maya | 36.52 | 47.00 | 62.71 | 57.51 | 36.20 |
| Nigeria | Forcados | 43.70 | 54.58 | 72.56 | 66.19 | 41.56 |
| Norway | Ekofisk | 44.01 | 54.49 | 71.86 | 65.24 | 42.33 |
| Norway | Oseberg | 44.52 | 55.04 | 72.34 | 65.38 | 42.36 |
| Oman | Oman | 41.96 | 53.32 | 70.10 | 64.00 | 43.20 |
| Qatar | Dukhan | 43.69 | 54.12 | 71.22 | 63.65 | 42.44 |
| Russia | Urals | 42.16 | 53.27 | 70.13 | 64.38 | 41.83 |
| Saudi Arabia | Arab Heavy | 38.45 | 50.96 | 68.79 | 63.85 | 41.45 |
| United Kingdom | Brent | 43.76 | 54.17 | 71.22 | 64.19 | 41.67 |
| United Kingdom | Forties | 43.42 | 54.20 | 71.21 | 64.66 | 41.38 |
| United States | WTI | 43.27 | 50.82 | 65.16 | 57.02 | 39.43 |
| United Arab Emirates | Dubai | 41.39 | 53.08 | 69.68 | 63.48 | 42.31 |
| Spread | WTI — Brent | -0.49 | -3.35 | -6.06 | -7.17 | -2.24 |
| | WTI — Dubai | 1.88 | -2.26 | -4.52 | -6.46 | -2.88 |
| | Brent — Dubai | 2.37 | 1.09 | 1.54 | 0.71 | -0.64 |

Oil prices

Table 7.3

ICE Brent, NYMEX WTI and DME Oman annual average of the 1st, 6th and 12th forward months (\$/b)

| | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------------------|-------|-------|-------|-------|-------|
| ICE Brent | | | | | |
| 1 st forward month | 45.13 | 54.74 | 71.69 | 64.16 | 43.21 |
| 6 th forward month | 47.65 | 55.08 | 70.66 | 62.32 | 45.15 |
| 12 th forward month | 49.49 | 54.88 | 68.94 | 61.19 | 46.20 |
| NYMEX WTI | | | | | |
| 1 st forward month | 43.47 | 50.85 | 64.90 | 57.04 | 39.34 |
| 6 th forward month | 46.88 | 51.95 | 63.59 | 56.80 | 41.86 |
| 12 th forward month | 48.45 | 51.88 | 61.81 | 55.47 | 42.71 |
| DME Oman | | | | | |
| 1 st forward month | 41.99 | 53.24 | 69.88 | 63.99 | 43.03 |
| 6 th forward month | 43.89 | 53.47 | 68.25 | 60.93 | 44.52 |
| 12 th forward month | 45.81 | 53.30 | 66.51 | 59.68 | 45.54 |

Table 7.4

OPEC Reference Basket in nominal and real terms

(\$/b)

| | 2016 | 2017 | 2018 | 2019 | 2020 |
|------------------------------------|-------|-------|-------|-------|-------|
| Nominal oil price | 40.76 | 52.43 | 69.78 | 64.04 | 41.47 |
| Nominal price adjusted for: | | | | | |
| Exchange rates ¹ | 35.92 | 46.28 | 59.82 | 56.63 | 36.19 |
| Inflation ² | 32.29 | 40.89 | 53.45 | 48.41 | 31.17 |
| Combined ³ | 28.45 | 36.09 | 45.82 | 42.81 | 27.20 |

Notes:

Base: 2001 = 100.

1. Based on weighted average index of currency exchange rates in the modified Geneva I Agreement (see Geneva I Agreement definition under 'General Notes').

2. Based on weighted average consumer price indices of modified Geneva I countries and the US.

3. Based on combined indices of exchange rates and inflation.

Table 7.5

Annual average of premium factors for selected OPEC Reference Basket components

(\$/b)

| | | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------------|---------------|-------|-------|-------|-------|-------|
| Europe | | | | | | |
| Algeria | Saharan Blend | 0.52 | -0.05 | 0.23 | 0.31 | 0.43 |
| IR Iran | Iran Heavy | -6.38 | -5.13 | -6.27 | -6.80 | -5.78 |
| Iraq | Basrah Light | -4.74 | -3.41 | -4.18 | -3.03 | -2.65 |
| Libya | Es Sider | -1.08 | -1.35 | -1.43 | -0.38 | -1.71 |
| Nigeria | Bonny Light | 0.26 | 0.39 | 0.89 | 1.44 | -0.16 |
| Saudi Arabia | Arab Light | -4.64 | -3.20 | -2.47 | -1.29 | -3.21 |
| Asia | | | | | | |
| IR Iran | Iran Heavy | -2.01 | -1.11 | -0.73 | -0.14 | -1.19 |
| Iraq | Basrah Light | -1.94 | -0.64 | 0.02 | 1.26 | -0.16 |
| Kuwait | Kuwait Export | -2.31 | -1.32 | -0.46 | 0.91 | -1.10 |
| Saudi Arabia | Arab Light | -0.42 | -0.08 | 1.56 | 1.85 | -0.43 |
| US | | | | | | |
| Iraq | Basrah Light | -0.59 | -0.08 | -0.37 | 1.33 | 0.56 |
| Saudi Arabia | Arab Light | 0.29 | 0.75 | 0.98 | 3.00 | 1.17 |
| | Arab Medium | -1.17 | -0.53 | -0.57 | 1.35 | 0.07 |
| | Arab Heavy | -1.74 | -1.86 | -1.74 | 0.52 | -0.44 |

Notes:

Premium factors are related to corresponding benchmark crudes.

Oil prices

Table 7.6
Spot prices of petroleum products in major markets

(\$/b)

| | Specifications | 2016 | 2017 | 2018 | 2019 | 2020 |
|------------------|---------------------|-------|-------|-------|-------|-------|
| US Gulf | | | | | | |
| Gasoline | Regular unleaded 87 | 57.15 | 68.57 | 80.17 | 72.70 | 47.80 |
| Gasoil | 0.2% sulphur | 50.10 | 62.31 | 80.99 | 74.61 | 44.92 |
| Fuel oil | 3.0% sulphur | 32.13 | 47.05 | 60.17 | 52.55 | 34.72 |
| Singapore | | | | | | |
| Gasoline | Premium unleaded 97 | 57.81 | 69.51 | 81.30 | 74.15 | 47.61 |
| Gasoil | 0.05% sulphur | 52.05 | 65.69 | 84.05 | 77.22 | 48.36 |
| Fuel oil | 380 centistokes | 34.92 | 49.24 | 64.74 | 56.70 | 37.53 |
| Rotterdam | | | | | | |
| Gasoline | Premium unleaded 98 | 63.58 | 75.13 | 87.34 | 79.52 | 51.34 |
| Gasoil | 10ppm sulphur | 53.28 | 66.35 | 85.94 | 79.50 | 49.17 |
| Fuel oil | 3.5% sulphur | 29.64 | 44.31 | 59.04 | 48.90 | 33.27 |

Notes:

US Gulf and Singapore prices apply to cargo. Rotterdam prices apply to barge size lots.

Table 7.7
Crack spreads in major markets

(\$/b)

| | Specifications | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|---------------------|--------|-------|--------|--------|-------|
| US Gulf crack spread vs WTI | | | | | | |
| Gasoline | Regular unleaded 87 | 14.10 | 17.69 | 15.46 | 15.79 | 8.28 |
| Gasoil | 0.2% sulphur | 6.98 | 11.33 | 16.15 | 17.61 | 5.41 |
| Fuel oil | 3.0% sulphur | -11.09 | -3.82 | -4.76 | -4.51 | -4.65 |
| Singapore crack spread vs Dubai | | | | | | |
| Gasoline | Premium unleaded 97 | 16.55 | 16.38 | 11.90 | 10.77 | 5.37 |
| Gasoil | 0.05% sulphur | 10.85 | 12.57 | 14.65 | 13.75 | 6.12 |
| Fuel oil | 380 centistokes | -6.33 | -3.87 | -4.72 | -6.83 | -4.67 |
| Rotterdam crack spread vs Brent | | | | | | |
| Gasoline | Premium unleaded 98 | 19.86 | 20.89 | 16.45 | 15.26 | 9.86 |
| Gasoil | 10ppm sulphur | 9.57 | 12.11 | 15.00 | 15.26 | 7.65 |
| Fuel oil | 3.5% sulphur | -14.05 | -9.90 | -11.90 | -15.37 | -8.26 |

Notes:

US Gulf and Singapore prices apply to cargo. Rotterdam prices apply to barge size lots.

SECTION 8

Taxes on oil

Table 8.1
Composite barrel and its components in major OECD oil consuming countries

