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Mohammad Sanusi Barkindo, OPEC Secretary General.

It is my great pleasure to introduce this 55th edition of the **Annual Statistical Bulletin** (ASB). First published in 1965, the ASB is one of OPEC's flagship publications. Over the years, it has risen in stature as a go-to resource for industry stakeholders across the value chain.

The wise words of former Hewlett Packard chief executive officer Carly Fiorina go a long way in explaining what we are trying to achieve through this important publication. She said, **"The goal is to turn data into information and information into insight."**

So simple, yet so profound. And indeed, policymakers, energy analysts, academics and industry leaders have increasingly come to rely on the insights gleaned from the pages of the ASB as a trusted reference tool for vital data on the global oil and gas industry.

Through the ASB and indeed all of its publications and communications, OPEC is dedicated to enhancing **data transparency** through wider dissemination of high-quality, timely oil and gas data. This underpins OPEC's overarching goal of **fostering sustainable oil market stability for the benefit of producers, consumers and the global economy.**

The ASB provides key statistical data for all of OPEC's 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. It also provides **valuable data related to non-OPEC oil producing countries** while presenting data on exports, imports, production, refineries and shipping.

In recent years, we have expanded the distribution channels of the ASB by leveraging new and emerging technologies. In addition to the print edition, we offer a PDF version and an interactive online version that provide historical time-series data going back to 1960. A SmartApp version is also available for iOS and Android devices allowing access to valuable data anywhere, any time.

The publication of this year's ASB was only made possible through many hours of intense and detailed work put forth by **OPEC's Data Services Department in close collaboration with our Member Countries.** These efforts have once again yielded fruit in a publication that is of the highest quality and timeliness, thereby providing great value to its readership. I would like to congratulate the staff at the OPEC Secretariat and our counterparts in the Member Countries for once again achieving an excellent product of which we can all be proud.

A handwritten signature in black ink, appearing to read "S. Barkindo".

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.

This year's edition of the ASB comprises data up to the end of 2019, with the following highlights:

- ▶ Total world crude oil production declined in 2019 by 0.56 million barrels/day (mb/d), or 0.7 percent, as compared to 2018, to average 75.26 mb/d, following a historical high during 2018. OPEC crude oil production declined sharply year-on-year by 1.86 mb/d, or 6.0 percent, while crude production by non-OPEC countries grew by 1.30 mb/d, or 2.9 percent. In 2019, the top three crude oil producing countries were the United States (12.23 mb/d), Russia (10.63 mb/d) and Saudi Arabia (9.81 mb/d).
- ▶ With an average of 99.67 mb/d in 2019, world oil demand grew by 0.9 percent y-o-y, with the largest increases recorded for the Asia and Pacific region (particularly China and India), Africa and the Middle East. Following four consecutive years of growth, OECD oil demand fell slightly in 2019, while oil demand in OPEC Member Countries returned to growth in 2019 after declining slightly during 2018. Distillates and gasoline accounted for around 55.0 percent of 2019 world oil demand with an upward trend. Residual fuel oil requirements were about 7.0 percent of total oil demand in 2019.
- ▶ OPEC Member Countries exported an average of 22.48 mb/d of crude oil in 2019, a sharp decrease of about 1.80 mb/d, or 7.4 percent, compared to 2018. Following the pattern of previous years, the bulk of crude oil from OPEC Member Countries — 15.73 mb/d or 70.0 percent — was exported to the Asia and Pacific region. Considerable volumes of crude oil — about 4.01 mb/d — were also exported to Europe in 2019, which represents a decline compared with 4.57 mb/d recorded in 2018. North America imported 1.22 mb/d of crude oil from OPEC Member Countries, which was about 1.41 mb/d, or 53.6 percent, less than the 2018 volumes. Exports of petroleum products from OPEC Member Countries averaged 3.88 mb/d during 2019, down by around 0.78 mb/d, or 16.8 percent, compared to 2018. Imports of petroleum products by OPEC Member Countries averaged 1.68 mb/d in 2019, roughly 0.74 mb/d, or 30.5 percent, lower than in 2018.
- ▶ World proven crude oil reserves stood at 1,551 billion barrels (bn b) at the end of 2019, increasing by 3.6 percent from the level of 1,497 bn b recorded at the end of 2018. Proven crude oil reserves in OPEC Member Countries increased by 3.7 percent to 1,227 bn b at the end of 2019, following a slight decline during 2018. At the end of 2019, world proven natural gas reserves rose by 1.6 percent to approximately 206.2 trillion standard cubic metres (tr s cu m). Proven natural gas reserves in OPEC Member Countries stood at 73.14 tr s cu m at the end of 2019, up 0.6 percent from the level at the end of 2018.
- ▶ World refinery capacity expanded by 1.41 million barrels/calendar day (mb/cd) to stand at 100.98 mb/cd during 2019. The Asia and Pacific region, particularly China, as well as Western Europe and the Middle East, contributed the most in terms of refining capacity additions. Refinery capacity in the OECD increased in 2019, as compared to 2018, because of capacity expansions in North America and Europe. Globally, refinery throughput rose by 0.5 percent to reach 85.78 mb/d in 2019, with gains in the Asia and Pacific region, being partly offset by declines in Latin America, Europe, the Middle East and Africa.
- ▶ The OPEC Reference Basket averaged \$64.04/b in nominal terms during 2019, down from \$69.78/b in 2018, a decrease of \$5.74/b, or 8.2 percent. The volatility level was \$4.11/b, or 6.4 percent, relative to the yearly average.

SECTION 1

Summary

Table 1.1
OPEC Members' facts and figures, 2019

	Algeria	Angola	Congo	Equatorial Guinea	Gabon	IR Iran	Iraq	Kuwait	Libya	Nigeria	Saudi Arabia	United Arab Emirates	Venezuela	OPEC
Population <i>million inhabitants</i>	43.41	30.18	5.54	1.36	2.08	83.27	39.13	4.42	6.58	208.28	34.22	9.50	32.25	500.22
Land area ¹ <i>1,000 sq km</i>	2,382	1,248	342	28	268	1,648	438	18	1,760	924	2,150	84	916	12,205
GDP per capita \$	3,975	2,709	2,089	8,928	8,275	5,704	6,719	30,280	5,019	2,284	23,174	44,313	2,175	5,917
GDP at market prices <i>million \$</i>	172,551	81,759	11,576	12,142	17,212	474,974	262,912	133,843	33,018	475,820	792,967	421,142	70,140	2,960,056
GDP growth <i>real PPP %</i>	1.0	-0.5	3.0	-2.5	2.5	-5.0	3.5	1.8	4.0	2.2	0.3	1.8	-22.0	-1.0
Value of exports <i>million \$</i>	38,059	33,755	8,775	4,356	6,467	69,331	82,309	72,079	25,732	64,787	261,530	389,372	23,659	1,080,212
Value of imports <i>million \$</i>	49,572	11,041	4,605	2,454	2,950	59,123	46,262	35,846	16,543	58,750	144,335	288,398	8,180	728,058
Current account balance <i>million \$</i>	-18,813	4,839	768	-315	-278	1,907	15,763	13,287	4,431	-17,016	46,949	29,645	1,439	82,605
Value of petroleum exports <i>million \$</i>	22,674	32,246	7,072	2,644	4,767	19,233	80,027	52,433	24,188	45,106	202,370	49,636	22,492	564,889
Proven crude oil reserves <i>million barrels</i>	12,200	7,783	2,882	1,100	2,000	208,600	145,019	101,500	48,363	36,890	258,600	97,800	303,806	1,226,543
Natural gas reserves <i>billion cu m</i>	4,504	343	284	39	26	33,988	3,714	1,784	1,505	5,761	9,423	6,091	5,674	73,136
Crude oil production <i>1,000 b/d</i>	1,023.2	1,372.8	329.2	109.6	217.8	2,356.2	4,576.1	2,677.7	1,096.6	1,737.4	9,808.2	3,057.9	1,012.6	29,375.3
Natural gas marketed production <i>million cu m</i>	89,583.4	10,544.1	580.3	6,234.7	464.0	253,773.1	11,544.1	13,952.0	14,189.7	47,827.9	117,000.0	55,096.5	20,559.0	641,350.9
Refinery capacity <i>1,000 b/cd</i>	656.8	80.3	21.0	na	24.0	2,201.0	761.8	736.0	380.0	446.0	2,896.0	1,124.0	1,890.6	11,217.6
Refinery throughput <i>1,000 b/d</i>	659.5	54.2	16.9	na	13.7	1,718.1	639.4	660.0	89.5	8.7	2,483.6	1,036.8	781.4	8,161.9
Output of petroleum products <i>1,000 b/d</i>	659.6	54.9	16.2	na	11.5	1,705.4	632.5	886.3	59.4	8.2	2,586.1	1,005.4	742.9	8,368.3
Oil demand <i>1,000 b/d</i>	447.6	122.2	8.6	4.9	38.8	1,837.8	716.3	460.4	214.0	469.8	3,199.1	899.3	366.6	8,785.3
Crude oil exports ² <i>1,000 b/d</i>	584.2	1,318.7	309.4	110.2	206.9	651.1	3,968.2	1,986.3	1,035.7	2,008.2	7,038.1	2,414.2	846.6	22,477.8
Exports of petroleum products <i>1,000 b/d</i>	506.2	16.8	5.9	-	7.5	284.6	106.6	637.1	21.0	20.1	1,300.3	881.8	94.7	3,882.7
Imports of petroleum products <i>1,000 b/d</i>	43.0	64.9	0.4	4.7	7.9	97.5	95.8	14.0	144.1	459.6	319.4	265.9	167.1	1,684.4
Natural gas exports <i>million cu m</i>	42,497.4	582.3	-	4,679.1	-	8,800.0	-	-	9,100.0	35,953.1	-	9374.2	-	110,986.0

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.

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
	51/	52/	53/	54/	55/	56/	57/	58/
Algeria	nd	nd	1,039	1,039	1,025	1,025	1,013	816
Angola	nd	nd	1,673	1,673	1,481	1,481	1,481	1,180
Congo	—	—	—	—	315	315	311	251
Equatorial Guinea	—	—	—	178	123	123	122	98
Gabon	—	—	193	193	181	181	179	144
IR Iran	nd	nd	3,797	3,797	—	—	—	—
Iraq	—	nd	4,351	4,351	4,512	4,512	4,462	3,592
Kuwait	nd	nd	2,707	2,707	2,724	2,724	2,669	2,168
Libya	nd	nd	—	—	—	—	—	—
Nigeria	nd	nd	—	—	1,685	1,774	1,753	1,412
Saudi Arabia	nd	nd	10,058	10,058	10,311	10,311	10,144	8,492
United Arab Emirates	nd	nd	2,874	2,874	3,072	3,072	3,012	2,446
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
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.

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SECTION 2

Macro-economics

Table 2.1
OPEC Members' population

(million inhabitants)

	2015	2016	2017	2018	2019	change 19/18
Algeria	39.963	40.836	41.721	42.578	43.411	0.833
Angola	26.681	27.503	28.360	29.250	30.176	0.925
Congo	4.996	5.126	5.261	5.400	5.543	0.143
Equatorial Guinea	1.175	1.221	1.268	1.314	1.360	0.046
Gabon	1.930	1.980	2.025	2.053	2.080	0.027
IR Iran	79.360	80.277	81.423	82.360	83.269	0.909
Iraq	35.213	36.169	37.140	38.124	39.128	1.004
Kuwait	3.744	3.925	4.083	4.227	4.420	0.193
Libya	6.322	6.385	6.448	6.513	6.578	0.065
Nigeria	187.146	192.414	197.697	202.988	208.282	5.294
Saudi Arabia	31.521	31.788	32.552	33.414	34.218	0.805
United Arab Emirates	9.104	9.121	9.304	9.367	9.504	0.137
Venezuela	30.620	31.028	31.431	31.839	32.253	0.414
OPEC	457.775	467.774	478.712	489.427	500.221	10.795

Table 2.2
OPEC Members' GDP at current market prices

(m \$)

	2015	2016	2017	2018	2019
Algeria	166,355	160,002	167,408	173,723	172,551
Angola	103,099	101,124	122,124	105,751	81,759
Congo	8,554	7,787	8,932	11,664	11,576
Equatorial Guinea	13,180	11,233	12,287	13,734	12,142
Gabon	14,385	14,020	14,620	17,210	17,212
IR Iran	385,874	418,977	446,184	462,134	474,974
Iraq	166,822	166,603	187,534	215,626	262,912
Kuwait	114,534	109,407	120,688	140,672	133,843
Libya	17,194	18,539	30,557	40,951	33,018
Nigeria	487,093	400,365	375,745	421,742	475,820
Saudi Arabia	654,270	644,936	686,739	782,480	792,967
United Arab Emirates	358,135	357,045	385,606	422,215	421,142
Venezuela	323,595	279,249	143,841	98,437	70,140
OPEC	2,813,090	2,689,286	2,702,265	2,906,339	2,960,056

Table 2.3

OPEC Members' real GDP growth rates PPP based weights

[%]

	2015	2016	2017	2018	2019
Algeria	3.7	3.2	1.3	1.4	1.0
Angola	0.9	-2.6	-0.2	-1.2	-0.5
Congo	2.6	-2.8	-1.8	1.6	3.0
Equatorial Guinea	-9.1	-8.8	-5.7	-5.8	-2.5
Gabon	3.9	2.1	0.5	0.8	2.5
IR Iran	-1.6	12.5	3.7	-5.4	-5.0
Iraq	2.5	15.2	-2.5	-0.6	3.5
Kuwait	0.6	2.9	-4.7	1.2	1.8
Libya	-13.0	-7.4	64.0	17.9	4.0
Nigeria	2.7	-1.6	0.8	1.9	2.2
Saudi Arabia	4.1	1.7	-0.7	2.4	0.3
United Arab Emirates	5.1	3.1	0.5	1.7	1.8
Venezuela	-6.2	-17.0	-15.7	-19.6	-22.0
OPEC	1.3	3.0	-	-0.9	-1.0

Notes:

Aggregates were compiled on the basis of 2011 GDP weights using 2011 purchasing power parities (PPP).

Table 2.4

OPEC Members' values of exports

[m \$]

	2015	2016	2017	2018	2019
Algeria	38,547	33,396	37,937	44,514	38,059
Angola	33,402	28,364	33,414	41,851	33,755
Congo	6,955	5,803	7,396	9,733	8,775
Equatorial Guinea	7,071	5,751	5,024	5,047	4,356
Gabon	5,607	4,519	5,668	6,510	6,467
IR Iran	76,185	93,868	109,700	105,720	69,331
Iraq	57,577	46,830	63,604	92,831	82,309
Kuwait	61,580	52,113	61,788	79,789	72,079
Libya	11,392	9,446	18,865	29,830	25,732
Nigeria	52,525	37,301	49,492	63,914	64,787
Saudi Arabia	203,537	183,607	221,862	294,387	261,530
United Arab Emirates	361,253	360,626	384,044	392,863	389,372
Venezuela	37,236	27,614	33,285	37,786	23,659
OPEC	952,865	889,239	1,032,078	1,204,776	1,080,212

Notes:

All figures fob.

Table 2.5

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

	2015	2016	2017	2018	2019
Algeria	21,742	18,643	22,355	26,082	22,674
Angola	31,929	26,022	32,026	37,801	32,246
Congo	3,988	3,444	4,763	7,468	7,072
Equatorial Guinea	3,392	2,447	2,461	3,150	2,644
Gabon	3,740	3,128	3,596	4,419	4,767
IR Iran	27,308	41,123	52,728	60,519	19,233
Iraq	49,211	43,684	59,730	84,218	80,027
Kuwait	47,431	40,600	48,928	64,582	52,433
Libya	10,973	9,313	15,014	25,386	24,188
Nigeria	41,168	27,295	37,983	54,513	45,106
Saudi Arabia	152,910	136,194	170,241	231,585	202,370
United Arab Emirates	53,833	40,436	50,647	57,890	49,636
Venezuela	35,136	25,942	31,497	34,657	22,492
OPEC	482,761	418,270	531,969	692,269	564,889

Table 2.6

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

	2015	2016	2017	2018	2019
Algeria	60,758	56,086	55,609	56,184	49,572
Angola	20,693	13,041	14,463	15,798	11,041
Congo	7,747	6,788	4,238	4,778	4,605
Equatorial Guinea	3,689	3,184	2,680	2,906	2,454
Gabon	3,376	2,651	2,823	2,940	2,950
IR Iran	74,373	87,191	111,557	73,627	59,123
Iraq	58,517	44,116	48,506	56,876	46,262
Kuwait	31,910	30,830	33,594	35,863	35,846
Libya	16,429	8,667	10,556	13,786	16,543
Nigeria	52,525	46,552	49,508	57,229	58,750
Saudi Arabia	174,676	140,170	134,519	137,065	144,335
United Arab Emirates	266,276	270,442	290,783	281,536	288,398
Venezuela	36,496	17,977	13,364	13,505	8,180
OPEC	807,465	727,695	772,200	752,093	728,058

Notes:

All figures cif.

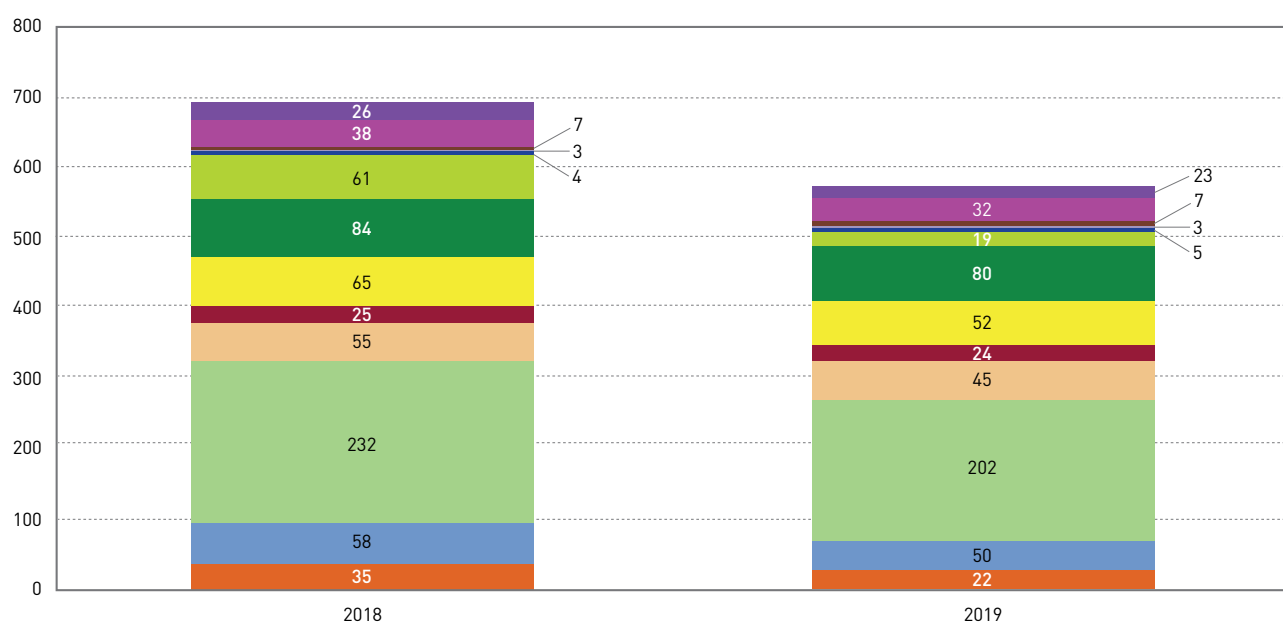
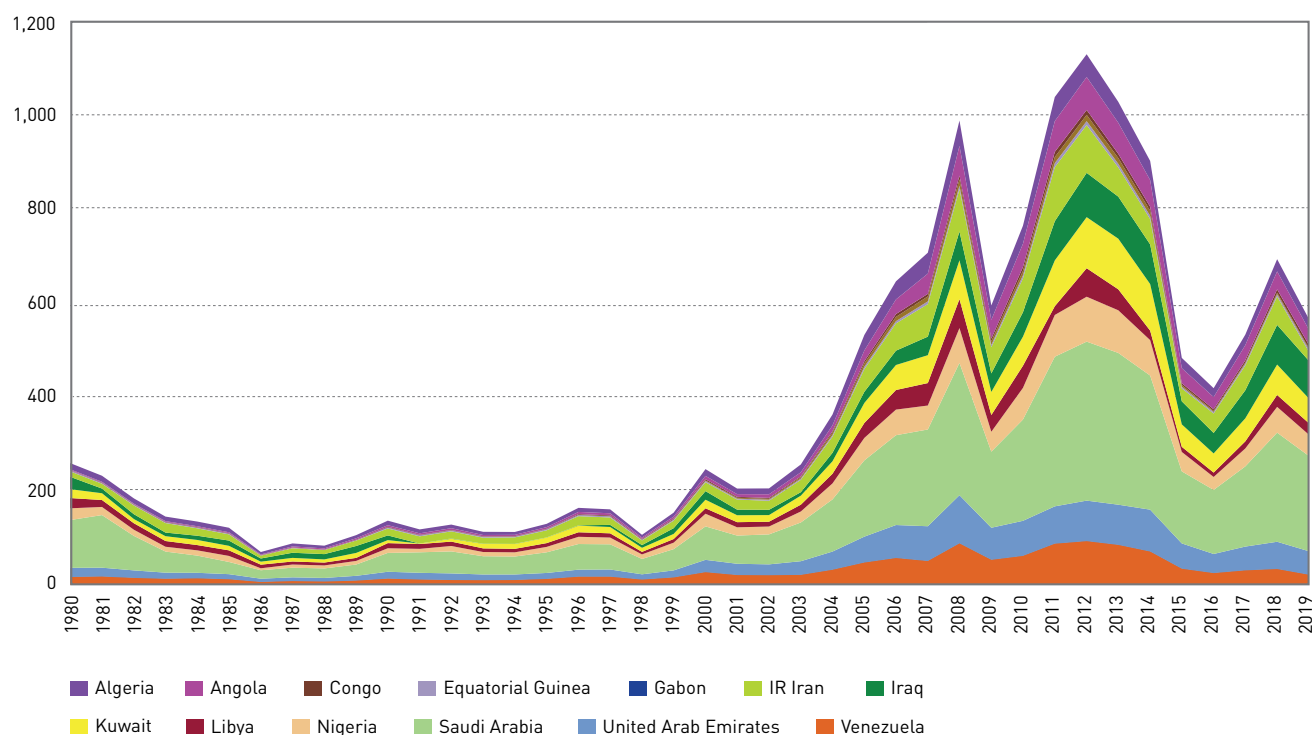
Table 2.7

Current account balances in OPEC Members*(m \$)*

	2015	2016	2017	2018	2019
Algeria	-27,280	-26,220	-22,070	-16,700	-18,813
Angola	-10,273	-3,085	-633	7,403	4,839
Congo	-4,629	-3,594	-398	706	768
Equatorial Guinea	-1,324	-747	-529	-875	-315
Gabon	-1,080	-1,416	-618	-165	-278
IR Iran	1,237	16,388	15,816	16,959	1,907
Iraq	-1,913	2,158	14,841	35,270	15,763
Kuwait	8,587	641	7,757	24,053	13,287
Libya	-9,233	-4,610	4,513	11,361	4,431
Nigeria	-15,439	2,722	10,399	3,878	-17,016
Saudi Arabia	-56,724	-23,843	10,464	72,337	46,949
United Arab Emirates	17,563	13,206	27,474	40,493	29,645
Venezuela	-16,051	-3,870	8,723	8,634	1,439
OPEC	-116,558	-32,270	75,741	203,353	82,605

Graph 2.1
OPEC Members' values of petroleum exports

(bn \$)



SECTION 3

Oil data: upstream

Table 3.1

World proven crude oil reserves by country

(mb)

