

OIL PRODUCTION

The Middle East and North Africa are exceptionally well-endowed with energy resources, holding about 67% of the world's proven conventional oil reserves at the end of 2014. Current oil production is relatively low in comparison to these reserves and further development of them will be critical to meeting global energy needs in the coming decades. Unconventional oil (e.g. oil shale and sands, liquid supplies based on coal and biomass, and liquids arising from the chemical processing of natural gas) is also expected to play an increasing role in meeting world demand.

Definition

Crude oil production refers to the quantities of oil extracted from the ground after the removal of inert matter or impurities. Crude oil is a mineral oil consisting of a mixture of hydrocarbons of natural origin, being yellow to black in colour, of variable density and viscosity.

Refinery production refers to the output of secondary oil products from an oil refinery. Crude oil includes all primary oils – crude oil, natural gas liquids, and other

hydrocarbons, for example synthetic crude oil from tar sands, shale oil, etc.

Comparability

In general, data on oil production are of high quality. In some instances, information has been based on secondary sources or estimated by the International Energy Agency (IEA).

Overview

World crude oil production has increased by 57% over the 43 years from 1971 to 2014. In 2014, production reached 3 858 million tonnes or about 76 million barrels per day. Growth was not constant over the period as production declined in the aftermath of two oil shocks in the early and late 1970s.

In 2014, the Middle East region's share of oil production was 31% of the world total. However, both the level of production and its share in the world total varied significantly over the period, from 39% of the world total in 1974 to 19% in 1985. Increased production in the 1980s and 1990s put the OECD on par with the Middle East during that period, but by 2014, the share of OECD oil production had fallen to 23%.

In 2014, OECD crude oil production rose by 7% year-on-year, driven by strong growth in North America. In the rest of the world, most of the growth happened outside of OPEC countries (minus 0.1% for OPEC and 1% for rest of the world).

The United States has overtaken Saudi Arabia and Russia as the world's leading producer of crude oil. Canada also remained in the top-five with production levels close to the ones of China. In the rest of the OECD, production by all major oil producers except Norway declined from 2013 to 2014.

With the increase in the production of United States and Canada, the five top oil-producing countries represented together nearly half (48%) of world production. OPEC member countries represented 40% of total oil production and OECD members 25%.

Sources

- International Energy Agency (IEA) (2015), *Energy Balances of OECD Countries*, IEA, Paris.
- IEA (2015), *Energy Balances of Non-OECD Countries*, IEA, Paris.
- IEA (2015), *Oil Information*, IEA, Paris.

Further information

Analytical publications

- IEA (2015), *Energy Policies of IEA Countries*, IEA, Paris.
- IEA (2015), *Energy Technology Perspectives*, IEA, Paris.
- IEA (2015), *Medium-Term Gas Market Report*, IEA, Paris.
- IEA (2015), *Medium-Term Oil Market Report*, IEA, Paris.
- IEA (2015), *World Energy Outlook*, IEA, Paris.
- OECD (2014), *Chemicals Used in Oil Well Production, Series on Emission Scenario Documents*, No. 31, OECD Publishing.

Online databases

- IEA World Energy Statistics and Balances.

Websites

- International Energy Agency, www.iea.org.
- Oil Market Report, www.oilmarketreport.org.

Production of crude oil

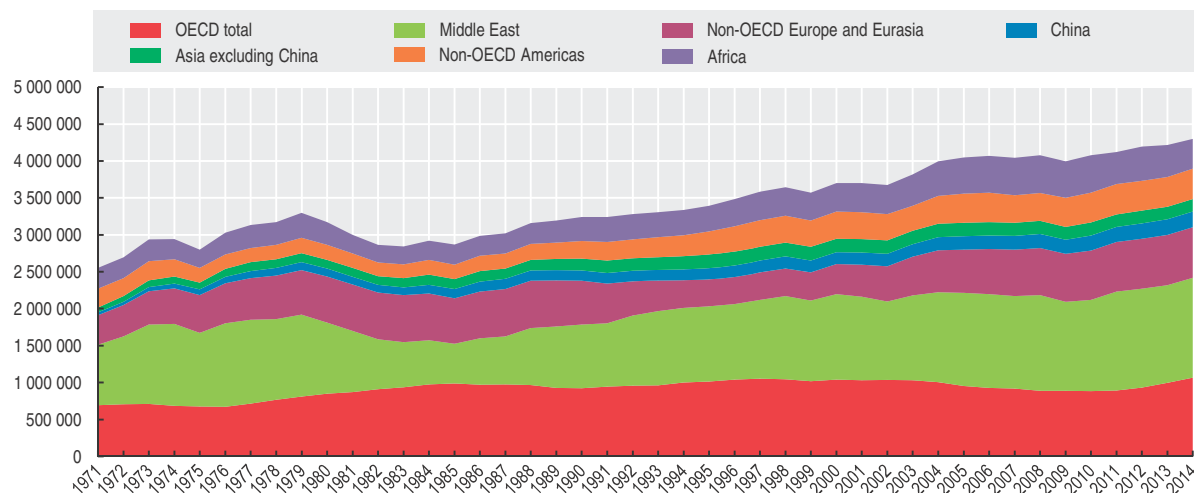
Thousand tonnes of oil equivalent (ktoe)