| | 2016 | | | 2017 | | | 2018 | | | 2019 | | | 2020 | | |
|-----------------------|--------|---------|----------------|--------|---------|----------------|--------|---------|----------------|--------|---------|----------------|--------|---------|----------------|
| | \$/b | % share | % change y-o-y | \$/b | % share | % change y-o-y | \$/b | % share | % change y-o-y | \$/b | % share | % change y-o-y | \$/b | % share | % change y-o-y |
| United States | | | | | | | | | | | | | | | |
| Composite barrel | 92.45 | 41.0 | -12.6 | 104.70 | 46.0 | 13.3 | 120.61 | 49.1 | 15.2 | 115.90 | 48.6 | -3.9 | 95.78 | 36.57 | -0.17 |
| Crude cif price | 37.94 | 22.16 | -17.2 | 48.12 | 26.8 | 59.21 | 23.0 | 56.33 | 23.0 | 49.6 | 23.85 | -4.9 | 36.57 | 0.25 | -0.35 |
| Tax | 22.16 | 24.0 | -0.6 | 23.26 | 22.2 | 5.0 | 23.80 | 19.7 | 2.3 | 20.6 | 20.2 | 0.2 | 23.86 | 0.25 | 0.00 |
| Industry margin | 32.36 | 35.0 | -14.2 | 33.32 | 31.8 | 3.0 | 37.60 | 31.2 | 12.8 | 35.72 | 30.8 | -5.0 | 35.35 | 0.37 | -0.01 |
| Canada | | | | | | | | | | | | | | | |
| Composite barrel | 123.58 | 35.3 | -8.4 | 138.90 | 39.1 | 12.4 | 156.69 | 45.2 | 12.8 | 144.19 | 43.8 | -8.0 | 121.87 | -0.15 | -0.15 |
| Crude cif price | 43.60 | 44.40 | -18.5 | 54.30 | 24.5 | 70.88 | 49.25 | 31.4 | 6.8 | 49.26 | 34.2 | 0.0 | 45.79 | 0.38 | -0.27 |
| Tax | 35.9 | 37.18 | -3.2 | 47.42 | 34.1 | 49.25 | 36.56 | 23.3 | 4.5 | 31.81 | 22.1 | -13.0 | 48.01 | 0.39 | -0.03 |
| Industry margin | 35.57 | 28.8 | 0.0 | | | | | | | | | | 28.07 | 0.23 | -0.12 |
| Japan | | | | | | | | | | | | | | | |
| Composite barrel | 153.28 | 27.3 | -3.6 | 167.49 | 9.3 | 193.29 | 15.4 | 192.76 | 9.3 | 192.76 | 15.4 | -0.3 | 182.65 | -0.05 | -0.05 |
| Crude cif price | 41.79 | 45.3 | -22.9 | 54.42 | 32.5 | 30.2 | 72.85 | 37.7 | 33.9 | 66.78 | 34.6 | -8.3 | 46.85 | 0.26 | -0.30 |
| Tax | 69.36 | 72.5 | 10.1 | 69.82 | 41.7 | 0.7 | 72.86 | 37.7 | 4.3 | 75.45 | 39.1 | 3.6 | 78.58 | 0.43 | 0.04 |
| Industry margin | 42.13 | 0.7 | 43.25 | 25.8 | 2.7 | 47.59 | 24.6 | 10.0 | 10.0 | 50.53 | 26.2 | 6.2 | 57.22 | 0.31 | 0.13 |
| France | | | | | | | | | | | | | | | |
| Composite barrel | 196.09 | 22.2 | -4.5 | 221.06 | 12.7 | 12.7 | 267.48 | 21.0 | 21.0 | 254.02 | 21.0 | -5.0 | 229.46 | -0.10 | -0.10 |
| Crude cif price | 43.48 | 62.9 | -18.2 | 54.47 | 24.6 | 25.3 | 71.59 | 26.8 | 31.4 | 64.98 | 25.6 | -9.2 | 44.04 | 0.19 | -0.32 |
| Tax | 123.43 | 14.9 | 2.8 | 134.72 | 60.9 | 9.1 | 157.03 | 58.7 | 16.6 | 149.87 | 59.0 | -4.6 | 148.50 | 0.65 | -0.01 |
| Industry margin | 29.19 | 14.9 | -9.1 | 31.87 | 14.4 | 9.2 | 38.86 | 14.5 | 21.9 | 39.17 | 15.4 | 0.8 | 36.93 | 0.16 | -0.06 |
| Germany | | | | | | | | | | | | | | | |
| Composite barrel | 198.20 | 21.6 | -6.8 | 216.75 | 9.4 | 251.49 | 16.0 | 235.70 | 16.0 | 235.70 | 16.0 | -6.3 | 212.36 | -0.10 | -0.10 |
| Crude cif price | 42.80 | 60.3 | -1.2 | 54.02 | 24.9 | 26.2 | 70.50 | 28.0 | 30.5 | 64.43 | 27.3 | -8.6 | 43.24 | 0.20 | -0.33 |
| Tax | 119.53 | 18.1 | -8.3 | 125.11 | 57.7 | 4.7 | 137.45 | 54.7 | 7.1 | 130.97 | 55.6 | -4.7 | 127.12 | 0.60 | -0.03 |
| Industry margin | 35.87 | | | 37.62 | 17.4 | 4.9 | 43.54 | 17.3 | 15.7 | 40.30 | 17.1 | -7.4 | 42.00 | 0.20 | 0.04 |
| Italy | | | | | | | | | | | | | | | |
| Composite barrel | 229.12 | 18.5 | -8.2 | 250.31 | 53.17 | 21.2 | 280.84 | 25.2 | 12.2 | 265.15 | 24.4 | -5.6 | 241.28 | -0.09 | -0.09 |
| Crude cif price | 42.33 | 65.7 | -3.1 | 156.95 | 62.7 | 4.3 | 168.06 | 59.8 | 7.1 | 159.12 | 60.0 | -8.7 | 43.24 | 0.18 | -0.33 |
| Tax | 150.50 | 15.8 | -13.9 | 40.19 | 16.1 | 10.7 | 41.90 | 14.9 | 4.3 | 41.32 | 15.6 | -5.3 | 156.75 | 0.65 | -0.01 |
| Industry margin | 36.29 | 11.7 | -22.9 | 30.20 | 12.6 | 11.6 | 30.86 | 11.6 | 2.2 | 34.53 | 13.4 | -1.4 | 41.29 | 0.17 | 0.00 |
| United Kingdom | | | | | | | | | | | | | | | |
| Composite barrel | 230.74 | 19.3 | -14.7 | 239.81 | 22.8 | 22.6 | 72.65 | 27.2 | 33.3 | 64.70 | 24.4 | -8.7 | 44.62 | 0.19 | -0.10 |
| Crude cif price | 44.62 | 56.3 | -12.4 | 154.91 | 64.6 | -2.6 | 163.50 | 61.2 | 5.5 | 158.00 | 61.2 | -3.4 | 155.08 | 0.66 | -0.02 |
| Tax | 159.06 | 68.9 | -2.2 | 101.74 | 53.2 | 3.5 | 110.28 | 50.2 | 8.4 | 106.65 | 50.9 | -3.3 | 105.41 | 0.56 | -0.01 |
| Industry margin | 27.07 | | | 36.23 | 18.9 | 6.4 | 39.56 | 18.0 | 9.2 | 39.05 | 18.6 | -1.3 | 39.55 | 0.21 | 0.04 |
| 67 | | | | | | | | | | | | | | | |
| Composite barrel | 174.78 | 19.5 | -8.5 | 191.29 | 27.9 | 9.4 | 219.63 | 31.8 | 14.8 | 209.40 | 30.9 | -4.7 | 188.44 | -0.10 | -0.10 |
| Crude cif price | 42.37 | 53.31 | -18.8 | 54.69 | 25.8 | 69.79 | 63.70 | 31.8 | 23.8 | 65.58 | 25.4 | -9.7 | 43.48 | 0.23 | -0.32 |
| Tax | 98.35 | 102.51 | -2.9 | 101.74 | 53.2 | 3.5 | 110.28 | 50.2 | 8.4 | 106.65 | 50.9 | -3.3 | 105.41 | 0.56 | -0.01 |
| Industry margin | 34.07 | 19.5 | -9.5 | 36.23 | 18.9 | 6.4 | 39.56 | 18.0 | 9.2 | 39.05 | 18.6 | -1.3 | 39.55 | 0.21 | 0.04 |
| United Kingdom | | | | | | | | | | | | | | | |
| Composite barrel | 174.78 | 24.2 | -8.5 | 199.83 | 10.4 | 225.54 | 12.9 | 214.51 | 12.9 | 214.51 | 12.9 | -4.9 | 192.41 | -0.10 | -0.10 |
| Crude cif price | 42.37 | 53.8 | -18.6 | 53.68 | 26.9 | 25.6 | 70.89 | 31.4 | 32.1 | 64.62 | 30.1 | -8.8 | 43.97 | 0.23 | -0.32 |
| Tax | 97.41 | 43.64 | -2.2 | 102.51 | 51.3 | 5.2 | 109.95 | 48.7 | 7.3 | 105.35 | 49.1 | -4.2 | 103.60 | 0.54 | -0.02 |
| Industry margin | 40.86 | 22.6 | -10.0 | 43.64 | 21.8 | 6.8 | 44.70 | 19.8 | 2.4 | 44.54 | 20.8 | -0.4 | 44.84 | 0.23 | 0.01 |

Notes:

Prices partly estimated and preliminary. Quotations converted from various volumetric units to barrels.
Because of rounding in the conversions from other units to barrels, some results may not agree exactly with the sum of their component parts.

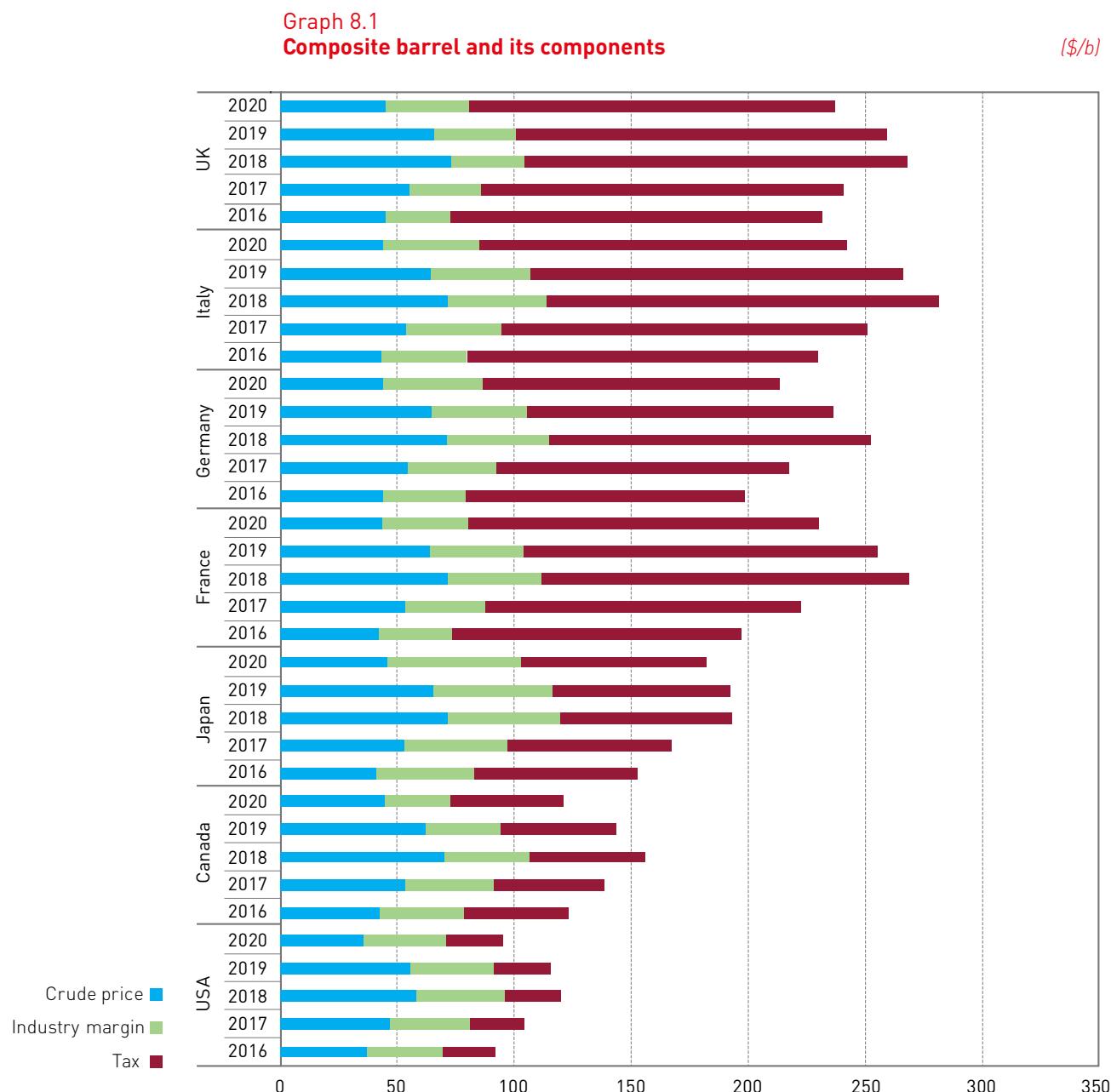


Table 8.2
Tax to CIF crude oil price ratio in major OECD oil consuming countries

(ratio)

| | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------|------|------|------|------|------|
| USA | 0.58 | 0.48 | 0.40 | 0.42 | 0.65 |
| Canada | 1.02 | 0.87 | 0.69 | 0.78 | 1.05 |
| Japan | 1.66 | 1.28 | 1.00 | 1.13 | 1.68 |
| France | 2.84 | 2.47 | 2.19 | 2.31 | 3.37 |
| Germany | 2.79 | 2.32 | 1.95 | 2.03 | 2.94 |
| Italy | 3.56 | 2.95 | 2.37 | 2.46 | 3.63 |
| UK | 3.56 | 2.83 | 2.25 | 2.41 | 3.48 |
| G7 | 2.32 | 1.91 | 1.58 | 1.67 | 2.42 |
| OECD | 2.28 | 1.91 | 1.55 | 1.63 | 2.36 |

Notes:

Prices partly estimated and preliminary. Quotations converted from various volumetric units to barrels. Because of rounding in the conversions from other units to barrels, some results may not agree exactly with the sum of their component parts.