	2015	2016	2017	2018	2019	% change 19/18
North America	36,672.0	37,191.0	43,727.0	49,076.0	57,919.0	18.0
Canada ¹	4,354.0	4,418.0	4,567.0	5,252.0	5,282.0	0.6
United States	32,318.0	32,773.0	39,160.0	43,824.0	52,637.0	20.1
Latin America	342,326.3	336,980.8	335,970.0	337,038.0	337,368.0	0.1
Argentina	2,379.7	2,185.0	2,162.0	2,017.0	2,389.0	18.4
Brazil	16,184.1	12,999.8	12,634.0	12,835.0	13,239.0	3.1
Colombia	2,308.0	2,002.0	1,665.0	1,782.0	1,960.0	10.0
Ecuador	8,273.0	8,273.0	8,273.0	8,273.0	8,273.0	–
Mexico	9,711.0	7,142.0	6,537.0	6,427.0	5,786.0	–10.0
Venezuela	300,878.0	302,250.0	302,809.0	303,806.0	303,806.0	–
Others	2,592.5	2,129.0	1,890.0	1,898.0	1,915.0	0.9
Eastern Europe and Eurasia	119,859.7	119,856.0	119,841.0	119,837.0	119,812.0	–
Azerbaijan	7,000.0	7,000.0	7,000.0	7,000.0	7,000.0	–
Belarus	198.0	198.0	198.0	198.0	198.0	–
Kazakhstan	30,000.0	30,000.0	30,000.0	30,000.0	30,000.0	–
Russia	80,000.0	80,000.0	80,000.0	80,000.0	80,000.0	–
Turkmenistan	600.0	600.0	600.0	600.0	600.0	–
Ukraine	395.0	395.0	395.0	395.0	395.0	–
Uzbekistan	594.0	594.0	594.0	594.0	594.0	–
Others	1,072.7	1,069.0	1,054.0	1,050.0	1,025.0	–2.4
Western Europe	12,905.4	12,214.0	12,419.0	13,067.0	13,500.0	3.3
Denmark	511.0	491.0	439.0	428.0	441.0	3.0
Norway	8,005.0	7,601.0	7,918.0	8,645.0	8,817.0	2.0
United Kingdom	2,754.7	2,564.0	2,500.0	2,500.0	2,700.0	8.0
Others	1,634.7	1,558.0	1,562.0	1,494.0	1,542.0	3.2
Middle East	802,847.5	807,729.5	804,639.0	803,184.0	847,745.0	5.5
IR Iran	158,400.0	157,200.0	155,600.0	155,600.0	208,600.0	34.1
Iraq	142,503.0	148,765.5	147,223.0	145,019.0	145,019.0	–
Kuwait	101,500.0	101,500.0	101,500.0	101,500.0	101,500.0	–
Oman	5,306.0	5,373.0	5,373.0	5,373.0	5,373.0	–
Qatar	25,244.0	25,244.0	25,244.0	25,244.0	25,244.0	–
Saudi Arabia	266,455.0	266,208.0	266,260.0	267,026.0	258,600.0	–3.2
Syrian Arab Republic	2,500.0	2,500.0	2,500.0	2,500.0	2,500.0	–
United Arab Emirates	97,800.0	97,800.0	97,800.0	97,800.0	97,800.0	–
Others	3,139.5	3,139.0	3,139.0	3,122.0	3,109.0	–0.4
Africa	128,574.0	128,875.0	127,677.0	126,972.0	126,388.0	–0.5
Algeria	12,200.0	12,200.0	12,200.0	12,200.0	12,200.0	–
Angola	9,524.0	9,523.0	8,384.0	8,160.0	7,783.0	–4.6
Congo	2,982.0	2,982.0	2,982.0	2,982.0	2,882.0	–3.4
Egypt	3,473.0	3,384.0	3,325.0	3,325.0	3,300.0	–0.8
Equatorial Guinea	1,100.0	1,100.0	1,100.0	1,100.0	1,100.0	–
Gabon	2,000.0	2,000.0	2,000.0	2,000.0	2,000.0	–
Libya	48,363.0	48,363.0	48,363.0	48,363.0	48,363.0	–
Nigeria	37,062.0	37,453.0	37,453.0	36,972.0	36,890.0	–0.2
Sudans	5,000.0	5,000.0	5,000.0	5,000.0	5,000.0	–
Others	6,870.0	6,870.0	6,870.0	6,870.0	6,870.0	–
Asia and Pacific	47,491.0	47,876.0	47,793.0	47,854.0	48,004.0	0.3
Australia	3,982.0	3,985.0	3,985.0	3,996.0	3,996.0	–
Brunei	1,100.0	1,100.0	1,100.0	1,100.0	1,100.0	–
China	25,132.1	25,620.0	25,627.0	25,927.0	26,154.0	0.9
India	4,786.0	4,622.0	4,495.0	4,423.0	4,423.0	–
Indonesia	3,230.0	3,230.0	3,310.0	3,170.0	3,150.0	–0.6
Malaysia	3,600.0	3,600.0	3,600.0	3,600.0	3,600.0	–
Vietnam	4,400.0	4,400.0	4,400.0	4,400.0	4,400.0	–
Others	1,260.8	1,319.0	1,276.0	1,238.0	1,181.0	–4.6
Total world	1,490,675.8	1,490,722.3	1,492,066.0	1,497,028.0	1,550,736.0	3.6
of which						
OPEC	1,180,767.0	1,187,344.5	1,183,674.0	1,182,528.0	1,226,543.0	3.7
OPEC percentage	79.2	79.6	79.3	79.0	79.1	
OECD	63,584.0	60,834.0	66,957.0	72,841.0	81,463.0	11.8
FSU	118,886.0	118,886.0	118,886.0	118,886.0	118,886.0	–

Notes: Figures as at year-end.

1. Data excludes oil sands.

Table 3.2
Active rigs by country

(number of rigs)

	2015	2016	2017	2018	2019	change 19/18
North America	855	843	1,135	1,219	939	-280
Canada	144	209	205	141	135	-6
United States	711	634	930	1,078	804	-274
Latin America	389	270	343	337	324	-13
Argentina	91	59	71	74	50	-24
Bolivia	5	5	3	3	5	2
Brazil	38	13	14	10	14	4
Colombia	12	19	25	30	33	3
Ecuador	7	7	14	28	21	-7
Mexico	42	19	15	31	49	18
Trinidad & Tobago	7	3	5	2	3	1
Venezuela	182	138	189	151	149	-2
Others	5	7	7	8	-	-8
Eastern Europe and Eurasia¹	21	16	15	18	18	-
Poland	12	8	6	6	6	-
Romania	7	6	7	10	10	-
Others	2	2	2	2	2	-
Western Europe	93	83	72	77	121	44
Germany	6	4	3	5	4	-1
Italy	3	4	4	3	5	2
Netherlands	4	2	4	1	3	2
Norway	17	16	16	18	17	-1
United Kingdom	9	11	5	11	11	-
Others	54	46	40	39	81	42
Middle East	529	566	535	567	532	-35
IR Iran	130	153	157	157	117	-40
Iraq	65	44	54	80	77	-3
Kuwait	58	58	78	85	87	2
Oman	73	59	55	51	53	2
Qatar	6	10	17	9	14	5
Saudi Arabia	145	161	111	125	115	-10
United Arab Emirates	51	79	59	57	66	9
Yemen	-	-	-	-	1	1
Others	1	2	4	3	2	-1
Africa	214	141	118	173	177	4
Algeria	49	52	50	50	42	-8
Angola	30	10	7	8	21	13
Congo	10	10	10	16	4	-12
Egypt	44	24	22	27	31	4
Equatorial Guinea	2	2	2	2	4	2
Gabon	2	-	2	4	9	5
Libya	31	17	1	9	16	7
Nigeria	29	9	13	32	17	-15
Others	17	17	11	25	33	8
Asia and Pacific	221	213	237	250	241	-9
Australia	16	9	14	22	25	3
China ²	25	25	32	35	38	3
India	100	116	116	124	109	-15
Indonesia	25	16	34	24	26	2
Malaysia	5	4	7	7	12	5
New Zealand	-	-	-	1	2	1
Pakistan	23	21	20	19	15	-4
Others	27	22	14	18	14	-4
Total world^{1,2}	2,322	2,132	2,455	2,641	2,352	-289
of which						
OPEC	784	733	733	776	724	-52
OPEC percentage	33.8	34.4	29.9	29.4	30.8	
OECD	998	950	1,228	1,345	1,092	-253

Notes:

Figure as at year end.

1. Excluding FSU.

2. Excluding onshore rigs for China.

Table 3.3
Wells completed in OPEC Members

	2015	2016	2017	2018	2019	change 19/18
Algeria	250	292	332	277	265	-12
Angola	92	67	43	32	104	72
Congo	44	64	64	80	15	-65
Equatorial Guinea	33	10	5	21	9	-12
Gabon	38	14	11	27	59	32
IR Iran	288	206	216	195	117	-78
Iraq	154	131	139	160	190	30
Kuwait ¹	622	622	555	488	379	-109
Libya	35	14	5	35	115	80
Nigeria	116	76	76	81	100	19
Saudi Arabia ¹	616	622	594	588	580	-8
United Arab Emirates	219	271	364	399	440	41
Venezuela	635	736	478	710	639	-71
OPEC	3,142	3,125	2,882	3,093	3,012	-81
Total world	71,308	52,086	65,614	72,230	67,818	-4,412

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

(average)

	1970	1980	1990	2000	2010	2019
Algeria	1,029.1	1,019.9	783.5	796.0	1,189.8	1,023.2
Angola	83.9	150.0	473.8	736.1	1,757.6	1,372.8
Congo	–	55.8	156.0	267.1	308.6	329.2
Equatorial Guinea	–	–	–	115.3	237.1	109.6
Gabon	108.8	174.5	274.4	282.8	233.2	217.8
IR Iran	3,829.0	1,467.4	3,135.3	3,661.3	3,544.0	2,356.2
Iraq	1,548.6	2,646.4	2,112.6	2,810.0	2,358.1	4,576.1
Kuwait ¹	2,989.6	1,663.7	858.6	1,996.1	2,312.1	2,677.7
Libya	3,318.0	1,831.6	1,389.1	1,347.2	1,486.6	1,096.6
Nigeria	1,083.1	2,058.0	1,726.7	2,053.6	2,048.3	1,737.4
Saudi Arabia ¹	3,799.1	9,900.5	6,412.5	8,094.5	8,165.6	9,808.2
United Arab Emirates	779.6	1,701.9	1,762.6	2,174.7	2,323.8	3,057.9
Venezuela	3,708.0	2,165.0	2,135.2	2,891.0	2,853.6	1,012.6
OPEC	22,276.8	24,834.7	21,220.3	27,225.6	28,818.5	29,375.3

Cumulative crude oil production up to and including year

(1,000 b)

	1970	1980	1990	2000	2010	2019
Algeria	2,569,469	6,404,548	8,974,340	11,837,030	16,079,015	19,797,872
Angola	76,423	623,359	1,681,478	3,972,081	8,818,353	14,166,831
Congo	5,406	83,269	503,937	1,277,335	2,185,806	3,063,248
Equatorial Guinea	–	–	–	125,946	1,080,047	1,662,956
Gabon	195,732	870,019	1,507,592	2,691,226	3,586,461	4,294,011
IR Iran	12,357,977	29,969,896	38,410,483	51,367,070	65,152,744	76,324,622
Iraq	7,476,078	15,826,156	22,246,208	26,918,241	34,596,929	46,756,046
Kuwait ¹	13,028,906	21,993,164	25,857,094	32,092,887	40,548,105	49,810,117
Libya	5,476,384	12,810,843	16,929,582	21,993,272	27,594,678	30,174,598
Nigeria	1,138,896	8,389,456	13,656,562	20,572,881	28,198,355	33,873,747
Saudi Arabia ¹	13,283,848	42,306,785	61,814,608	91,266,532	122,387,773	154,951,801
United Arab Emirates	1,160,471	7,164,231	11,921,927	19,785,670	28,265,801	37,731,480
Venezuela	26,301,976	36,046,663	42,528,079	51,772,971	62,363,887	69,939,506
OPEC	83,071,565	182,488,388	246,031,889	335,673,140	440,857,955	542,546,835

Notes:

1. Figures include share of production from Neutral Zone.

Table 3.5
World crude oil production by country

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
North America	10,702.2	10,024.8	10,564.7	12,263.3	13,534.3	10.4
Canada	1,263.4	1,185.5	1,212.9	1,272.8	1,301.9	2.3
United States	9,438.8	8,839.3	9,351.8	10,990.5	12,232.4	11.3
Latin America	9,715.9	9,220.0	8,707.2	8,011.8	7,631.6	-4.7
Argentina	532.3	510.6	479.5	489.4	508.6	3.9
Brazil	2,437.3	2,510.0	2,621.8	2,586.5	2,787.7	7.8
Chile	4.5	3.7	3.0	3.0	2.8	-5.6
Colombia	1,005.6	883.3	853.6	865.2	885.9	2.4
Ecuador	543.1	549.0	531.3	517.2	530.8	2.6
Mexico	2,266.8	2,153.5	1,948.4	1,813.0	1,678.1	-7.4
Peru	58.0	40.3	43.5	48.9	53.0	8.4
Trinidad & Tobago	78.6	71.5	71.8	63.5	58.9	-7.3
Venezuela	2,653.9	2,372.5	2,034.8	1,510.2	1,012.6	-32.9
Others	135.7	125.8	119.4	114.7	113.2	-1.3
Eastern Europe and Eurasia	12,645.2	12,756.6	12,930.3	13,170.5	13,219.1	0.4
Azerbaijan	786.7	769.8	729.2	725.0	678.5	-6.4
Kazakhstan	1,321.6	1,295.0	1,466.8	1,547.2	1,549.8	0.2
Romania	78.8	75.5	72.2	71.2	69.9	-1.8
Russia	10,111.1	10,292.2	10,348.9	10,527.4	10,625.0	0.9
Turkmenistan	206.2	189.6	185.0	167.0	162.6	-2.6
Ukraine	36.2	32.3	30.1	32.3	34.3	5.9
Others	104.6	102.2	98.2	100.5	99.0	-1.5
Western Europe	2,899.0	2,924.0	2,871.3	2,855.0	2,765.5	-3.1
Denmark	156.0	140.1	136.6	114.9	101.7	-11.5
France	16.7	16.5	15.2	15.6	14.5	-7.0
Germany	48.1	46.3	43.3	40.7	37.8	-6.9
Italy	100.1	70.7	77.5	89.5	77.7	-13.2
Netherlands	26.9	17.8	18.2	17.5	14.6	-16.4
Norway	1,567.4	1,614.6	1,588.3	1,486.8	1,408.5	-5.3
Turkey	48.5	49.5	49.2	54.9	57.5	4.7
United Kingdom	879.7	914.8	891.2	984.9	1,007.2	2.3
Others	55.6	53.7	51.8	50.3	46.1	-8.4
Middle East	24,494.3	26,608.4	25,693.2	25,743.4	24,159.1	-6.2
Bahrain	202.6	205.0	194.9	193.2	194.4	0.6
IR Iran	3,151.6	3,651.3	3,867.3	3,553.0	2,356.2	-33.7
Iraq	3,504.1	4,647.8	4,468.7	4,410.0	4,576.1	3.8
Kuwait¹	2,858.7	2,954.3	2,704.2	2,736.6	2,677.7	-2.2
Oman	885.2	908.7	883.9	870.0	840.6	-3.4
Qatar	656.0	651.5	600.0	600.6	595.4	-0.9
Saudi Arabia¹	10,192.6	10,460.2	9,959.2	10,317.3	9,808.2	-4.9
Syrian Arab Republic	18.7	17.1	16.7	16.0	15.6	-2.6
United Arab Emirates	2,988.9	3,088.3	2,966.5	3,008.3	3,057.9	1.6
Yemen	36.0	24.2	31.8	38.4	37.0	-3.5
Africa	7,018.2	6,522.0	6,867.3	6,964.0	7,143.7	2.6
Algeria	1,157.1	1,146.3	1,058.7	1,040.1	1,023.2	-1.6
Angola	1,767.1	1,721.6	1,632.2	1,473.3	1,372.8	-6.8
Congo	232.2	225.0	262.7	323.5	329.2	1.8
Egypt	578.4	544.4	530.9	538.8	510.6	-5.2
Equatorial Guinea	185.3	160.1	128.6	120.2	109.6	-8.8
Gabon	213.5	220.7	210.1	193.4	217.8	12.6
Libya	403.7	389.1	810.5	950.7	1,096.6	15.3
Nigeria	1,748.2	1,427.3	1,535.6	1,601.6	1,737.4	8.5
Sudans	278.6	250.2	213.3	215.8	242.9	12.6
Others	454.2	437.3	484.7	506.6	503.5	-0.6
Asia and Pacific	7,613.2	7,248.7	6,944.8	6,814.2	6,809.2	-0.1
Australia	322.2	289.8	263.0	283.7	360.7	27.2
Brunei	115.3	109.1	100.6	99.5	109.6	10.2
China	4,287.8	3,986.1	3,821.5	3,787.0	3,825.0	1.0
India	746.8	720.8	719.9	695.6	654.6	-5.9
Indonesia	690.1	737.9	710.2	684.6	660.6	-3.5
Malaysia	660.5	656.6	648.0	650.9	608.7	-6.5
New Zealand	41.0	34.7	31.0	23.9	23.7	-1.0
Others	749.4	713.6	650.6	589.0	566.2	-3.9
Total world	75,088.1	75,304.5	74,578.8	75,822.3	75,262.5	-0.7
of which						
OPEC	31,056.9	32,464.4	31,639.2	31,238.1	29,375.3	-6.0
OPEC percentage	41.4	43.1	42.4	41.2	39.0	
OECD	16,239.8	15,438.3	15,689.4	17,252.5	18,378.6	6.5
FSU	12,509.2	12,624.6	12,804.1	13,043.9	13,094.9	0.4

Notes:

1. Figures include share of production from Neutral Zone.

Table 3.6
Non-OPEC oil supply and OPEC NGLs

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
North America	18,485.5	18,115.8	19,254.4	21,990.4	23,809.0	8.3
Canada	4,420.8	4,499.0	4,850.2	5,278.5	5,410.8	2.5
United States	14,064.7	13,616.9	14,404.2	16,711.9	18,398.2	10.1
Latin America	8,358.7	8,103.6	7,928.7	7,825.4	7,947.2	1.6
Argentina	679.3	667.6	646.5	648.4	661.6	2.0
Brazil	3,079.7	3,122.0	3,251.9	3,316.1	3,542.6	6.8
Chile	5.4	4.9	6.0	9.1	11.3	25.0
Colombia	1,031.6	908.3	878.6	891.1	910.9	2.2
Ecuador	551.4	557.9	540.6	526.0	539.2	2.5
Mexico	2,598.8	2,464.5	2,231.9	2,076.6	1,923.5	-7.4
Peru	149.4	135.1	134.3	133.5	139.7	4.6
Trinidad & Tobago	108.4	96.6	98.7	87.1	82.3	-5.5
Others	154.7	146.7	140.2	137.5	136.0	-1.0
Eastern Europe and Eurasia	13,903.7	14,053.7	14,258.4	14,507.2	14,584.9	0.5
Azerbaijan	860.1	849.1	803.9	805.0	788.8	-2.0
Kazakhstan	1,596.3	1,562.5	1,732.9	1,814.5	1,817.6	0.2
Romania	81.8	78.5	75.2	74.2	72.8	-1.8
Russia	10,846.3	11,083.3	11,170.9	11,346.5	11,441.8	0.8
Turkmenistan	238.3	221.7	211.0	193.0	188.6	-2.3
Ukraine	54.0	50.5	48.7	51.2	54.7	6.7
Others	226.9	208.2	215.9	222.8	220.7	-1.0
Western Europe	3,740.6	3,784.6	3,745.4	3,749.0	3,611.9	-3.7
Denmark	161.6	145.0	143.1	121.0	107.4	-11.2
France	91.0	94.7	96.6	94.9	96.5	1.7
Germany	141.4	143.7	142.4	145.5	139.8	-3.9
Italy	142.8	107.1	110.9	124.6	107.5	-13.7
Netherlands	48.0	35.2	36.1	48.8	38.7	-20.8
Norway	1,947.6	1,996.8	1,969.1	1,851.5	1,736.2	-6.2
Turkey	48.5	49.5	49.2	54.9	57.5	4.7
United Kingdom	986.0	1,040.1	1,026.1	1,123.7	1,146.5	2.0
Others	173.8	172.5	172.0	184.0	181.7	-1.3
Middle East	3,283.9	3,263.6	3,135.9	3,211.9	3,211.2	-
Bahrain	223.6	225.0	208.4	208.4	217.4	4.3
Oman	981.2	1,004.2	970.6	978.5	970.8	-0.8
Qatar	2,011.0	1,985.1	1,896.9	1,955.6	1,955.4	-
Syrian Arab Republic	26.7	25.1	24.7	24.0	23.6	-1.7
Yemen	41.6	24.2	35.4	45.4	44.0	-3.0
Africa	1,576.0	1,500.7	1,483.9	1,519.9	1,525.6	0.4
Egypt	719.4	687.5	661.5	672.3	654.7	-2.6
Sudans	278.6	250.2	213.3	215.8	242.9	12.6
Others	578.1	562.9	609.1	631.8	628.0	-0.6
Asia and Pacific	8,564.3	8,223.2	7,992.9	7,953.2	8,062.6	1.4
Australia	379.4	349.7	317.3	342.6	457.8	33.6
Brunei	126.8	120.9	113.1	111.5	121.4	8.9
China	4,392.8	4,090.1	3,969.1	3,976.6	4,051.1	1.9
India	867.6	852.5	860.3	859.3	825.2	-4.0
Indonesia	862.4	927.1	891.0	869.2	871.8	0.3
Malaysia	742.0	731.0	725.5	735.0	699.1	-4.9
New Zealand	48.5	40.7	37.3	29.8	29.1	-2.4
Others	1,144.8	1,111.2	1,079.2	1,029.3	1,007.1	-2.2
Non-OPEC production	57,912.7	57,045.3	57,799.7	60,757.0	62,752.4	3.3
Processing gains	2,172.0	2,194.0	2,218.0	2,250.0	2,275.0	1.1
Non-OPEC supply	60,084.7	59,239.3	60,017.7	63,007.0	65,027.4	3.2
OPEC NGL	4,789.4	5,011.4	5,068.0	5,224.8	5,149.8	-1.4
OPEC non-conventional (NCF)	107.5	98.5	108.0	108.7	108.0	-0.7
OPEC (NGL+NCF)	4,896.9	5,109.9	5,176.0	5,333.6	5,257.8	-1.4
Non-OPEC & OPEC (NGL+NCF)	64,981.7	64,349.1	65,193.7	68,340.6	70,285.2	2.8
of which						
OECD	25,366.8	24,863.8	25,710.8	28,328.1	29,977.1	5.8
FSU	13,687.3	13,851.7	14,049.4	14,290.6	14,369.5	0.6

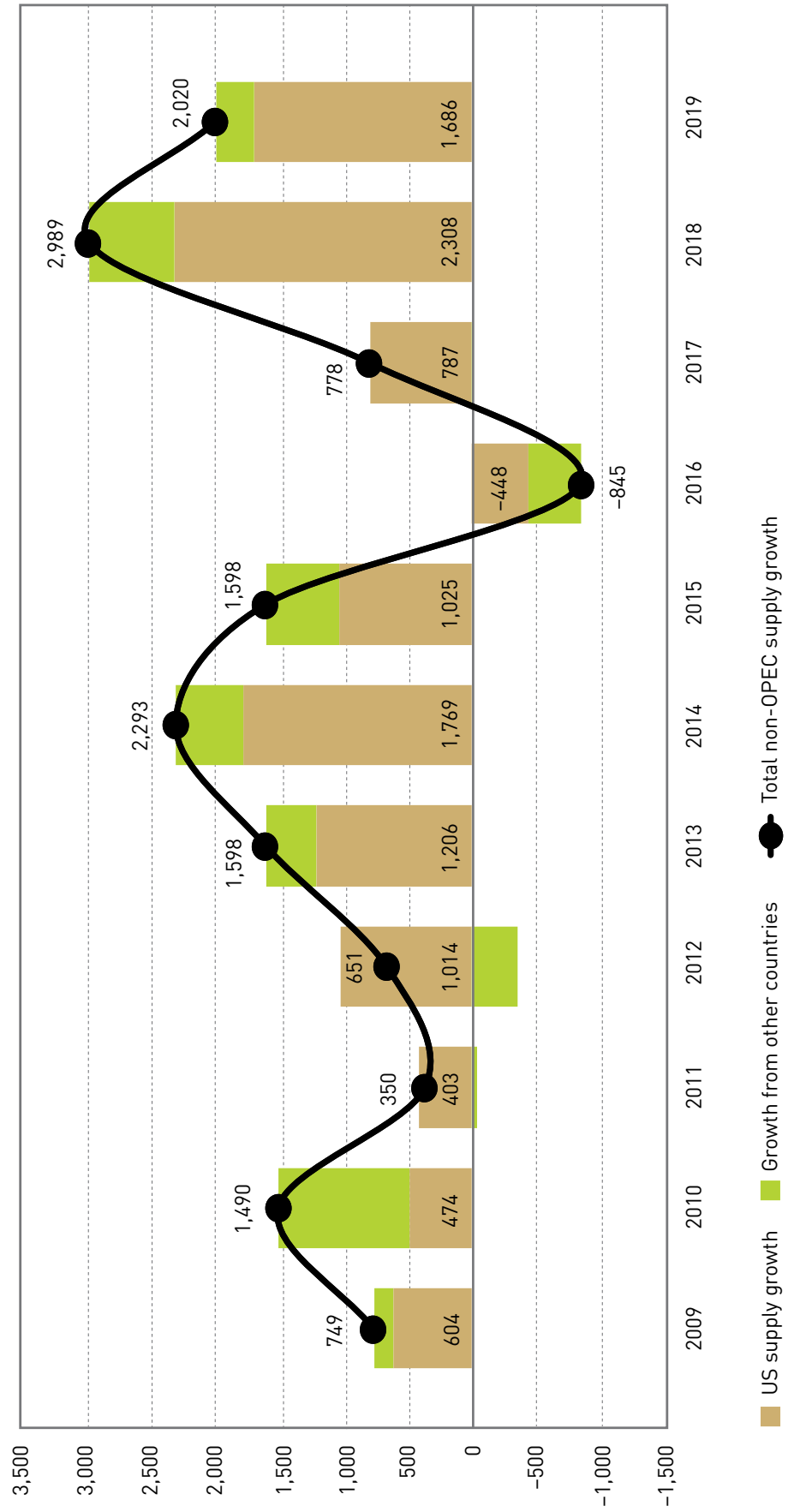
Table 3.7
World biofuel production

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
North America	1,083.4	1,134.2	1,172.9	1,203.5	1,181.7	-1.8
Canada	36.0	36.0	38.0	35.0	40.0	14.3
United States	1,047.4	1,098.2	1,134.9	1,168.5	1,141.7	-2.3
Latin America	629.8	608.2	621.0	720.2	744.7	3.4
Argentina	50.0	67.0	75.0	67.0	61.0	-9.0
Brazil	552.8	515.2	519.0	622.2	651.7	4.7
Colombia	18.0	17.0	17.0	18.0	18.0	-
Others	9.0	9.0	10.0	13.0	14.0	7.7
Eastern Europe and Eurasia	33.3	30.0	32.9	34.2	35.4	3.6
Poland	18.8	18.9	21.3	22.0	22.0	-
Others	14.4	11.1	11.5	12.2	13.4	10.2
Western Europe	252.8	247.3	252.9	261.7	271.1	3.6
Denmark	3.7	2.9	2.0	2.0	2.0	-
France	61.0	56.0	53.0	54.0	55.0	1.9
Germany	77.0	78.0	78.0	76.0	79.0	3.9
Italy	12.0	7.0	10.0	16.0	17.0	6.3
Netherlands	10.2	10.9	12.4	12.8	14.5	13.0
United Kingdom	10.0	16.0	18.0	18.0	19.0	5.6
Others	78.9	76.5	79.5	82.8	84.6	2.1
Africa	3.0	4.0	4.0	5.0	5.0	-
Asia and Pacific	167.0	196.0	216.0	248.0	310.0	25.0
Australia	6.0	5.0	4.0	4.0	5.0	25.0
China	59.0	52.0	65.0	58.0	66.0	13.8
India	13.0	17.0	16.0	29.0	38.0	31.0
Indonesia	26.0	57.0	55.0	71.0	103.0	45.1
Malaysia	13.0	12.0	16.0	21.0	29.0	38.1
Others	50.0	53.0	60.0	65.0	69.0	6.2
Total world	2,169.3	2,219.7	2,299.7	2,472.6	2,547.9	3.0
<i>of which</i>						
OECD	1,371.5	1,414.5	1,460.7	1,501.4	1,491.2	-0.7
FSU	4.0	2.0	2.0	2.0	2.0	-