| | 1971 | 1990 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Australia | 14 826 | 29 026 | 28 534 | 25 673 | 23 216 | 25 912 | 23 855 | 24 510 | 23 906 | 23 092 | 23 043 | 20 093 | 18 582 |
| Austria | 2 628 | 1 208 | 1 077 | 980 | 998 | 997 | 995 | 1 056 | 1 026 | 972 | 933 | 886 | 925 |
| Belgium | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Canada | 72 408 | 94 147 | 149 294 | 146 228 | 153 665 | 157 146 | 155 262 | 153 349 | 161 138 | 170 764 | 183 664 | 195 251 | 212 268 |
| Chile | 1 766 | 1 166 | 390 | 355 | 348 | 592 | 602 | 721 | 611 | 641 | 532 | 539 | 418 |
| Czech Republic | 35 | 218 | 579 | 588 | 440 | 429 | 343 | 306 | 269 | 341 | 319 | 258 | 260 |
| Denmark | - | 6 113 | 19 783 | 19 018 | 17 294 | 15 579 | 14 414 | 13 252 | 12 486 | 11 237 | 10 250 | 8 918 | 8 350 |
| Estonia | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Finland | - | - | 83 | 89 | 90 | 24 | 14 | 59 | 43 | 38 | 46 | 42 | 42 |
| France | 2 499 | 3 471 | 1 527 | 1 357 | 1 225 | 1 196 | 1 336 | 1 173 | 1 125 | 1 088 | 988 | 1 012 | 921 |
| Germany | 7 724 | 4 709 | 4 437 | 4 603 | 4 563 | 4 536 | 4 247 | 3 851 | 3 315 | 3 454 | 3 373 | 3 374 | 3 136 |
| Greece | - | 837 | 122 | 92 | 87 | 74 | 57 | 73 | 105 | 89 | 86 | 64 | 58 |
| Hungary | 1 990 | 2 273 | 1 591 | 1 418 | 1 359 | 1 214 | 1 245 | 1 207 | 1 090 | 968 | 1 030 | 880 | 818 |
| Iceland | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ireland | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Israel | 5 830 | 13 | 2 | 2 | 7 | 4 | 6 | 6 | 4 | 20 | 12 | 12 | 12 |
| Italy | 1 254 | 4 468 | 5 616 | 6 260 | 6 103 | 6 308 | 5 719 | 4 962 | 5 620 | 5 608 | 5 629 | 5 748 | 5 982 |
| Japan | 852 | 696 | 699 | 750 | 742 | 808 | 767 | 748 | 695 | 698 | 620 | 549 | 516 |
| Korea | - | - | 437 | 534 | 571 | 581 | 536 | 692 | 698 | 707 | 718 | 605 | 609 |
| Luxembourg | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Mexico | 25 654 | 152 756 | 198 747 | 193 675 | 187 341 | 176 984 | 166 861 | 156 254 | 154 961 | 153 327 | 152 190 | 150 058 | 144 799 |
| Netherlands | 1 748 | 4 069 | 2 973 | 2 338 | 2 083 | 2 857 | 2 434 | 2 029 | 1 684 | 1 701 | 1 786 | 1 936 | 2 053 |
| New Zealand | - | 1 966 | 1 169 | 1 084 | 1 061 | 2 086 | 2 933 | 2 771 | 2 745 | 2 382 | 2 121 | 1 855 | 2 068 |
| Norway | 287 | 83 659 | 146 590 | 135 281 | 125 850 | 121 770 | 116 694 | 110 526 | 99 371 | 96 340 | 87 327 | 82 051 | 84 179 |
| Poland | 396 | 175 | 917 | 892 | 813 | 733 | 788 | 697 | 744 | 676 | 700 | 983 | 971 |
| Portugal | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Slovak Republic | 163 | 77 | 219 | 261 | 226 | 259 | 232 | 203 | 210 | 223 | 189 | 227 | 250 |
| Slovenia | - | 3 | - | - | - | - | - | - | - | - | - | - | - |
| Spain | 127 | 1 168 | 260 | 169 | 142 | 145 | 129 | 107 | 125 | 102 | 145 | 375 | 311 |
| Sweden | - | 3 | - | - | - | - | - | - | - | - | - | - | - |
| Switzerland | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| Turkey | 3 529 | 3 613 | 2 224 | 2 231 | 2 134 | 2 109 | 2 134 | 2 373 | 2 478 | 2 342 | 2 310 | 2 370 | 2 436 |
| United Kingdom | 237 | 95 248 | 99 633 | 88 467 | 80 010 | 79 872 | 74 612 | 70 898 | 64 368 | 53 223 | 46 275 | 42 206 | 41 334 |
| United States | 549 436 | 432 545 | 339 085 | 322 545 | 317 808 | 317 454 | 312 911 | 335 501 | 346 692 | 360 705 | 407 368 | 475 946 | 534 593 |
| EU 28 | .. | 134 586 | 145 818 | 133 715 | 122 181 | 120 159 | 112 293 | 105 326 | 97 300 | 84 694 | 76 417 | 71 664 | 70 086 |
| OECD | 693 389 | 923 627 | 1 005 989 | 954 889 | 928 175 | 919 670 | 889 125 | 887 324 | 885 509 | 890 739 | 931 655 | 996 238 | 1 065 891 |
| Brazil | 8 662 | 33 393 | 78 800 | 86 943 | 92 405 | 94 187 | 97 335 | 104 057 | 109 591 | 112 833 | 112 660 | 110 145 | 122 207 |
| China | 40 120 | 138 306 | 175 942 | 181 427 | 184 855 | 186 423 | 190 561 | 189 619 | 203 157 | 203 034 | 207 644 | 210 101 | 211 855 |
| India | 7 460 | 35 323 | 39 150 | 37 679 | 39 345 | 39 533 | 39 002 | 39 404 | 43 139 | 43 694 | 43 334 | 43 036 | 42 701 |
| Indonesia | 44 947 | 74 589 | 54 476 | 53 445 | 50 207 | 47 632 | 49 222 | 48 215 | 48 442 | 46 147 | 44 486 | 42 181 | 40 338 |
| Russian Federation | .. | 526 252 | 458 466 | 468 708 | 478 130 | 490 038 | 488 530 | 493 641 | 506 541 | 514 864 | 521 251 | 524 196 | 531 095 |
| South Africa | - | - | 1 621 | 853 | 811 | 175 | 150 | 430 | 494 | 494 | 252 | 214 | 214 |
| World | 2 552 306 | 3 240 983 | 3 995 826 | 4 046 002 | 4 070 191 | 4 045 004 | 4 079 918 | 3 994 336 | 4 076 661 | 4 119 083 | 4 195 257 | 4 215 637 | 4 300 002 |