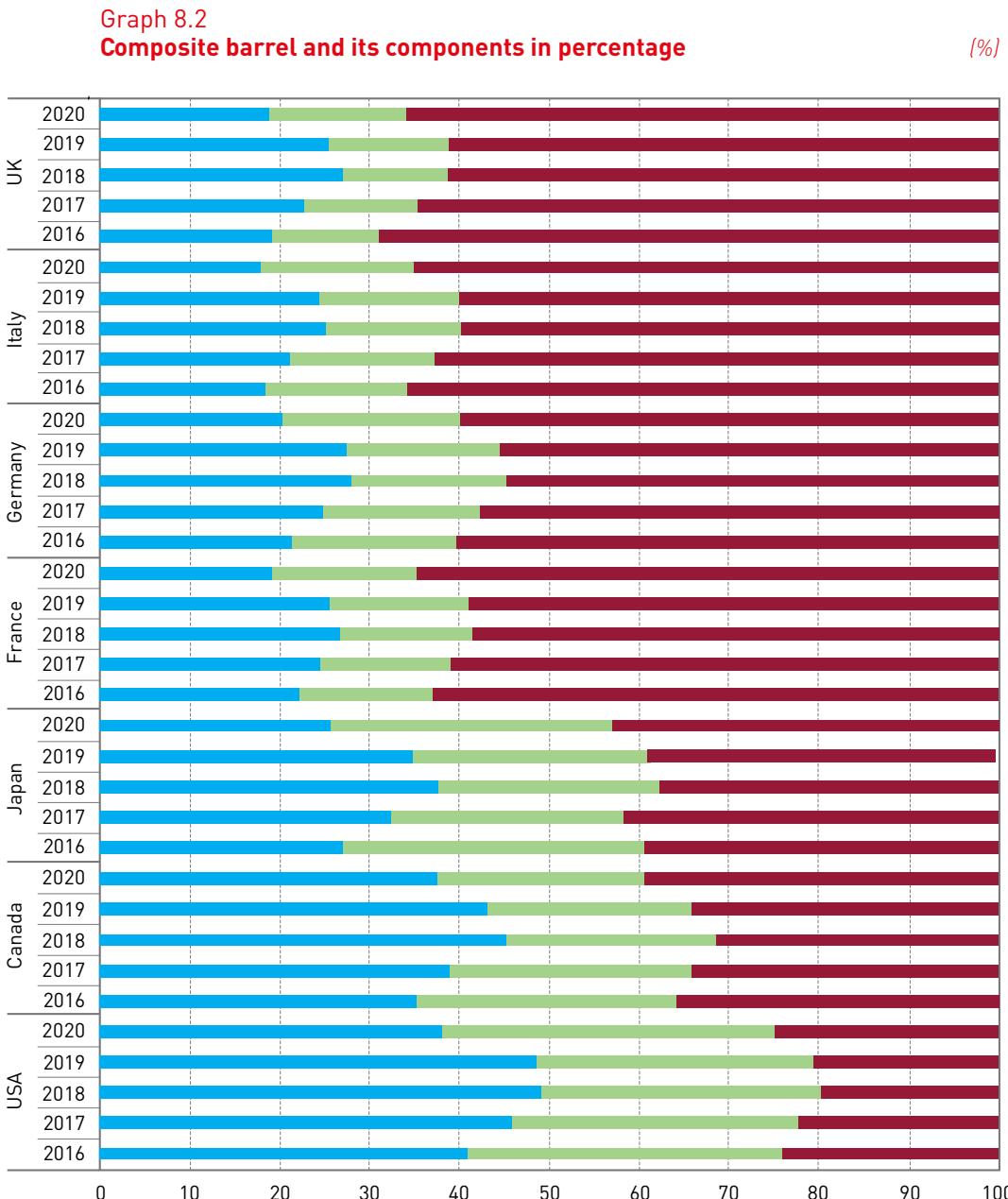


Table 8.3
Euro Big 4 household energy prices, 2020 (\$/toe NCV)

| | Automotive diesel | Premium unleaded 95 RON | Liquefied petroleum gas | Natural gas | Electricity |
|--------------------|-------------------|-------------------------|-------------------------|-------------|--------------|
| Tax | 1,047 | 1,280 | 428 | 250 | 1,040 |
| Non-tax | 612 | 618 | 831 | 732 | 2,016 |
| Total price | 1,659 | 1,898 | 1,259 | 982 | 3,055 |
| Tax share (%) | 63 | 67 | 34 | 25 | 34 |

Notes:

Prices partly estimated and preliminary.

Europe 4 includes France, Germany, Italy and the United Kingdom.

Data for LPG pricing in the UK and natural gas pricing in Italy is not available (the average of the remaining three is used).

SECTION 9

Natural gas data

Natural gas data

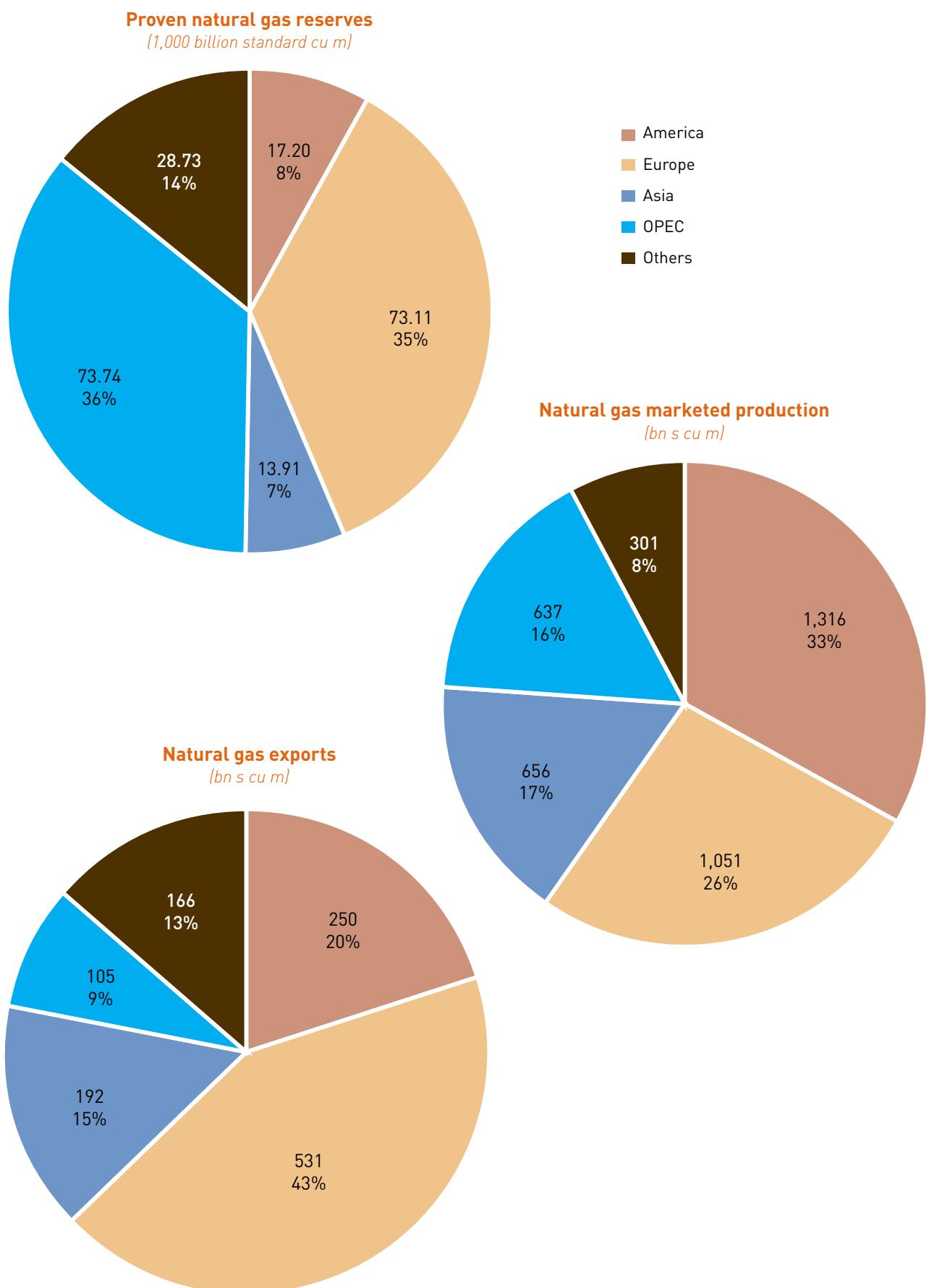
Table 9.1
World proven natural gas reserves by country