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

(1,000 b/d)



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SECTION 4

Oil data: downstream

Table 4.1
Refinery capacity in OPEC Members by company and location

(1,000 b/cd)

	Location	2015	2016	2017	2018	2019
Algeria		651	651	651	657	657
Sonatrach	Skikda	355	355	355	355	355
	Skikda (condensate)	122	122	122	122	122
	Arzew	81	81	81	87	87
	Alger	58	58	58	58	58
	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 Guinea²		na	na	na	na	na
Gabon		24	24	24	24	24
Total and Shell	Port Gentil	24	24	24	24	24
IR Iran		1,781	1,901	1,901	2,141	2,201
NIOC	Abadan	399	399	399	399	399
	Isfahan	375	375	375	375	375
	Bandar Abbas	284	284	284	284	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	na	120	120	240	240
	Qeshm	na	na	na	120	120
Iraq		900	900	594	726	762
INOC	Baiji	310	310	na	23	33
	Basrah	210	210	210	210	233
	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	10	na	5	7
	Kar	na	na	10	80	80
	Bazyan	na	na	4	38	38
Kuwait		936	936	786	736	736
KNPC	Mina Al-Ahmadi	466	466	466	466	466
	Mina Abdullah	270	270	270	270	270
	Shuaiba	200	200	50	na	na

Table 4.1

Refinery capacity in OPEC Members by company and location

(1,000 b/cd)

	Location	2015	2016	2017	2018	2019
Libya		380	380	380	380	380
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
Nigeria		446	446	446	446	446
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
Saudi Arabia		2,934	2,934	2,921	2,856	2,896
Saudi Aramco	Ras Tanura	550	550	550	550	550
	Yanbu	245	245	245	245	245
	Riyadh	126	126	126	126	126
	Jeddah	78	78	65	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	405	440
Saudi Aramco	Yasref	430	430	430	430	430
Saudi Aramco & Shell	Sasref	300	300	300	300	305
United Arab Emirates		1,124	1,124	1,124	1,124	1,124
ADNOC	Al-Ruwais (East and West)	817	817	817	817	817
Emirate Oil	Jebel Ali	140	140	140	140	140
ADNOC	Umm Al-Narr	85	85	85	85	85
Metro Oil	Fujairah	82	82	82	82	82
Venezuela		1,891	1,891	1,891	1,891	1,891
PDVSA	Amuay	600	600	600	600	600
	Cardon	340	340	340	340	340
	Puerto La Cruz	196	196	196	196	196
	El Palito	127	127	127	127	127
	San Roque	5	5	5	5	5
	Bajo Grande	5	5	5	5	5
	Petropiar ¹	198	198	198	198	198
	Petromonagas ¹	136	136	136	136	136
	Petrocedeno ¹	153	153	153	153	153
	Petrozuata ¹	131	131	131	131	131
OPEC		11,168	11,288	10,819	11,082	11,218

Notes:

1. Upgrader refinery capacity.

2. Equatorial Guinea has no refinery.

Table 4.2
World refinery capacity by country

(1,000 b/cd)

	2015	2016	2017	2018	2019	change 19/18
North America	20,246	20,555	20,607	20,673	20,753	80
Canada	1,931	1,934	1,966	1,972	2,046	74
United States ¹	18,315	18,621	18,641	18,701	18,707	6
Latin America	8,588	8,541	8,499	8,499	8,499	-
Argentina	657	657	631	631	631	-
Brazil	2,281	2,289	2,289	2,289	2,289	-
Colombia	421	421	415	415	415	-
Ecuador	191	191	188	188	188	-
Mexico	1,522	1,522	1,522	1,522	1,522	-
Curaçao	320	320	320	320	320	-
Trinidad & Tobago	165	165	165	165	165	-
Venezuela ²	1,891	1,891	1,891	1,891	1,891	-
Others	1,141	1,086	1,078	1,078	1,078	-
Eastern Europe and Eurasia	9,904	9,735	9,924	10,095	10,190	96
Azerbaijan	259	120	120	120	120	-
Belarus	460	460	498	505	505	-
Kazakhstan	350	350	350	424	435	11
Poland	581	581	581	581	581	-
Romania	239	256	256	256	256	-
Russia	6,513	6,583	6,587	6,675	6,728	54
Ukraine	240	240	240	240	240	-
Others	1,262	1,144	1,291	1,293	1,324	31
Western Europe	13,382	13,367	13,515	13,439	13,601	163
Belgium	776	776	776	776	776	-
France	1,406	1,406	1,335	1,252	1,252	-
Germany	2,049	2,051	2,051	2,051	2,051	-
Italy	1,900	1,900	1,900	1,900	1,900	-
Netherlands	1,293	1,293	1,293	1,293	1,293	-
Spain	1,562	1,562	1,562	1,562	1,562	-
United Kingdom	1,337	1,227	1,227	1,233	1,238	5
Others	3,058	3,152	3,371	3,371	3,529	158
Middle East	9,030	9,406	8,882	9,163	9,299	135
IR Iran¹	1,781	1,901	1,901	2,141	2,201	60
Iraq	900	900	594	726	762	35
Kuwait	936	936	786	736	736	-
Qatar¹	283	429	430	430	430	-
Saudi Arabia¹	2,934	2,934	2,921	2,856	2,896	40
United Arab Emirates¹	1,124	1,124	1,124	1,124	1,124	-
Others	1,072	1,182	1,126	1,150	1,150	-
Africa	3,557	3,557	3,628	3,634	3,638	4
Algeria¹	651	651	651	657	657	-
Angola	80	80	80	80	80	-
Congo	21	21	21	21	21	-
Egypt	810	810	810	810	814	4
South Africa	520	520	520	520	520	-
Gabon	24	24	24	24	24	-
Libya	380	380	380	380	380	-
Nigeria	446	446	446	446	446	-
Others	625	625	696	696	696	-
Asia and Pacific	32,017	32,619	33,579	34,070	35,003	933
Australia	443	452	455	462	462	-
China	14,006	14,377	14,609	15,052	15,627	575
India	4,307	4,620	4,706	4,752	4,796	44
Indonesia	1,111	1,111	1,158	1,172	1,172	-
Japan	3,721	3,600	3,526	3,499	3,499	-
South Korea ¹	3,123	3,246	3,354	3,354	3,354	-
Singapore	1,514	1,514	1,514	1,514	1,514	-
Others	3,793	3,699	4,257	4,265	4,579	314
Total world	96,725	97,780	98,633	99,572	100,982	1,410
of which						
OPEC	11,168	11,288	10,819	11,082	11,218	135
OPEC percentage	11.5	11.5	11.0	11.1	11.1	
OECD	43,485	43,514	43,457	43,393	43,601	208
FSU	8,522	8,439	8,390	8,562	8,658	96

Notes:

1. Includes condensate splitters.
2. Includes upgrader capacity.

Table 4.3
World refinery throughput by country

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
North America	18,230	18,334	18,745	19,163	19,169	–
Canada	1,802	1,821	1,861	1,847	2,193	18.7
United States	16,427	16,513	16,884	17,315	16,976	–2.0
Latin America	6,499	6,034	5,659	5,167	4,915	–4.9
Argentina	536	481	492	467	473	1.1
Brazil	1,967	1,800	1,677	1,650	1,678	1.6
Colombia	244	337	346	345	354	2.7
Ecuador	119	151	156	170	143	–15.4
Mexico	1,195	1,026	839	666	671	0.7
Curaçao	182	162	139	33	29	–12.6
Trinidad & Tobago	128	151	135	96	5	–94.8
Venezuela	1,279	1,083	956	842	781	–7.2
Others	850	844	919	898	781	–13.0
Eastern Europe and Eurasia	8,436	8,276	8,395	8,675	8,674	–
Azerbaijan	132	114	113	116	130	11.4
Belarus	426	375	367	368	360	–2.2
Kazakhstan	313	316	302	411	388	–5.5
Poland	550	548	545	551	583	5.8
Romania	213	234	231	237	249	4.7
Russia	5,638	5,578	5,592	5,720	5,701	–0.3
Ukraine	32	30	48	34	33	–1.9
Others	1,132	1,084	1,197	1,237	1,229	–0.6
Western Europe	12,131	12,085	12,380	12,294	12,205	–0.7
Belgium	712	677	713	689	712	3.3
France	1,238	1,247	1,257	1,187	1,089	–8.3
Germany	1,942	1,947	1,941	1,959	1,937	–1.1
Italy	1,522	1,511	1,548	1,490	1,467	–1.6
Netherlands	1,226	1,226	1,226	1,235	1,261	2.1
Spain	1,297	1,295	1,321	1,358	1,315	–3.2
United Kingdom	1,268	1,163	1,160	1,165	1,215	4.3
Others	2,925	3,019	3,214	3,211	3,210	–
Middle East	7,238	7,598	7,795	7,987	7,769	–2.7
IR Iran	1,649	1,646	1,689	1,705	1,718	0.8
Iraq	415	448	536	609	639	5.0
Kuwait	866	826	679	681	660	–3.1
Qatar	253	280	379	368	365	–0.7
Saudi Arabia	2,181	2,459	2,601	2,642	2,484	–6.0
United Arab Emirates	918	1,100	1,091	1,065	1,037	–2.7
Others	956	839	820	917	866	–5.6
Africa	2,324	2,294	2,389	2,454	2,432	–0.9
Algeria	629	624	630	644	660	2.5
Angola	52	44	54	55	54	–1.0
Congo	15	16	17	18	17	–4.2
Egypt	527	502	506	517	559	8.0
South Africa	496	461	494	528	493	–6.7
Gabon	19	19	16	16	14	–12.8
Libya	86	83	99	98	90	–8.7
Nigeria	24	52	64	38	9	–76.9
Others	476	494	510	541	538	–0.6
Asia and Pacific	27,077	28,013	28,648	29,651	30,618	3.3
Australia	466	466	452	517	500	–3.3
China	10,439	10,774	11,354	12,033	12,978	7.9
India	4,386	4,741	4,790	4,891	5,030	2.8
Indonesia	846	877	892	1,050	1,010	–3.8
Japan	3,578	3,479	3,395	3,273	3,233	–1.2
South Korea	2,953	3,103	3,215	3,248	3,334	2.7
Singapore	1,210	1,240	1,265	1,181	1,175	–0.5
Others	3,199	3,333	3,285	3,459	3,357	–2.9
Total world	81,935	82,635	84,011	85,391	85,782	0.5
<i>of which</i>						
OPEC	8,133	8,399	8,432	8,412	8,162	–3.0
<i>OPEC percentage</i>	<i>9.9</i>	<i>10.2</i>	<i>10.0</i>	<i>9.9</i>	<i>9.5</i>	
OECD	39,882	39,776	40,363	40,500	40,454	–0.1
FSU	6,957	6,823	6,847	7,104	7,091	–0.2

Notes:

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

Table 4.4
Output of petroleum products in OPEC Members

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
Algeria	576	621	609	621	660	6.3
Gasoline	61	61	60	73	83	13.5
Kerosene	32	35	36	32	33	3.0
Distillates	160	176	169	198	216	9.0
Residuals	110	124	117	106	110	4.0
Others	214	225	227	211	217	2.8
Angola	54	45	55	55	55	-0.7
Gasoline	1	1	1	1	1	3.5
Kerosene	11	9	12	2	2	3.3
Distillates	15	12	15	20	19	-3.7
Residuals	15	12	15	20	21	5.5
Others	12	10	13	13	12	-6.8
Congo	15	16	15.9	16.1	16.2	1.1
Gasoline	5	5	5	5	5	0.7
Kerosene	2	2	2	2	2	0.2
Distillates	3	3	3	3	3	1.6
Residuals	5	5	6	6	6	1.6
Others	1	1	1	1	1	0.8
Equatorial Guinea	na	na	na	na	na	na
Gabon	17	19	14	13	11	-12.7
Gasoline	2	2	2	2	2	1.2
Kerosene	1	1	1	1	1	-6.3
Distillates	6	6	5	5	4	-19.0
Residuals	7	8	6	5	5	-15.0
Others	1	1	1	1	1	2.2
IR Iran	1,664	1,618	1,680	1,691	1,705	0.9
Gasoline	387	379	394	398	407	2.4
Kerosene	118	114	119	122	119	-2.3
Distillates	499	489	545	551	550	-0.1
Residuals	419	403	384	387	385	-0.4
Others	242	232	238	233	243	4.5
Iraq	419	449	537	592	632	6.8
Gasoline	53	49	63	84	95	12.9
Kerosene	26	34	43	47	49	3.9
Distillates	68	67	91	107	118	9.9
Residuals	209	221	294	314	329	4.7
Others	63	78	45	40	42	5.5
Kuwait	874	857	883	891	886	-0.6
Gasoline	41	56	36	36	61	68.8
Kerosene	164	156	143	143	136	-4.7
Distillates	195	194	170	171	168	-1.5
Residuals	160	184	153	154	147	-4.7
Others	314	267	381	387	374	-3.5

Table 4.4
Output of petroleum products in OPEC Members

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
Libya	76	72	70	70	59	-15.1
Gasoline	9	9	8	9	8	-13.2
Kerosene	9	9	9	9	7	-14.2
Distillates	21	20	19	18	15	-16.2
Residuals	24	23	22	22	19	-14.2
Others	13	13	12	12	10	-17.2
Nigeria	21	48	59	33	8	-75.4
Gasoline	11	14	20	9	2	-72.2
Kerosene	3	7	10	6	1	-78.7
Distillates	4	12	14	7	2	-73.6
Residuals	3	6	11	10	2	-76.7
Others	0	8	4	1	0	-80.7
Saudi Arabia	2,204	2,511	2,630	2,817	2,586	-8.2
Gasoline	438	491	510	545	548	0.5
Kerosene	187	217	228	262	232	-11.5
Distillates	856	934	988	1,073	1,057	-1.4
Residuals	397	409	426	455	424	-7.0
Others	326	460	478	481	325	-32.5
United Arab Emirates	940	1,089	1,043	1,027	1,005	-2.1
Gasoline	115	132	98	98	96	-2.0
Kerosene	289	341	287	289	283	-2.0
Distillates	199	220	229	229	227	-1.0
Residuals	29	33	49	47	45	-4.0
Others	307	363	379	364	354	-2.7
Venezuela	1,254	1,050	976	804	743	-7.6
Gasoline	296	221	241	200	186	-6.8
Kerosene	72	42	34	26	23	-11.1
Distillates	247	182	156	122	115	-5.9
Residuals	306	291	296	250	238	-4.9
Others	333	314	250	207	182	-12.2
OPEC	8,115	8,394	8,571	8,631	8,368	-3.0
Gasoline	1,435	1,438	1,453	1,472	1,506	2.3
Kerosene	916	970	921	942	891	-5.4
Distillates	2,273	2,316	2,404	2,504	2,494	-0.4
Residuals	1,690	1,725	1,785	1,781	1,734	-2.6
Others	1,833	1,980	2,036	1,957	1,766	-9.8

Notes:

Data may include products from GTLs and condensate units. Equatorial Guinea does not produce petroleum products.

Table 4.5

World output of petroleum products by country

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
North America	21,907	22,112	22,458	22,739	22,902	0.7
Canada	2,021	2,033	2,160	2,054	2,466	20.0
United States	19,886	20,079	20,298	20,685	20,437	-1.2
Latin America	6,623	6,251	5,857	5,313	4,915	-7.5
Argentina	549	532	517	511	521	2.1
Brazil	2,063	1,912	1,787	1,764	1,637	-7.2
Colombia	224	325	314	318	329	3.4
Ecuador	128	152	153	167	143	-14.8
Mexico	1,221	1,080	869	712	656	-7.8
Curaçao	187	166	161	35	31	-12.6
Trinidad & Tobago	125	145	144	102	5	-94.8
Venezuela	1,254	1,050	976	804	743	-7.6
Others	873	889	937	900	849	-5.6
Eastern Europe and Eurasia	8,658	8,584	8,849	9,026	9,039	0.1
Azerbaijan	125	114	107	114	131	14.9
Belarus	417	373	366	368	359	-2.3
Kazakhstan	297	298	296	374	353	-5.7
Poland	566	556	552	589	617	4.8
Romania	222	241	243	234	242	3.1
Russia	5,954	5,976	6,147	6,264	6,257	-0.1
Ukraine	31	29	49	31	30	-1.9
Others	1,046	998	1,090	1,053	1,050	-0.3
Western Europe	12,852	12,787	12,919	12,721	12,627	-0.7
Belgium	729	701	730	702	738	5.1
France	1,271	1,273	1,303	1,226	1,114	-9.2
Germany	2,164	2,185	2,145	2,053	2,067	0.7
Italy	1,567	1,557	1,597	1,539	1,513	-1.7
Netherlands	1,278	1,280	1,282	1,305	1,329	1.9
Spain	1,336	1,327	1,345	1,384	1,343	-2.9
United Kingdom	1,341	1,314	1,285	1,289	1,301	0.9
Others	3,168	3,151	3,231	3,224	3,223	-
Middle East	7,085	7,444	7,723	8,004	7,773	-2.9
IR Iran	1,664	1,618	1,680	1,691	1,705	0.9
Iraq	419	449	537	592	632	6.8
Kuwait	874	857	883	891	886	-0.6
Qatar	248	274	363	352	350	-0.6
Saudi Arabia	2,204	2,511	2,630	2,817	2,586	-8.2
United Arab Emirates	940	1,089	1,043	1,027	1,005	-2.1
Others	736	647	588	633	607	-4.2
Africa	2,203	2,232	2,291	2,335	2,319	-0.7
Algeria	576	621	609	621	660	6.3
Angola	54	45	55	55	55	-0.7
Congo	15	16	16	16	16	1.1
Egypt	512	487	491	519	509	-2.0
South Africa	491	461	472	481	450	-6.4
Gabon	17	19	14	13	11	-12.7
Libya	76	72	70	70	59	-15.1
Nigeria	21	48	59	33	8	-75.4
Others	440	465	504	527	550	4.5
Asia and Pacific	27,337	28,177	29,052	29,824	30,792	3.2
Australia	465	469	459	515	503	-2.4
China	10,175	10,449	11,059	11,608	12,501	7.7
India	4,888	5,236	5,268	5,371	5,545	3.2
Indonesia	863	889	908	1,008	970	-3.8
Japan	3,509	3,517	3,450	3,272	3,236	-1.1
South Korea	3,006	3,111	3,299	3,386	3,394	0.3
Singapore	1,268	1,297	1,322	1,242	1,236	-0.5
Others	3,163	3,211	3,287	3,422	3,407	-0.4
Total world	89,167	90,114	89,148	89,963	90,367	0.5
<i>of which</i>						
OPEC	8,115	8,394	8,571	8,631	8,368	-3.0
OPEC percentage	9.1	9.3	9.6	9.6	9.3	
OECD	44,683	44,657	45,343	45,406	45,373	-0.1
FSU	7,181	7,022	7,074	7,300	7,295	-0.1

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)

	2015	2016	2017	2018	2019	% change 19/18
Algeria	419	399	422	431	448	3.7
Gasoline	93	90	90	85	84	-0.8
Kerosene	12	12	13	13	14	2.7
Distillates	225	218	218	225	227	0.8
Residuals	5	4	3	3	3	-9.5
Others	84	75	97	105	120	14.3
Angola	142	122	115	121	122	1.2
Gasoline	31	26	19	22	22	1.6
Kerosene	12	9	11	11	10	-12.4
Distillates	86	60	63	63	65	2.3
Residuals	1	3	3	4	4	-2.8
Others	12	24	18	21	22	5.1
Congo	8	8	8	8	9	1.1
Gasoline	2	2	2	2	2	0.7
Kerosene	1	1	1	1	1	0.2
Distillates	3	4	4	4	4	1.6
Residuals	-	-	-	-	-	1.6
Others	2	2	2	2	2	0.8
Equatorial Guinea	8	6	5	5	5	-2.2
Gasoline	2	2	2	2	2	3.8
Kerosene	2	1	1	1	1	-4.2
Distillates	4	3	2	2	2	-6.1
Residuals	-	-	-	-	-	-
Others	-	-	-	-	-	4.7
Gabon	36	37	38	38	39	1.2
Gasoline	5	5	5	5	5	1.2
Kerosene	3	3	3	3	3	0.7
Distillates	24	25	26	27	27	1.2
Residuals	-	-	-	-	-	-
Others	3	3	3	3	3	2.2
IR Iran	1,795	1,801	1,819	1,854	1,838	-0.9
Gasoline	455	444	582	596	590	-1.0
Kerosene	129	138	114	108	98	-9.3
Distillates	546	499	491	516	511	-0.8
Residuals	379	366	281	260	258	-0.7
Others	285	354	351	375	380	1.4
Iraq	686	757	723	704	716	1.7
Gasoline	105	109	125	140	146	4.5
Kerosene	31	33	36	34	41	20.6
Distillates	104	100	114	138	152	10.0
Residuals	179	218	271	289	253	-12.5
Others	267	298	177	103	124	20.2

Table 4.6

Oil demand by main petroleum product in OPEC Members

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
Kuwait	383	380	401	417	460	10.3
Gasoline	71	70	61	61	79	30.3
Kerosene	16	17	14	15	23	49.8
Distillates	48	49	51	53	55	5.4
Residuals	122	131	109	114	103	-9.4
Others	125	112	166	175	200	14.3
Libya	211	208	208	215	214	-0.4
Gasoline	75	76	78	81	83	1.7
Kerosene	5	5	5	5	4	-15.2
Distillates	85	84	88	92	94	2.4
Residuals	32	29	26	27	22	-17.1
Others	14	13	11	11	11	8.1
Nigeria	408	393	426	446	470	5.5
Gasoline	306	299	316	337	355	5.1
Kerosene	44	25	26	24	23	-5.8
Distillates	56	67	82	79	89	12.0
Residuals	1	2	2	3	1	-48.1
Others	1	1	1	2	2	12.7
Saudi Arabia	3,319	3,210	3,272	3,105	3,199	3.0
Gasoline	559	556	599	561	550	-2.0
Kerosene	86	88	101	104	103	-0.4
Distillates	778	701	591	522	528	1.1
Residuals	399	470	516	503	540	7.2
Others	1,497	1,395	1,465	1,415	1,479	4.5
United Arab Emirates	778	799	819	885	899	1.6
Gasoline	175	176	185	211	215	2.0
Kerosene	146	148	157	166	168	1.3
Distillates	105	106	102	123	129	4.7
Residuals	312	329	330	335	329	-1.8
Others	40	40	45	50	58	15.9
Venezuela	658	566	503	403	367	-9.0
Gasoline	259	227	195	170	155	-8.6
Kerosene	5	4	8	7	6	-12.4
Distillates	210	163	127	118	113	-4.9
Residuals	21	20	18	17	17	-1.4
Others	162	151	155	92	77	-16.4
OPEC	8,848	8,686	8,759	8,633	8,785	1.8
Gasoline	2,139	2,082	2,258	2,272	2,288	0.7
Kerosene	491	485	491	493	495	0.4
Distillates	2,278	2,080	1,959	1,962	1,995	1.7
Residuals	1,451	1,572	1,561	1,554	1,529	-1.6
Others	2,490	2,468	2,490	2,353	2,478	5.3