1 2 <http://dx.doi.org/10.1787/888933336469>

Production of crude oil by region

Thousand tonnes of oil equivalent (ktoe)

1 2 <http://dx.doi.org/10.1787/888933335324>



From:
OECD Factbook 2015-2016
Economic, Environmental and Social Statistics

Access the complete publication at:
<https://doi.org/10.1787/factbook-2015-en>

Please cite this chapter as:

OECD (2016), "Oil production", in *OECD Factbook 2015-2016: Economic, Environmental and Social Statistics*, OECD Publishing, Paris.

DOI: <https://doi.org/10.1787/factbook-2015-44-en>

This work is published under the responsibility of the Secretary-General of the OECD. The opinions expressed and arguments employed herein do not necessarily reflect the official views of OECD member countries.

This document and any map included herein are without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area.

You can copy, download or print OECD content for your own use, and you can include excerpts from OECD publications, databases and multimedia products in your own documents, presentations, blogs, websites and teaching materials, provided that suitable acknowledgment of OECD as source and copyright owner is given. All requests for public or commercial use and translation rights should be submitted to rights@oecd.org. Requests for permission to photocopy portions of this material for public or commercial use shall be addressed directly to the Copyright Clearance Center (CCC) at info@copyright.com or the Centre français d'exploitation du droit de copie (CFC) at contact@cfcopies.com.