(bn s cu m)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| OECD Americas | 11,429 | 14,695 | 15,637 | 15,685 | 15,499 | -1.2 |
| Canada | 2,097 | 2,083 | 2,008 | 2,061 | 2,354 | 14.2 |
| Chile | 5 | 5 | 4 | 4 | 4 | 0.0 |
| Mexico | 208 | 199 | 188 | 183 | 183 | 0.0 |
| United States | 9,119 | 12,408 | 13,437 | 13,437 | 12,958 | -3.6 |
| OECD Europe | 3,702 | 3,572 | 2,987 | 2,874 | 2,781 | -3.2 |
| Denmark | 77 | 72 | 69 | 66 | 66 | 0.0 |
| Germany | 42 | 37 | 30 | 25 | 23 | -6.5 |
| Italy | 38 | 45 | 48 | 46 | 45 | -2.8 |
| Netherlands | 740 | 695 | 196 | 147 | 133 | -9.8 |
| Norway | 2,388 | 2,334 | 2,226 | 2,165 | 2,088 | -3.6 |
| Poland | 58 | 56 | 73 | 85 | 86 | 1.8 |
| United Kingdom | 288 | 263 | 276 | 276 | 276 | 0.0 |
| Others | 71 | 70 | 69 | 64 | 64 | 0.0 |
| OECD Asia Pacific | 3,738 | 3,761 | 3,770 | 3,821 | 3,856 | 0.9 |
| Australia | 3,193 | 3,193 | 3,193 | 3,193 | 3,226 | 1.0 |
| Japan | 29 | 28 | 27 | 26 | 26 | 0.0 |
| New Zealand | 50 | 51 | 53 | 54 | 56 | 2.9 |
| Others | 466 | 489 | 497 | 548 | 548 | 0.0 |
| China | 2,838 | 2,786 | 2,779 | 2,834 | 2,987 | 5.4 |
| India | 1,227 | 1,284 | 1,340 | 1,381 | 1,422 | 3.0 |
| Other Asia | 7,587 | 7,300 | 7,057 | 6,891 | 5,642 | -18.1 |
| Bangladesh | 365 | 337 | 325 | 312 | 312 | 0.0 |
| Brunei | 252 | 240 | 246 | 240 | 240 | 0.0 |
| Indonesia | 2,841 | 2,745 | 2,605 | 2,605 | 1,408 | -46.0 |
| Malaysia | 2,470 | 2,346 | 2,290 | 2,217 | 2,224 | 0.3 |
| Myanmar | 273 | 265 | 256 | 248 | 238 | -4.0 |
| Pakistan | 479 | 502 | 499 | 446 | 431 | -3.4 |
| Thailand | 193 | 181 | 171 | 171 | 138 | -19.2 |
| Vietnam | 203 | 199 | 195 | 190 | 190 | 0.0 |
| Others | 511 | 485 | 470 | 462 | 462 | 0.0 |
| Latin America | 7,642 | 7,565 | 7,503 | 7,447 | 7,288 | -2.1 |
| Argentina | 337 | 355 | 357 | 373 | 396 | 6.2 |
| Bolivia | 310 | 303 | 303 | 310 | 310 | 0.0 |
| Brazil | 378 | 370 | 368 | 367 | 349 | -4.9 |
| Colombia | 114 | 110 | 107 | 104 | 88 | -15.5 |
| Ecuador | 11 | 11 | 11 | 11 | 11 | 0.0 |
| Peru | 456 | 455 | 466 | 375 | 311 | -17.2 |
| Trinidad & Tobago | 286 | 246 | 208 | 225 | 225 | 0.1 |
| Venezuela | 5,740 | 5,707 | 5,674 | 5,674 | 5,590 | -1.5 |
| Others | 10 | 9 | 9 | 9 | 9 | 0.0 |
| Middle East | 79,675 | 79,572 | 79,957 | 81,951 | 81,075 | -1.1 |
| IR Iran | 33,721 | 33,810 | 33,899 | 33,988 | 34,077 | 0.3 |
| Iraq | 3,820 | 3,744 | 3,729 | 3,714 | 3,714 | 0.0 |
| Kuwait | 1,784 | 1,784 | 1,784 | 1,784 | 1,784 | 0.0 |
| Oman | 705 | 705 | 677 | 674 | 674 | 0.0 |
| Qatar | 24,073 | 23,861 | 23,846 | 23,831 | 23,831 | 0.0 |
| Saudi Arabia | 8,619 | 8,715 | 9,069 | 9,423 | 8,438 | -10.5 |
| United Arab Emirates | 6,091 | 6,091 | 6,091 | 7,726 | 7,726 | 0.0 |
| Others | 862 | 862 | 862 | 811 | 831 | 2.4 |
| Africa | 14,978 | 15,336 | 15,765 | 15,862 | 15,807 | -0.3 |
| Algeria | 4,504 | 4,504 | 4,504 | 4,504 | 4,504 | 0.0 |
| Angola | 440 | 422 | 383 | 343 | 301 | -12.4 |
| Cameroon | 152 | 151 | 150 | 149 | 149 | 0.0 |
| Congo | 285 | 285 | 285 | 284 | 284 | -0.2 |
| Egypt | 2,221 | 2,221 | 2,221 | 2,221 | 2,221 | 0.0 |
| Equatorial Guinea | 47 | 42 | 42 | 39 | 39 | 0.0 |
| Gabon | 26 | 26 | 26 | 26 | 26 | 0.0 |
| Libya | 1,505 | 1,505 | 1,505 | 1,505 | 1,505 | 0.0 |
| Nigeria | 5,475 | 5,627 | 5,675 | 5,761 | 5,750 | -0.2 |
| Others | 324 | 554 | 975 | 1,029 | 1,029 | 0.0 |
| Russia | 50,617 | 50,508 | 49,571 | 49,154 | 48,938 | -0.4 |
| Other Eurasia | 15,117 | 15,242 | 16,499 | 19,587 | 21,285 | 8.7 |
| Armenia | 18 | 18 | 18 | 18 | 18 | 0.0 |
| Azerbaijan | 1,277 | 1,270 | 1,435 | 1,917 | 2,200 | 14.8 |
| Kazakhstan | 1,898 | 1,865 | 1,830 | 1,830 | 1,830 | 0.0 |
| Turkmenistan | 9,979 | 10,161 | 11,335 | 13,950 | 15,365 | 10.1 |
| Ukraine | 380 | 384 | 358 | 349 | 349 | 0.0 |
| Uzbekistan | 1,564 | 1,543 | 1,522 | 1,522 | 1,522 | 0.0 |
| Others | 1 | 1 | 1 | 1 | 1 | 0.0 |
| Other Europe | 119 | 111 | 103 | 103 | 103 | 0.0 |
| Bulgaria | 4 | 4 | 4 | 4 | 4 | 0.0 |
| Romania | 99 | 92 | 87 | 87 | 87 | 0.0 |
| Others | 16 | 15 | 12 | 12 | 12 | 0.0 |
| Total world | 198,669 | 201,732 | 202,969 | 207,590 | 206,683 | -0.4 |
| of which | | | | | | |
| OPEC | 72,056 | 72,261 | 72,665 | 74,771 | 73,737 | -1.4 |
| OPEC percentage | 36.3 | 35.8 | 35.8 | 36.0 | 35.7 | |
| OECD | 18,870 | 22,028 | 22,394 | 22,380 | 22,136 | -1.1 |

Notes: Figures as at year-end.

Graph 9.1
Natural gas flows during 2020



Natural gas data

Table 9.2

Yearly and cumulative marketed natural gas production in OPEC Members

(million s cu m)

Marketed natural gas production yearly

| | 1960 | 1970 | 1980 | 1990 | 2000 | 2010 | 2020 |
|----------------------|--------------|---------------|---------------|----------------|----------------|----------------|----------------|
| Algeria | 0 | 2,599 | 11,647 | 51,600 | 83,119 | 84,615 | 85,119 |
| Angola | 0 | 40 | 260 | 540 | 570 | 733 | 11,313 |
| Congo | 0 | 10 | 10 | 0 | 0 | 575 | 405 |
| Equatorial Guinea | 0 | 0 | 0 | 0 | 30 | 6,540 | 6,023 |
| Gabon | 7 | 20 | 70 | 100 | 80 | 80 | 502 |
| IR Iran | 960 | 12,881 | 7,138 | 24,200 | 60,240 | 187,357 | 253,770 |
| Iraq | 604 | 780 | 1,281 | 3,980 | 3,150 | 7,511 | 7,374 |
| Kuwait | 943 | 2,037 | 4,071 | 4,190 | 9,600 | 11,733 | 12,883 |
| Libya | 0 | 294 | 5,170 | 6,200 | 5,880 | 16,814 | 17,714 |
| Nigeria | 0 | 111 | 1,070 | 4,010 | 12,460 | 28,099 | 49,947 |
| Saudi Arabia | 0 | 1,230 | 11,431 | 33,520 | 49,810 | 87,660 | 119,000 |
| United Arab Emirates | 0 | 756 | 6,863 | 22,110 | 38,380 | 51,282 | 55,064 |
| Venezuela | 4,958 | 7,710 | 14,805 | 21,966 | 27,801 | 19,728 | 18,026 |
| OPEC | 7,472 | 28,468 | 63,816 | 172,416 | 291,120 | 502,727 | 637,141 |

Cumulative marketed natural gas production up to and including year

| | 1960 | 1970 | 1980 | 1990 | 2000 | 2010 | 2020 |
|----------------------|--------------|----------------|----------------|------------------|------------------|------------------|-------------------|
| Algeria | 0 | 15,428 | 89,208 | 472,552 | 1,102,721 | 1,940,983 | 2,815,438 |
| Angola | 0 | 40 | 844 | 4,684 | 10,354 | 17,147 | 57,592 |
| Congo | 0 | 10 | 119 | 149 | 149 | 1,797 | 9,695 |
| Equatorial Guinea | 0 | 0 | 0 | 0 | 70 | 25,870 | 100,326 |
| Gabon | 7 | 147 | 2,132 | 3,162 | 4,142 | 5,012 | 9,206 |
| IR Iran | 960 | 33,063 | 203,263 | 353,113 | 790,718 | 1,906,280 | 4,157,201 |
| Iraq | 604 | 6,991 | 19,128 | 43,668 | 72,138 | 109,022 | 196,503 |
| Kuwait | 943 | 22,483 | 59,123 | 109,793 | 179,932 | 290,934 | 447,196 |
| Libya | 0 | 294 | 43,981 | 93,091 | 155,921 | 269,950 | 422,065 |
| Nigeria | 0 | 861 | 6,387 | 35,998 | 95,883 | 335,691 | 777,008 |
| Saudi Arabia | 0 | 8,588 | 58,961 | 275,956 | 708,196 | 1,410,617 | 2,488,927 |
| United Arab Emirates | 0 | 2,379 | 30,627 | 178,652 | 491,312 | 967,964 | 1,517,330 |
| Venezuela | 4,958 | 69,435 | 184,608 | 363,836 | 628,796 | 862,302 | 1,096,380 |
| OPEC | 7,472 | 159,719 | 698,381 | 1,934,654 | 4,240,332 | 8,143,569 | 14,094,868 |