Table 4.7
World oil demand by country

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
North America	21,994	22,173	22,379	22,977	23,022	0.2
Canada	2,463	2,486	2,421	2,472	2,530	2.4
United States	19,529	19,684	19,955	20,503	20,489	-0.1
Others	3	3	3	3	3	-
Latin America	9,204	9,217	9,198	9,152	9,188	0.4
Argentina	716	720	736	722	709	-1.8
Brazil	3,111	3,072	3,104	3,162	3,236	2.3
Colombia	319	324	331	336	348	3.4
Ecuador	259	247	241	260	271	4.5
Mexico	2,006	2,053	2,019	1,941	1,906	-1.8
Venezuela	658	566	503	403	367	-9.0
Others	2,135	2,235	2,264	2,328	2,352	1.0
Eastern Europe and Eurasia	5,943	6,035	6,254	6,412	6,526	1.8
Czech Republic	196	180	214	217	222	2.3
Hungary	155	156	167	171	172	0.7
Kazakhstan	271	290	294	308	317	2.9
Poland	541	582	658	682	696	2.1
Romania	180	187	195	197	202	2.3
Russia	3,434	3,430	3,477	3,549	3,608	1.7
Slovakia	79	82	90	92	87	-6.0
Ukraine	257	269	272	280	286	1.9
Others	829	860	887	916	937	2.3
Western Europe	13,121	13,269	13,491	13,398	13,414	0.1
France	1,744	1,706	1,736	1,712	1,713	0.1
Germany	2,368	2,383	2,450	2,354	2,386	1.4
Italy	1,274	1,237	1,245	1,270	1,235	-2.7
Netherlands	921	937	946	910	876	-3.8
Spain	1,247	1,290	1,297	1,334	1,329	-0.4
United Kingdom	1,560	1,584	1,596	1,575	1,595	1.3
Others	4,007	4,132	4,221	4,244	4,280	0.9
Middle East	8,323	8,381	8,477	8,375	8,467	1.1
IR Iran	1,795	1,801	1,819	1,854	1,838	-0.9
Iraq	686	757	723	704	716	1.7
Kuwait	383	380	401	417	460	10.3
Qatar	286	350	339	330	342	3.7
Saudi Arabia	3,319	3,210	3,272	3,105	3,199	3.0
Syrian Arab Republic	131	141	157	137	127	-7.4
United Arab Emirates	778	799	819	885	899	1.6
Others	945	942	946	942	886	-6.0
Africa	3,992	4,095	4,203	4,335	4,448	2.6
Algeria	419	399	422	431	448	3.7
Angola	142	122	115	121	122	1.2
Congo	8	8	8	8	9	1.1
Egypt	823	872	855	794	787	-0.8
Equatorial Guinea	8	6	5	5	5	-2.2
Gabon	36	37	38	38	39	1.2
Libya	211	208	208	215	214	-0.4
Nigeria	408	393	426	446	470	5.5
South Africa	642	658	668	671	684	1.9
Tunisia	88	90	99	109	113	3.3
Others	1,208	1,303	1,360	1,497	1,558	4.1
Asia and Pacific	31,672	32,558	33,449	34,175	34,606	1.3
Australia	1,123	1,117	1,175	1,196	1,184	-0.9
China	11,490	11,801	12,321	12,712	13,074	2.9
India	4,051	4,387	4,531	4,731	4,843	2.4
Indonesia	1,669	1,684	1,715	1,773	1,796	1.3
Japan	4,142	4,013	3,925	3,813	3,690	-3.2
New Zealand	160	167	176	182	184	1.2
South Korea	2,473	2,605	2,630	2,634	2,606	-1.1
Thailand	1,325	1,378	1,409	1,443	1,466	1.6
Others	5,240	5,405	5,567	5,690	5,762	1.3
Total world	94,248	95,727	97,450	98,823	99,671	0.9
<i>of which</i>						
OPEC	8,848	8,686	8,759	8,633	8,785	1.8
<i>OPEC percentage</i>	<i>9.4</i>	<i>9.1</i>	<i>9.0</i>	<i>8.7</i>	<i>8.8</i>	
OECD	46,632	47,065	47,606	47,986	47,878	-0.2
FSU	4,650	4,700	4,776	4,891	4,981	1.9

Table 4.8

World oil demand by main petroleum product and region

(1,000 b/d)

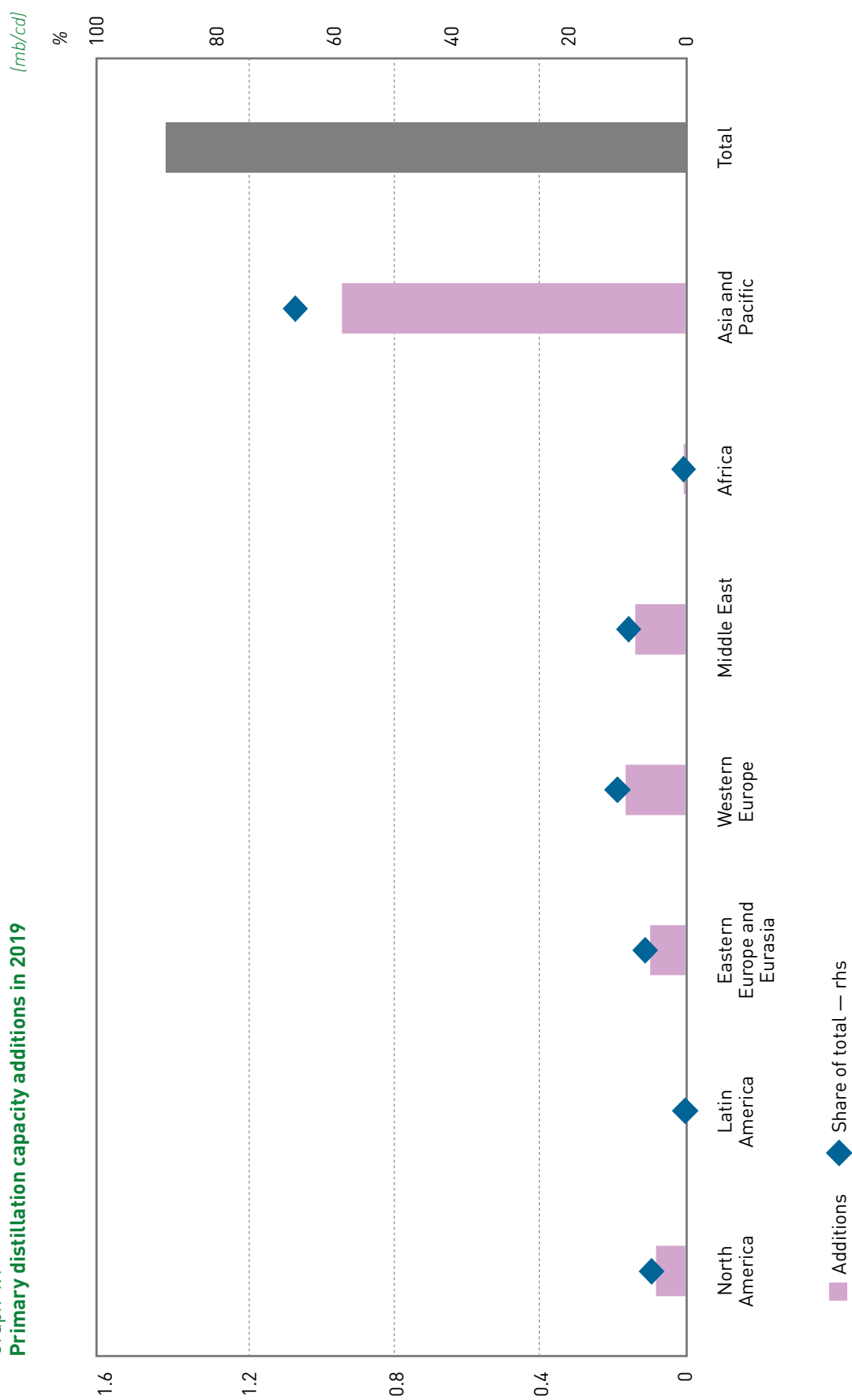
	2015	2016	2017	2018	2019	% change 19/18
North America	21,994	22,173	22,379	22,977	23,022	0.2
Gasoline	10,099	10,206	10,223	10,233	10,200	-0.3
Kerosene	1,692	1,762	1,838	1,906	1,946	2.1
Distillates	4,712	4,420	4,457	4,643	4,650	0.2
Residuals	252	399	425	440	425	-3.4
Others	5,239	5,386	5,435	5,755	5,800	0.8
Latin America	9,204	9,217	9,198	9,152	9,188	0.4
Gasoline	2,751	2,805	2,831	2,811	2,808	-0.1
Kerosene	397	386	394	404	414	2.5
Distillates	2,780	2,643	2,604	2,585	2,597	0.5
Residuals	870	735	753	758	753	-0.7
Others	2,406	2,647	2,616	2,594	2,616	0.8
Eastern Europe and Eurasia	5,943	6,035	6,254	6,412	6,526	1.8
Gasoline	1,361	1,387	1,407	1,432	1,442	0.7
Kerosene	299	299	302	317	334	5.4
Distillates	1,935	2,032	2,060	2,087	2,093	0.3
Residuals	368	358	354	349	332	-4.9
Others	1,980	1,960	2,132	2,227	2,326	4.4
Western Europe	13,121	13,269	13,491	13,398	13,414	0.1
Gasoline	1,761	1,791	1,810	1,840	1,856	0.9
Kerosene	1,309	1,371	1,447	1,522	1,552	2.0
Distillates	5,845	5,902	6,043	6,008	6,065	0.9
Residuals	968	948	1,002	1,003	985	-1.8
Others	3,238	3,258	3,190	3,026	2,958	-2.3
Middle East	8,323	8,381	8,477	8,375	8,467	1.1
Gasoline	1,565	1,560	1,706	1,726	1,730	0.2
Kerosene	517	552	564	574	584	1.7
Distillates	2,048	1,929	1,862	1,821	1,841	1.1
Residuals	1,468	1,548	1,542	1,535	1,512	-1.5
Others	2,724	2,791	2,803	2,719	2,800	3.0
Africa	3,992	4,095	4,203	4,335	4,448	2.6
Gasoline	1,033	1,035	1,075	1,119	1,149	2.7
Kerosene	299	325	329	334	341	2.1
Distillates	1,618	1,644	1,674	1,710	1,753	2.5
Residuals	438	432	437	427	419	-1.9
Others	604	660	689	745	787	5.5

Table 4.8
World oil demand by main petroleum product and region

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
Asia and Pacific	31,672	32,558	33,449	34,175	34,606	1.3
Gasoline	6,390	6,709	7,086	7,245	7,353	1.5
Kerosene	2,291	2,468	2,523	2,589	2,659	2.7
Distillates	8,840	8,935	9,104	9,130	9,228	1.1
Residuals	2,532	2,547	2,567	2,607	2,508	-3.8
Others	11,618	11,898	12,169	12,604	12,858	2.0
Total world	94,248	95,727	97,450	98,823	99,671	0.9
Gasoline	24,960	25,493	26,138	26,406	26,538	0.5
Kerosene	6,805	7,164	7,397	7,646	7,830	2.4
Distillates	27,778	27,504	27,803	27,982	28,225	0.9
Residuals	6,897	6,967	7,079	7,118	6,933	-2.6
Others	27,809	28,600	29,034	29,671	30,144	1.6
<i>of which</i>						
OPEC	8,848	8,686	8,759	8,633	8,785	1.8
Gasoline	2,139	2,082	2,258	2,272	2,288	0.7
Kerosene	491	485	491	493	495	0.4
Distillates	2,278	2,080	1,959	1,962	1,995	1.7
Residuals	1,451	1,572	1,561	1,554	1,529	-1.6
Others	2,490	2,468	2,490	2,353	2,478	5.3
OECD	46,632	47,065	47,606	47,986	47,878	-0.2
Gasoline	14,343	14,565	14,571	14,605	14,568	-0.3
Kerosene	3,993	4,152	4,308	4,457	4,510	1.2
Distillates	13,267	13,200	13,393	13,562	13,658	0.7
Residuals	2,140	2,199	2,312	2,325	2,239	-3.7
Others	12,889	12,949	13,022	13,037	12,903	-1.0
FSU	4,650	4,700	4,776	4,891	4,981	1.9
Gasoline	1,161	1,177	1,197	1,222	1,232	0.8
Kerosene	267	265	268	283	290	2.5
Distillates	1,327	1,362	1,390	1,417	1,423	0.4
Residuals	336	322	317	312	305	-2.2
Others	1,559	1,574	1,603	1,655	1,730	4.5

Graph 4.1
Primary distillation capacity additions in 2019



SECTION 5

Oil trade

Table 5.1
OPEC Members' crude oil exports by destination

[1,000 b/d]

	Destination	2015	2016	2017	2018	2019
Algeria		642.2	668.3	632.6	571.0	584.2
	Europe	543.9	394.0	388.8	347.2	364.0
	North America	35.3	143.4	74.2	65.1	15.7
	Asia and Pacific	36.6	86.1	122.6	116.3	137.3
	Latin America	26.4	44.1	46.9	40.4	43.9
	Africa	–	0.7	–	2.1	–
	Middle East	–	–	–	–	23.2
Angola		1,710.9	1,670.1	1,576.7	1,420.6	1,318.7
	Europe	435.6	326.5	105.0	133.8	163.9
	North America	114.0	59.9	113.3	70.0	35.1
	Asia and Pacific	1,058.9	1,163.9	1,259.3	1,141.4	1,079.2
	Latin America	31.3	39.0	26.7	17.4	25.0
	Africa	71.2	80.8	72.4	41.9	15.5
	Middle East	–	–	–	16.1	–
Congo		227.0	254.3	261.2	307.1	309.4
	Europe	69.7	39.3	14.6	5.0	17.6
	North America	7.9	9.1	5.2	12.9	15.2
	Asia and Pacific	144.5	198.7	235.0	285.5	273.9
	Latin America	4.9	0.7	–	–	2.6
	Africa	–	–	–	–	–
	Middle East	–	6.4	6.5	3.7	–
Equatorial Guinea		182.4	157.6	124.8	121.0	110.2
	Europe	118.2	104.1	57.1	44.8	37.2
	North America	–	3.3	7.2	14.6	15.1
	Asia and Pacific	64.1	50.1	60.5	55.9	57.9
	Latin America	–	–	–	5.6	–
	Africa	–	–	–	–	–
	Middle East	–	–	–	–	–
Gabon		206.4	205.2	188.4	174.1	206.9
	Europe	53.3	48.4	35.5	20.0	20.1
	North America	10.0	1.2	6.2	5.9	–
	Asia and Pacific	126.0	123.4	136.9	134.7	185.8
	Latin America	15.7	29.6	7.8	11.9	–
	Africa	1.4	2.6	2.0	1.5	1.0
	Middle East	–	–	–	–	–
IR Iran		1,081.1	1,921.7	2,125.0	1,849.6	651.1
	Europe	111.4	497.3	755.0	442.6	59.5
	North America	–	–	–	–	–
	Asia and Pacific	969.7	1,423.6	1,370.0	1,407.0	591.6
	Latin America	–	–	–	–	–
	Africa	–	0.8	–	–	–
	Middle East	–	–	–	–	–
Iraq		3,004.9	3,803.5	3,802.0	3,862.0	3,968.2
	Europe	844.8	981.8	987.8	892.8	1,071.1
	North America	220.0	416.9	598.4	503.1	300.4
	Asia and Pacific	1,876.2	2,270.6	2,130.4	2,419.3	2,506.8
	Latin America	63.8	134.3	27.4	28.6	8.1
	Africa	–	–	17.0	18.2	45.9
	Middle East	–	–	41.0	–	35.9

Table 5.1
OPEC Members' crude oil exports by destination

(1,000 b/d)

	Destination	2015	2016	2017	2018	2019
Kuwait		1,963.8	2,128.2	2,010.0	2,050.0	1,986.3
	Europe	118.0	181.1	137.5	38.6	16.2
	North America	196.5	244.5	253.8	205.6	153.3
	Asia and Pacific	1,561.1	1,643.4	1,579.5	1,749.6	1,749.0
	Latin America	–	–	–	–	–
	Africa	88.2	59.2	39.2	56.2	67.9
	Middle East	–	–	–	–	–
Libya		288.4	350.1	792.1	998.5	1,035.7
	Europe	261.3	302.1	635.6	668.9	688.8
	North America	2.5	16.5	56.4	55.8	63.8
	Asia and Pacific	22.0	28.6	98.2	269.2	274.3
	Latin America	0.8	–	–	3.3	4.3
	Africa	1.7	2.9	1.9	1.4	4.6
	Middle East	–	–	–	–	–
Nigeria		2,114.0	1,738.0	1,811.1	1,979.5	2,008.2
	Europe	992.3	611.5	692.6	1,058.4	680.6
	North America	83.6	307.1	331.5	172.0	27.5
	Asia and Pacific	550.3	489.4	512.6	387.2	664.9
	Latin America	209.1	81.3	50.1	52.3	252.2
	Africa	278.7	248.7	221.8	309.5	260.7
	Middle East	–	–	2.5	–	122.3
Saudi Arabia		7,163.3	7,463.4	6,968.3	7,371.5	7,038.1
	Europe	877.3	870.8	777.4	869.3	797.4
	North America	1,190.8	1,177.0	1,003.5	1,020.3	560.5
	Asia and Pacific	4,592.0	4,918.1	4,797.3	4,980.8	5,170.4
	Latin America	70.0	71.4	71.3	70.5	66.7
	Africa	147.0	153.1	163.8	163.8	177.0
	Middle East	286.3	272.9	155.1	266.9	266.0
United Arab Emirates		2,441.5	2,407.8	2,378.7	2,296.5	2,414.2
	Europe	17.0	18.4	–	–	–
	North America	–	6.6	13.4	5.0	2.8
	Asia and Pacific	2,385.5	2,361.0	2,345.0	2,267.5	2,368.2
	Latin America	–	–	–	–	–
	Africa	32.0	20.5	12.4	24.0	43.2
	Middle East	7.0	1.3	7.9	–	–
Venezuela		1,974.2	1,835.0	1,596.4	1,273.1	846.6
	Europe	88.3	63.6	65.4	49.4	98.2
	North America	670.8	645.9	545.6	494.3	28.2
	Asia and Pacific	662.3	682.8	643.8	592.8	666.2
	Latin America	552.8	442.7	341.6	133.9	45.9
	Africa	–	–	–	–	0.9
	Middle East	–	–	–	2.7	7.1
OPEC		23,000.0	24,603.1	24,267.3	24,274.5	22,477.8
	Europe	4,531.1	4,438.9	4,652.4	4,570.7	4,014.7
	North America	2,531.3	3,031.5	3,008.7	2,624.7	1,217.6
	Asia and Pacific	14,049.4	15,439.7	15,291.2	15,807.2	15,725.6
	Latin America	974.8	843.2	571.6	363.9	448.6
	Africa	620.2	569.2	530.5	618.8	616.7
	Middle East	293.2	280.6	213.0	289.3	454.6

Notes:

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

Table 5.2
World crude oil exports by country

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
North America	2,765.8	3,332.8	4,052.2	5,224.0	6,239.7	19.4
Canada	2,301.2	2,742.1	2,893.8	3,177.4	3,261.4	2.6
United States	464.6	590.8	1,158.3	2,046.6	2,978.3	45.5
Latin America	5,141.3	5,119.4	5,057.5	4,740.7	4,490.3	-5.3
Brazil	736.0	891.3	1,127.4	1,147.0	1,301.3	13.4
Colombia	667.0	613.5	615.0	581.0	616.0	6.0
Ecuador	432.9	414.7	385.4	371.2	397.8	7.2
Mexico	1,247.1	1,274.4	1,264.6	1,285.5	1,200.4	-6.6
Trinidad & Tobago	29.1	28.3	23.5	21.8	47.7	118.7
Venezuela	1,974.2	1,835.0	1,596.4	1,273.1	846.6	-33.5
Others	55.1	62.3	45.2	61.0	80.5	31.9
Eastern Europe and Eurasia	6,909.1	7,056.9	7,128.0	7,302.7	7,300.5	-
Azerbaijan	663.1	655.1	615.3	608.6	559.3	-8.1
Kazakhstan	1,229.3	1,229.5	1,370.7	1,401.2	1,410.9	0.7
Russia	4,899.3	5,079.3	5,057.5	5,206.8	5,253.0	0.9
Others	117.4	93.0	84.5	86.2	77.3	-10.3
Western Europe	1,949.4	2,095.5	2,186.6	2,152.3	2,136.9	-0.7
Norway	1,234.7	1,372.7	1,362.1	1,254.9	1,233.5	-1.7
United Kingdom	594.8	620.3	693.1	817.7	835.4	2.2
Others	120.0	102.5	131.5	79.6	68.0	-14.6
Middle East	17,037.3	19,321.1	18,756.8	18,916.8	17,630.1	-6.8
IR Iran	1,081.1	1,921.7	2,125.0	1,849.6	651.1	-64.8
Iraq	3,004.9	3,803.5	3,802.0	3,862.0	3,968.2	2.8
Kuwait	1,963.8	2,128.2	2,010.0	2,050.0	1,986.3	-3.1
Oman	788.0	887.5	803.0	807.8	838.6	3.8
Qatar	490.7	503.4	466.0	477.3	524.5	9.9
Saudi Arabia	7,163.3	7,463.4	6,968.3	7,371.5	7,038.1	-4.5
United Arab Emirates	2,441.5	2,407.8	2,378.7	2,296.5	2,414.2	5.1
Others	104.0	205.5	203.7	202.0	209.0	3.5
Africa	6,410.3	5,957.0	6,226.5	6,436.0	6,454.2	0.3
Algeria	642.2	668.3	632.6	571.0	584.2	2.3
Angola	1,710.9	1,670.1	1,576.7	1,420.6	1,318.7	-7.2
Congo	227.0	254.3	261.2	307.1	309.4	0.7
Egypt	155.8	164.6	139.3	114.9	90.3	-21.5
Equatorial Guinea	182.4	157.6	124.8	121.0	110.2	-8.9
Gabon	206.4	205.2	188.4	174.1	206.9	18.9
Libya	288.4	350.1	792.1	998.5	1,035.7	3.7
Nigeria	2,114.0	1,738.0	1,811.1	1,979.5	2,008.2	1.5
Sudans	166.0	119.6	98.5	114.8	138.2	20.3
Others	717.3	629.4	601.8	634.5	652.4	2.8
Asia and Pacific	1,297.0	1,309.2	1,254.6	1,127.0	930.2	-17.5
Australia	221.8	199.5	179.3	214.3	249.7	16.5
Brunei	112.1	104.7	98.0	91.9	106.9	16.3
China	57.3	58.6	97.1	52.4	17.6	-66.4
Indonesia	315.1	334.5	284.8	205.7	68.3	-66.8
Malaysia	338.1	342.8	344.8	357.5	287.0	-19.7
Vietnam	143.6	146.3	129.5	88.5	85.4	-3.5
Others	108.9	122.9	121.1	116.7	115.3	-1.2
Total world	41,510.2	44,191.9	44,662.2	45,899.5	45,181.8	2.8
<i>of which</i>						
OPEC	23,000.0	24,603.1	24,267.3	24,274.5	22,477.8	-7.4
<i>OPEC percentage</i>	<i>55.4</i>	<i>55.7</i>	<i>54.3</i>	<i>52.9</i>	<i>49.7</i>	
OECD	6,223.3	6,867.0	7,674.5	8,860.7	9,844.7	11.1
FSU	6,898.1	7,078.0	7,152.0	7,267.0	7,270.3	-

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)

	2015	2016	2017	2018	2019	% change 19/18
North America	4,757.6	5,105.2	5,710.2	5,995.6	6,070.0	1.2
Canada	483.9	435.9	490.9	444.0	480.7	8.2
United States	4,273.7	4,669.3	5,219.3	5,551.6	5,589.3	0.7
Latin America	1,187.6	1,229.3	1,126.8	1,074.4	814.6	-24.2
Brazil	124.5	124.4	133.1	170.5	217.2	27.4
Ecuador	15.6	31.4	42.3	42.2	38.9	-7.7
Mexico	191.1	181.7	156.3	140.2	110.1	-21.5
Trinidad & Tobago	91.5	121.0	118.2	119.4	14.7	-87.7
Venezuela	317.8	262.5	211.7	219.0	94.7	-56.7
Others	447.2	508.2	465.2	383.1	339.0	-11.5
Eastern Europe and Eurasia	3,807.7	3,633.3	3,563.9	3,519.1	3,527.1	0.2
Romania	88.2	96.1	89.2	95.3	95.2	-0.2
Russia	2,725.8	2,501.7	2,478.6	2,509.9	2,555.9	1.8
Others	993.7	1,035.6	996.1	913.8	876.0	-4.1
Western Europe	6,934.1	7,085.5	7,435.6	7,189.0	6,884.4	-4.2
Belgium	531.7	537.8	623.5	621.6	607.6	-2.3
France	440.3	428.1	434.8	423.9	368.3	-13.1
Germany	453.4	465.5	483.1	461.9	449.1	-2.8
Italy	564.8	582.2	634.4	580.4	557.3	-4.0
Netherlands	2,245.3	2,303.5	2,335.2	2,296.9	2,234.2	-2.7
Norway	402.2	351.8	433.2	416.1	428.5	3.0
Spain	411.5	422.9	470.7	453.0	419.5	-7.4
Sweden	297.7	320.6	349.6	346.9	229.7	-33.8
United Kingdom	484.9	523.2	505.6	481.3	449.7	-6.6
Others	1,102.3	1,149.8	1,165.6	1,107.2	1,140.6	3.0
Middle East	3,666.7	4,247.8	3,979.1	4,700.1	4,081.4	-13.2
Bahrain	249.3	230.3	240.7	237.9	249.1	4.7
IR Iran	514.3	515.0	270.2	272.1	284.6	4.6
Iraq	13.7	36.8	20.1	45.7	106.6	133.4
Kuwait	739.4	707.4	640.0	630.4	637.1	1.1
Qatar	521.0	568.1	639.4	552.2	537.6	-2.7
Saudi Arabia	1,154.7	1,502.6	1,438.2	1,971.2	1,300.3	-34.0
United Arab Emirates	414.8	630.0	653.7	916.0	881.8	-3.7
Others	59.6	57.6	76.9	74.6	84.3	12.9
Africa	915.2	862.1	831.6	834.3	839.3	0.6
Algeria	605.4	541.1	569.7	532.1	506.2	-4.9
Angola	36.7	54.3	17.2	17.6	16.8	-4.6
Congo	5.8	5.7	5.8	5.9	5.9	1.2
Egypt	46.5	36.3	30.7	63.1	106.8	69.2
Equatorial Guinea	-	-	-	-	-	-
Gabon	10.7	10.4	12.3	8.9	7.5	-15.2
Libya	21.8	23.1	23.5	25.4	21.0	-17.3
Nigeria	18.0	17.9	19.3	21.3	20.1	-5.4
Others	170.3	173.1	153.2	160.1	154.9	-3.2
Asia and Pacific	7,039.5	7,755.4	8,012.7	7,875.9	7,917.1	0.5
Australia	41.9	49.5	50.7	64.5	95.6	48.3
China	836.4	1,088.5	1,168.8	1,276.1	1,462.9	14.6
India	1,245.4	1,401.7	1,411.4	1,344.3	1,359.8	1.2
Indonesia	89.1	82.9	80.3	86.8	89.0	2.5
Japan	559.5	594.8	575.3	548.1	609.4	11.2
Malaysia	440.8	609.3	632.1	662.6	645.9	-2.5
Singapore	1,870.5	1,995.0	2,088.3	1,776.7	1,621.8	-8.7
South Korea	1,279.5	1,312.9	1,368.7	1,435.2	1,409.1	-1.8
Others	676.3	620.9	637.2	681.7	623.6	-8.5
Total world	28,308.5	29,918.6	30,659.8	31,188.4	30,133.8	-3.4
<i>of which</i>						
OPEC	3,853.1	4,307.0	3,881.6	4,665.5	3,882.7	-16.8
<i>OPEC percentage</i>	<i>13.6</i>	<i>14.4</i>	<i>12.7</i>	<i>15.0</i>	<i>12.9</i>	
OECD	14,421.4	14,944.4	15,885.0	15,938.3	15,702.4	-1.5
FSU	3,566.1	3,478.8	3,392.0	3,510.4	3,489.2	-0.6