Table 9.3

World marketed production of natural gas by country

(million s cu m)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| OECD America | 980,901 | 1,003,151 | 1,103,209 | 1,185,323 | 1,169,732 | -1.3 |
| Canada | 183,819 | 190,625 | 195,471 | 188,020 | 183,002 | -2.7 |
| Chile | 1,229 | 1,222 | 1,522 | 1,750 | 1,402 | -19.9 |
| Mexico | 41,227 | 36,216 | 33,003 | 31,956 | 36,905 | 15.5 |
| United States | 754,626 | 775,088 | 873,213 | 963,597 | 948,423 | -1.6 |
| OECD Europe | 243,042 | 243,923 | 234,386 | 218,701 | 201,977 | -7.6 |
| Denmark | 4,505 | 4,835 | 4,119 | 3,133 | 1,805 | -42.4 |
| Germany | 7,606 | 6,974 | 5,945 | 5,741 | 4,874 | -15.1 |
| Italy | 5,783 | 5,540 | 5,451 | 4,851 | 3,932 | -18.9 |
| Netherlands | 50,543 | 43,871 | 38,909 | 33,607 | 24,167 | -28.1 |
| Norway | 120,366 | 127,733 | 126,415 | 119,050 | 116,208 | -2.4 |
| Poland | 5,794 | 5,706 | 5,616 | 5,669 | 5,593 | -1.3 |
| United Kingdom | 41,606 | 41,887 | 40,658 | 40,287 | 39,858 | -1.1 |
| Others | 6,839 | 7,377 | 7,273 | 6,363 | 5,540 | -12.9 |
| OECD Asia Pacific | 110,992 | 131,164 | 148,734 | 169,756 | 170,468 | 0.4 |
| Australia | 93,442 | 112,583 | 130,519 | 151,924 | 153,014 | 0.7 |
| Japan | 4,243 | 4,698 | 4,407 | 3,872 | 3,589 | -7.3 |
| New Zealand | 5,066 | 4,987 | 4,408 | 4,516 | 4,477 | -0.9 |
| Others | 8,241 | 8,896 | 9,400 | 9,444 | 9,388 | -0.6 |
| China | 132,700 | 144,000 | 154,800 | 169,970 | 187,390 | 10.2 |
| India | 30,400 | 31,750 | 31,700 | 31,160 | 27,350 | -12.2 |
| Other Asia | 297,698 | 296,995 | 291,861 | 287,760 | 270,670 | -5.9 |
| Bangladesh | 26,300 | 26,500 | 26,450 | 25,310 | 24,700 | -2.4 |
| Brunei | 11,550 | 11,800 | 11,390 | 11,630 | 11,285 | -3.0 |
| Indonesia | 72,200 | 70,400 | 70,200 | 63,940 | 59,984 | -6.2 |
| Malaysia | 64,400 | 68,000 | 66,310 | 68,100 | 63,051 | -7.4 |
| Myanmar | 16,800 | 16,460 | 16,070 | 16,660 | 16,000 | -4.0 |
| Pakistan | 38,800 | 38,820 | 38,100 | 37,400 | 35,000 | -6.4 |
| Thailand | 38,900 | 37,400 | 36,440 | 37,420 | 33,950 | -9.3 |
| Vietnam | 9,460 | 8,730 | 8,830 | 9,010 | 8,800 | -2.3 |
| Others | 19,288 | 18,885 | 18,071 | 18,290 | 17,900 | -2.1 |
| Latin America | 165,958 | 168,955 | 164,444 | 162,529 | 146,484 | -9.9 |
| Argentina | 38,210 | 38,160 | 40,560 | 42,600 | 38,690 | -9.2 |
| Bolivia | 20,800 | 20,200 | 19,100 | 16,750 | 16,100 | -3.9 |
| Brazil | 20,620 | 23,750 | 21,700 | 22,180 | 20,600 | -7.1 |
| Colombia | 10,400 | 9,600 | 9,500 | 9,770 | 9,600 | -1.7 |
| Ecuador | 530 | 463 | 349 | 310 | 300 | -3.2 |
| Peru | 14,000 | 12,900 | 12,420 | 13,700 | 12,300 | -10.2 |
| Trinidad & Tobago | 32,500 | 32,900 | 34,900 | 35,530 | 29,838 | -16.0 |
| Venezuela | 27,718 | 29,793 | 24,785 | 20,559 | 18,026 | -12.3 |
| Others | 1,180 | 1,190 | 1,130 | 1,130 | 1,030 | -8.8 |
| Middle East | 661,005 | 668,951 | 680,857 | 693,654 | 690,866 | -0.4 |
| IR Iran | 226,905 | 238,003 | 248,524 | 253,773 | 253,770 | 0.0 |
| Iraq | 10,416 | 10,650 | 11,130 | 11,544 | 7,374 | -36.1 |
| Kuwait | 17,291 | 17,102 | 17,738 | 13,952 | 12,883 | -7.7 |
| Oman | 30,450 | 31,250 | 35,900 | 35,864 | 36,064 | 0.6 |
| Qatar | 182,830 | 182,230 | 181,330 | 183,594 | 184,880 | 0.7 |
| Saudi Arabia | 110,860 | 115,000 | 118,000 | 117,000 | 119,000 | 1.7 |
| United Arab Emirates | 61,862 | 54,086 | 47,624 | 55,097 | 55,064 | -0.1 |
| Others | 20,390 | 20,630 | 20,610 | 22,830 | 21,830 | -4.4 |
| Africa | 216,627 | 230,927 | 248,171 | 252,781 | 247,524 | -2.1 |
| Algeria | 93,152 | 94,778 | 95,898 | 90,302 | 85,119 | -5.7 |
| Angola | 1,919 | 3,111 | 9,614 | 10,546 | 11,313 | 7.3 |
| Cameroon | 540 | 600 | 1,600 | 1,600 | 2,360 | 47.5 |
| Congo | 866 | 860 | 867 | 580 | 405 | -30.2 |
| Egypt | 42,100 | 51,900 | 62,100 | 68,866 | 62,140 | -9.8 |
| Equatorial Guinea | 7,876 | 8,237 | 7,751 | 6,235 | 6,023 | -3.4 |
| Gabon | 551 | 487 | 530 | 464 | 502 | 8.2 |
| Libya | 15,570 | 14,309 | 13,880 | 14,190 | 17,714 | 24.8 |
| Nigeria | 42,562 | 45,434 | 44,251 | 47,828 | 49,947 | 4.4 |
| Others | 11,490 | 11,210 | 11,680 | 12,170 | 12,000 | -1.4 |
| Russia | 599,440 | 646,800 | 680,430 | 692,680 | 649,144 | -6.3 |
| Other Eurasia | 192,380 | 197,450 | 207,180 | 210,666 | 193,538 | -8.1 |
| Azerbaijan | 17,500 | 16,900 | 17,800 | 20,811 | 22,408 | 7.7 |
| Kazakhstan | 21,700 | 25,800 | 27,040 | 26,076 | 24,202 | -7.2 |
| Turkmenistan | 79,770 | 80,500 | 84,440 | 86,662 | 81,662 | -5.8 |
| Ukraine | 19,420 | 19,850 | 20,330 | 20,261 | 18,440 | -9.0 |
| Uzbekistan | 51,640 | 52,000 | 55,170 | 54,446 | 44,446 | -18.4 |
| Others | 2,350 | 2,400 | 2,400 | 2,410 | 2,380 | -1.2 |
| Other Europe | 11,580 | 12,080 | 11,630 | 11,360 | 6,816 | -40.0 |
| Bulgaria | 90 | 70 | 10 | 30 | 54 | 80.0 |
| Croatia | 1,310 | 1,180 | 1,000 | 840 | 790 | -6.0 |
| Romania | 9,600 | 10,300 | 10,120 | 9,990 | 5,492 | -45.0 |
| Others | 580 | 530 | 500 | 500 | 480 | -4.0 |
| Total world | 3,642,722 | 3,776,147 | 3,957,402 | 4,086,340 | 3,961,959 | -3.0 |
| of which | | | | | | |
| OPEC | 617,549 | 631,851 | 640,592 | 642,069 | 637,141 | -0.8 |
| OPEC percentage | 17.0 | 16.7 | 16.2 | 15.7 | 16.1 | |
| OECD | 1,334,935 | 1,378,238 | 1,486,329 | 1,573,780 | 1,542,177 | -2.0 |

Natural gas data

Table 9.4
World natural gas exports by country

(million s cu m)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| OECD America | 150,786 | 174,724 | 182,044 | 208,488 | 220,482 | 5.8 |
| Canada | 84,269 | 85,123 | 79,774 | 76,629 | 70,932 | -7.4 |
| United States | 66,133 | 89,305 | 102,162 | 131,847 | 149,538 | 13.4 |
| Others | 384 | 296 | 108 | 12 | 12 | 0.0 |
| OECD Europe | 240,957 | 264,759 | 270,349 | 269,022 | 261,267 | -2.9 |
| Belgium | 21,180 | 23,950 | 24,640 | 28,870 | 28,875 | 0.0 |
| Denmark | 2,114 | 2,235 | 1,538 | 1,344 | 1,713 | 27.5 |
| France | 3,717 | 6,038 | 5,925 | 10,789 | 9,102 | -15.6 |
| Germany | 27,530 | 35,910 | 38,440 | 41,830 | 50,092 | 19.8 |
| Italy | 212 | 271 | 396 | 326 | 315 | -3.4 |
| Netherlands | 56,597 | 48,017 | 54,485 | 47,664 | 39,976 | -16.1 |
| Norway | 114,373 | 122,485 | 120,961 | 111,304 | 112,951 | 1.5 |
| Spain | 3,984 | 2,876 | 3,244 | 1,121 | 1,188 | 6.0 |
| United Kingdom | 10,300 | 11,347 | 7,610 | 8,044 | 9,595 | 19.3 |
| Others | 950 | 11,630 | 13,110 | 17,730 | 7,460 | -57.9 |
| OECD Asia Pacific | 58,683 | 74,863 | 91,582 | 100,253 | 102,562 | 2.3 |
| Australia | 58,683 | 74,803 | 91,582 | 100,253 | 102,562 | 2.3 |
| Others | 0 | 60 | 0 | 0 | 0 | 0.0 |
| China | 3,430 | 3,472 | 3,402 | 3,640 | 5,200 | 42.9 |
| India | 80 | 0 | 90 | 0 | 0 | 0.0 |
| Other Asia | 96,670 | 99,300 | 93,360 | 92,612 | 83,832 | -9.5 |
| Brunei | 8,450 | 8,920 | 8,270 | 8,322 | 7,848 | -5.7 |
| Indonesia | 30,420 | 29,820 | 29,620 | 24,860 | 22,525 | -9.4 |
| Malaysia | 34,180 | 36,840 | 33,960 | 35,310 | 31,262 | -11.5 |
| Myanmar | 12,800 | 12,150 | 11,310 | 12,240 | 11,506 | -6.0 |
| Others | 10,820 | 11,570 | 10,200 | 11,880 | 10,692 | -10.0 |
| Latin America | 37,570 | 34,700 | 36,760 | 35,650 | 29,271 | -17.9 |
| Argentina | 60 | 10 | 300 | 810 | 700 | -13.6 |
| Bolivia | 17,800 | 16,400 | 15,110 | 12,650 | 12,400 | -2.0 |
| Peru | 5,070 | 5,250 | 4,700 | 5,080 | 4,150 | -18.3 |
| Trinidad & Tobago | 14,150 | 12,620 | 16,380 | 17,110 | 12,021 | -29.7 |
| Others | 490 | 420 | 270 | 0 | 0 | 0.0 |
| Middle East | 158,769 | 161,547 | 178,210 | 173,228 | 175,862 | 1.5 |
| IR Iran | 8,567 | 12,927 | 12,327 | 12,350 | 12,670 | 2.6 |
| Oman | 10,550 | 11,150 | 13,400 | 8,500 | 10,626 | 25.0 |
| Qatar | 130,324 | 128,645 | 143,445 | 143,000 | 143,700 | 0.5 |
| United Arab Emirates | 9,328 | 8,775 | 8,938 | 9,258 | 8,766 | -5.3 |
| Others | 0 | 50 | 100 | 120 | 100 | -16.7 |
| Africa | 95,151 | 103,002 | 95,370 | 100,484 | 95,111 | -5.3 |
| Algeria | 53,974 | 53,891 | 51,424 | 42,776 | 39,459 | -7.8 |
| Angola | 1,149 | 517 | 541 | 582 | 628 | 7.8 |
| Congo | 0 | 190 | 0 | 0 | 0 | 0.0 |
| Egypt | 670 | 1,160 | 1,240 | 6,694 | 7,100 | 6.1 |
| Equatorial Guinea | 5,587 | 6,183 | 5,509 | 4,679 | 4,026 | -14.0 |
| Libya | 4,664 | 4,470 | 4,251 | 5,700 | 4,292 | -24.7 |
| Nigeria | 25,147 | 32,511 | 28,626 | 35,953 | 35,586 | -1.0 |
| Others | 3,960 | 4,080 | 3,780 | 4,100 | 4,020 | -2.0 |
| Russia | 208,040 | 229,420 | 249,870 | 262,400 | 199,928 | -23.8 |
| Other Eurasia | 67,920 | 70,270 | 76,040 | 78,730 | 67,497 | -14.3 |
| Azerbaijan | 7,620 | 8,030 | 9,190 | 11,300 | 9,900 | -12.4 |
| Kazakhstan | 12,480 | 14,220 | 17,550 | 17,840 | 13,222 | -25.9 |
| Turkmenistan | 37,700 | 37,700 | 36,400 | 37,370 | 32,643 | -12.6 |
| Uzbekistan | 10,120 | 10,320 | 12,900 | 12,220 | 11,731 | -4.0 |
| Other Europe | 14,371 | 16,139 | 14,084 | 7,100 | 2,772 | -61.0 |
| Bulgaria | 14,371 | 16,139 | 14,084 | 7,087 | 2,656 | -62.5 |
| Others | 0 | 0 | 0 | 13 | 116 | 792.3 |
| Total world | 1,132,426 | 1,232,196 | 1,291,162 | 1,331,607 | 1,243,784 | -6.6 |
| of which | | | | | | |
| OPEC | 108,415 | 119,464 | 111,616 | 111,298 | 105,427 | -5.3 |
| OPEC percentage | 9.6 | 9.7 | 8.6 | 8.4 | 8.5 | |
| OECD | 450,426 | 514,346 | 543,975 | 577,763 | 584,311 | 1.1 |

Notes:

Data may include re-exports and natural gas in transit.