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)

	2015	2016	2017	2018	2019	% change 19/18
North America	4,757.6	5,105.2	5,710.2	5,995.6	6,070.0	1.2
Gasoline	791.2	933.4	1,014.6	1,096.3	1,087.9	-0.8
Kerosene	180.5	184.2	200.5	240.6	246.1	2.3
Distillates	1,324.6	1,314.4	1,528.4	1,410.5	1,475.7	4.6
Residuals	385.6	352.5	363.5	381.9	264.3	-30.8
Others	2,075.8	2,320.7	2,603.3	2,866.3	2,995.9	4.5
Latin America	1,187.6	1,229.3	1,126.8	1,074.4	814.6	-24.2
Gasoline	91.3	116.9	91.2	88.2	90.9	3.0
Kerosene	67.1	55.0	55.5	59.5	60.8	2.2
Distillates	77.0	134.2	97.4	94.7	62.2	-34.3
Residuals	548.7	582.1	576.3	553.3	392.8	-29.0
Others	403.5	341.1	306.5	278.7	207.9	-25.4
Eastern Europe and Eurasia	3,807.7	3,633.3	3,563.9	3,519.1	3,527.1	0.2
Gasoline	434.5	442.4	422.4	342.7	354.9	3.6
Kerosene	99.6	101.7	91.3	90.3	94.4	4.5
Distillates	1,635.2	1,551.4	1,568.4	1,398.5	1,334.7	-4.6
Residuals	1,346.3	1,134.1	1,068.5	831.7	851.1	2.3
Others	292.1	403.7	413.3	855.8	891.9	4.2
Western Europe	6,934.1	7,085.5	7,435.6	7,189.0	6,884.4	-4.2
Gasoline	1,808.8	1,800.3	1,884.1	1,869.0	1,880.2	0.6
Kerosene	298.0	315.7	347.3	387.2	397.4	2.6
Distillates	1,911.3	2,024.4	2,139.4	1,890.4	1,869.5	-1.1
Residuals	1,419.1	1,328.4	1,072.0	948.6	798.2	-15.9
Others	1,497.0	1,616.6	1,992.7	2,093.8	1,939.1	-7.4
Middle East	3,666.7	4,247.8	3,979.1	4,700.1	4,081.4	-13.2
Gasoline	531.2	580.1	745.9	903.1	817.8	-9.4
Kerosene	615.0	688.5	610.1	785.4	747.8	-4.8
Distillates	573.0	663.9	579.4	748.7	826.7	10.4
Residuals	493.8	532.3	717.7	869.0	783.3	-9.9
Others	1,453.6	1,783.0	1,326.1	1,393.9	905.7	-35.0
Africa	915.2	862.1	831.6	834.3	839.3	0.6
Gasoline	15.0	23.1	10.6	11.9	17.7	49.3
Kerosene	54.3	42.4	43.8	41.9	31.0	-26.0
Distillates	20.3	11.1	3.2	1.8	1.5	-15.1
Residuals	285.0	322.9	309.4	271.0	303.6	12.0
Others	540.7	462.6	464.6	507.8	485.5	-4.4

Table 5.4

World exports of petroleum products by main petroleum product and region

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
Asia and Pacific	7,039.5	7,755.4	8,012.7	7,875.9	7,917.1	0.5
Gasoline	1,445.0	1,595.2	1,660.2	1,602.9	1,602.1	-0.1
Kerosene	855.8	890.3	908.9	905.7	985.8	8.8
Distillates	2,071.6	2,434.3	2,427.2	2,476.3	2,502.8	1.1
Residuals	1,278.6	1,354.8	1,455.5	1,404.0	1,273.0	-9.3
Others	1,388.6	1,480.7	1,560.9	1,487.1	1,553.4	4.5
Total world	28,308.5	29,918.6	30,659.8	31,188.4	30,133.8	-3.4
Gasoline	5,116.9	5,491.4	5,828.9	5,914.0	5,851.4	-1.1
Kerosene	2,170.2	2,277.8	2,257.3	2,510.6	2,563.4	2.1
Distillates	7,612.9	8,133.8	8,343.4	8,020.9	8,073.2	0.7
Residuals	5,757.1	5,607.1	5,562.9	5,259.5	4,666.4	-11.3
Others	7,651.3	8,408.5	8,667.2	9,483.4	8,979.3	-5.3
<i>of which</i>						
OPEC	3,853.1	4,307.0	3,881.6	4,665.5	3,882.7	-16.8
Gasoline	226.1	290.9	300.0	521.4	239.8	-54.0
Kerosene	552.7	586.9	495.0	605.2	529.0	-12.6
Distillates	806.2	1,052.5	971.0	1,307.7	1,077.6	-17.6
Residuals	898.1	982.2	873.9	960.8	774.8	-19.4
Others	1,370.0	1,394.4	1,241.8	1,270.4	1,261.6	-0.7
OECD	14,421.4	14,944.4	15,885.0	15,938.3	15,702.4	-1.5
Gasoline	3,007.3	3,123.2	3,312.7	3,397.5	3,378.4	-0.6
Kerosene	849.1	883.6	942.0	1,008.2	1,037.7	2.9
Distillates	4,171.7	4,237.5	4,513.3	4,180.6	4,263.4	2.0
Residuals	2,119.5	2,009.7	1,764.2	1,681.0	1,323.5	-21.3
Others	4,273.8	4,690.4	5,352.7	5,671.0	5,699.3	0.5
FSU	3,566.1	3,478.8	3,392.0	3,510.4	3,489.2	-0.6
Gasoline	297.2	313.4	292.7	284.2	299.8	5.5
Kerosene	86.7	90.9	85.6	101.0	108.3	7.3
Distillates	1,601.4	1,554.3	1,566.1	1,732.5	1,652.0	-4.6
Residuals	1,389.3	1,194.9	1,113.9	1,037.8	1,089.3	5.0
Others	191.6	325.4	333.8	354.9	339.7	-4.3

Notes:

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

(1,000 b/d)

Graph 5.1
World inter-regional trade of crude oil, 2019

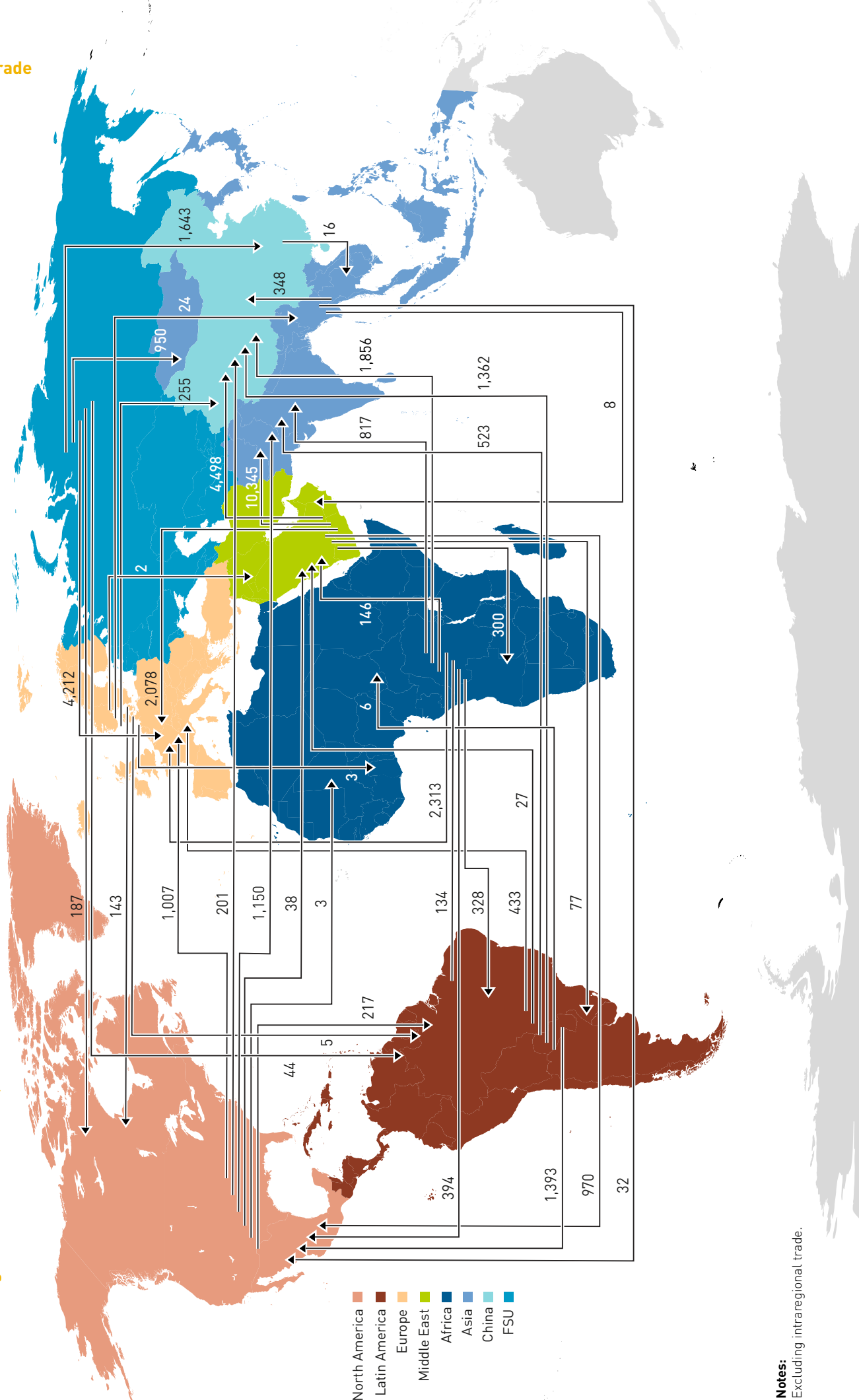


Table 5.5

World exports of crude oil and petroleum products by country

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
North America	7,523.4	8,438.0	9,762.4	11,219.6	12,309.7	9.7
Canada	2,785.2	3,178.0	3,384.7	3,621.5	3,742.1	3.3
United States	4,738.3	5,260.1	6,377.7	7,598.2	8,567.6	12.8
Latin America	6,329.0	6,348.6	6,184.3	5,815.1	5,304.8	-8.8
Brazil	860.5	1,015.7	1,260.5	1,317.5	1,518.4	15.2
Colombia	720.4	710.4	694.0	659.0	701.5	6.4
Ecuador	448.5	446.1	427.7	413.4	436.8	5.7
Mexico	1,438.2	1,456.1	1,420.9	1,425.7	1,310.5	-8.1
Trinidad & Tobago	120.5	149.3	141.7	141.2	62.4	-55.8
Venezuela	2,292.0	2,097.5	1,808.1	1,492.1	941.3	-36.9
Others	448.9	473.6	431.4	366.1	334.0	-8.8
Eastern Europe and Eurasia	10,716.7	10,690.3	10,691.9	10,821.8	10,827.6	0.1
Azerbaijan	711.2	691.9	640.1	634.9	586.0	-7.7
Kazakhstan	1,375.1	1,365.9	1,516.6	1,528.8	1,531.8	0.2
Russia	7,625.1	7,581.0	7,536.1	7,716.6	7,808.9	1.2
Others	1,005.4	1,051.4	999.1	941.4	900.9	-4.3
Western Europe	8,883.6	9,181.0	9,622.2	9,341.3	9,021.3	-3.4
Belgium	531.7	537.8	623.5	621.6	607.6	-2.3
France	440.3	428.1	434.8	423.9	368.3	-13.1
Germany	460.1	467.7	483.1	461.9	451.1	-2.3
Italy	579.0	594.8	649.4	590.5	557.3	-5.6
Netherlands	2,251.2	2,310.1	2,343.5	2,305.6	2,242.1	-2.8
Norway	1,636.9	1,724.6	1,795.2	1,671.0	1,662.0	-0.5
United Kingdom	1,079.7	1,143.5	1,198.6	1,299.0	1,285.0	-1.1
Others	1,904.7	1,974.6	2,094.1	1,967.8	1,847.9	-6.1
Middle East	20,704.1	23,568.9	22,735.9	23,616.9	21,711.4	-8.1
Bahrain	249.3	374.3	395.5	394.3	404.8	2.7
IR Iran	1,595.5	2,436.7	2,395.2	2,121.7	935.7	-55.9
Iraq	3,018.6	3,840.3	3,822.1	3,907.7	4,074.9	4.3
Kuwait	2,703.2	2,835.6	2,650.0	2,680.4	2,623.4	-2.1
Oman	814.0	912.5	828.4	833.2	874.8	5.0
Qatar	1,011.7	1,071.5	1,105.4	1,029.5	1,062.1	3.2
Saudi Arabia	8,318.1	8,965.9	8,406.5	9,342.7	8,338.4	-10.8
United Arab Emirates	2,856.2	3,037.8	3,032.4	3,212.5	3,296.0	2.6
Others	137.6	94.1	100.4	94.9	101.3	6.8
Africa	7,325.5	6,819.1	7,058.1	7,270.3	7,293.4	0.3
Algeria	1,247.6	1,209.4	1,202.2	1,103.1	1,090.4	-1.2
Angola	1,747.6	1,724.4	1,593.9	1,438.2	1,335.4	-7.1
Congo	232.7	260.0	267.0	313.0	315.3	0.7
Egypt	202.3	200.9	170.0	178.0	197.0	10.7
Equatorial Guinea	182.4	157.6	124.8	121.0	110.2	-8.9
Gabon	217.1	215.6	200.7	182.9	214.4	17.2
Libya	310.2	373.3	815.5	1,023.9	1,056.7	3.2
Nigeria	2,132.0	1,755.9	1,830.4	2,000.7	2,028.4	1.4
Sudans	174.0	128.6	107.7	124.0	147.3	18.8
Others	879.6	793.5	745.9	785.5	798.2	1.6
Asia and Pacific	8,336.5	9,064.6	9,267.2	9,002.9	8,847.3	-1.7
Australia	263.8	249.0	230.0	278.8	345.3	23.8
Brunei	113.8	106.9	99.5	93.4	108.8	16.5
China	893.7	1,147.1	1,265.9	1,328.5	1,480.5	11.4
India	1,245.4	1,401.7	1,411.4	1,344.3	1,359.8	1.2
Indonesia	404.3	417.4	365.1	292.5	157.3	-46.2
Japan	559.5	594.8	575.3	548.1	609.4	11.2
Malaysia	778.9	952.0	976.8	1,020.1	932.9	-8.5
Singapore	1,879.4	1,999.9	2,091.2	1,778.7	1,623.9	-8.7
South Korea	1,279.5	1,312.9	1,368.7	1,435.2	1,409.1	-1.8
Vietnam	175.6	177.3	161.0	120.1	114.7	-4.5
Others	742.6	705.7	722.3	763.2	705.6	-7.5
Total world	69,818.7	74,110.5	75,322.0	77,087.9	75,315.6	-2.3
<i>of which</i>						
OPEC	26,853.1	28,910.0	28,148.8	28,940.0	26,360.5	-8.9
<i>OPEC percentage</i>	<i>38.5</i>	<i>39.0</i>	<i>37.4</i>	<i>37.5</i>	<i>35.0</i>	
OECD	20,644.7	21,811.4	23,559.5	24,799.0	25,547.1	3.0
FSU	10,464.3	10,556.9	10,544.0	10,777.4	10,759.5	-0.2

Notes:

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

Table 5.6
World imports of crude oil by country

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
North America	7,928.5	8,738.5	8,776.1	8,511.3	7,595.0	-10.8
Canada	565.5	888.5	807.1	743.3	803.1	8.1
United States	7,363.0	7,850.0	7,969.0	7,768.0	6,791.8	-12.6
Latin America	919.7	828.8	851.6	845.1	783.2	-7.3
Brazil	251.7	134.3	149.8	185.6	188.9	1.8
Chile	162.2	160.8	168.0	163.9	175.2	6.9
Cuba	88.4	74.2	68.5	78.3	84.2	7.5
Trinidad & Tobago	78.3	101.0	89.7	72.4	2.9	-96.0
Others	339.2	358.6	375.6	345.0	332.0	-3.8
Eastern Europe and Eurasia	1,881.2	1,716.3	1,804.2	1,846.4	1,847.6	0.1
Belarus	461.9	365.6	365.3	367.9	363.0	-1.3
Bulgaria	121.4	124.2	137.4	128.0	141.0	10.2
Czech Republic	144.1	107.3	157.7	150.2	156.4	4.1
Hungary	125.1	121.0	120.5	134.8	123.5	-8.4
Poland	534.0	494.5	497.3	542.9	538.9	-0.7
Romania	135.5	153.2	159.1	169.9	177.8	4.7
Others	359.2	350.5	366.9	352.8	346.9	-1.7
Western Europe	10,434.2	10,273.0	10,730.0	10,387.6	10,488.9	1.0
Belgium	647.9	642.0	688.4	666.3	696.7	4.6
France	1,145.8	1,092.4	1,146.9	1,061.1	976.2	-8.0
Germany	1,843.1	1,837.4	1,832.2	1,720.4	1,735.6	0.9
Greece	445.7	473.0	478.2	491.1	460.7	-6.2
Italy	1,261.6	1,225.5	1,340.4	1,252.2	1,274.1	1.8
Netherlands	1,056.5	1,091.5	1,092.9	1,099.2	1,153.7	5.0
Spain	1,308.0	1,292.1	1,332.2	1,364.5	1,339.0	-1.9
Sweden	406.2	396.2	401.0	402.3	344.3	-14.4
Turkey	505.9	502.4	519.6	422.6	627.1	48.4
United Kingdom	856.2	797.0	893.8	889.1	909.8	2.3
Others	957.3	923.5	1,004.3	1,018.7	971.5	-4.6
Middle East	452.7	464.7	491.5	486.8	486.2	-0.1
Bahrain	218.2	212.4	222.9	220.2	226.3	2.8
Others	234.6	252.3	268.6	266.7	259.9	-2.5
Africa	656.1	615.4	585.3	627.5	640.3	2.0
Morocco	43.0	-	-	-	-	-
South Africa	420.5	431.9	402.8	436.5	451.7	3.5
Others	192.6	183.5	182.5	191.0	188.7	-1.2
Asia and Pacific	20,548.5	22,036.5	23,174.0	24,079.0	24,568.2	2.0
Australia	318.2	332.7	333.7	361.0	328.1	-9.1
China	6,730.9	7,625.4	8,425.7	9,260.2	10,180.4	9.9
India	3,935.5	4,308.3	4,341.4	4,543.6	4,505.3	-0.8
Indonesia	374.4	366.1	343.8	335.8	216.5	-35.5
Japan	3,233.5	3,157.8	3,235.2	3,055.9	3,022.7	-1.1
Malaysia	179.2	198.0	208.9	210.3	285.4	35.7
New Zealand	102.5	106.6	110.8	99.7	103.7	4.1
Philippines	188.8	212.0	196.7	229.8	134.3	-41.6
Singapore	806.3	896.9	981.7	918.7	847.6	-7.7
South Korea	2,781.1	2,928.0	3,040.6	3,036.5	2,929.0	-3.5
Thailand	874.0	852.6	906.0	951.1	932.1	-2.0
Others	1,024.0	1,052.3	1,049.6	1,076.4	1,083.0	0.6
Total world	42,821.0	44,673.2	46,412.8	46,783.9	46,409.3	-0.8
<i>of which</i>						
OECD	26,224.0	26,862.0	27,640.2	26,866.9	25,892.2	-3.6
FSU	770.9	661.3	682.2	676.6	671.4	-0.8

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)

	2015	2016	2017	2018	2019	% change 19/18
North America	2,326.7	2,450.6	2,445.2	2,474.2	2,608.0	5.4
Canada	240.7	245.6	270.2	301.6	308.2	2.2
United States	2,086.0	2,205.0	2,175.0	2,172.7	2,299.8	5.8
Latin America	2,688.4	2,776.8	3,017.2	3,323.7	3,275.5	-1.5
Brazil	556.1	550.5	697.8	640.2	725.3	13.3
Chile	154.0	156.3	160.0	162.4	154.4	-5.0
Ecuador	151.7	122.6	134.2	193.8	187.5	-3.3
Mexico	712.1	745.1	847.7	1,089.0	1,078.4	-1.0
Panama	57.4	66.1	64.4	61.5	65.6	6.7
Venezuela	187.1	160.2	164.7	245.1	167.1	-31.8
Others	870.1	976.0	948.5	931.8	897.1	-3.7
Eastern Europe and Eurasia	907.0	1,040.2	1,115.9	1,123.8	1,111.1	-1.1
Bulgaria	37.6	39.0	43.3	35.8	37.8	5.6
Hungary	57.0	65.5	84.7	83.7	88.0	5.1
Poland	127.2	169.7	209.7	202.9	195.9	-3.5
Ukraine	163.1	196.2	201.2	213.1	222.0	4.2
Others	522.2	569.8	577.0	588.3	567.4	-3.5
Western Europe	7,318.5	7,698.7	7,786.0	7,806.0	7,633.5	-2.2
Belgium	546.7	552.9	575.6	621.4	564.5	-9.2
France	857.0	825.5	861.7	896.1	939.1	4.8
Germany	800.1	827.1	880.1	866.6	905.1	4.4
Italy	261.9	324.7	346.5	362.9	322.7	-11.1
Netherlands	1,900.5	1,931.5	1,927.2	1,865.0	1,800.1	-3.5
Spain	321.7	363.8	400.7	362.1	365.1	0.8
Turkey	498.3	522.8	555.7	573.6	441.9	-23.0
United Kingdom	652.4	734.3	695.1	749.1	697.9	-6.8
Others	1,479.9	1,616.1	1,543.2	1,509.2	1,597.2	5.8
Middle East	1,844.1	1,848.5	1,929.5	2,253.8	1,549.6	-31.2
IR Iran	52.5	61.6	96.0	101.0	97.5	-3.4
Iraq	81.1	91.7	115.6	89.4	95.8	7.2
Kuwait	0.0	0.0	0.5	30.2	14.0	-
Qatar	32.8	20.6	20.5	21.5	22.5	4.3
Saudi Arabia	588.0	591.1	486.8	898.4	319.4	-64.4
United Arab Emirates	358.0	340.2	344.4	350.6	265.9	-24.2
Others	731.8	743.3	865.6	762.7	734.5	-3.7
Africa	1,917.0	1,927.7	1,907.9	1,928.1	1,950.1	1.1
Algeria	83.2	73.3	74.5	17.2	43.0	150.5
Angola	134.5	75.8	70.6	99.5	64.9	-34.7
Congo	1.1	1.4	1.6	1.7	0.4	-77.9
Egypt	367.2	351.3	318.2	278.3	263.8	-5.2
Equatorial Guinea	7.6	6.4	6.5	3.9	4.7	20.5
Gabon	5.7	6.1	6.2	7.7	7.9	2.4
Libya	106.2	107.9	130.9	136.8	144.1	5.3
Morocco	161.0	276.9	285.7	294.2	300.1	2.0
Nigeria	441.0	423.4	391.7	442.0	459.6	4.0
Tunisia	81.3	74.6	82.5	84.7	90.1	6.4
Others	528.1	530.7	539.7	562.0	571.5	1.7
Asia and Pacific	9,749.1	10,059.3	10,746.7	10,436.9	10,709.1	2.6
Australia	545.5	553.4	608.2	627.4	636.0	1.4
China	1,150.9	1,220.3	1,368.5	1,397.5	1,389.4	-0.6
India	636.5	814.1	843.5	776.5	968.6	24.7
Indonesia	506.0	498.6	586.1	510.6	726.6	42.3
Japan	972.9	868.9	923.5	976.0	896.3	-8.2
Malaysia	569.5	647.8	760.1	751.6	679.3	-9.6
Singapore	2,535.7	2,472.6	2,621.3	2,334.9	2,243.8	-3.9
South Korea	844.2	900.6	869.0	934.6	967.1	3.5
Others	1,988.0	2,083.1	2,166.5	2,127.9	2,201.9	3.5
Total world	26,750.9	27,801.9	28,948.4	29,346.6	28,836.9	-1.7
<i>of which</i>						
OPEC	2,046.1	1,939.2	1,889.8	2,423.6	1,684.4	-30.5
<i>OPEC percentage</i>	<i>7.6</i>	<i>7.0</i>	<i>6.5</i>	<i>8.3</i>	<i>5.8</i>	
OECD	13,170.1	13,740.9	13,982.7	14,368.7	14,301.7	-0.5
FSU	503.8	512.8	509.9	499.8	495.4	-0.9

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)

	2015	2016	2017	2018	2019	% change 19/18
North America	2,326.7	2,450.6	2,445.2	2,474.2	2,608.0	5.4
Gasoline	733.5	752.2	792.7	797.2	817.8	2.6
Kerosene	173.5	173.7	169.8	190.2	205.3	7.9
Distillates	236.6	229.7	225.9	241.6	223.3	-7.6
Residuals	198.4	201.0	202.4	200.2	200.4	0.1
Others	984.6	1,094.1	1,054.4	1,044.9	1,161.2	11.1
Latin America	2,688.4	2,776.8	3,017.2	3,323.7	3,275.5	-1.5
Gasoline	954.0	1,017.8	1,164.2	1,116.4	1,084.1	-2.9
Kerosene	77.4	67.2	76.9	103.5	138.6	34.0
Distillates	719.0	828.7	968.4	964.4	926.3	-4.0
Residuals	129.6	119.3	133.1	145.3	126.7	-12.8
Others	808.4	743.8	674.7	994.2	999.9	0.6
Eastern Europe and Eurasia	907.0	1,040.2	1,115.9	1,123.8	1,111.1	-1.1
Gasoline	128.0	170.7	157.4	131.7	121.3	-7.9
Kerosene	10.6	15.0	19.6	24.9	17.3	-30.4
Distillates	420.7	516.8	561.3	567.6	564.7	-0.5
Residuals	38.3	44.5	39.5	27.8	30.1	8.4
Others	309.5	293.2	338.2	371.8	377.7	1.6
Western Europe	7,318.5	7,698.7	7,786.0	7,806.0	7,633.5	-2.2
Gasoline	703.0	725.7	726.4	630.5	618.4	-1.9
Kerosene	732.3	785.8	829.0	900.9	907.5	0.7
Distillates	2,663.6	2,855.1	2,823.2	2,671.1	2,692.6	0.8
Residuals	1,207.1	1,135.7	804.6	741.6	683.2	-7.9
Others	2,012.6	2,196.4	2,602.8	2,862.0	2,731.9	-4.5
Middle East	1,844.1	1,848.5	1,929.5	2,253.8	1,549.6	-31.2
Gasoline	729.5	696.8	824.5	891.7	479.8	-46.2
Kerosene	70.0	173.4	155.8	215.7	69.3	-67.9
Distillates	701.6	609.8	347.4	450.7	262.9	-41.7
Residuals	238.8	313.0	524.9	607.8	698.9	15.0
Others	104.3	55.5	76.8	87.9	38.7	-56.0
Africa	1,917.0	1,927.7	1,907.9	1,928.1	1,950.1	1.1
Gasoline	472.9	572.4	753.7	1,012.2	836.9	-17.3
Kerosene	128.2	61.0	29.1	47.5	73.5	54.7
Distillates	643.3	652.5	652.0	513.9	641.1	24.8
Residuals	226.3	165.7	69.5	28.0	34.8	24.2
Others	446.3	476.2	403.5	326.5	363.9	11.5

Table 5.8

World imports of petroleum products by main petroleum product and region

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
Asia and Pacific	9,749.1	10,059.3	10,746.7	10,436.9	10,709.1	2.6
Gasoline	1,437.5	1,291.1	1,567.6	1,280.8	1,552.7	21.2
Kerosene	471.3	497.1	581.3	578.7	566.3	-2.1
Distillates	1,273.7	1,495.5	1,541.9	1,534.2	1,822.4	18.8
Residuals	2,832.1	2,707.1	3,054.7	2,841.8	2,461.7	-13.4
Others	3,734.5	4,068.6	4,001.2	4,201.4	4,306.0	2.5
Total world	26,750.9	27,801.9	28,948.4	29,346.6	28,836.9	-1.7
Gasoline	5,158.5	5,226.6	5,986.5	5,860.5	5,510.9	-6.0
Kerosene	1,663.2	1,773.2	1,861.3	2,061.3	1,977.8	-4.0
Distillates	6,658.4	7,188.1	7,120.1	6,943.6	7,133.2	2.7
Residuals	4,870.6	4,686.3	4,828.8	4,592.5	4,235.7	-7.8
Others	8,400.1	8,927.7	9,151.6	9,888.7	9,979.3	0.9
<i>of which</i>						
OPEC	2,046.1	1,939.2	1,889.8	2,423.6	1,684.4	-30.5
Gasoline	781.8	819.9	928.0	1,244.6	845.7	-32.1
Kerosene	92.2	62.4	13.7	98.7	70.5	-28.5
Distillates	559.8	533.0	332.5	435.6	313.7	-28.0
Residuals	176.9	205.3	290.6	353.5	249.5	-29.4
Others	435.3	318.7	325.2	291.2	204.9	-29.6
OECD	13,170.1	13,740.9	13,982.7	14,368.7	14,301.7	-0.5
Gasoline	1,982.3	2,071.2	2,172.7	2,161.7	2,195.2	1.5
Kerosene	88.2	84.1	88.6	105.1	91.2	-13.2
Distillates	3,682.2	3,944.1	3,998.3	3,978.1	3,913.5	-1.6
Residuals	1,565.1	1,481.6	1,208.0	1,184.9	1,067.3	-9.9
Others	5,852.4	6,159.8	6,515.0	6,938.9	7,034.5	1.4
FSU	503.8	512.8	509.9	499.8	495.4	-0.9
Gasoline	93.5	88.4	75.6	69.7	61.8	-11.3
Kerosene	8.5	9.7	11.1	13.3	11.7	-12.1
Distillates	250.0	270.7	263.6	251.5	252.1	0.2
Residuals	35.0	39.1	35.3	23.3	22.8	-1.9
Others	116.9	104.9	124.2	141.9	146.9	3.5

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)

	2015	2016	2017	2018	2019	% change 19/18
North America	10,255.2	11,189.1	11,221.3	10,985.5	10,203.0	-7.1
Canada	806.2	1,134.1	1,077.3	1,044.8	1,111.4	6.4
United States	9,449.0	10,055.0	10,144.0	9,940.7	9,091.6	-8.5
Latin America	3,608.1	3,605.6	3,868.8	4,168.9	4,058.7	-2.6
Brazil	807.8	684.8	847.6	825.8	914.3	10.7
Chile	316.2	317.1	328.0	326.3	329.6	1.0
Ecuador	151.7	128.6	149.5	213.6	207.4	-2.9
Mexico	712.1	745.1	847.7	1,092.9	1,078.5	-1.3
Venezuela	220.5	165.9	165.7	247.2	171.4	-30.7
Others	1,400.0	1,564.3	1,530.4	1,463.2	1,357.5	-7.2
Eastern Europe and Eurasia	2,788.2	2,756.5	2,920.2	2,970.2	2,958.6	-0.4
Belarus	473.1	388.3	394.2	380.0	372.2	-2.1
Bulgaria	159.0	163.2	180.8	163.8	178.8	9.2
Czech Republic	223.9	207.9	238.9	240.6	242.4	0.8
Hungary	182.1	186.6	205.2	218.5	211.4	-3.2
Poland	661.2	664.2	707.1	745.8	734.8	-1.5
Romania	178.9	196.3	210.3	220.4	222.3	0.9
Ukraine	167.7	206.6	221.8	228.5	238.0	4.2
Others	742.4	743.5	762.0	772.6	758.7	-1.8
Western Europe	17,752.8	17,971.7	18,516.0	18,193.6	18,122.4	-0.4
Belgium	1,194.6	1,194.9	1,264.1	1,287.8	1,261.3	-2.1
France	2,002.7	1,917.8	2,008.7	1,957.2	1,915.3	-2.1
Germany	2,643.2	2,664.5	2,712.3	2,587.0	2,640.7	2.1
Greece	530.6	555.8	559.8	562.4	558.9	-0.6
Italy	1,523.5	1,550.2	1,686.9	1,615.1	1,596.8	-1.1
Netherlands	2,957.0	3,023.0	3,020.1	2,964.2	2,953.8	-0.4
Spain	1,629.7	1,656.0	1,732.9	1,726.6	1,704.1	-1.3
Sweden	580.6	631.5	617.6	608.0	533.2	-12.3
Turkey	1,004.2	1,025.2	1,075.3	996.2	1,069.1	7.3
United Kingdom	1,508.6	1,531.3	1,589.0	1,638.2	1,607.6	-1.9
Others	2,177.9	2,221.5	2,249.3	2,250.9	2,281.7	1.4
Middle East	2,296.9	2,313.2	2,420.9	2,740.7	2,035.8	-25.7
Bahrain	231.2	225.3	236.0	234.9	241.5	2.8
IR Iran	52.5	61.6	96.0	101.0	97.5	-3.4
Iraq	81.1	91.7	115.6	89.4	95.8	7.2
Kuwait	-	-	0.5	30.2	14.0	

Table 5.9

World imports of crude oil and petroleum products by country

(1,000 b/d)

	2015	2016	2017	2018	2019	% change 19/18
Middle East (cont'd)						
Qatar	32.8	20.6	20.5	21.5	22.5	4.3
Saudi Arabia	588.0	591.1	486.8	898.4	319.4	-64.4
United Arab Emirates	396.1	392.7	412.4	392.3	318.7	-18.8
Others	915.2	930.2	1,053.0	972.9	926.4	-4.8
Africa	2,573.1	2,543.1	2,493.2	2,555.6	2,590.4	1.4
Algeria	88.9	78.2	79.3	22.7	46.5	105.1
Angola	134.5	75.8	70.6	99.5	64.9	-34.7
Congo	1.1	1.4	1.6	1.7	0.4	-77.9
Egypt	458.7	434.5	413.0	420.6	384.7	-8.5
Equatorial Guinea	7.6	6.4	6.5	3.9	4.7	20.5
Gabon	5.7	6.1	6.2	7.7	7.9	2.4
Libya	106.2	107.9	130.9	136.8	144.1	5.3
Morocco	204.0	276.9	285.7	294.2	300.1	2.0
Nigeria	441.0	423.4	391.7	442.0	459.6	4.0
South Africa	494.3	512.2	489.8	513.8	522.8	1.8
Tunisia	99.9	93.0	98.6	100.2	99.0	-1.2
Others	531.3	527.3	519.5	512.5	555.8	8.4
Asia and Pacific	30,297.6	32,095.9	33,920.7	34,515.9	35,277.3	2.2
Australia	863.8	886.1	941.9	988.3	964.1	-2.5
China	7,881.8	8,845.7	9,794.2	10,657.6	11,569.8	8.6
India	4,572.0	5,122.3	5,184.9	5,320.1	5,473.9	2.9
Indonesia	880.4	864.7	929.9	846.4	943.1	11.4
Japan	4,206.4	4,026.7	4,158.7	4,031.9	3,919.0	-2.8
Malaysia	748.7	845.8	969.0	961.9	964.8	0.3
New Zealand	148.1	160.9	166.2	168.6	162.3	-3.7
Philippines	394.3	442.3	483.4	483.2	471.8	-2.4
Singapore	3,341.9	3,369.5	3,602.9	3,253.6	3,091.4	-5.0
South Korea	3,625.3	3,828.6	3,909.6	3,971.1	3,896.1	-1.9
Thailand	1,023.0	1,019.8	1,080.8	1,127.4	1,148.3	1.8
Others	2,611.8	2,683.4	2,699.1	2,705.8	2,672.7	-1.2
Total world	69,571.9	72,475.1	75,361.1	76,130.5	75,246.2	-1.2
<i>of which</i>						
OPEC	2,123.2	2,002.2	1,963.6	2,472.9	1,744.9	-29.4
OECD	39,394.1	40,602.9	41,622.9	41,235.6	40,193.9	-2.5
FSU	1,274.8	1,174.2	1,192.0	1,176.3	1,166.8	-0.8

Notes:

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

(1,000 b/d)

Graph 5.2
OPEC Members' crude oil exports by destination, 2019



SECTION 6

Oil transportation

Table 6.1

Average spot freight rates by vessel category

(% of Worldscale)

	Tanker size (1,000 dwt)	2015	2016	2017	2018	2019
GP	16.5–24.9	154.6	105.3	141.5	134.6	134.0
MR	25.0–44.9	154.9	135.4	163.7	149.3	164.1
LR1	45.0–79.9	117.9	97.6	109.7	113.6	118.3
LR2	80.0–159.9	75.1	66.9	69.3	66.3	73.7
VLCC	160.0–319.9	66.0	52.9	44.9	40.7	50.2

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)

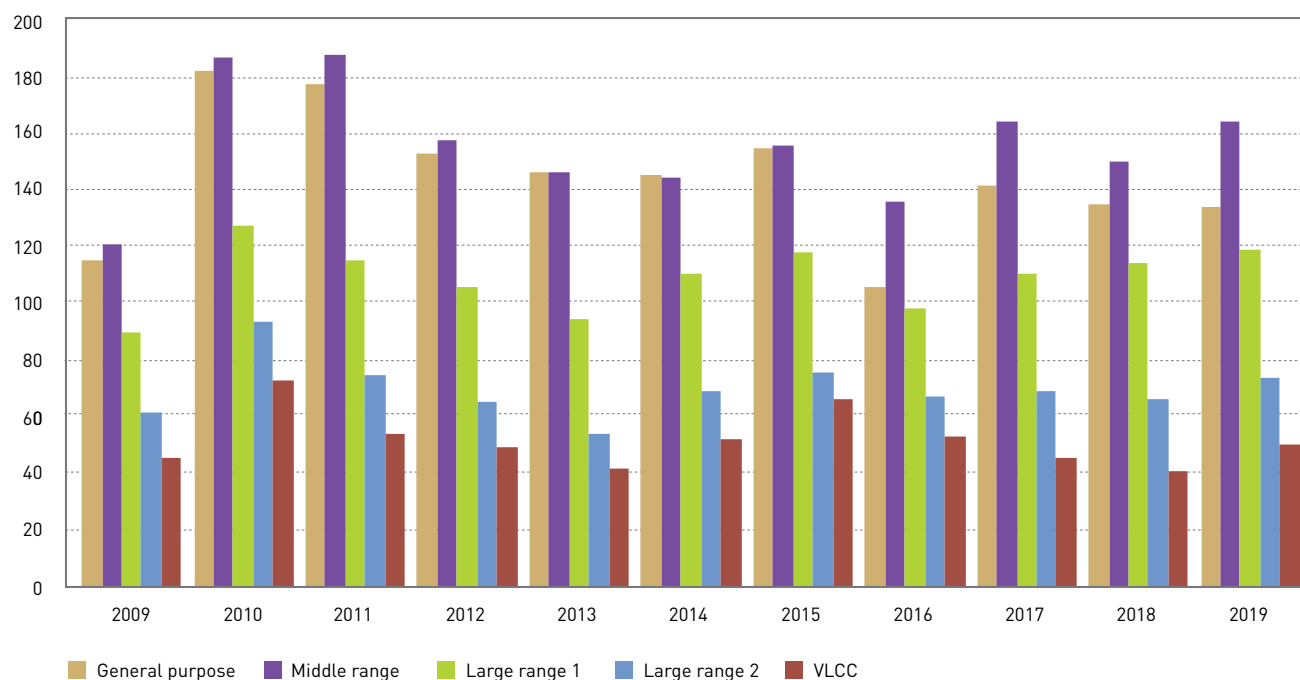


Table 6.2
Dirty tanker spot freight rates

(% of Worldscale and \$/t)

	2015		2016		2017		2018		2019	
	%	\$/t	%	\$/t	%	\$/t	%	\$/t	%	\$/t
ME/EAST	64	10.3	60	10.8	59	8.2	57	9.4	66	13.0
ME/WEST	38	13.4	37	7.6	30	4.8	25	4.7	35	7.8
WAF/EAST	63	25.0	62	17.7	62	13.5	57	14.9	66	20.5
WAF/USGC	81	20.3	70	12.6	75	10.3	72	11.6	81	15.4
WEST/USGC	66	14.3	64	11.6	63	9.2	61	9.8	67	12.5
INDO/EAST	112	16.8	99	11.4	103	9.6	102	11.0	114	14.1
CAR/USEC	134	13.3	107	8.6	121	7.8	133	9.7	128	11.2
MED/MED	108	7.1	97	6.1	106	5.7	115	6.8	116	7.9
MED/WEST	102	12.8	91	9.8	101	8.6	107	10.5	108	12.4

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)

	2015		2016		2017		2018		2019	
	%	\$/t	%	\$/t	%	\$/t	%	\$/t	%	\$/t
ME/EAST	118	31.9	100	19.5	120	18.2	118	21.1	124	26.2
SING/EAST	132	17.5	124	12.2	161	12.6	137	12.5	151	16.0
WEST/USEC	139	22.7	105	14.5	141	15.4	134	16.5	134	19.3
MED/MED	170	10.4	136	7.9	160	8.0	151	8.4	166	10.4
MED/WEST	180	23.5	146	15.5	170	14.7	160	15.9	175	20.2

Notes:

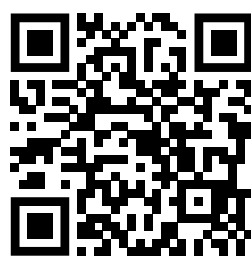
ME = Middle East; EAST = Far East; SING = Singapore; WEST = North-West Europe; USEC = US East Coast; MED = Mediterranean.

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SECTION **7**

Oil prices

Table 7.1

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

(\$/b)

	Representative crude stream	2015	2016	2017	2018	2019
Algeria	Saharan Blend	52.79	44.28	54.12	71.44	64.49
Angola	Girassol	52.96	43.61	54.47	71.72	66.11
Congo	Djeno	49.25	41.98	52.77	68.59	61.80
Equatorial Guinea	Zafiro	50.96	42.43	54.04	71.36	65.74
Gabon	Rabi Light	52.83	42.62	53.16	70.30	63.18
IR Iran	Iran Heavy	48.80	39.57	51.71	67.97	61.85
Iraq	Basrah Light	47.87	39.53	51.87	68.62	63.64
Kuwait	Kuwait Export	48.13	39.30	51.60	68.90	64.25
Libya	Es Sider	51.38	42.69	52.82	69.78	63.81
Nigeria	Bonny Light	52.95	44.02	54.55	72.11	65.63
Saudi Arabia	Arab Light	49.85	40.96	52.59	70.59	64.96
United Arab Emirates	Murban	53.87	44.83	54.82	72.20	64.72
Venezuela	Merey	41.11	34.02	47.63	64.47	54.04
OPEC	ORB	49.49	40.76	52.43	69.78	64.04
ORB	Volatility ¹	8.50	7.28	5.00	6.59	4.11
ORB	Coefficient of variation ² , %	17.18	17.85	9.54	9.44	6.43

Notes:

1. Standard deviation of daily prices.

2. Ratio of volatility to annual average price.

Graph 7.1

OPEC Reference Basket

(\$/b)

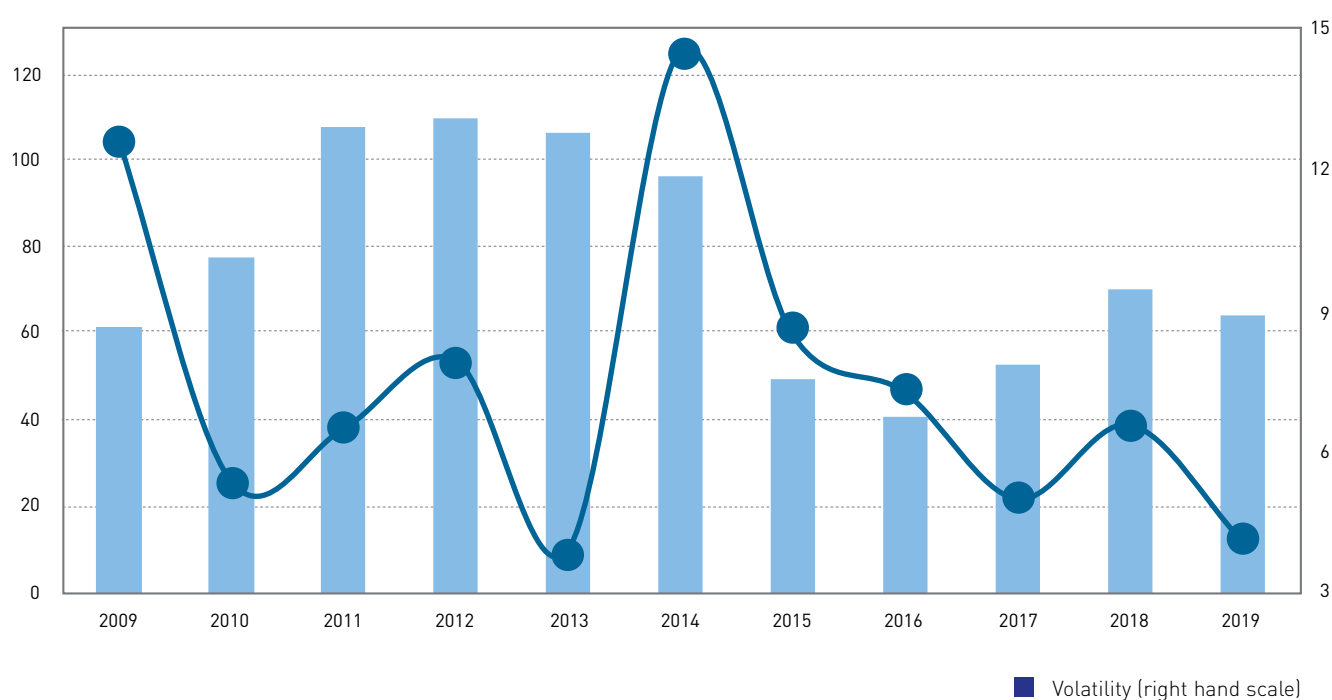


Table 7.2
Selected spot crude oil prices

(\$/b)

	Crude stream	2015	2016	2017	2018	2019
Algeria	Zarzaitine	53.00	44.02	54.08	71.35	64.42
Angola	Cabinda	51.77	42.83	54.30	71.15	65.34
Egypt	Suez Mix	48.94	40.41	51.56	68.47	62.61
IR Iran	Iran Light	51.40	41.66	52.36	69.10	62.74
Indonesia	Minas	49.17	41.11	48.99	65.44	60.25
Libya	Brega	52.08	43.73	53.62	70.65	63.76
Malaysia	Miri	57.89	46.39	56.93	75.90	69.30
Malaysia	Tapis	55.75	45.69	56.33	73.78	69.15
Mexico	Isthmus	51.14	42.37	54.60	68.74	63.00
Mexico	Maya	44.11	36.52	47.00	62.71	57.51
Nigeria	Forcados	54.41	43.70	54.58	72.56	66.19
Norway	Ekosfisk	53.12	44.01	54.49	71.86	65.24
Norway	Oseberg	53.54	44.52	55.04	72.34	65.38
Oman	Oman	51.21	41.96	53.32	70.10	64.00
Qatar	Dukhan	52.87	43.69	54.12	71.22	63.65
Russia	Urals	51.90	42.16	53.27	70.13	64.38
Saudi Arabia	Arab Heavy	47.01	38.45	50.96	68.79	63.85
United Kingdom	Brent	52.41	43.76	54.17	71.22	64.19
United Kingdom	Forties	52.50	43.42	54.20	71.21	64.66
United States	WTI	48.73	43.27	50.82	65.16	57.02
United Arab Emirates	Dubai	50.94	41.39	53.08	69.68	63.48
Spread	WTI — Brent	-3.68	-0.49	-3.35	-6.06	-7.17
	WTI — Dubai	-2.21	1.88	-2.26	-4.52	-6.46
	Brent — Dubai	1.47	2.37	1.09	1.54	0.71

Table 7.3

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

	2015	2016	2017	2018	2019
ICE Brent					
1 st forward month	53.60	45.13	54.74	71.69	64.16
6 th forward month	57.21	47.65	55.08	70.66	62.32
12 th forward month	60.18	49.49	54.88	68.94	61.19
NYMEX WTI					
1 st forward month	48.73	43.47	50.85	64.90	57.04
6 th forward month	52.56	46.88	51.95	63.59	56.80
12 th forward month	55.08	48.45	51.88	61.81	55.47
DME Oman					
1 st forward month	51.25	41.99	53.24	69.88	63.99
6 th forward month	54.36	43.89	53.47	68.25	60.93
12 th forward month	57.31	45.81	53.30	66.51	59.68

Table 7.4

OPEC Reference Basket in nominal and real terms

(\$/b)

	2015	2016	2017	2018	2019
Nominal oil price	49.49	40.76	52.43	69.78	64.04
Nominal price adjusted for:					
Exchange rates ¹	43.35	35.92	46.28	59.82	56.63
Inflation ²	39.37	32.29	40.89	53.45	48.41
Combined ³	34.49	28.45	36.09	45.82	42.81

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)

		2015	2016	2017	2018	2019
Europe						
Algeria	Saharan Blend	0.38	0.52	-0.05	0.23	0.31
IR Iran	Iran Heavy	-5.09	-6.38	-5.13	-6.27	-6.80
Iraq	Basrah Light	-4.83	-4.74	-3.41	-4.18	-3.03
Libya	Es Sider	-1.04	-1.08	-1.35	-1.43	-0.38
Nigeria	Bonny Light	0.54	0.26	0.39	0.89	1.44
Saudi Arabia	Arab Light	-3.53	-4.64	-3.20	-2.47	-1.29
Asia						
IR Iran	Iran Heavy	-2.24	-2.01	-1.11	-0.73	-0.14
Iraq	Basrah Light	-2.81	-1.94	-0.64	0.02	1.26
Kuwait	Kuwait Export	-2.73	-2.31	-1.32	-0.46	0.91
Saudi Arabia	Arab Light	-0.85	-0.42	-0.08	1.56	1.85
US						
Iraq	Basrah Light	-0.43	-0.59	-0.08	-0.37	1.33
Saudi Arabia	Arab Light	1.06	0.29	0.75	0.98	3.00
	Arab Medium	-0.53	-1.17	-0.53	-0.57	1.35
	Arab Heavy	-1.13	-1.74	-1.86	-1.74	0.52

Notes:

Premium factors are related to corresponding benchmark crudes.