Table 9.5
World natural gas imports by country

(million s cu m)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| OECD America | 135,125 | 133,885 | 123,304 | 118,707 | 109,535 | -7.7 |
| Canada | 22,271 | 25,266 | 23,175 | 26,071 | 23,572 | -9.6 |
| United States | 85,133 | 85,891 | 81,802 | 77,641 | 72,259 | -6.9 |
| Others | 27,721 | 22,728 | 18,327 | 14,995 | 13,704 | -8.6 |
| OECD Europe | 516,369 | 557,251 | 572,669 | 598,904 | 569,055 | -5.0 |
| Austria | 7,400 | 8,470 | 10,760 | 15,100 | 13,250 | -12.3 |
| Belgium | 39,430 | 42,100 | 43,830 | 43,143 | 42,696 | -1.0 |
| France | 46,444 | 48,260 | 49,316 | 54,670 | 46,140 | -15.6 |
| Germany | 150,561 | 153,555 | 162,392 | 158,897 | 155,493 | -2.1 |
| Italy | 65,285 | 69,622 | 67,877 | 70,912 | 66,227 | -6.6 |
| Netherlands | 29,470 | 32,860 | 44,300 | 52,690 | 53,255 | 1.1 |
| Poland | 12,500 | 13,180 | 13,850 | 15,800 | 14,477 | -8.4 |
| Spain | 30,350 | 32,980 | 33,580 | 37,590 | 32,838 | -12.6 |
| Turkey | 46,352 | 55,121 | 50,007 | 45,212 | 47,991 | 6.1 |
| United Kingdom | 48,457 | 47,623 | 48,177 | 47,620 | 43,933 | -7.7 |
| Others | 40,120 | 53,480 | 48,580 | 57,270 | 52,755 | -7.9 |
| OECD Asia Pacific | 171,754 | 177,251 | 184,940 | 171,940 | 168,620 | -1.9 |
| Australia | 6,921 | 6,200 | 6,258 | 5,772 | 6,730 | 16.6 |
| Japan | 120,073 | 120,501 | 119,372 | 111,308 | 107,286 | -3.6 |
| South Korea | 44,520 | 49,930 | 58,630 | 54,170 | 53,914 | -0.5 |
| Others | 240 | 620 | 680 | 690 | 690 | 0.0 |
| China | 72,800 | 92,020 | 121,280 | 129,730 | 138,371 | 6.7 |
| India | 26,160 | 26,740 | 29,590 | 31,500 | 34,349 | 9.0 |
| Other Asia | 52,100 | 58,750 | 63,690 | 71,390 | 73,607 | 3.1 |
| Brunei | 2,160 | 2,580 | 2,350 | 4,190 | 4,226 | 0.9 |
| Indonesia | 4,460 | 6,570 | 8,970 | 10,700 | 11,072 | 3.5 |
| Malaysia | 12,810 | 13,420 | 14,500 | 14,440 | 15,667 | 8.5 |
| Myanmar | 12,760 | 13,830 | 14,200 | 14,370 | 15,642 | 8.9 |
| Others | 19,910 | 22,350 | 23,670 | 27,690 | 27,000 | -2.5 |
| Latin America | 27,910 | 25,870 | 25,810 | 23,060 | 16,800 | -27.1 |
| Argentina | 11,580 | 12,200 | 10,890 | 7,330 | 6,000 | -18.1 |
| Brazil | 13,380 | 10,720 | 10,810 | 10,220 | 6,300 | -38.4 |
| Venezuela | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Others | 2,950 | 2,950 | 4,110 | 5,510 | 4,500 | -18.3 |
| Middle East | 47,467 | 43,528 | 46,598 | 39,577 | 40,778 | 3.0 |
| IR Iran | 9,246 | 4,731 | 6,000 | 1,270 | 1,270 | 0.0 |
| Iraq | 0 | 1,456 | 4,100 | 6,104 | 7,200 | 18.0 |
| Jordan | 4,460 | 4,560 | 4,030 | 3,170 | 4,000 | 26.2 |
| Kuwait | 4,311 | 4,781 | 4,418 | 4,509 | 5,335 | 18.3 |
| Oman | 1,970 | 1,970 | 2,000 | 2,000 | 300 | -85.0 |
| United Arab Emirates | 27,479 | 26,030 | 26,050 | 22,504 | 22,653 | 0.7 |
| Others | 0 | 0 | 0 | 20 | 20 | 0.0 |
| Africa | 18,230 | 17,320 | 12,980 | 10,140 | 9,474 | -6.6 |
| Egypt | 9,750 | 8,040 | 3,060 | 0 | 0 | 0.0 |
| Morocco | 1,150 | 1,140 | 1,000 | 950 | 860 | -9.5 |
| South Africa | 3,960 | 4,080 | 4,120 | 3,950 | 3,600 | -8.9 |
| Tunisia | 3,270 | 3,680 | 4,100 | 4,440 | 4,234 | -4.6 |
| Others | 100 | 380 | 700 | 800 | 780 | -2.5 |
| Russia | 15,910 | 18,150 | 15,100 | 19,000 | 18,735 | -1.4 |
| Other Eurasia | 48,880 | 53,560 | 57,020 | 62,740 | 56,837 | -9.4 |
| Belarus | 17,200 | 17,600 | 18,810 | 18,750 | 17,366 | -7.4 |
| Kazakhstan | 5,230 | 5,600 | 8,500 | 9,700 | 6,200 | -36.1 |
| Ukraine | 11,100 | 14,100 | 10,600 | 14,200 | 16,796 | 18.3 |
| Others | 15,350 | 16,260 | 19,110 | 20,090 | 16,474 | -18.0 |
| Other Europe | 5,960 | 7,380 | 7,650 | 8,980 | 8,240 | -8.2 |
| Bulgaria | 2,980 | 3,120 | 2,970 | 3,240 | 3,102 | -4.3 |
| Romania | 1,390 | 1,610 | 1,790 | 2,360 | 2,299 | -2.6 |
| Others | 1,590 | 2,650 | 2,890 | 3,380 | 2,839 | -16.0 |
| Total world | 1,138,665 | 1,211,705 | 1,260,631 | 1,285,668 | 1,244,401 | -3.2 |
| <i>of which</i> | | | | | | |
| OPEC | 41,037 | 36,998 | 40,568 | 34,387 | 36,458 | 6.0 |
| OPEC percentage | 3.6 | 3.1 | 3.2 | 2.7 | 2.9 | |
| OECD | 823,248 | 868,387 | 880,913 | 889,551 | 847,210 | -4.8 |

Notes:

Data may include re-exports and natural gas in transit.

Table 9.6
World natural gas demand by country (million s cu m)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|--------------------------|----------------|----------------|------------------|------------------|------------------|-------------------|
| OECD America | 970,747 | 961,696 | 1,043,620 | 1,067,794 | 1,047,482 | -1.9 |
| Canada | 123,746 | 133,063 | 138,127 | 138,950 | 132,413 | -4.7 |
| Chile | 5,323 | 5,396 | 6,164 | 6,229 | 6,233 | 0.1 |
| Mexico | 64,544 | 54,550 | 46,671 | 41,987 | 45,732 | 8.9 |
| United States | 777,134 | 768,687 | 852,658 | 880,628 | 863,104 | -2.0 |
| OECD Europe | 504,607 | 529,623 | 510,908 | 522,494 | 506,756 | -3.0 |
| Austria | 8,746 | 9,494 | 8,982 | 9,267 | 8,823 | -4.8 |
| Belgium | 17,019 | 17,265 | 17,716 | 18,163 | 18,276 | 0.6 |
| France | 42,699 | 42,874 | 40,861 | 41,614 | 38,562 | -7.3 |
| Germany | 89,133 | 92,473 | 85,316 | 91,792 | 89,292 | -2.7 |
| Italy | 70,914 | 75,150 | 72,667 | 74,316 | 70,920 | -4.6 |
| Netherlands | 42,032 | 46,438 | 43,046 | 44,912 | 44,067 | -1.9 |
| Poland | 19,108 | 20,381 | 20,836 | 21,311 | 21,993 | 3.2 |
| Spain | 28,558 | 31,007 | 30,925 | 35,399 | 31,738 | -10.3 |
| Turkey | 46,471 | 53,598 | 49,542 | 44,995 | 47,990 | 6.7 |
| United Kingdom | 81,236 | 79,562 | 80,870 | 79,343 | 73,315 | -7.6 |
| Others | 58,691 | 61,381 | 60,147 | 61,382 | 61,780 | 0.6 |
| OECD Asia Pacific | 221,990 | 224,108 | 230,338 | 232,740 | 231,258 | -0.6 |
| Australia | 39,250 | 41,930 | 42,190 | 53,320 | 53,059 | -0.5 |
| Japan | 122,321 | 121,377 | 121,905 | 114,172 | 112,087 | -1.8 |
| New Zealand | 5,049 | 5,068 | 4,547 | 4,533 | 4,461 | -1.6 |
| South Korea | 45,530 | 45,185 | 52,012 | 50,743 | 51,751 | 2.0 |
| Others | 9,840 | 10,548 | 9,684 | 9,972 | 9,900 | -0.7 |
| China | 205,500 | 236,020 | 276,080 | 299,610 | 320,419 | 6.9 |
| India | 56,480 | 58,490 | 61,200 | 62,570 | 62,828 | 0.4 |
| Other Asia | 247,990 | 252,070 | 257,770 | 264,000 | 247,441 | -6.3 |
| Bangladesh | 26,300 | 26,500 | 27,360 | 30,560 | 30,060 | -1.6 |
| Brunei | 3,100 | 2,880 | 3,120 | 3,040 | 3,237 | 6.5 |
| Indonesia | 41,780 | 40,580 | 40,580 | 39,350 | 36,684 | -6.8 |
| Malaysia | 32,380 | 33,740 | 34,700 | 36,980 | 31,480 | -14.9 |
| Myanmar | 4,000 | 4,310 | 4,760 | 4,420 | 4,320 | -2.3 |
| Pakistan | 43,260 | 45,390 | 47,070 | 48,100 | 46,100 | -4.2 |
| Thailand | 51,660 | 51,230 | 50,640 | 51,790 | 47,500 | -8.3 |
| Vietnam | 9,460 | 8,730 | 8,830 | 9,010 | 8,310 | -7.8 |
| Others | 36,050 | 38,710 | 40,710 | 40,750 | 39,750 | -2.5 |
| Latin America | 152,165 | 156,374 | 148,577 | 146,590 | 130,045 | -11.3 |
| Argentina | 49,730 | 50,350 | 51,150 | 49,120 | 44,023 | -10.4 |
| Bolivia | 3,000 | 3,800 | 3,890 | 4,100 | 3,950 | -3.7 |
| Brazil | 33,910 | 34,390 | 32,440 | 32,400 | 27,000 | -16.7 |
| Colombia | 10,480 | 9,650 | 9,760 | 10,130 | 9,745 | -3.8 |
| Peru | 8,930 | 7,650 | 7,720 | 8,620 | 8,112 | -5.9 |
| Trinidad & Tobago | 18,350 | 20,280 | 18,520 | 18,420 | 17,690 | -4.0 |
| Venezuela | 23,715 | 26,204 | 20,117 | 17,550 | 13,725 | -21.8 |
| Others | 4,050 | 4,050 | 4,980 | 6,250 | 5,800 | -7.2 |