Table 7.6

Spot prices of petroleum products in major markets

(\$/b)

	Specifications	2015	2016	2017	2018	2019
US Gulf						
Gasoline	Regular unleaded 87	67.58	57.15	68.57	80.17	72.70
Gasoil	0.2% sulphur	63.80	50.10	62.31	80.99	74.61
Fuel oil	3.0% sulphur	40.78	32.13	47.05	60.17	52.55
Singapore						
Gasoline	Premium unleaded 97	71.41	57.81	69.51	81.30	74.15
Gasoil	0.05% sulphur	64.57	52.05	65.69	84.05	77.22
Fuel oil	380 centistokes	44.27	34.92	49.24	64.74	56.70
Rotterdam						
Gasoline	Premium unleaded 98	75.53	63.58	75.13	87.34	79.52
Gasoil	10ppm sulphur	66.03	53.28	66.35	85.94	79.50
Fuel oil	3.5% sulphur	40.75	29.64	44.31	59.04	48.90

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	2015	2016	2017	2018	2019
US Gulf crack spread vs WTI						
Gasoline	Regular unleaded 87	18.99	14.10	17.69	15.46	15.79
Gasoil	0.2% sulphur	14.96	6.98	11.33	16.15	17.61
Fuel oil	3.0% sulphur	-8.01	-11.09	-3.82	-4.76	-4.51
Singapore crack spread vs Dubai						
Gasoline	Premium unleaded 97	20.43	16.55	16.38	11.90	10.77
Gasoil	0.05% sulphur	13.54	10.85	12.57	14.65	13.75
Fuel oil	380 centistokes	-6.77	-6.33	-3.87	-4.72	-6.83
Rotterdam crack spread vs Brent						
Gasoline	Premium unleaded 98	23.14	19.86	20.89	16.45	15.26
Gasoil	10ppm sulphur	13.51	9.57	12.11	15.00	15.26
Fuel oil	3.5% sulphur	-11.75	-14.05	-9.90	-11.90	-15.37

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

	2015			2016			2017			2018			2019		
	\$/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	105.81		-28.4	92.45		-12.6	104.70		13.3	120.61		15.2	115.91		-3.9
Crude cif price	45.81	43.3	-48.8	37.94	41.0	-17.2	48.12	46.0	26.8	59.21	49.1	23.0	56.31	48.6	-4.9
Tax	22.29	21.1	1.9	22.16	24.0	-0.6	23.26	22.2	5.0	23.80	19.7	2.3	23.84	20.6	0.1
Industry margin	37.71	35.6	3.7	32.36	35.0	-14.2	33.32	31.8	3.0	37.60	31.2	12.8	35.77	30.9	-4.9
Canada															
Composite barrel	134.91		-26.8	123.57		-8.4	138.83		12.4	156.57		12.8	144.02		-8.0
Crude cif price	53.48	39.6	-45.8	43.60	35.3	-18.5	54.30	39.1	24.5	70.88	45.3	30.5	63.12	43.8	-10.9
Tax	45.82	34.0	-16.2	44.37	35.9	-3.2	47.28	34.1	6.6	48.99	31.3	3.6	48.71	33.8	-0.6
Industry margin	35.61	26.4	15.3	35.60	28.8	0.0	37.24	26.8	4.6	36.70	23.4	-1.5	32.19	22.3	-12.3
Japan															
Composite barrel	158.82		-26.7	152.74		-3.8	166.89		9.3	192.59		15.4	192.07		-0.3
Crude cif price	54.20	34.1	-48.0	41.79	27.4	-22.9	54.42	32.6	30.2	72.85	37.8	33.9	66.78	34.8	-8.3
Tax	62.77	39.5	-12.5	68.80	45.0	9.6	69.20	41.5	0.6	72.11	37.4	4.2	74.63	38.9	3.5
Industry margin	41.85	26.4	2.9	42.15	27.6	0.7	43.28	25.9	2.7	47.63	24.7	10.1	50.66	26.4	6.4
France															
Composite barrel	205.30		-25.0	196.09		-4.5	221.24		12.8	267.64		21.0	254.15		-5.0
Crude cif price	53.14	25.9	-46.5	43.48	22.2	-18.2	54.47	24.6	25.3	71.59	26.7	31.4	64.98	25.6	-9.2
Tax	120.06	58.5	-14.2	123.43	62.9	2.8	134.91	61.0	9.3	157.17	58.7	16.5	150.00	59.0	-4.6
Industry margin	32.10	15.6	-6.3	29.19	14.9	-9.1	31.86	14.4	9.2	38.87	14.5	22.0	39.18	15.4	0.8
Germany															
Composite barrel	214.70		-26.2	199.96		-6.9	218.43		9.2	251.55		15.2	236.21		-6.1
Crude cif price	52.65	24.5	-47.2	42.80	21.4	-18.7	54.02	24.7	26.2	70.50	28.0	30.5	64.43	27.3	-8.6
Tax	122.91	57.2	-19.4	121.34	60.7	-1.3	126.85	58.1	4.5	137.46	54.6	8.4	130.88	55.4	-4.8
Industry margin	39.14	18.2	1.4	35.82	17.9	-8.5	37.56	17.2	4.8	43.59	17.3	16.0	40.90	17.3	-6.2
Italy															
Composite barrel	249.55		-26.8	229.12		-8.2	250.31		9.2	280.42		12.0	264.05		-5.8
Crude cif price	52.06	20.9	-47.5	42.33	18.5	-18.7	53.17	21.2	25.6	70.88	25.3	33.3	64.70	24.5	-8.7
Tax	155.33	62.2	-20.1	150.50	65.7	-3.1	156.95	62.7	4.3	167.57	59.8	6.8	157.59	59.7	-6.0
Industry margin	42.16	16.9	-11.4	36.29	15.8	-13.9	40.19	16.1	10.7	41.97	15.0	4.4	41.76	15.8	-0.5
United Kingdom															
Composite barrel	270.45		-19.6	230.58		-14.7	239.64		3.9	267.11		11.5	258.12		-3.4
Crude cif price	53.81	19.9	-46.2	44.62	19.4	-17.1	54.69	22.8	22.6	72.65	27.2	32.8	65.58	25.4	-9.7
Tax	181.55	67.1	-10.1	158.90	68.9	-12.5	154.76	64.6	-2.6	163.62	61.3	5.7	158.01	61.2	-3.4
Industry margin	35.08	13.0	1.4	27.06	11.7	-22.9	30.20	12.6	11.6	30.83	11.5	2.1	34.53	13.4	12.0
G7															
Composite barrel	191.36		-25.2	174.93		-8.6	191.44		9.4	219.50		14.7	209.22		-4.7
Crude cif price	52.16	27.3	-47.1	42.37	24.2	-18.8	53.31	27.8	25.8	69.79	31.8	30.9	63.70	30.4	-8.7
Tax	101.53	53.1	-15.1	98.50	56.3	-3.0	101.89	53.2	3.4	110.10	50.2	8.1	106.24	50.8	-3.5
Industry margin	37.66	19.7	0.3	34.07	19.5	-9.6	36.24	18.9	6.4	39.60	18.0	9.3	39.28	18.8	-0.8
OECD															
Composite barrel	197.47		-25.0	180.99		-8.3	199.82		10.4	225.51		12.9	214.43		-4.9
Crude cif price	52.48	26.6	-47.4	42.73	23.6	-18.6	53.68	26.9	25.6	70.89	31.4	32.1	64.61	30.1	-8.9
Tax	99.58	50.4	-16.7	97.40	53.8	-2.2	102.50	51.3	5.2	109.91	48.7	7.2	105.26	49.1	-4.2
Industry margin	45.41	23.0	2.6	40.86	22.6	-10.0	43.64	21.8	6.8	44.70	19.8	2.4	44.56	20.8	-0.3

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.

Graph 8.1
Composite barrel and its components

(\$/b)

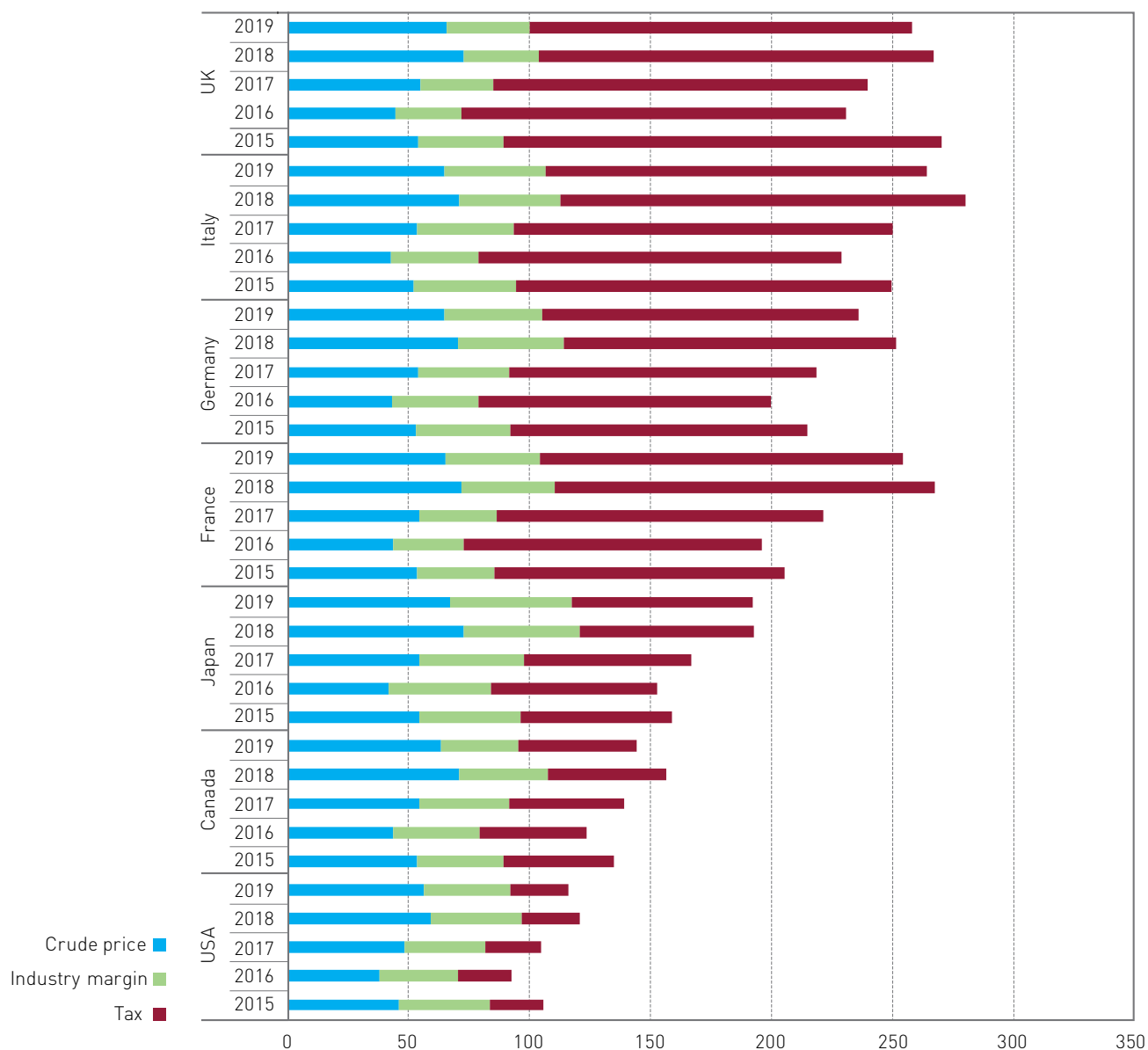


Table 8.2
Tax to CIF crude oil price ratio in major OECD oil consuming countries

(ratio)

	2015	2016	2017	2018	2019
USA	0.86	1.02	0.87	0.69	0.77
Canada	1.16	1.65	1.27	0.99	1.12
Japan	2.26	2.84	2.48	2.20	2.31
France	2.33	2.84	2.35	1.95	2.03
Germany	2.98	3.56	2.95	2.36	2.44
Italy	3.37	3.56	2.83	2.25	2.41
UK	1.95	2.32	1.91	1.58	1.67
G7	1.90	2.28	1.91	1.55	1.63
OECD	1.90	2.28	1.91	1.55	1.63

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.

Graph 8.2
Composite barrel and its components in percentage

[%]

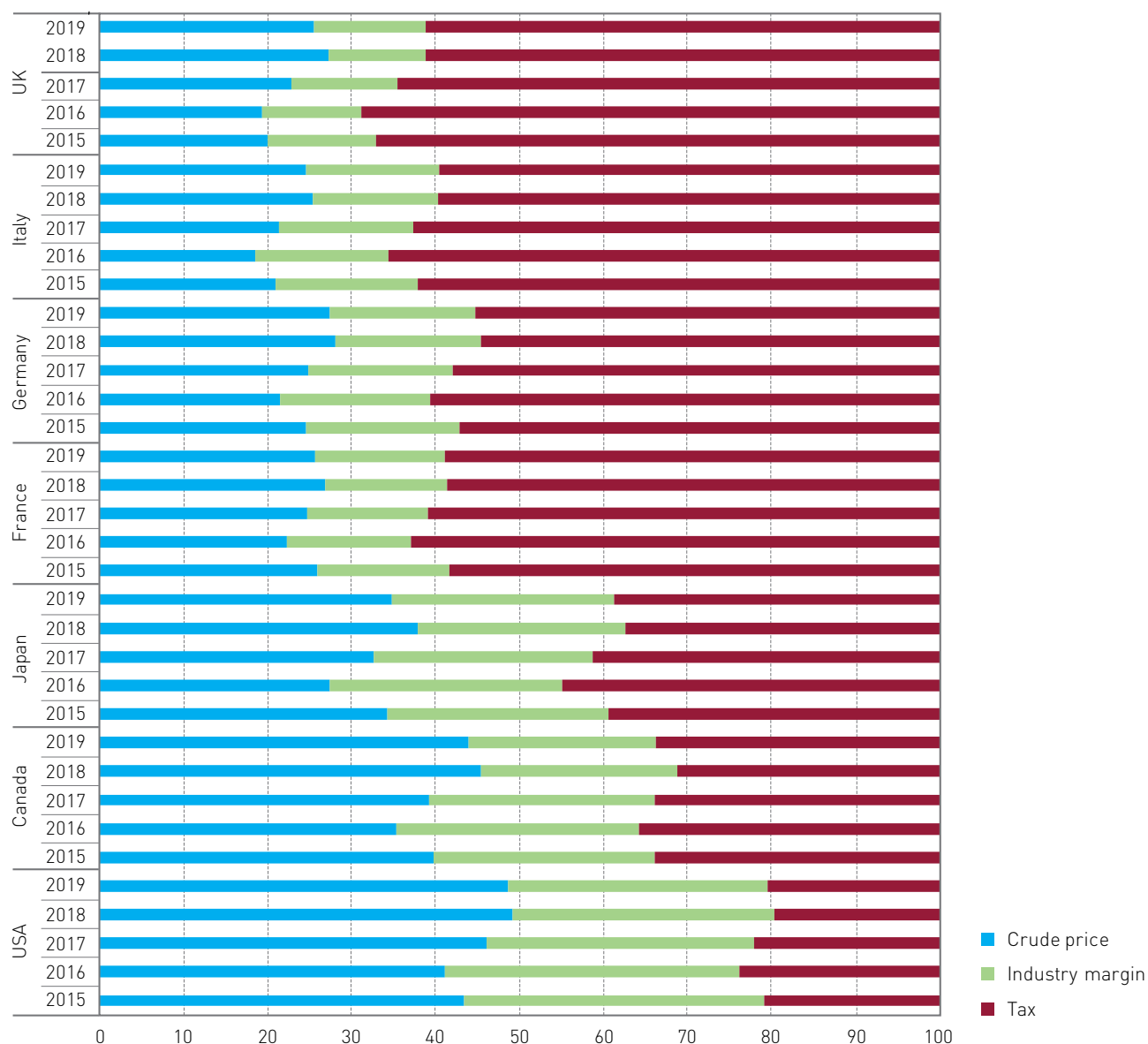


Table 8.3
Euro Big 4 household energy prices, 2019

[\$/toe NCV]

	Automotive diesel	Premium unleaded 95 RON	Liquefied petroleum gas	Natural gas	Electricity
Tax	1,071	1,299	431	244	1,058
Non-tax	771	767	844	754	1,993
Total price	1,842	2,066	1,275	997	3,051
Tax share (%)	58	63	34	24	35

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

Table 9.1

World proven natural gas reserves by country

(bn s cu m)

	2015	2016	2017	2018	2019	% change 19/18
North America	10,880	11,216	14,491	15,455	16,186	4.7
Canada	2,171	2,097	2,083	2,008	1,933	-3.8
United States	8,709	9,119	12,408	13,447	14,254	6.0
Latin America	7,892	7,855	7,769	7,695	7,634	-0.8
Argentina	350	337	355	357	373	4.5
Bolivia	305	310	303	303	310	2.3
Brazil	429	378	370	368	367	-0.4
Chile	6	5	5	4	4	-
Colombia	123	114	110	107	104	-3.0
Ecuador	11	11	11	11	11	-
Mexico	257	208	199	188	182	-2.9
Peru	399	456	455	466	375	-19.5
Trinidad & Tobago	300	286	246	208	225	8.2
Venezuela	5,702	5,740	5,707	5,674	5,674	-
Others	11	10	9	9	9	4.7
Eastern Europe and Eurasia	65,368	65,692	65,472	65,322	68,012	4.1
Armenia	18	18	18	18	18	-
Azerbaijan	1,284	1,277	1,270	1,435	1,718	19.7
Kazakhstan	1,907	1,898	1,865	1,830	1,830	-
Poland	61	58	56	73	75	2.2
Romania	103	99	92	87	87	-
Russia	50,205	50,617	50,508	50,279	50,279	-
Turkmenistan	9,870	9,838	9,806	9,771	12,177	24.6
Ukraine	314	304	296	288	288	-
Uzbekistan	1,585	1,564	1,543	1,522	1,522	-
Others	21	19	18	19	19	-
Western Europe	3,869	3,646	3,518	3,326	2,727	-18.0
Denmark	80	77	72	69	71	3.1
Germany	46	42	37	30	29	-1.8
Italy	49	38	45	48	52	7.9
Netherlands	825	740	695	659	161	-75.6
Norway	2,461	2,388	2,334	2,226	2,119	-4.8
United Kingdom	333	288	263	228	228	-
Others	75	73	72	66	68	2.8
Middle East	79,193	80,140	80,060	80,453	80,866	0.5
IR Iran	33,500	33,721	33,810	33,899	33,988	0.3
Iraq	3,158	3,820	3,744	3,729	3,714	-0.4
Kuwait	1,784	1,784	1,784	1,784	1,784	-
Oman	705	705	705	677	677	-
Qatar	24,299	24,073	23,861	23,846	23,831	-0.1
Saudi Arabia	8,588	8,619	8,715	9,069	9,423	3.9
United Arab Emirates	6,091	6,091	6,091	6,091	6,091	-
Others	1,068	1,327	1,350	1,358	1,358	-
Africa	14,539	14,978	15,336	15,765	15,800	0.2
Algeria	4,504	4,504	4,504	4,504	4,504	-
Angola	316	440	422	383	343	-10.3
Cameroon	153	152	151	150	142	-5.6
Congo	285	285	285	285	284	-0.2
Egypt	2,086	2,221	2,221	2,221	2,221	-
Equatorial Guinea	54	47	42	42	39	-7.1
Gabon	25	26	26	26	26	-
Libya	1,505	1,505	1,505	1,505	1,505	-
Nigeria	5,284	5,475	5,627	5,675	5,761	1.5
Others	326	324	554	975	975	-
Asia and Pacific	15,312	15,142	15,086	14,952	14,979	0.2
Australia	3,205	3,193	3,193	3,193	3,193	-
Bangladesh	385	588	568	591	549	-7.2
Brunei	258	252	240	228	228	-
China	2,644	2,716	2,732	2,720	3,013	10.8
India	1,252	1,227	1,284	1,330	1,330	-
Indonesia	2,775	2,775	2,865	2,830	2,707	-4.3
Malaysia	2,842	2,470	2,346	2,290	2,290	-
Myanmar	282	273	265	256	256	-
Pakistan	723	711	699	650	567	-12.8
Thailand	207	193	181	171	161	-5.8
Vietnam	207	203	199	195	195	-
Others	532	541	514	498	489	-1.8
Total world	197,053	198,669	201,732	202,969	206,205	1.6
<i>of which</i>						
OPEC	70,796	72,056	72,261	72,665	73,136	0.6
<i>OPEC percentage</i>	<i>35.9</i>	<i>36.3</i>	<i>35.8</i>	<i>35.8</i>	<i>35.5</i>	
OECD	18,567	18,866	22,024	22,813	22,942	0.6
FSU	65,184	65,517	65,307	65,126	67,815	4.1

Notes: Figures as at year-end.