Table 9.6
World natural gas demand by country (million s cu m)

| | 2016 | 2017 | 2018 | 2019 | 2020 | % change 20/19 |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Middle East | 483,264 | 520,487 | 541,946 | 550,834 | 551,206 | 0.1 |
| Bahrain | 16,000 | 16,500 | 16,630 | 18,900 | 19,137 | 1.3 |
| IR Iran | 188,598 | 217,760 | 227,820 | 231,220 | 232,941 | 0.7 |
| Iraq | 9,101 | 9,457 | 13,025 | 17,598 | 18,798 | 6.8 |
| Kuwait | 21,602 | 21,067 | 21,860 | 18,460 | 18,218 | -1.3 |
| Oman | 21,870 | 22,070 | 23,780 | 23,680 | 23,460 | -0.9 |
| Qatar | 38,592 | 38,347 | 42,790 | 42,930 | 41,889 | -2.4 |
| Saudi Arabia | 106,852 | 115,000 | 118,000 | 122,720 | 119,000 | -3.0 |
| United Arab Emirates | 71,799 | 71,596 | 70,030 | 68,226 | 70,763 | 3.7 |
| Others | 8,850 | 8,690 | 8,010 | 7,100 | 7,000 | -1.4 |
| Africa | 134,756 | 137,602 | 145,170 | 153,256 | 152,770 | -0.3 |
| Algeria | 39,546 | 40,373 | 44,429 | 46,809 | 45,226 | -3.4 |
| Angola | 770 | 780 | 785 | 789 | 821 | 4.1 |
| Congo | 846 | 680 | 867 | 580 | 405 | -30.2 |
| Egypt | 51,180 | 58,780 | 62,780 | 63,840 | 62,417 | -2.2 |
| Equatorial Guinea | 1,592 | 1,577 | 1,523 | 1,477 | 1,876 | 27.0 |
| Gabon | 551 | 407 | 530 | 635 | 665 | 4.7 |
| Libya | 5,893 | 5,250 | 5,040 | 6,939 | 8,554 | 23.3 |
| Nigeria | 18,168 | 12,795 | 10,756 | 12,705 | 14,361 | 13.0 |
| South Africa | 4,960 | 4,880 | 5,080 | 5,050 | 4,750 | -5.9 |
| Tunisia | 4,670 | 4,980 | 5,350 | 5,570 | 4,894 | -12.1 |
| Others | 6,580 | 7,100 | 8,030 | 8,860 | 8,800 | -0.7 |
| Russia | 407,310 | 435,530 | 445,660 | 449,280 | 443,000 | -1.4 |
| Other Eurasia | 162,130 | 168,670 | 175,640 | 182,600 | 177,239 | -2.9 |
| Azerbaijan | 10,180 | 9,420 | 10,540 | 12,530 | 12,458 | -0.6 |
| Kazakhstan | 14,450 | 17,180 | 17,990 | 18,360 | 17,237 | -6.1 |
| Turkmenistan | 42,070 | 42,800 | 48,040 | 49,330 | 48,888 | -0.9 |
| Ukraine | 30,520 | 33,950 | 30,930 | 34,340 | 35,517 | 3.4 |
| Uzbekistan | 41,520 | 41,680 | 42,270 | 42,080 | 40,737 | -3.2 |
| Others | 23,390 | 23,640 | 25,870 | 25,960 | 22,402 | -13.7 |
| Other Europe | 16960 | 18430 | 18780 | 19300 | 18110 | -6.2 |
| Bulgaria | 3,070 | 3,190 | 2,980 | 2,770 | 2,300 | -17.0 |
| Romania | 10,990 | 11,410 | 11,910 | 12,310 | 11,824 | -3.9 |
| Others | 2,900 | 3,830 | 3,890 | 4,220 | 3,986 | -5.5 |
| Total world | 3,563,899 | 3,699,100 | 3,855,688 | 3,951,068 | 3,888,554 | -1.6 |
| <i>of which</i> | | | | | | |
| OPEC | 489,033 | 522,947 | 534,782 | 545,710 | 545,354 | -0.1 |
| <i>OPEC percentage</i> | 13.7 | 14.1 | 13.9 | 13.8 | 14.0 | |
| OECD | 1,697,344 | 1,715,427 | 1,784,866 | 1,823,028 | 1,785,496 | -2.1 |

General notes

General Notes

Definitions

Barrels per calendar day (b/cd): the total number of barrels processed in a refinery within 24 hours, reflecting all operational limitations (eg routine inspections, maintenance, repairs etc).

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.

Biofuels: transportation fuels derived from biomass include fuel ethanol and biodiesel, whereby these fuels are usually blended with petroleum fuels. Ethanol is an alcohol made by fermenting starch or sugar, notably from (corn) grains and sugar cane. Biodiesel is made primarily from vegetable oils (eg palm oil, soybean oil) or from other oily sources (such as waste cooking grease).

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

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

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

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

Distillates: middle distillate type 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.

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.

Exports of petroleum products: excludes international air and marine bunkers.

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.

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 rates. 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.

Kerosene: medium hydrocarbon distillates in the 150° to 280° C distillation range; 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.

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 plant, own consumption, as well as any other losses caused by spillage, evaporation, etc.

Non-conventional oil: includes synthetic crude oil from tar sands, oil shale, etc, liquids derived from coal liquefaction(CTL) and gas liquefaction (GTL), hydrogen and emulsified oils (eg Orimulsion), non-hydrocarbon compounds added to or blended with a product to modify fuel properties (octane, cetane, cold properties, etc) of substances like alcohols (methanol, ethanol), ethers (such as MTBE (methyl tertiary butyl ether), ETBE (ethyl tertiary butyl ether), TAME (tertiary amyl methyl ether) or esters (eg rapeseed or dimethylester, etc) and chemical compounds such as TML (tetramethyl lead) or TEL (tetraethyl lead) and detergents.

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

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

Oil supply: consists of crude oil natural gas liquids and non-conventional oil production.

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); Djeno (Congo, as of June 2018), Oriente (Ecuador, as of October 19, 2007); Zafiro (Equatorial Guinea, as of May 25, 2017); Rabi Light (Gabon, as of July 1, 2016); Iran Heavy (IR Iran); Basrah Light (Iraq); Kuwait Export (Kuwait); Es Sider (Libya); Bonny Light (Nigeria); Qatar Marine (Qatar); Arab Light (Saudi Arabia); Murban (United Arab Emirates); and Merey (Venezuela).

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

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.

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*).

Refinery capacity (charge): the input (feed) capacity of refinery processing facilities.

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

Refinery throughput: oil input into an atmospheric distillation unit.

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. It is used for the generation of electric power, space heating, vessel bunkering and various industrial purposes.

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.

Country groupings

(OPEC Member Countries are shown in bold.)

OECD Americas: Chile, Canada, Mexico and United States.

OECD Europe: Austria, Belgium, Czech Republic, Denmark (including Faroe Islands), Estonia, Finland, France (including Andorra and Monaco), Germany, Greece, Hungary, Iceland, Ireland, Italy (including San Marino and the Holy See), Latvia, Lithuania, Luxembourg, Netherlands, Norway (including Svalbard and Jan Mayen Islands), Poland, Portugal, Slovakia, Slovenia, Spain (including Canary Islands), Sweden, Switzerland (including Liechtenstein), Turkey and United Kingdom.

OECD Asia Pacific: Australia, Japan, Korea (Republic of), New Zealand and Other OECD Asia Pacific.

China: People's Republic of China.

India: India

Other Asia: Afghanistan, American Samoa, Bangladesh, Bhutan, Brunei, Cambodia, Canton and Enderbury Islands, China Hong Kong Special Administrative Regions (SAR), China Macau SAR, Cook Islands, Fiji, French Polynesia, Guam, Indonesia, Kiribati, Korea (Democratic People's Republic of), Lao People's Democratic Republic, Malaysia, Maldives, Micronesia Federated States of, Mongolia, Myanmar, Nauru,

General Notes

Nepal, New Caledonia, Niue, Pakistan, Papua New Guinea, Philippines, Samoa, Singapore, Solomon Islands, Sri Lanka, Thailand, Tonga, Tuvalu, Vanuatu, Vietnam, and Other Asia.

Latin America: Antigua, Argentina, Bahamas, Barbados, Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Federation of St Kitts and Nevis, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Nicaragua, Panama (including Panama Canal Zone), Paraguay, Peru, St Lucia, St Vincent, Suriname, Trinidad & Tobago, Uruguay, **Venezuela** and Other Latin America.

Middle East: Bahrain, **Islamic Republic of Iran, Iraq, Jordan, Kuwait,** Lebanon, Oman, Qatar, **Saudi Arabia**, Syrian Arab Republic, **United Arab Emirates (UAE)** (Abu Dhabi, Ajman, Dubai, Fujairah, Ras al-Khaimah, Sharjah, Umm al-Qaiwain) and 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**, Congo (Democratic Republic of the), Djibouti, Egypt, **Equatorial Guinea**, Eritrea, Eswatini, Ethiopia, **Gabon**, Gambia (The), Ghana, Guinea, Guinea-Bissau, Côte d'Ivoire, Kenya, Lesotho, Liberia, **Libya**, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, **Nigeria**, Reunion, Rwanda, St Helena, São Tomé and Príncipe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudans (including South Sudan and Sudan), Tanzania, Togo, Tunisia, Uganda, Western Sahara, Zambia and Zimbabwe.

Russia: Russian Federation.

Other Eurasia: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Ukraine and Uzbekistan.

Other Europe: Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Gibraltar, Malta, Montenegro, the Republic of North Macedonia, Romania and Serbia.

Organization of the Petroleum Exporting Countries (OPEC): Algeria (1969), Angola (2007), Congo (2018), Equatorial Guinea (2017), Gabon (rejoined OPEC in 2016), the Islamic Republic of Iran (1960), Iraq (1960), Kuwait (1960), Libya (1962), Nigeria (1971), Saudi Arabia (1960), United Arab Emirates (1967), Venezuela (1960).

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

Abbreviations

Symbols:

na Not available/not applicable.

Currencies:

| | | | | | |
|-----|--------------------|-----|--|-----|-----------------------------|
| \$ | US dollar | XAF | Central African Franc (Congo, Gabon and Equatorial Guinea) | LYD | Libyan dinar |
| € | Euro | IRR | Iranian rial | NGN | Nigerian naira |
| DZD | Algerian dinar | IQD | Iraqi dinar | SAR | Saudi Arabian riyal |
| AOA | Angolan new kwanza | KWD | Kuwaiti dinar | AED | United Arab Emirates dirham |
| | | | | VES | Bolívar soberano |

Miscellaneous:

| | | | | | |
|------|-----------------------------|-----|-------------------------|--------|-----------------------|
| b | barrel(s) | dwt | deadweight tonnage | mb | million barrels |
| b/d | barrels per day | fob | free on board | NCV | net calorific value |
| b/cd | barrels per calendar day | ft | feet | NCF | non-conventional |
| b/sd | barrels per stream day | GDP | gross domestic product | NOC | national oil company |
| b/yr | barrels per year | GTL | gas to liquids | NGLs | natural gas liquids |
| bn | billion | LHS | left-hand side | RHS | right-hand side |
| bn b | billion barrels | LNG | liquefied natural gas | s cu m | standard cubic metres |
| cif | cost, insurance and freight | LPG | liquefied petroleum gas | t | tonne |
| cu m | cubic metres | m | million | | |

Rounding: In all tables totals may not add up due to independent rounding.

Balance of import-export tables may not match due to independent assessments and usage of various secondary sources.