Graph 9.1
Natural gas flows during 2019

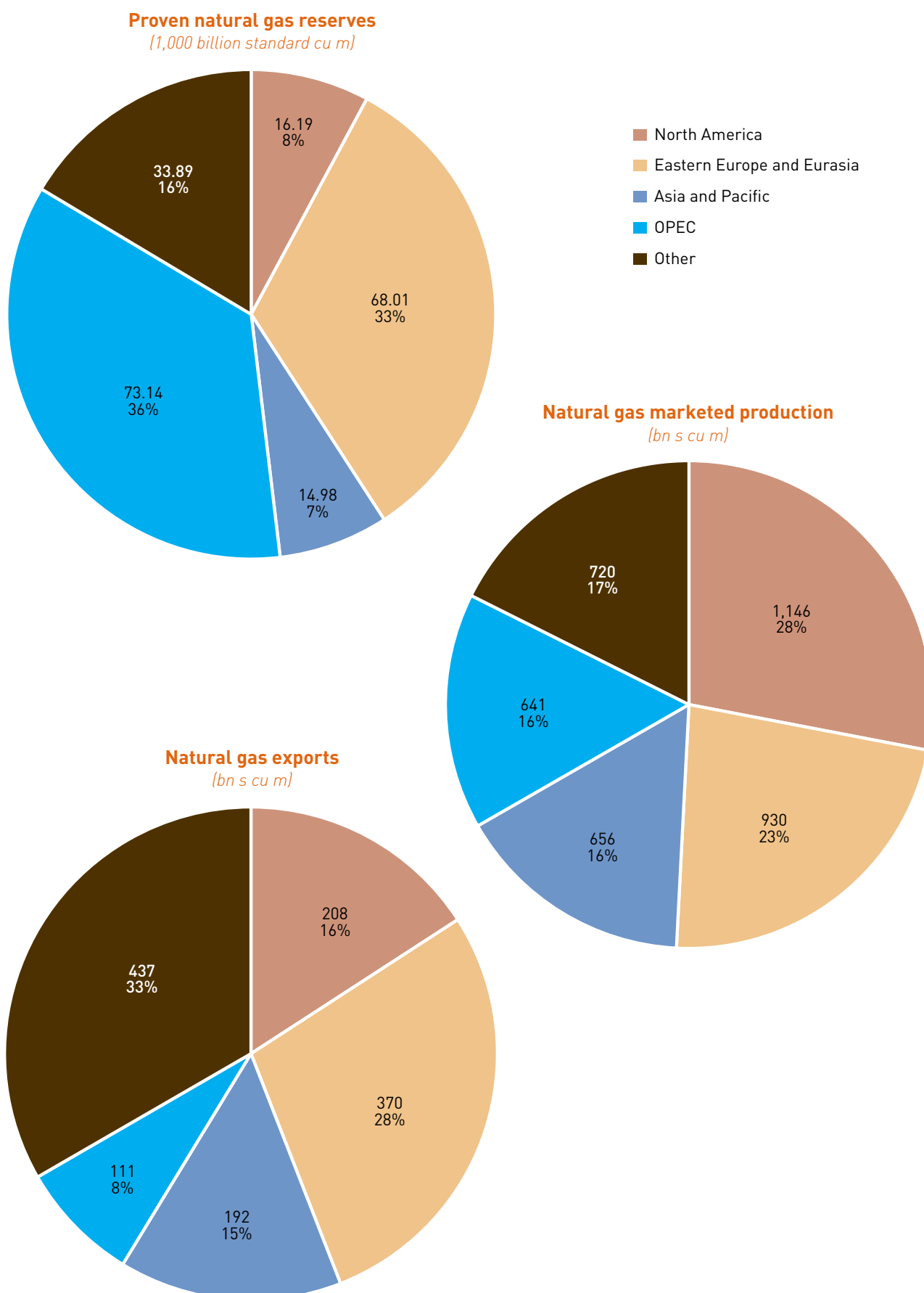


Table 9.2

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	2019
Algeria	–	2,599	11,647	51,600	83,119	84,615	89,583
Angola	–	40	260	540	570	733	10,546
Congo	–	10	10	–	–	575	580
Equatorial Guinea	–	–	–	–	30	6,540	6,235
Gabon	7	20	70	100	80	80	464
IR Iran	960	12,881	7,138	24,200	60,240	187,357	253,773
Iraq	604	780	1,281	3,980	3,150	7,511	11,544
Kuwait	943	2,037	4,071	4,190	9,600	11,733	13,952
Libya	–	294	5,170	6,200	5,880	16,814	14,190
Nigeria	–	111	1,070	4,010	12,460	28,099	47,828
Saudi Arabia	–	1,230	11,431	33,520	49,810	87,660	117,000
United Arab Emirates	–	756	6,863	22,110	38,380	51,282	55,097
Venezuela	4,958	7,710	14,805	21,966	27,801	19,728	20,559
OPEC	7,472	28,468	63,816	172,416	291,120	502,727	641,351

Cumulative marketed natural gas production up to and including year

	1960	1970	1980	1990	2000	2010	2019
Algeria	–	15,428	89,208	472,552	1,102,721	1,940,983	2,729,600
Angola	–	40	844	4,684	10,354	17,147	46,279
Congo	–	10	119	149	149	1,797	9,290
Equatorial Guinea	–	–	–	–	70	25,870	94,303
Gabon	7	147	2,132	3,162	4,142	5,012	8,704
IR Iran	960	33,063	203,263	353,113	790,718	1,906,280	3,903,431
Iraq	604	6,991	19,128	43,668	72,138	109,022	189,129
Kuwait	943	22,483	59,123	109,793	179,932	290,934	434,313
Libya	–	294	43,981	93,091	155,921	269,950	404,351
Nigeria	–	861	6,387	35,998	95,883	335,691	727,061
Saudi Arabia	–	8,588	58,961	275,956	708,196	1,410,617	2,369,927
United Arab Emirates	–	2,379	30,627	178,652	491,312	967,964	1,462,266
Venezuela	4,958	69,435	184,608	363,836	628,796	862,302	1,078,354
OPEC	7,472	159,719	698,381	1,934,654	4,240,332	8,143,569	13,457,009

Table 9.3

World marketed production of natural gas by country

(million s cu m)

	2015	2016	2017	2018	2019	% change 19/18
North America	932,081	928,683	959,260	1,059,066	1,145,563	8.2
Canada	164,010	174,057	184,172	190,929	190,464	-0.2
United States	768,071	754,626	775,088	868,137	955,099	10.0
Latin America	215,092	208,414	206,393	198,969	196,171	-1.4
Argentina	36,400	38,210	38,160	40,560	42,889	5.7
Bolivia	21,400	20,800	20,200	19,100	17,058	-10.7
Brazil	20,410	20,620	23,750	21,700	23,754	9.5
Chile	1,017	1,229	1,222	1,522	1,750	15.0
Colombia	11,910	10,400	9,600	9,500	9,795	3.1
Ecuador	497	530	463	349	313	-10.3
Mexico	45,984	41,227	36,216	33,003	30,767	-6.8
Peru	12,500	14,000	12,900	12,420	12,507	0.7
Trinidad & Tobago	37,720	32,500	32,900	34,900	35,627	2.1
Venezuela	26,004	27,718	29,793	24,785	20,559	-17.1
Others	1,250	1,180	1,190	1,130	1,153	2.0
Eastern Europe and Eurasia	811,601	807,214	860,256	903,346	930,100	3.0
Azerbaijan	18,000	17,500	16,900	17,800	20,811	16.9
Kazakhstan	21,200	21,700	25,800	27,040	26,076	-3.6
Poland	6,081	5,794	5,706	5,616	5,669	0.9
Romania	10,800	9,600	10,300	10,120	9,990	-1.3
Russia	594,800	599,440	646,800	680,430	703,776	3.4
Turkmenistan	83,700	79,770	80,500	84,440	86,662	2.6
Ukraine	19,000	19,420	19,850	20,330	20,261	-0.3
Uzbekistan	55,700	51,640	52,000	55,170	54,446	-1.3
Others	2,320	2,350	2,400	2,400	2,410	0.4
Western Europe	239,817	236,969	237,730	228,097	211,839	-7.1
Denmark	4,593	4,505	4,835	4,119	3,133	-23.9
Germany	8,392	7,606	6,974	5,945	5,741	-3.4
Italy	6,773	5,783	5,540	5,451	4,851	-11.0
Netherlands	54,379	50,543	43,871	38,909	33,638	-13.5
Norway	120,589	120,366	127,733	126,415	119,050	-5.8
United Kingdom	41,311	41,606	41,887	40,658	39,743	-2.2
Others	3,780	6,560	6,890	6,600	5,683	-13.9
Middle East	659,242	670,505	678,451	690,457	701,125	1.5
IR Iran	226,673	226,905	238,003	248,524	253,773	2.1
Iraq	7,685	10,416	10,650	11,130	11,544	3.7
Kuwait	16,909	17,291	17,102	17,738	13,952	-21.3
Oman	29,930	30,450	31,250	35,900	35,864	-0.1
Qatar	181,444	182,830	182,230	181,330	183,594	1.2
Saudi Arabia	104,450	110,860	115,000	118,000	117,000	-0.8
United Arab Emirates	60,181	61,862	54,086	47,624	55,097	15.7
Others	31,970	29,890	30,130	30,210	30,301	0.3
Africa	209,784	216,627	230,927	248,171	252,005	1.5
Algeria	83,041	93,152	94,778	95,898	89,583	-6.6
Angola	772	1,919	3,111	9,614	10,546	9.7
Cameroon	500	540	600	1,600	1,600	-
Congo	928	866	860	867	580	-33.1
Egypt	44,350	42,100	51,900	62,100	68,866	10.9
Equatorial Guinea	7,442	7,876	8,237	7,751	6,235	-19.6
Gabon	550	551	487	530	464	-12.4
Libya	15,493	15,570	14,309	13,880	14,190	2.2
Nigeria	45,148	42,562	45,434	44,251	47,828	8.1
Others	11,560	11,490	11,210	11,680	12,112	3.7
Asia Pacific	546,261	563,702	595,353	617,999	656,113	6.2
Australia	74,761	93,442	112,583	130,519	151,924	16.4
Bangladesh	26,800	26,300	26,500	26,450	28,128	6.3
Brunei	12,000	11,550	11,800	11,390	11,775	3.4
China	130,500	132,700	144,000	154,800	170,251	10.0
India	32,050	30,400	31,750	31,700	32,291	1.9
Indonesia	72,800	72,200	70,400	70,200	65,824	-6.2
Malaysia	63,100	64,400	68,000	66,310	68,009	2.6
Myanmar	17,500	16,800	16,460	16,070	16,229	1.0
Pakistan	39,300	38,800	38,820	38,100	37,725	-1.0
Thailand	39,800	38,900	37,400	36,440	38,027	4.4
Vietnam	9,400	9,460	8,730	8,830	9,012	2.1
Others	28,250	28,750	28,910	27,190	26,918	-1.0
Total world	3,613,879	3,632,113	3,768,371	3,946,105	4,092,916	3.7
<i>of which</i>						
OPEC	595,277	617,549	631,851	640,592	641,351	0.1
<i>OPEC percentage</i>	<i>16.5</i>	<i>17.0</i>	<i>16.8</i>	<i>16.2</i>	<i>15.7</i>	
OECD	1,317,766	1,326,385	1,373,381	1,478,015	1,567,985	6.1
FSU	792,500	789,570	841,950	885,310	912,244	3.0

Table 9.4
World natural gas exports by country

(million s cu m)

	2015	2016	2017	2018	2019	% change 19/18
North America	128,755	148,156	173,984	182,426	207,680	13.8
Canada	78,253	82,023	84,679	80,275	75,748	-5.6
United States	50,502	66,133	89,305	102,151	131,932	29.2
Latin America	39,268	37,594	34,719	36,571	34,287	-6.2
Argentina	80	60	10	100	50	-50.0
Bolivia	18,060	17,800	16,400	15,110	12,800	-15.3
Colombia	400	-	-	-	-	-
Mexico	28	24	19	11	12	9.1
Peru	4,830	5,070	5,250	4,700	4,500	-4.3
Trinidad & Tobago	15,870	14,150	12,620	16,380	16,660	1.7
Others	-	490	420	270	265	-1.9
Eastern Europe and Eurasia	265,600	275,960	311,190	337,520	369,661	9.5
Azerbaijan	7,320	7,620	8,030	9,190	11,486	25.0
Kazakhstan	12,290	12,480	14,220	17,550	17,689	0.8
Russia	197,740	208,040	229,420	248,570	260,883	5.0
Turkmenistan	40,300	37,700	37,700	36,400	55,425	52.3
Uzbekistan	7,550	10,120	10,320	12,900	9,990	-22.6
Others	400	-	11,500	12,910	14,188	9.9
Western Europe	236,681	240,957	253,759	257,879	239,895	-7.0
Belgium	17,080	21,180	23,950	24,620	24,009	-2.5
Denmark	2,191	2,114	2,235	1,538	1,344	-12.6
France	5,468	3,717	6,038	5,925	10,789	82.1
Germany	26,360	27,530	35,910	38,440	28,031	-27.1
Italy	220	212	271	396	326	-17.7
Netherlands	50,962	56,597	48,017	54,485	54,283	-0.4
Norway	114,200	114,373	122,485	120,961	111,304	-8.0
Spain	5,047	3,984	2,876	3,244	1,121	-65.4
United Kingdom	14,243	10,300	11,347	7,610	8,044	5.7
Others	910	950	630	660	644	-2.5
Middle East	163,508	162,641	164,882	176,360	169,794	-3.7
IR Iran	8,541	8,567	12,927	12,327	8,800	-28.6
Oman	10,000	10,550	11,150	13,400	8,500	-36.6
Qatar	129,877	130,324	128,645	143,445	143,000	-0.3
United Arab Emirates	13,200	13,200	12,109	7,087	9,374	32.3
Others	1,890	-	50	100	120	20.0
Africa	84,158	95,151	103,002	95,370	103,606	8.6
Algeria	43,419	53,974	53,891	51,424	42,497	-17.4
Angola	-	1,149	517	541	582	7.6
Congo	-	-	190	-	-	-
Egypt	-	670	1,160	1,240	6,694	439.8
Equatorial Guinea	5,572	5,587	6,183	5,509	4,679	-15.1
Libya	4,664	4,664	4,470	4,251	9,100	114.1
Nigeria	26,704	25,147	32,511	28,626	35,953	25.6
Others	3,800	3,960	4,080	3,780	4,100	8.5
Asia and Pacific	137,699	155,353	174,103	184,942	191,689	3.6
Australia	39,499	58,683	74,803	91,582	100,278	9.5
Brunei	8,520	8,450	8,920	8,270	8,322	0.6
Indonesia	30,290	30,420	29,820	29,620	25,248	-14.8
Malaysia	34,990	34,180	36,840	33,960	36,441	7.3
Myanmar	13,910	12,800	12,150	11,310	10,900	-3.6
Others	10,490	10,820	11,570	10,200	10,500	2.9
Total world	1,055,669	1,115,812	1,215,639	1,271,068	1,316,612	3.6
<i>of which</i>						
OPEC	102,099	112,288	122,799	109,765	110,986	1.1
<i>OPEC percentage</i>	<i>9.7</i>	<i>10.1</i>	<i>10.1</i>	<i>8.6</i>	<i>8.4</i>	
OECD	388,220	437,260	496,520	448,950	469,725	4.6
FSU	265,200	275,960	299,690	324,610	355,273	9.4

Notes:

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

Table 9.5
World natural gas imports by country

(million s cu m)

	2015	2016	2017	2018	2019	% change 19/18
North America	96,592	105,812	110,151	103,461	103,124	-0.3
Canada	19,627	20,679	24,260	21,659	25,491	17.7
United States	76,965	85,133	85,891	81,802	77,633	-5.1
Latin America	56,747	55,631	48,598	44,137	38,742	-12.2
Argentina	10,670	11,580	12,200	10,890	9,641	-11.5
Brazil	18,980	13,380	10,720	10,810	9,904	-8.4
Chile	3,494	4,380	4,375	4,648	4,952	6.5
Mexico	20,393	23,341	18,353	13,679	10,053	-26.5
Venezuela	400	-	-	-	-	-
Others	2,810	2,950	2,950	4,110	4,192	2.0
Eastern Europe and Eurasia	98,820	95,590	117,860	114,620	120,836	5.4
Belarus	17,300	17,200	17,600	18,810	18,741	-0.4
Hungary	5,510	6,250	9,500	10,910	14,917	36.7
Kazakhstan	4,700	5,230	5,600	7,200	8,132	12.9
Poland	10,920	12,500	13,180	13,850	13,470	-2.7
Russia	18,000	15,910	18,150	15,100	14,659	-2.9
Ukraine	16,520	11,100	14,100	10,600	11,813	11.4
Others	25,870	27,400	39,730	38,150	39,104	2.5
Western Europe	425,570	451,888	491,406	504,987	512,315	1.5
Austria	6,040	7,400	8,470	10,760	11,165	3.8
Belgium	34,980	39,430	42,100	43,830	43,143	-1.6
France	44,711	46,444	48,260	49,316	54,670	10.9
Germany	103,040	112,200	125,040	126,990	123,495	-2.8
Italy	61,200	65,285	69,622	67,877	70,912	4.5
Netherlands	26,060	29,470	32,860	44,300	49,103	10.8
Spain	30,620	30,350	32,980	33,580	35,953	7.1
Turkey	48,427	46,352	55,121	50,007	45,172	-9.7
United Kingdom	45,062	48,457	47,623	48,177	47,619	-1.2
Others	25,430	26,500	29,330	30,150	31,083	3.1
Middle East	44,487	47,707	44,148	46,578	39,229	-15.8
IR Iran	9,015	9,246	4,731	6,000	1,000	-83.3
Iraq	-	-	1,456	4,100	6,104	48.9
Jordan	2,370	4,460	4,560	3,730	4,100	9.9
Kuwait	3,852	4,311	4,781	4,418	4,509	2.1
Oman	1,990	1,970	1,970	1,600	302	-81.1
United Arab Emirates	27,100	27,479	26,030	26,050	22,504	-13.6
Others	160	240	620	680	710	4.4
Africa	11,980	18,230	17,320	12,980	12,751	-1.8
Egypt	3,610	9,750	8,040	3,060	151	-95.1
Morocco	1,000	1,150	1,140	1,000	1,300	30.0
South Africa	3,800	3,960	4,080	4,120	4,900	18.9
Tunisia	2,970	3,270	3,680	4,100	5,600	36.6
Others	600	100	380	700	800	14.3
Asia and Pacific	302,453	322,574	354,141	398,120	398,594	0.1
Australia	7,279	6,921	6,200	6,258	5,772	-7.8
China	59,650	72,800	92,020	121,280	130,156	7.3
India	18,670	26,160	26,740	29,590	30,164	1.9
Japan	122,534	120,073	120,501	119,372	111,308	-6.8
Malaysia	3,270	2,160	2,580	2,350	4,142	76.2
Pakistan	1,370	4,460	6,570	8,970	11,200	24.9
Singapore	12,370	12,810	13,420	13,800	14,100	2.2
South Korea	44,430	44,520	49,930	58,630	53,813	-8.2
Thailand	13,490	12,760	13,830	14,200	13,560	-4.5
Others	19,390	19,910	22,350	23,670	24,380	3.0
Total world	1,024,669	1,079,202	1,166,304	1,211,903	1,212,839	0.1
<i>of which</i>						
OPEC	40,367	41,037	36,998	40,568	34,117	-15.9
<i>OPEC percentage</i>	<i>3.9</i>	<i>3.8</i>	<i>3.2</i>	<i>3.3</i>	<i>2.8</i>	
OECD	755,760	800,990	872,390	895,020	904,510	1.1
FSU	67,200	59,550	66,190	64,110	65,745	2.6

Notes:

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

Table 9.6

World natural gas demand by country

(million s cu m)

	2015	2016	2017	2018	2019	% change 19/18
North America	875,487	889,068	893,209	984,965	1,019,757	3.5
Canada	104,027	111,934	124,522	133,328	141,529	6.2
United States	771,460	777,134	768,687	851,637	878,228	3.1
Latin America	230,511	222,562	216,781	202,061	195,070	-3.5
Argentina	46,990	49,730	50,350	51,350	50,480	-1.7
Bolivia	3,340	3,000	3,800	3,990	5,053	26.6
Brazil	39,390	33,910	34,390	32,440	32,338	-0.3
Chile	4,779	5,323	5,396	6,164	6,229	1.1
Colombia	11,510	10,480	9,650	9,760	9,906	1.5
Ecuador	497	530	461	349	313	-10.4
Mexico	66,349	64,544	54,550	46,671	40,808	-12.6
Peru	7,670	8,930	7,650	7,720	7,909	2.5
Trinidad & Tobago	21,850	18,350	20,280	18,520	18,657	0.7
Venezuela	24,076	23,715	26,204	20,117	17,550	-12.8
Others	4,060	4,050	4,050	4,980	5,827	17.0
Eastern Europe and Eurasia	648,223	629,325	668,651	684,116	682,123	-0.3
Azerbaijan	10,880	10,180	9,420	10,540	12,638	19.9
Hungary	9,017	9,717	10,450	10,050	10,233	1.8
Kazakhstan	13,610	14,450	17,180	16,690	16,194	-3.0
Poland	18,196	19,108	20,381	20,836	21,311	2.3
Romania	10,970	10,990	11,410	12,410	12,142	-2.2
Russia	415,060	407,310	435,530	446,960	440,847	-1.4
Turkmenistan	43,400	42,070	42,800	48,040	52,364	9.0
Ukraine	35,520	30,520	33,950	30,930	30,171	-2.5
Uzbekistan	48,150	41,520	41,680	42,270	41,697	-1.4
Others	43,420	43,460	45,850	45,390	44,526	-1.9
Western Europe	435,059	463,098	486,111	468,666	480,721	2.6
Austria	8,334	8,746	9,494	8,982	9,267	3.2
Belgium	16,778	17,019	17,265	17,716	18,163	2.5
France	38,788	42,699	42,874	40,861	41,614	1.8
Germany	81,292	89,133	92,473	85,316	91,792	7.6
Italy	67,524	70,914	75,150	72,667	74,316	2.3
Netherlands	40,139	42,032	46,438	43,046	44,786	4.0
Spain	27,861	28,558	31,007	30,925	35,399	14.5
Turkey	47,829	46,471	53,598	49,643	44,930	-9.5
United Kingdom	72,174	81,236	79,562	80,870	79,339	-1.9
Others	34,340	36,290	38,250	38,640	41,115	6.4
Middle East	482,609	493,004	543,900	565,429	579,984	2.6
Bahrain	16,170	16,000	16,500	16,630	18,915	13.7
IR Iran	184,900	188,598	231,103	242,367	247,941	2.3
Iraq	6,868	9,101	9,457	13,025	17,598	35.1
Kuwait	20,761	21,602	21,067	21,860	18,460	-15.6

Table 9.6
World natural gas demand by country

(million s cu m)

	2015	2016	2017	2018	2019	% change 19/18
Middle East (cont'd)						
Oman	21,920	21,870	22,070	24,380	27,062	11.0
Qatar	38,400	38,592	38,347	41,247	41,529	0.7
Saudi Arabia	104,450	106,852	115,000	118,000	122,720	4.0
United Arab Emirates	72,700	71,799	71,596	70,030	68,226	-2.6
Others	16,440	18,590	18,760	17,890	17,532	-2.0
Africa	130,852	134,756	137,602	145,470	149,566	2.8
Algeria	39,019	39,546	40,373	44,429	46,831	5.4
Angola	770	770	780	785	789	0.6
Congo	908	846	680	867	580	-33.1
Egypt	47,960	51,180	58,780	63,080	62,380	-1.1
Equatorial Guinea	1,287	1,592	1,577	1,523	1,477	-3.0
Gabon	550	551	407	530	635	20.0
Libya	5,934	5,893	5,250	5,040	4,939	-2.0
Nigeria	18,445	18,168	12,795	10,756	12,705	18.1
South Africa	4,900	4,960	4,880	5,080	4,804	-5.4
Tunisia	4,570	4,670	4,980	5,350	5,431	1.5
Others	6,510	6,580	7,100	8,030	8,994	12.0
Asia Pacific	696,169	722,120	760,140	815,704	850,826	4.3
Australia	38,640	39,250	41,930	42,190	57,443	36.2
Bangladesh	26,800	26,300	26,500	27,360	28,266	3.3
Brunei	3,480	3,100	2,880	3,120	2,910	-6.7
China	190,150	205,500	236,020	276,080	300,688	8.9
India	50,450	56,480	58,490	61,200	59,950	-2.0
Indonesia	42,510	41,780	40,580	40,580	38,503	-5.1
Japan	123,080	122,321	121,377	121,905	114,172	-6.3
Malaysia	31,380	32,380	33,740	34,700	35,568	2.5
Myanmar	3,590	4,000	4,310	4,760	5,284	11.0
New Zealand	5,000	5,049	5,068	4,547	4,533	-0.3
Pakistan	40,670	43,260	45,390	47,070	49,565	5.3
South Korea	42,979	45,530	45,185	52,012	50,812	-2.3
Thailand	53,290	51,660	51,230	50,640	51,682	2.1
Vietnam	9,400	9,460	8,730	8,830	8,941	1.3
Others	34,750	36,050	38,710	40,710	42,511	4.4
Total world	3,498,910	3,553,933	3,706,394	3,866,411	3,958,047	2.4
<i>of which</i>						
OPEC	480,668	489,033	536,289	549,329	560,453	2.0
<i>OPEC percentage</i>	<i>13.7</i>	<i>13.8</i>	<i>14.5</i>	<i>14.2</i>	<i>14.2</i>	
OECD	1,642,420	1,688,058	1,708,996	1,783,520	1,827,372	2.5
FSU	594,500	573,160	608,430	624,870	622,401	-0.4

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.)

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

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

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

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

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

Africa: **Algeria**, **Angola**, Benin, Botswana, British Indian Ocean Territory, Burkina Faso, Burundi, Cameroon (United Republic of), Cape Verde, Central African Republic, Chad, Comoros, **Congo**, 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.

Asia and Pacific: Afghanistan, American Samoa, Antarctica, Australia, Bangladesh, Bhutan, Brunei, Cambodia, Canton and Enderbury Islands, People's Republic of China (PRC), Hong Kong Special Administrative Regions (SAR of the PRC), Macau SAR of the PRC, Christmas Island, Cocos (Keeling) Islands, Cook Islands, Fiji, French Polynesia, Guam, India, Indonesia, Japan, Johnston Island, Kiribati, Korea (Democratic People's Republic of), Korea (Republic of), Lao People's Democratic Republic, Malaysia, Maldives, Midway Islands, Mongolia, Myanmar, Nauru, Nepal, New Caledonia, New Zealand, Niue, Norfolk Island, Pacific Islands (Trust Territory), Pakistan, Papua New Guinea, Philippines, Pitcairn Island, Samoa, Singapore, Solomon Islands, Sri Lanka, Thailand, Tokelau, Tonga, Tuvalu, Vanuatu, Vietnam, Wake Island, Wallis, Futuna Islands and Other Asia and Pacific.

Economic organizations

Organization of the Petroleum Exporting Countries (OPEC) — Members: 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) — Members: 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.

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

Abbreviations

Symbols:

- na Not available/not applicable.
- Zero, nil or negligible.

Currencies:

\$	US dollar	XAF	Central African Franc (Congo, Gabon and Equatorial Guinea)	LYD	Libyan dinar
€	Euro	IRR	Iranian rial	NGN	Nigerian naira
		IQD	Iraqi dinar	SAR	Saudi Arabian riyal
DZD	Algerian dinar	KWD	Kuwaiti dinar	AED	United Arab Emirates dirham
AOA	Angolan new kwanza			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 Pertamina 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
Asamera	Asamera 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		
NIOC	National Iranian Oil Company		
NNPC	Nigerian National Petroleum Corporation		

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Conversion factors

Crude oil

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

By country *(b/tonne)*

Algeria	8.052
Angola	7.370
Congo	7.113
Equatorial Guinea	7.192
Gabon	7.442
IR Iran	7.382
Iraq	7.379
Kuwait	7.276
Libya	7.570
Nigeria	7.368
Saudi Arabia	7.323
United Arab Emirates	7.565
Venezuela	6.656
OPEC	7.372

Petroleum products *(b/tonne)*

Gasoline	8.4998
Kerosene	7.7652
Distillates	7.2296
Residuals	6.6208

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