Selected oil companies

| | | | |
|-----------------|--|-------------------|--|
| ADCO | Abu Dhabi Company for Onshore Oil Operations | NOC | National Oil Corporation (Libya) |
| ADMA | Abu Dhabi Marine Areas | NODCO | National Oil Distribution Company (Qatar) |
| ADMA-OPCO | Abu Dhabi Marine Operating Company | NPHR | New Port Harcourt Refinery |
| ADNOC | Abu Dhabi National Oil Company | Oasis | Oasis Oil Company of the Libya, Inc |
| ADOC | Abu Dhabi Oil Company | Occidental | Occidental Petroleum Corporation |
| Agip | Agip SpA | OMV | OMV Aktiengesellschaft |
| Agoco | Arabian Gulf Oil Company (Libya) | PDVSA | Petroleos de Venezuela SA |
| Amerada Hess | Amerada Hess Corporation | Perenco | |
| AOC | Arabian Oil Company | Pertamina | Perusahaan Pertambangan Minyak Dan Gas Bumi Negara |
| Aramco | Saudi Arabian Oil Company (Saudi Aramco) | Petroecuador | National oil company of Ecuador |
| Arco | Atlantic Richfield Company | Petroindustrial | Refinery operations company of Ecuador |
| Asameria | Asameria Oil | Petromer Trend | Petromer Trend Corporation |
| Ashland | Ashland Oil | Petromin | General Petroleum and Mineral Organization of Saudi Arabia |
| BP | BP plc | Petroproduccion | Exploration and production oil company of Ecuador |
| Braspetro | Petrobras Internacional SA | Phillips | Phillips Petroleum Company |
| Brega Marketing | Brega Petroleum Marketing Company | PPMC | Pipeline and Products Marketing Company (Nigeria) |
| Buttes | Buttes Gas & Oil Company | QGPC | Qatar General Petroleum Corporation (now Qatar Petroleum) |
| Calasiatic | Calasiatic Petroleum Company | Royal Dutch/Shell | Royal Dutch Petroleum Company, The Netherlands, and Shell Transport and Trading Co, UK |
| Caltex (PT) | PT Caltex Pacific Indonesia | SNPC | Société Nationale des Pétroles du Congo |
| ChevronTexaco | ChevronTexaco Corporation | Sonangol | Sociedade Nacional de Combustíveis de Angola |
| Conoco | Continental Oil Company | Sonatrach | Société Nationale de Transport et de Commercialisation des Hydrocarbures |
| Corpoven | Corpoven SA | Stancal | Standard Oil Company of California |
| DPC | Dubai Petroleum Company | PT Stanvac | PT Stanvac Indonesia |
| EGPC | Egyptian General Petroleum Corporation | Tenneco | Tenneco Incorporated |
| ExxonMobil | ExxonMobil Corporation | Tesoro | Tesoro Indonesia Petroleum Corporation |
| GASCO | Abu Dhabi Onshore Gas Company | Topco | Texas Overseas Petroleum Company |
| Getty | Getty Oil Corporation | Total | Total |
| GOC | Gabon Oil Company | Union Oil | Union Oil Company of California |
| Gulf | Gulf Oil Corporation | VOO | Veba Oil Operations (Libya) |
| Hispanoil | Hispanica de Petroleos SA | Waha Oil | Waha Oil Company (Libya) |
| INOC | Iraq National Oil Company | Wintershall | Wintershall AG |
| Inpex | Indonesia Petroleum Ltd | WRPC | Warri Refinery & Petrochemical Company |
| JORC | Jeddah Oil Refinery Company | Zadco | Zakum Development Company |
| KRPC | Kaduna Refinery & Petrochemical Company | ZOC | Zueitina Oil Company (Libya) |
| KNPC | Kuwait National Petroleum Company KSC | | |
| KOC | Kuwait Oil Company KSC | | |
| Lagoven | Lagoven SA | | |
| Maraven | Maraven SA | | |
| Maxus | Maxus Energy Corporation | | |
| Mobil | Mobil Oil Corporation | | |
| NIGC | National Iranian Gas Company | | |
| NIIOC | National Iranian Oil Company | | |
| NNPC | Nigerian National Petroleum Corporation | | |

Major sources

Direct communications to the OPEC Secretariat
 American Petroleum Institute (API)
 Arab Oil & Gas
 Asia Pacific Economic Cooperation (APEC)
 Baker Hughes
 Bloomberg
 BP Statistical Review of World Energy
 Brazil: Ministry of Mines and Energy
 Brazil: National Agency of Petroleum, Natural Gas and Biofuels
 Business Monitor International
 Cambridge Energy Research Associates
 Canadian Association of Petroleum Producers
 Canada: National Energy Board

Canadian Energy Research Institute
 Cedigaz, Natural Gas in the World
 Centre for Global Energy Studies
 China: National Bureau of Statistics
 China: National Petroleum Corporation
 Central Bank reports
 Clarkson Research Studies: The Liquid Gas Carrier Register
 De Golyer & MacNaughton: Twentieth Century Petroleum Statistics
 Eastern Bloc Research, CIS and East European Energy Databook
 Economist Intelligence Unit (EIU): country reports and database
 Energy Detente
 Energy Information Administration, US Department of Energy
 Eurostat

General Notes

Fearnleys, Annual Review
 Financial Times: Oil and Gas International Yearbook
 Galbraith's Weekly Tanker Fixtures Report
 Gas Exporting Countries Forum (GECF)
 Haver Analytics
 IHS Global Insight
 IHS Cambridge Energy Research Associates (IHS CERA)
 India: Ministry of Petroleum & Natural Gas
 Institute Français du Pétrole (IFP): The World Gas Industry
 Institute of Energy Economics, Japan (IEEJ)
 International Energy Agency (IEA): Energy Prices and Taxes;
 Energy Statistics and Balances; Monthly Oil/Gas Data Services
 IEA Monthly Oil Data Service (MODS)
 International Monetary Fund (IMF): International Financial
 Statistics, World Economic Outlook Database, Direction of Trade
 Statistics
 Japan: Ministry of Economy, Trade and Industry
 Joint Organizations Data Initiative
 KPLER
 Middle East Economic Survey
 National Energy Administration of the People's Republic of China
 (NEA)
 National and international oil companies' reports
 National statistical publications
 National Westminster Bank
 Norway: Ministry of Petroleum and Energy
 NYMEX
 OECD: Trade by Commodities
 OECD/IEA: Energy Balances of non-OECD countries
 OECD/IEA: Energy Balances of OECD countries
 OECD/IEA: Energy Statistics of non-OECD countries
 OECD/IEA: Energy Statistics of OECD countries

OECD/IEA: Quarterly Energy Prices and Taxes
 OECD: International Trade by Commodities Statistics
 Oil & Gas Journal
 Oil and Energy Trends: Annual Statistical Review
 Oil Bulletin Petrolier
 Organización Latinoamericana de Energía (OLADE)
 Organization of Arab Petroleum Exporting Countries (OAPEC)
 Petrobras
 Petroleum Argus
 Petroleum Economist
 Petroleum Intelligence Weekly (PIW)
 Petrologistics
 Petrostrategies
 Platts
 PIRA
 Port of Fujairah
 Port of Rotterdam
 Reuters
 Rystad Energy
 Secretariat's estimates
 Simpson Spence & Young: World Oil Tanker Trends
 Society of Petroleum Engineers (SPE): Petroleum Resources
 Management System
 United Nations: Energy Statistics Yearbook; Monthly Bulletin of
 Statistics
 United Nations: National Account Statistics
 Wood Mackenzie
 World Bank: World Development Indicators
 World LPG Gas Association
 World Oil
 World Petroleum Trends

Conversion factors

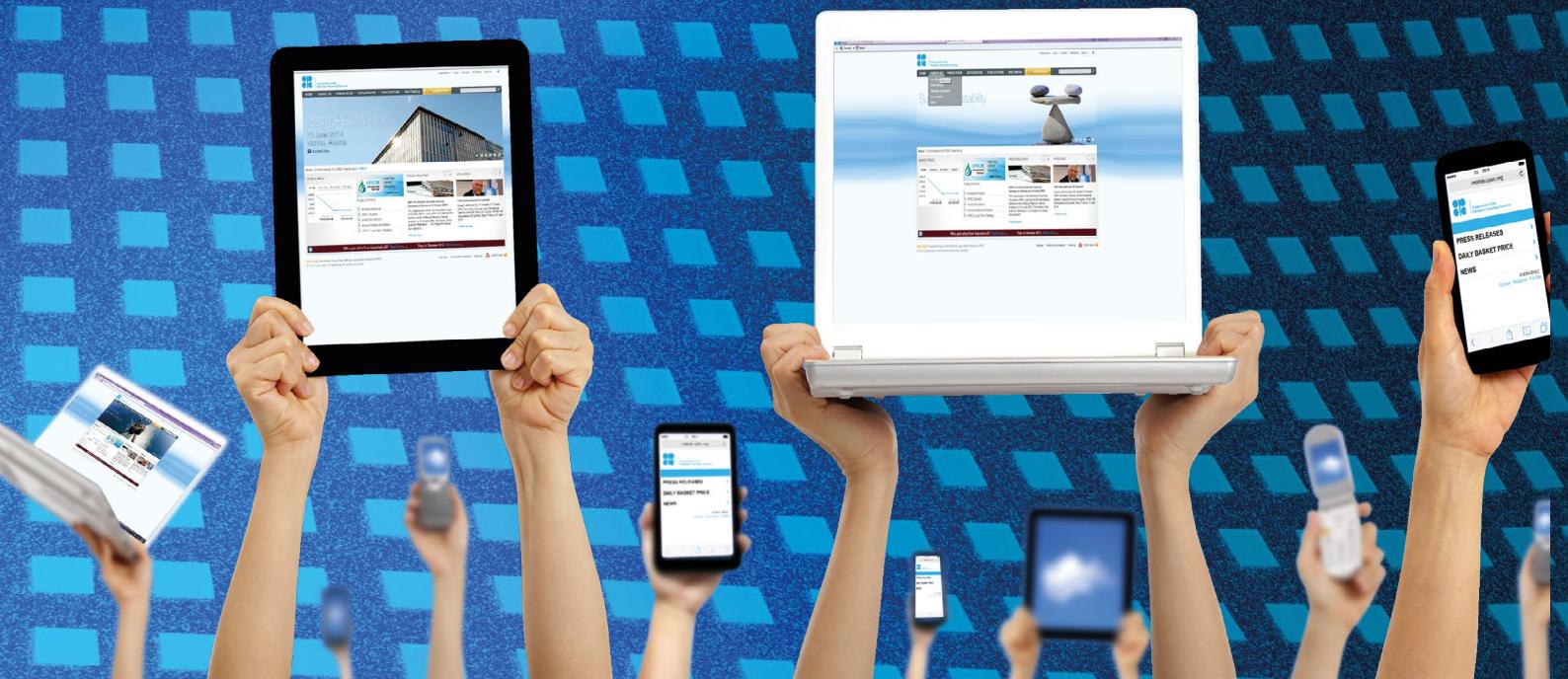
Crude oil

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

| By country | (b/tonne) | Petroleum products | (b/tonne) |
|----------------------|--------------|--------------------|-----------|
| Algeria | 8.052 | Gasoline | 8.4998 |
| Angola | 7.233 | Kerosene | 7.7652 |
| Congo | 7.157 | Distillates | 7.2296 |
| Equatorial Guinea | 7.189 | Residuals | 6.6208 |
| Gabon | 7.442 | | |
| IR Iran | 7.382 | | |
| Iraq | 7.379 | | |
| Kuwait | 7.276 | | |
| Libya | 7.537 | | |
| Nigeria | 7.368 | | |
| Saudi Arabia | 7.323 | | |
| United Arab Emirates | 7.565 | | |
| Venezuela | 6.656 | | |
| OPEC | 7.368 | | |

Visit our website

www.opec.org



Visit our website

www.opec.org



2010 2011 2012 2013 2014 2015





OPEC
Helferstorferstrasse 17, A-1010 Vienna, Austria
www.opec.org